FED. RD. DIVISION	STATE	FEDERAL AID PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

1 / 150

F-41-(4)

L664E

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)
TRU-422-(2.06-8.28)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

WARREN — BURTON ROAD

S.H. 325 SEC. B(PT.), C, D(PT.)

TRUMBULL COUNTY

WARREN, SOUTHINGTON & CHAMPION TOWNSHIPS

CONVENTIONAL SIGNS

TOWNSHIP LINE
CORPORATION LINE
STEAM RAILROAD

INDEX OF SHEETS

TITLE SHEET	SHEET 1
TYPICAL SECTIONS	" 2,3,4
GENERAL NOTES AND DETAILS	" 5,10,12,13 INCL.
RELOCATION PLAT	" 14
SUMMARY	" 15,16,17
PLAN AND PROFILE	" 18 To 41 INCL.
SUPERELEVATION TABLE	" 8
CROSS SECTIONS	" 42 To 105 INCL.
APPROACHES	" 106 To 114 INCL.
CULVERTS	" 115 To 150 INCL.

EQUATIONS
Sta. 0+00 of F-41(4) = Sta. 0+62.03 of FA-41-B
Sta. 345+00 of F-41(4) = Sta. 50+31.77 of FA-41-D

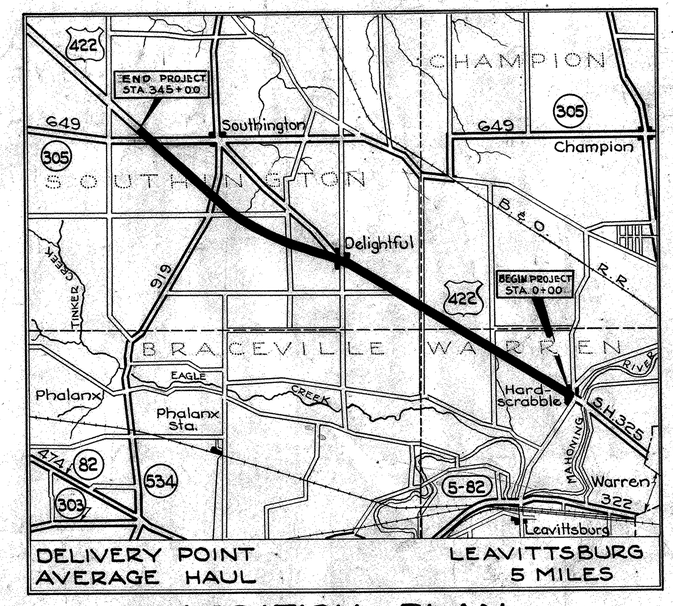
LINE DATA

Beginning of F-41-(4) Sta. 0+00
End of F-41-(4) Sta. 345+00
No additions or deductions
Net length F-41-(4) = 34,500 L.F. or 6.534 miles.

Beginning of work Sta. 0+00
End of work Sta. 348+00
No additions or deductions
Net length of work = 34,800 L.F. or 6.590 miles.

377

FILE Nº	TRUMBULL COUNTY S.H. 325 SEC. B(PT.), C, D(PT.) DATE OF LETTING _____ 1947 CONTRACT Nº _____



LOCATION PLAN
Scale 1" = 1 Mile

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS

*Recommended for Approval by P.R.A. 2-21-47

STANDARD DRAWINGS

DRAWING No.	DATE	DRAWING No.	DATE	DRAWING No.	DATE
L-3	2-1-47	* I-15 No.7	2-1-47	S.B.C-45	11-20-45
* S-27-P.C.2	12-1-41	* I-15 No.9	2-1-47	L.B.C-45	6-14-45
* S-27-P.C.3	2-20-45	* G-8.07	2-1-47		
* I-1,2,3,4&5	2-20-45				
* I-8 C.B. Nº 7	5-1-47				
* I-8 C.B. 1-3&1-4	12-15-41				
* I-8 C.B. 2-3&2-4	12-15-41				
* I-15 No.1	3-1-47				
* I-15 No.2	2-1-47				
* I-15 No.4	2-1-47				
* I-15 No.5	2-1-47				
* I-15 No.6	2-1-47				

SCALES

PLAN 1" = 50'
PROFILE-HORIZ. 1" = 50' & 1" = 100'
PROFILE-VERT. 1" = 5' & 1" = 10'
CROSS SECTIONS 1" = 5' & 1" = 10'

The Standard Specifications of the State of Ohio, Department of Highways, including changes and Supplemental Specifications listed in the Proposal shall govern this improvement.

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

The right of way for this improvement will be provided by the State of Ohio.

Approved W.W. Moore
Date 10-17-47 DIVISION DEPUTY DIRECTOR

Approved _____
Date _____ CHIEF ENGINEER, BUREAU OF MAINTENANCE

Approved G.P. Rogue
Date 11-10-47 CHIEF ENGINEER, BUREAU OF BRIDGES AND RAILROAD CROSSINGS

Approved George J. Thurnau
Date 11/4/47 CHIEF ENGINEER, BUREAU OF LOCATION AND DESIGN

Approved _____
Date _____ FIRST ASSISTANT DIRECTOR AND CHIEF ENGINEER

Approved Murray D. Shaffer
Date 11-14-47 DIRECTOR OF HIGHWAYS

CONSTRUCTION BUREAU
NOV 7 1955
GROUND PHOTOLAB

SUPPLEMENTAL SPECIFICATIONS

SPECIFICATION NO.	DATE	SPECIFICATION NO.	DATE
M-103.12	7-1-41		
193	11-10-47		

RECOMMENDED FOR APPROVAL _____ DATE _____
DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED _____ DATE _____
DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

TITLE SHEET

Field Book No's.
622-623 & 661 to 669 incl.

Public Utilities Within Right of Way :-
The Ohio Public Service Co.
Warren Telephone Co.

TYPICAL SECTIONS

T-33

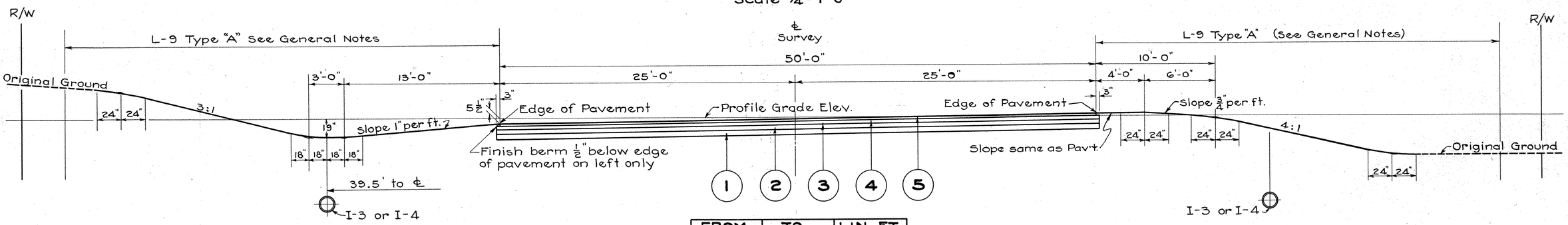
Scale 1/4" = 1'-0"

DESIGN SPEED
70 M.P.H.

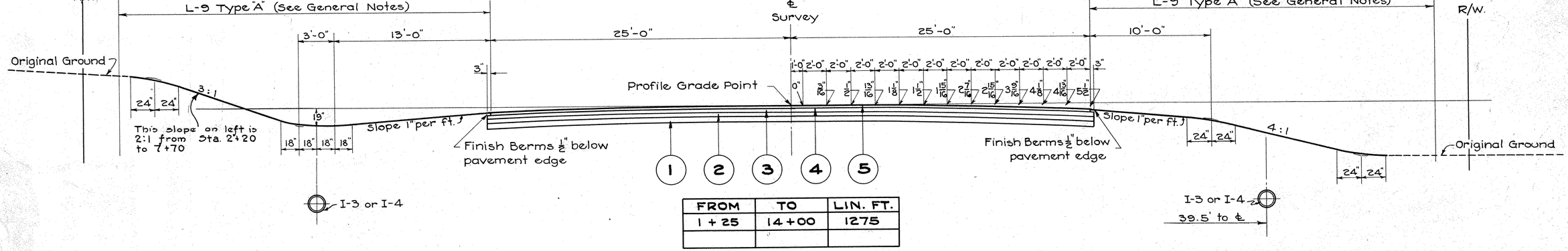
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41 (4)	1947

2/150

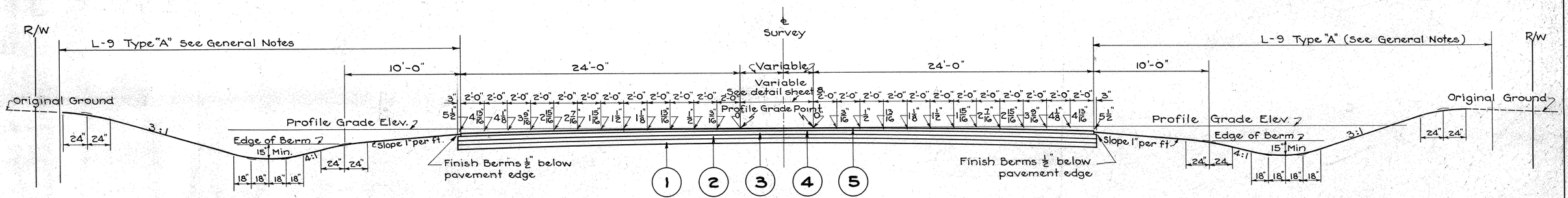
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)



FROM	TO	LIN. FT.
0+00	1+25	125



FROM	TO	LIN. FT.
1+25	14+00	1275



FROM	TO	LIN. FT.
14+00	16+75	275

See Transition Details Sheet 8

NOTE :-
See Sheet 4 for Pavement Legend

Field Book No's
G22-G23 & GG1 to GG8 incl.

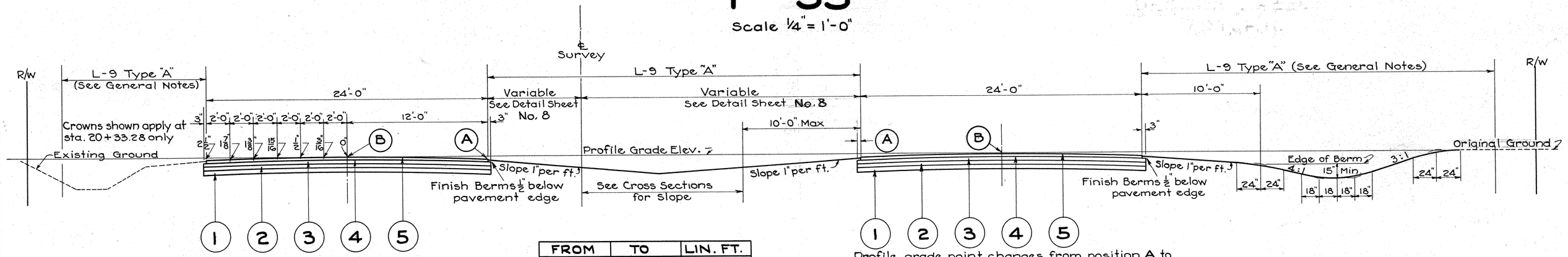
TYPICAL SECTIONS
T - 33

Scale 1/4" = 1'-0"

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41 (4)	1947

3
150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

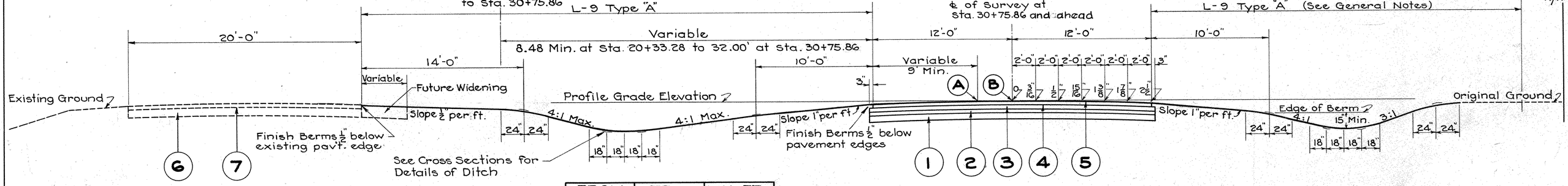


FROM	TO	LIN. FT.
16+75	20+33.28	358.28

See Transition Details Sheet 8

Profile grade point changes from position A to position B and crown changes from 5½" to 2½" between sta. 16+75 and sta. 20+33.28 on left and between sta. 16+75 and sta. 21+25 on right. See table on sheet 8 for details of transition

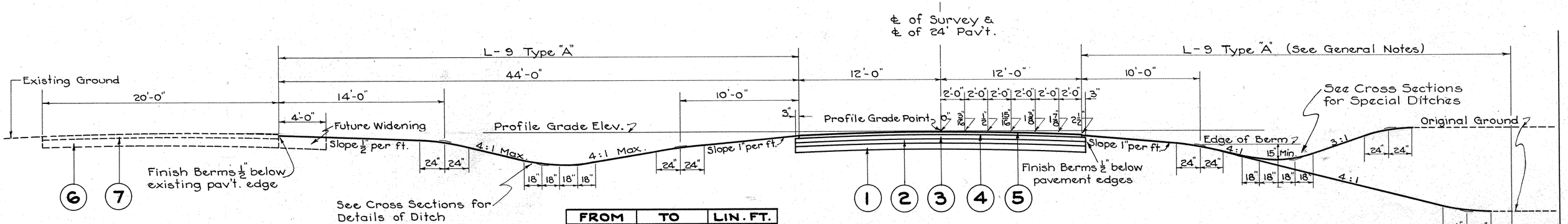
NOTE :-
See Sheet 4 for pavement legend



FROM	TO	LIN. FT.
20+33.28	30+75.86	1042.58

See Transition Details Sheet 8

Profile grade point (high point) changes from position A at sta. 20+33.28 to position B at sta. 21+25. Build 24' pavement with crown as shown from sta. 21+25 to sta. 30+75.86. See table on sheet 8 for details of transition of profile grade point.



FROM	TO	LIN. FT.
30+75.86	140+00	10924.14

NOTE :-
See Sheet 4 for pavement legend

TYPICAL SECTIONS

Field Book No's.
622-623 and 661 TO 668 incl.

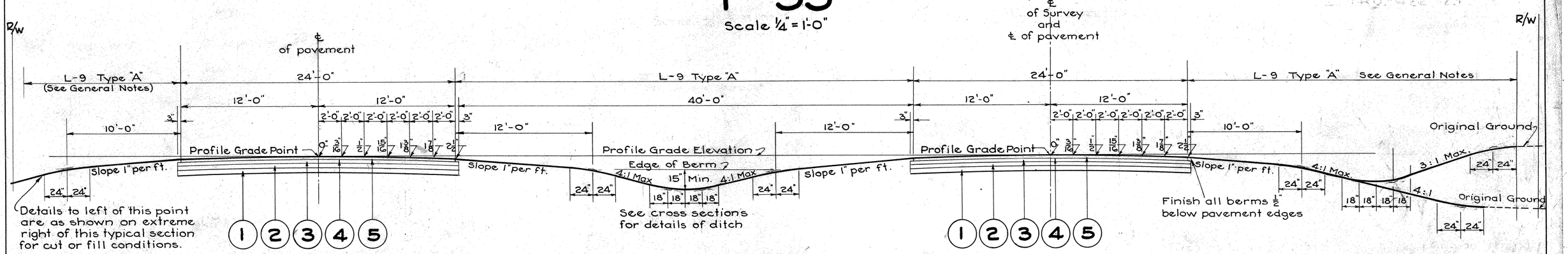
TYPICAL SECTIONS
T-33

Scale ¼" = 1'-0"

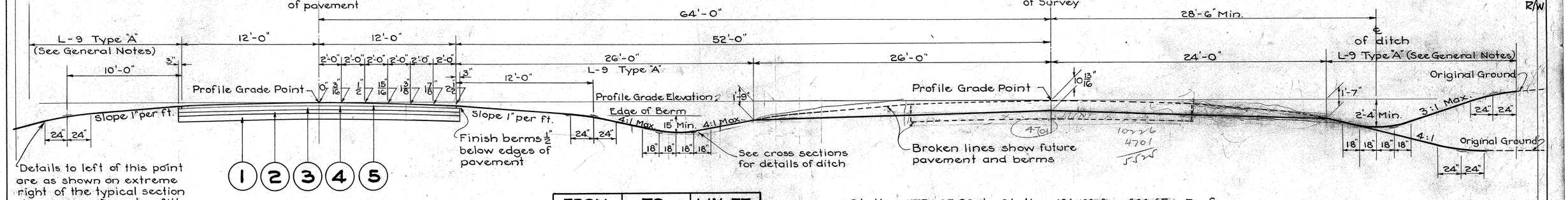
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

4 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C(PT.), D(PT.)



FROM	TO	LIN. FT.
140+00	175+65.96	3565.96



FROM	TO	LIN. FT.
175+65.96	345+00	16934.04

Station 175+65.96 to Station 181+68.12 = 606.67 L.F. of temporary transition pavement from two 24' pavements divided to one 24' pavement.

SPECIAL GRANULATED SLAG, GRADE B, BASE COURSE

STATION FROM	STATION TO	LIN. FT. COMPACTED DEPTH INCHES 3	5	7	9	18
0+00	19+00	⊛	1900			
19+00	39+00	2000				
39+00	128+00		8900			
128+00	142+00	1400				
142+00	155+00		1300			
155+00	165+00				1000	
165+00	170+00			500		
170+00	176+50				650	
176+50	177+50					100
177+50	185+00				750	
185+00	189+00			400		
189+00	242+00				5300	
242+00	246+50			450		

STATION FROM	STATION TO	LIN. FT. COMPACTED DEPTH INCHES 3	5	7	9	18
246+50	275+00				2850	
275+00	280+00			500		
280+00	327+75				4775	
327+75	332+00			425		
332+00	345+00				1300	

⊛ LEFT LANE - 5" GRAN. SLAG BASE FROM STA. 0+00 TO STA. 20+33.28
RIGHT LANE - 5" GRAN SLAG BASE AS SHOWN ABOVE - SEE CALCULATIONS

PAVEMENT LEGEND

1. Special Granulated Slag (Grade B) Base Course. See table at left for compacted depths
2. 4" B-20 Waterbound Macadam Base Course
3. 4" B-20 Waterbound Macadam Base Course
4. T-30 Bituminous Prime Coat (Sec. M-5.7 RT-2 or 3) Using 0.35 gallons per sq. yd.
5. 3" T-33 Bituminous Macadam Surface Course, Type "A"
6. Existing Macadam Pavement - 15" Depth
7. Existing 2½" Minimum Asphaltic Concrete

H.L.R.

TYPICAL SECTIONS

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR	5 / 150
2	OHIO	F-41-(4)	1947	

TRUMBULL COUNTY
S.H. 325 SEC. B(PT),C,D(PT)

GENERAL NOTES

BERMS AND SLOPES:-

Berms and slopes shall be finished in accordance with the typical sections except where otherwise shown or noted in the cross sections. Although the cross sections as drawn show straight lines and angles, in construction all corners shall be rounded as shown in the typical sections. All transitions from excavation to embankment slopes shall be blended with the surrounding terrain as directed by the Engineer.

REMOVAL OF EXISTING PAVEMENT:-

After the existing pavement has been removed, (Item E-8 -Sh. 32, 33, 40,) the old roadway shall be plowed, harrowed and dragged to a smooth grade, the old ditches filled and the entire area left in a neat condition. Cost of this work shall be included in the unit price bid for pavement removal, item E-8, Areas shall then be seeded and mulched, item L-9. Pavement removed shall be incorporated into the fill in lieu of Borrow as directed by the Engineer.

COMPACTION:-

Compaction will not be required on the top 3" to be seeded or sodded. The thickness of the subgrade to be compacted on this project will be 8 inches, loose measurement, the width shall be the width of the pavement plus 18 inches on each side of the pavement.

TRENCH ROLLER:-

In narrow base widening areas inaccessible to the standard rollers, the necessary compaction shall be performed with a trench roller meeting the requirements of Sec. G-7.01.

TREE AND STUMP REMOVAL:-

Payment for removal of all trees and stumps within the limits of the project as marked by the Engineer is included in the unit price bid for item E-1 Roadway Excavation. No tree shall be removed unless specifically marked for removal by the Engineer.

ITEM L-9 SEEDING & PROTECTING ROADWAY AREAS:-

Quantities for these items are calculated for the soil areas between lines 10 feet outside the work limits as shown on the cross sections or to the right of way line if such line is less than 10 feet from the work limits. L-9 type A shall be omitted on areas to be sodded.

All areas outside these limits where the vegetative growth has been injuriously disturbed shall be restored and seeded in accordance with the provisions of item L-9, type A by the Contractor at his own expense.

SEEDING:- Meadow Fescue, Alta Fescue or Chewing Fescue may be substituted for Kentucky Blue Grass.

MULCHING:- Optional method of holding mulching in place;

The method of tying down the mulching material as shown on Standard Drawing L-3 may be replaced over suitable areas as directed by the use of a Seaman Pulvi-Mixer Machine or equal to incorporate the mulching material with the soil. Any area not treated with the machine shall have the mulching material secured by the usual method shown in the Standard Drawing. (See additional L-9 note on this sheet for asphalt mulching).

10-6-4 COMMERCIAL FERTILIZER:-

At the discretion of the Engineer, the fertilizer formula may be modified or changed to meet available formulae.

ITEM L-10 SODDING:-

If sod is placed between the dates June 1st and October 15th, the required mulch shall be held in place as shown on the plans. Areas to be sodded shall be loosened to a depth of 2 inches just prior to laying the sod. This work to be included for payment in the price bid per square yard of sodding.

PIPE SPECIALS:-

Deductions for pipe specials shown on this plan are as follows:-

SIZE	PIPE (ROUND) WYES		PIPE (ROUND) CURVES	12" CHANNEL PIPE TEES	
	CARRYING LINE	SPUR		CARRYING LINE	SPUR
6"	1'	1'	1'		
12"	3'	1'		2'	1'
15" x 21"	4'	1'			
24" & OVER	4'	2'			

GRANULATED SLAG (GRADE B) BASE COURSE:-

The granulated slag base shall be sprinkled sufficiently to lubricate the particles, then rolled in 5" Max. Depth Compacted Courses with a trench roller or a 3-E or 3-F roller meeting the requirements of Sec. G-7.01 weighing not less than 7 tons or more than 10 tons. Rolling shall conform to the third and fourth paragraphs of Sec. B-20.05.

Should the subgrade become soft and mixed through this course the Contractor shall without additional cost, remove the material, reshape and compact the subgrade and replace the materials removed with clean aggregate which shall be rolled until compacted satisfactorily and uniformly with the surrounding surface. The finished subgrade shall conform to the requirements set forth in the last sentence of Sec. B-20.06. The yardage to be paid for shall be the number of square yards of granulated slag as specified in place, compacted, complete and accepted. Payment for water is included in the unit price bid for granulated slag base course.

TRANSITION PAVEMENT STA. 175+65.96 TO STA. 181+68.12

The cross sections show the work in accordance with the typical sections which are drawn in contemplation of construction of the future north bound lane, under later contract and before the completion of this contract, in which case the transition pavement shown on these plans may be non-performed. If the transition pavement is performed under this contract its removal due to construction of the future north bound lane will be performed under the later contract.

TRAFFIC AND WORK PROCEDURE:-

Two way traffic shall be maintained at all times between Sta. 0+00 and Sta. 345+00. The contractor shall arrange his operations so that traffic inconvenience will be held to a minimum. For this purpose the construction procedure outlined below is to be followed, except that any other method of procedure, suggested by the Contractor may be used if satisfactory to the Engineer:

Step 1 - Construct north bound lane to Sta. 154+60, routing traffic over existing U.S.R. 422.

Step 2 - Construct temporary approach between north bound lane at sta. 154+60 and the existing pavement at sta. 159+00 by widening existing pavement as shown on cross sections and detail on sheet 9 routing traffic as in step 1. (See sketch below).

Step 3 - Construct south bound lane between sta. 140+00 and Sta. 345+00, also north bound lane between Sta. 162+50 and P.T. at Sta. 175+65.96, and the transition pavement between Sta. 175+65.96 and Sta. 181+68.12 routing traffic over existing U.S.R. 422 thru Delightful and Southington.

Step 4 - Route traffic over south bound lane thru the entire project. Construct approach to north bound lane at Sta. 165+50. Construct north bound lane between Sta 154+60 and Sta. 162+50. Remove existing pavement and temporary widening between Sta. 154+60 and the approach at Sta. 165+50 and complete the work here as shown on the plans.

Methods of work procedure and traffic maintenance elsewhere shall be submitted to the Engineer for approval. Traffic lanes shall be maintained in a manner satisfactory to the Engineer. The roadway for all traffic lanes shall have 20 feet width of aggregate with at least 4 foot berms. See Sec. G-8.07 for requirements on use of barricades, danger and warning signs. The item of "maintaining traffic" shall include furnishing lights, signs, barricades and watchmen necessary to secure the flow of traffic 24 hours daily.

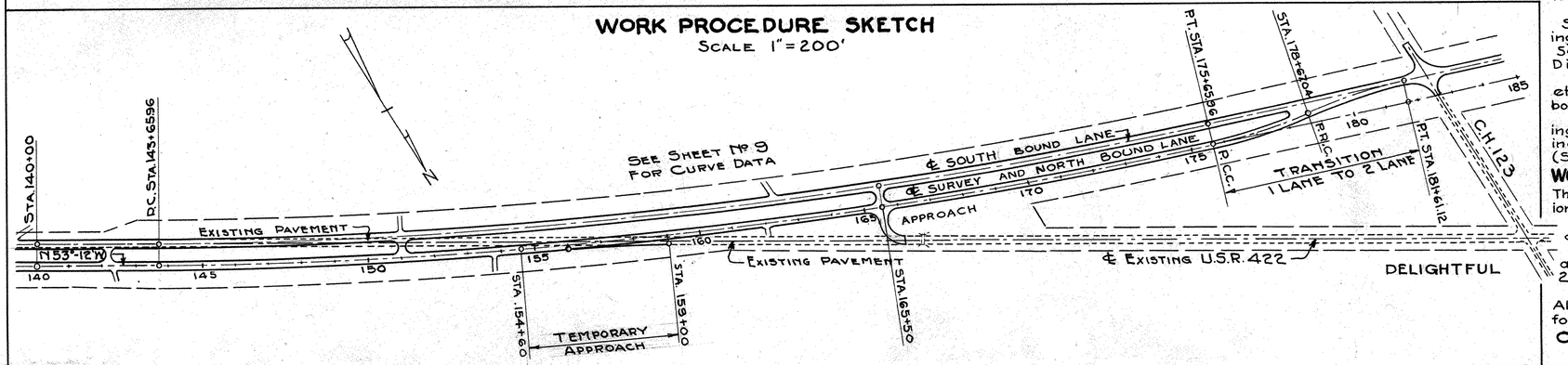
The following estimated quantities are provided for maintaining traffic during construction of culverts under the existing pavement, and other Traffic Maintenance as directed by the Engineer;

T-10 Traffic Bound Surface Course, Coarse Aggregate	600 C.Y.
T-10 Traffic Bound Surface Course, Fine Aggregate	200 C.Y.
M-10 Calcium Chloride for Traffic Lanes	16 Tons

Proportions and Quantities of T-10 and M-10 to be placed shall be as directed by the Engineer.

WORK PROCEDURE SKETCH

SCALE 1" = 200'



PIPE CULVERTS:-

Length of concrete cradles under C.M.P. Culverts may be shortened at the time of construction if so directed by the Engineer. Final quantities shall be reflected in final change order.

MONUMENTS:-

All monuments within the limits of the project shall be adjusted to the new grade by the Contractor as directed by the Engineer. Cost of adjusting monuments is included in the unit price bid for item E-1 Roadway Excavation.

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 in these plans.

ACCESS:-

Access to all properties abutting this improvement shall be provided and maintained at all times by the Contractor.

DRIVEWAYS:-

Driveways and mail box approaches not shown on the plan but for which quantities have been estimated on the driveway and Mail Box Approach Details shall be constructed at locations as directed by the Engineer. The locations of such driveways and mail box approaches shall be determined by conference between the property owner concerned and the Engineer. Before proceding with the construction of any such driveways or mail box approaches the property owner is to furnish the Engineer a written statement to the effect that he concurs in the location. The General Summary includes the following items which are to be used only as indicated above:

E-1 Roadway Excavation	500 C.Y.	I-1	12" Pipe for driveways	300	L.F.
I-9 No. 1 Stone Underdrain. Type A	240 L.F.	I-1	15" " " "	300	L.F.
I-17 Side approaches, mail box		I-1	18" " " "	120	L.F.
turnouts and berm material	1500 S.Y.	I-1	21" " " "	120	L.F.
		I-1	24" " " "	120	L.F.

SUPERELEVATION:-

That portion of the pavement between Sta. 0+00 and Sta. 1+25 is in the transition section of a horizontal curve. Between these points the crown shall be worked into the pavement by varying the crown uniformly from the existing crown at Sta 0+00 to 5½ crown at Sta. 1+25.

L-9 SEEDING AND PROTECTING ROADWAY AREAS. USE OF CUT BACK ASPHALT IN PLACE OF STRAW OR OTHER MULCHING MATERIAL:-

From Sta 0+00 to Sta. 57+00 mulching shall be done by the following method: Immediately after the seed has been sown and raked in, the seeded areas shall be moistened to a depth of one inch using two hundred gallons of water per each one thousand square feet of seeded area. Watering shall proceed over areas in such a manner that the asphalt can be applied without tracking over any wetted area by machine or workmen. If rainfall is such as to satisfactorily take care of the above watering the watering may be non-performed at the direction of the Engineer.

Immediately after a given area is watered and before this area dries out, Cut-Back Asphalt mulch shall be applied uniformly at a rate of 0.25 gallon per square yard. An optimum application temperature of the material at 170 degrees Fahrenheit may be varied by the Engineer, but shall not exceed 190 degrees Fahrenheit. The application shall be made only with an approved hand spray or by a distributor equipped with a suitable spray bar.

The Cut-Back Asphalt shall meet the following specifications:

Viscosity Saybolt Furol at 140° F., Sec.	90-120	
Flash, Tag Open Cup of	150	+
Distillation. {Percent off at 500° F	30	+
{Percent off at 680° F	52	-
Tests of distillation residue { Softening point, (ring and ball) of	190	+
{ Penetration at 77° F., 100 grams, 5 Sec.	15	-

Sampling and testing Cut-Back Asphalt shall be in accordance with the following methods of the American Association of State Highway Officials:

Sampling T-40-42 Viscosity T-72-42 Flash point T-79-42
Distillation T-78-42 Softening Point T-53-42 Penetration T-49-42

The special Cut-Back Asphalt shall be treated so that it is not toxic to vegetation. It shall be of such character that it will crack without breaking the bond between the asphalt and the soil.

Watering shall be paid for under the item E-11 Water. All other work, including labor, material and equipment shall be paid for under the item L-9 Seeding and Protecting Roadway Areas. {ESTIMATED QUANTITY USING ASPHALT} (See other L-9 note on this sheet). { 46,666, S.Y.

WORK AT ABANDONED BUILDING SITES.

The following work within the right of way shall be performed by the Contractor at locations where buildings have been removed from the right of way:

1. Foundations, buildings, cisterns, wells and septic tanks shall be removed to a line at least two feet below the proposed finished grade and the concrete floor broken up into pieces whose areas do not exceed one square foot, then the entire hole filled with acceptable earth according to E-1.05, as directed by the Engineer.
2. Walks, steps and miscellaneous masonry structures shall be removed as directed by the Engineer.

All of the work described above is included in the unit price bid per cubic yard for E-1 Roadway Excavation, unclassified. Estimated Embankment = 2500 C.Y.

OTHER NOTES:-

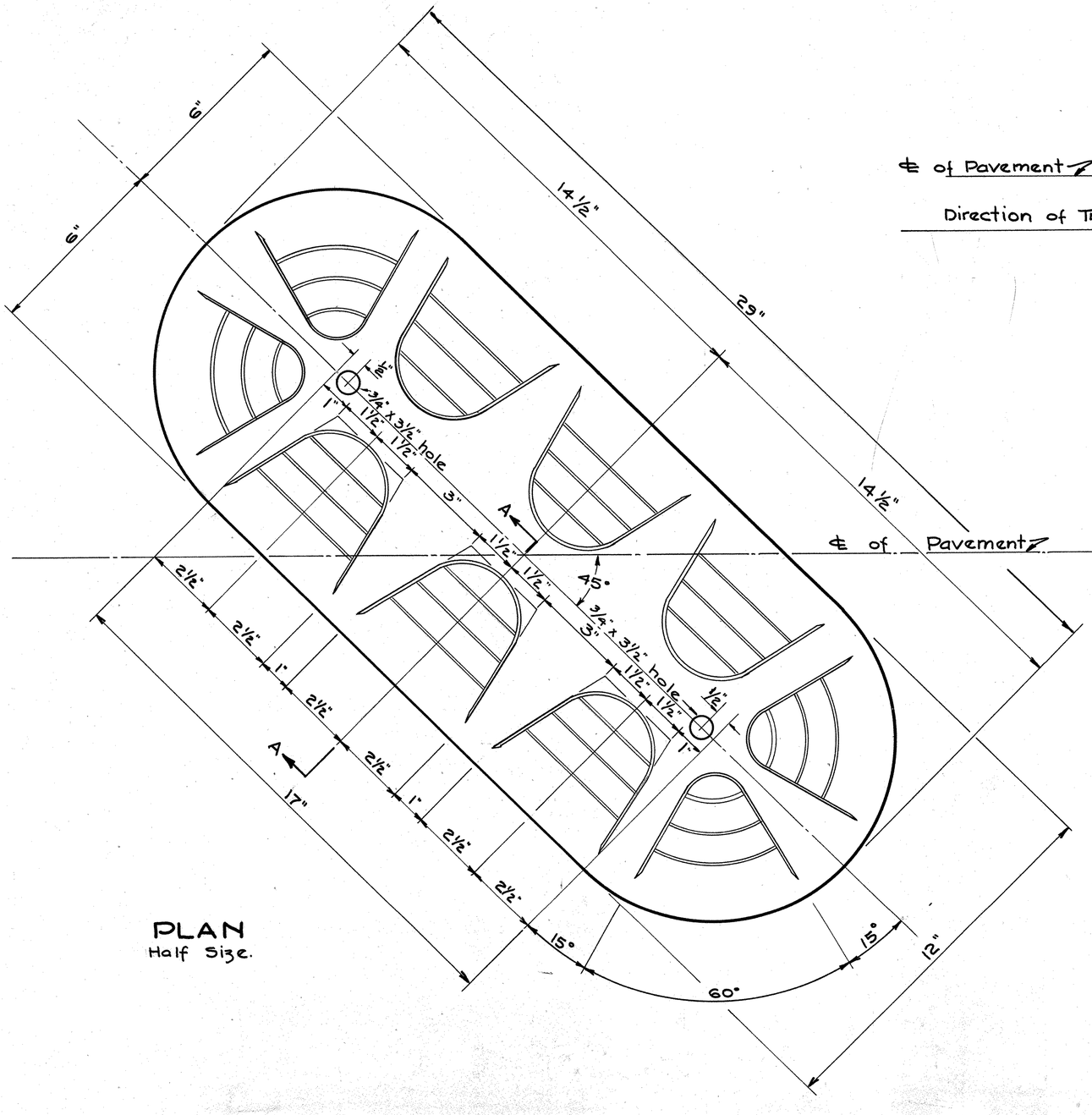
Other Notes are shown on Sheets 10, 12, 13

SPECIAL PRE CAST CONCRETE TRAFFIC DIVIDERS ~ TYPE 6

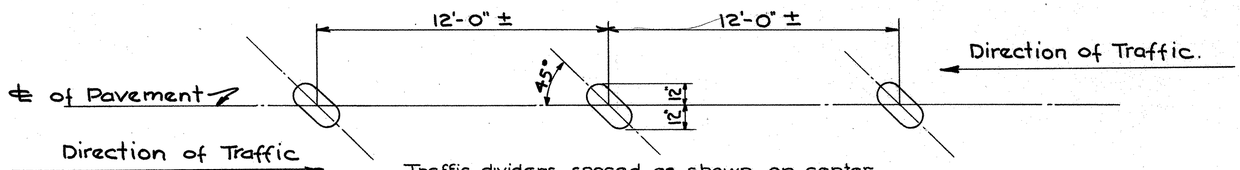
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

6/150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)

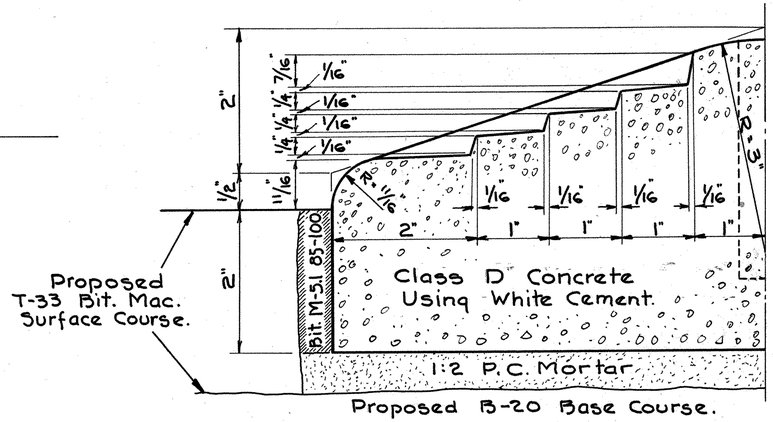


PLAN
Half Size.



Traffic dividers spaced as shown on center line of pavement from Sta. 0+02 to Sta. 14+00

LOCATION PLAN
STA. 0+02 To 14+00



HALF SECTION A-A
Full Size.

Note: The Traffic Dividers shall be set to Grade in 1:2 Portland Cement Mortar. Any space between the vertical edges of the Traffic Dividers and the new Bituminous Macadam Pavement shall be filled with Bituminous material Section M-5.1.

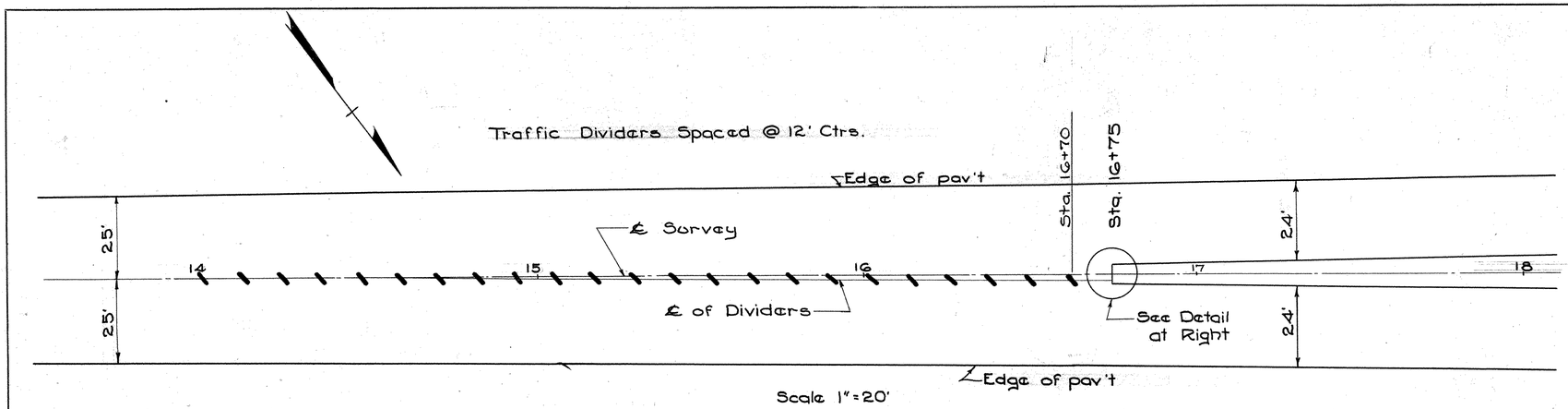
Payment for all materials, labor, equipment and incidentals necessary for furnishing and placing shall be included in the unit price bid per each for Item Special – Precast Concrete Traffic Dividers, Type 6, As Per Plan.

PRECAST TRAFFIC DIVIDERS

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

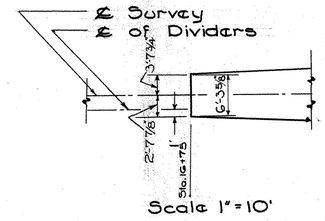
7
150

TRUMBULL COUNTY
S.H.325 SEC. B (PT.) C, D(PT.)



Scale 1"=20'

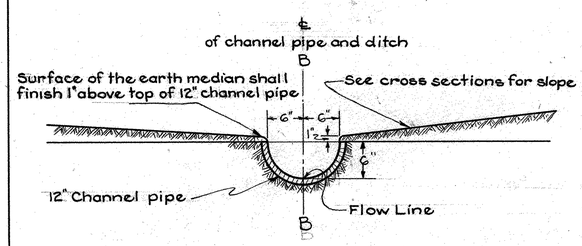
PLAN



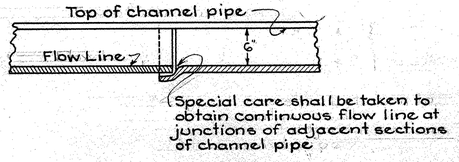
DETAIL AT STA. 16+75

LOCATION OF TRAFFIC DIVIDERS BETWEEN STA. 14+00 AND STA. 16+70

DETAIL OF CHANNEL PIPE
Scale 1"=1'

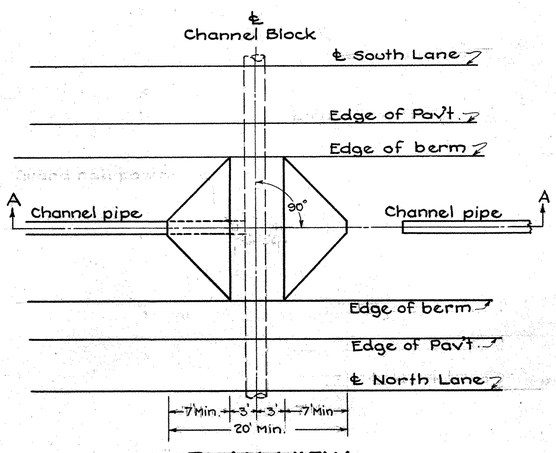


TYPICAL CROSS SECTION OF CHANNEL PIPE

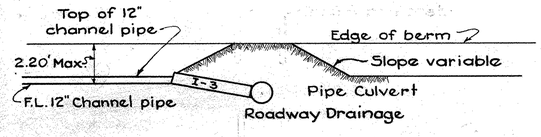


SECTION B-B

DETAIL OF EARTH CHANNEL BLOCKS
Scale 3/8"=1'



PLAN VIEW



SECTION A-A

ESTIMATED QUANTITIES

STATION LOCATION OF CHANNEL BLOCKS					
41+15	140+11	187+76	245+69	297+60	337+11
53+57.8	143+25	193+50	260+82	303+25	
81+84	146+17	206+15	268+89	312+92	
112+48	154+00	223+80	273+38	323+00	
132+50	167+13	237+94	276+92	329+56	

DETAILS

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

8
150

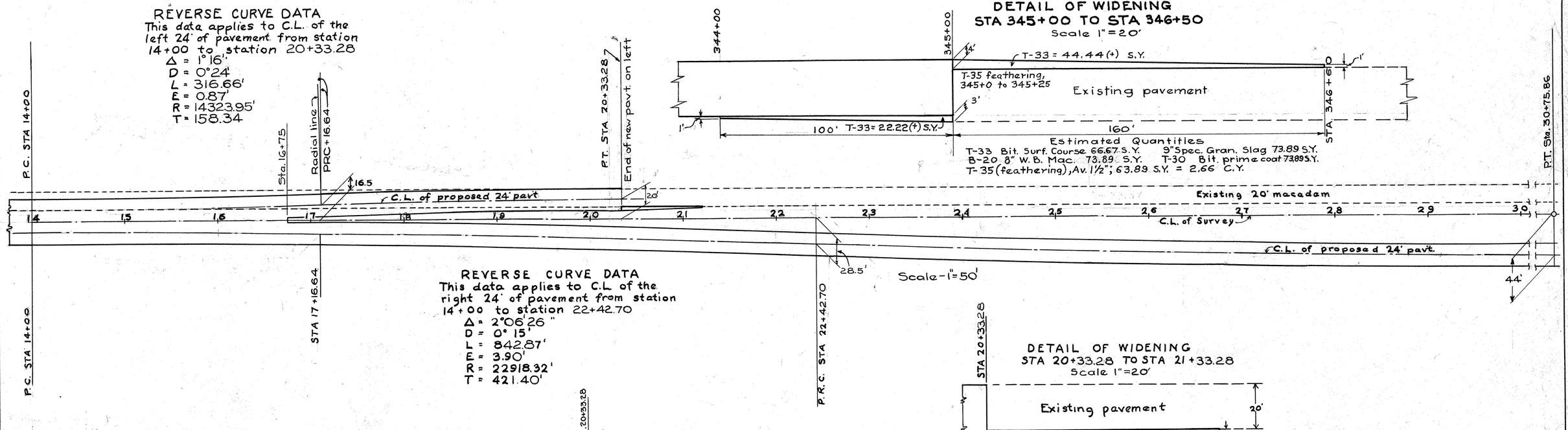
TRUMBULL COUNTY
S.H.325, SEC. B(PT), C. D(PT)

PAVEMENT DETAILS

TRANSITION ~ 50' PAV'T. TO DIVIDED LANES
STA. 14+00 TO STA. 30+75.86
SCALES AS INDICATED

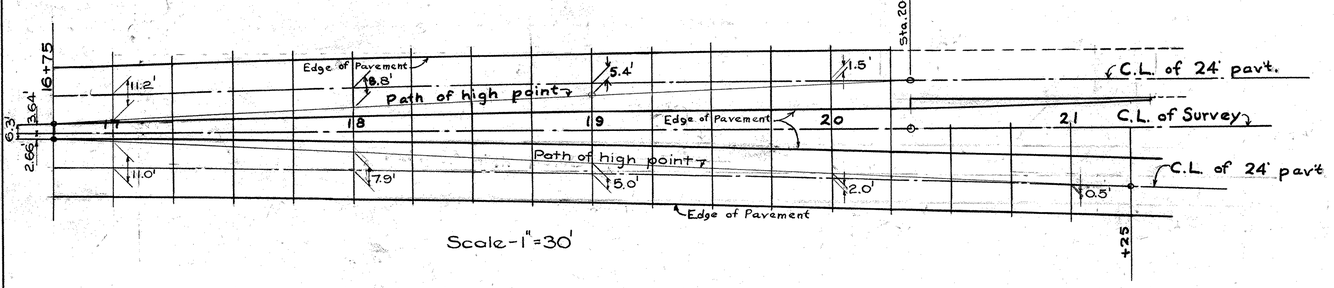
REVERSE CURVE DATA
This data applies to C.L. of the left 24' of pavement from station 14+00 to station 20+33.28

Δ = 1°16'
D = 0°24'
L = 316.66'
E = 0.87'
R = 14323.95'
T = 158.34



REVERSE CURVE DATA
This data applies to C.L. of the right 24' of pavement from station 14+00 to station 22+42.70

Δ = 2°06'26"
D = 0°15'
L = 842.87'
E = 3.90'
R = 22918.32'
T = 421.40'



DETAIL OF WIDENING
STA 345+00 TO STA 346+50
Scale 1"=20'

Estimated Quantities
T-33 Bit. Surf. Course 66.67 S.Y. 9" Spec. Gran. Slag 73.89 S.Y.
B-20 8" W.B. Mac. 73.89 S.Y. T-30 Bit. prime coat 73.89 S.Y.
T-35 (feathering), Av. 1½"; 63.89 S.Y. = 2.66 C.Y.

DETAIL OF WIDENING
STA 20+33.28 TO STA 21+33.28
Scale 1"=20'

Estimated Quantities

T-33 Pavement	27.78	S.Y.
B-20 8" W.B. Macadam	30.56	S.Y.
9" Spec. Gran. Slag. Base	30.56	S.Y.
T-30 Prime Coat	30.56	S.Y.

TRANSITION ELEVATIONS
STATION 17+00 TO 21+25

Station	Left Lane			Right Lane		
	Lt Edge	High Pt.	Rt. Edge	Lt Edge	High Pt	Rt. Edge
17+00	911.20	911.73	911 73	911.73	911.73	911.19
+25	911.03	911.56	911.56	911.56	911.56	911.02
+50	910.89	911.39	911.39	911.39	911.39	910.87
+75	910.72	911.22	911.22	911.22	911.22	910.70
18+00	910.60	911.05	911.05	911.05	911.05	910.54
+25	910.48	910.88	910.88	910.88	910.88	910.40
+50	910.34	910.72	910.70	910.70	910.72	910.25
+75	910.22	910.57	910.53	910.53	910.59	910.11
19+00	910.10	910.43	910.36	910.36	910.43	910.00
+25	910.00	910.30	910.19	910.19	910.30	909.90
+50	909.89	910.18	910.01	910.02	910.18	909.80
+75	909.79	910.03	909.75	909.89	910.03	909.70
20+00	909.69	909.91	909.71	909.74	909.91	909.60
	—			—		
+25	909.59	909.80	909.59	909.60	909.80	909.50
+50				909.49	909.69	909.41
+75				909.38	909.60	909.32
21+00				909.28	909.51	909.24
+25				909.18	909.40	909.18

SUPERELEVATION TABLE STA. 0+00 TO STA. 1+25
P.C. STA. 0-722.43' P.I. STA. 0-404.42' P.T. STA. 0-85.76'
Δ = 6°-22' LT. D = 1°-00' 50' PAVEMENT

Left Edge		Center Line		Right Edge	
Elevation of Pavement	Deduct From Profile Grade Elevation	Station	Profile Grade Elevation	Add to Left Edge Elevation	Elevation of Pavement
905.33	0.46	0+00	905.79	0.72	906.05
905.78	"	+25	906.24	0.50	906.28
906.24	"	+50	906.70	0.28	906.52
906.70	"	+75	907.16	0.12	906.82
907.15	"	1+00	907.61	0.03	907.18
907.60	0.46	+25	908.06	0.00	907.60

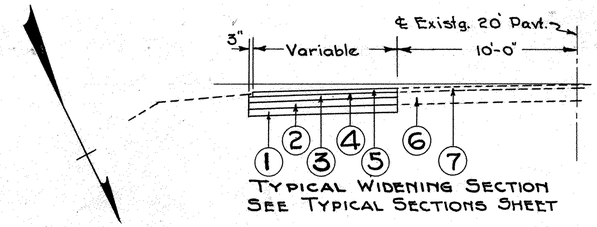
NOTE :-
Edge Elevations shown are top edge of finished T-33

PAVEMENT DETAILS

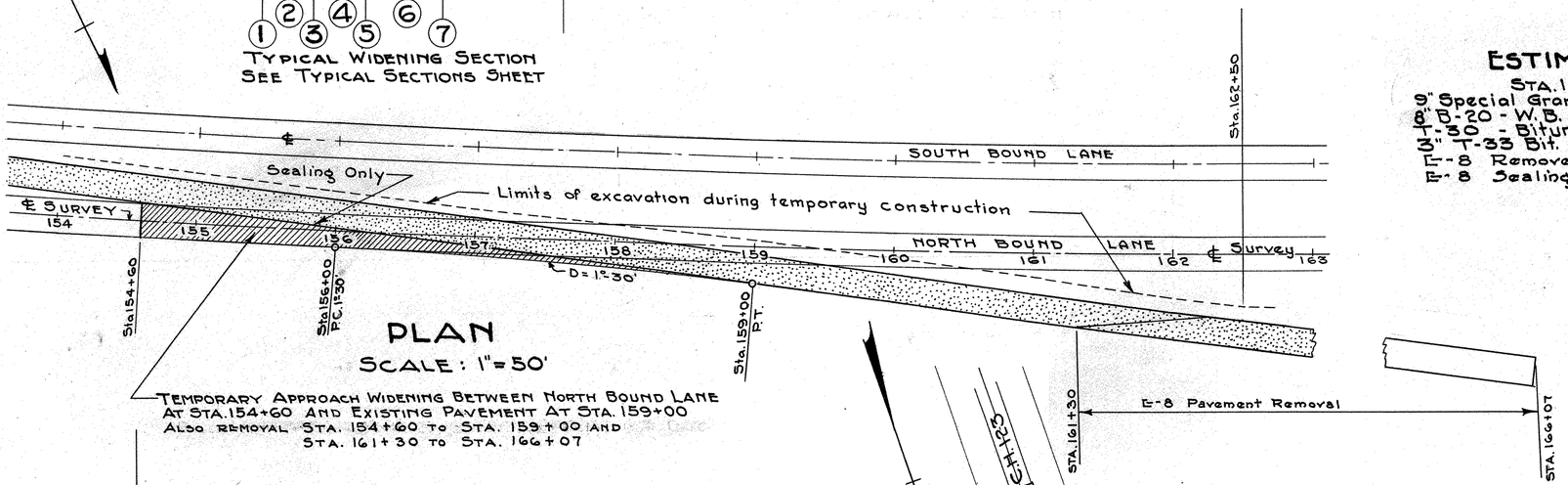
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

9/150

TRUMBULL COUNTY
S.H. 325, SEC. B(PT.), C.D. (PT.)



TYPICAL WIDENING SECTION
SEE TYPICAL SECTIONS SHEET



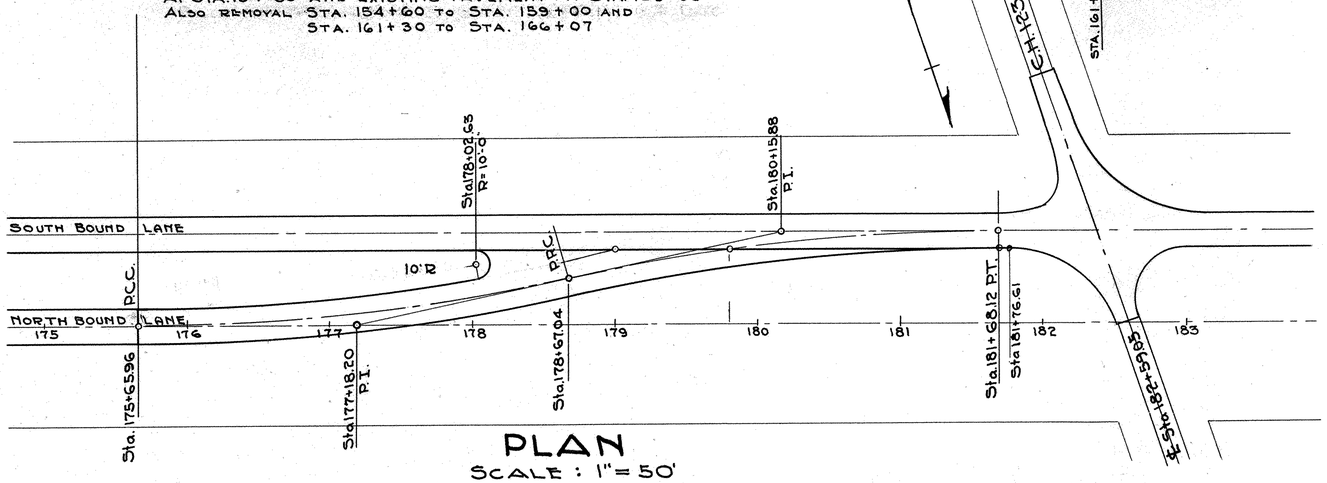
PLAN
SCALE : 1" = 50'

TEMPORARY APPROACH WIDENING BETWEEN NORTH BOUND LANE AT STA. 154+60 AND EXISTING PAVEMENT AT STA. 159+00
ALSO REMOVAL STA. 154+60 TO STA. 159+00 AND STA. 161+30 TO STA. 166+07

ESTIMATED QUANTITIES

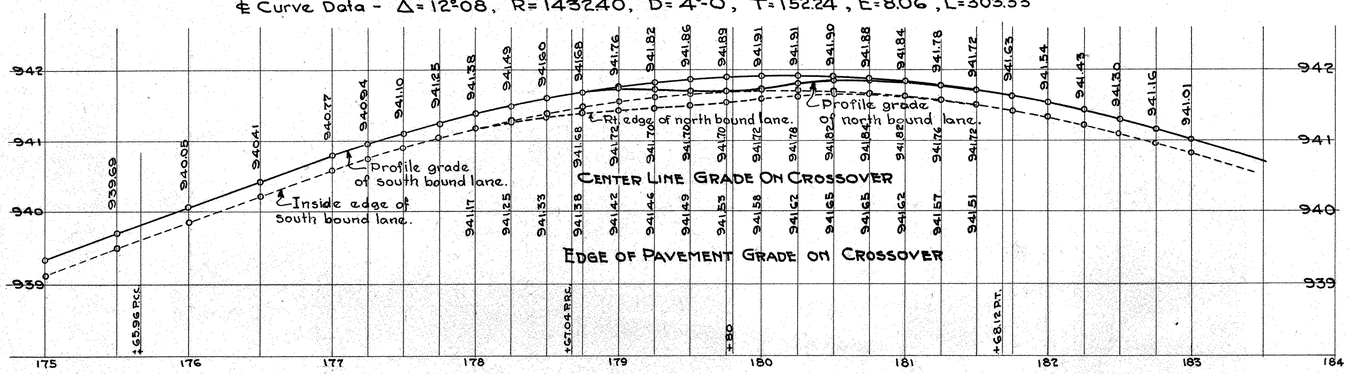
STA. 154+60 TO STA. 159+00

9" Special Granulated Slag Base Course	559 Sq. Yds.
8" B-20 - W.B. Macadam Base Course	559 Sq. Yds.
T-30 - Bituminous Prime Coat	559 Sq. Yds.
3" T-33 Bit. Macadam Surface Course	547 Sq. Yds.
E-8 Remove & Dispose of Exist. Pav't.	559 Sq. Yds.
E-8 Sealing Only	440 Lin. Ft.



PLAN
SCALE : 1" = 50'

TRANSITION FROM TWO LANE TO SINGLE LANE HIGHWAY
Temporary Approach From North Bound Lane At P.C.C. Sta. 175+65.96 To P.T.
At Sta. 181+68.12 South Bound Lane
℄ Curve Data - Δ = 12°08, R = 1432.40, D = 4°-0', T = 152.24, E = 8.06', L = 303.33'



PROFILE
SCALE - HOR. 1" = 50'
VERT. 1" = 10'

ESTIMATED QUANTITIES

STA. 175+65.96 To STA. 181+68.12

9" Special Granulated Slag Base Course	1267 Sq. Yds.
8" B-20 - W.B. Macadam Base Course	1267 Sq. Yds.
T-30 Bituminous Prime Coat	1267 Sq. Yds.
3" T-33 - Bit. Macadam Surface Course	1252 Sq. Yds.

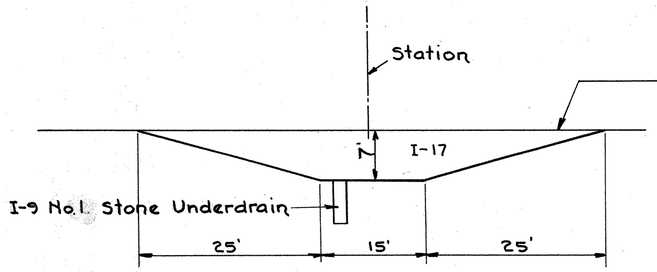
1267
559
547
1252

DRIVE AND MAIL BOX APPROACH

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

10
150

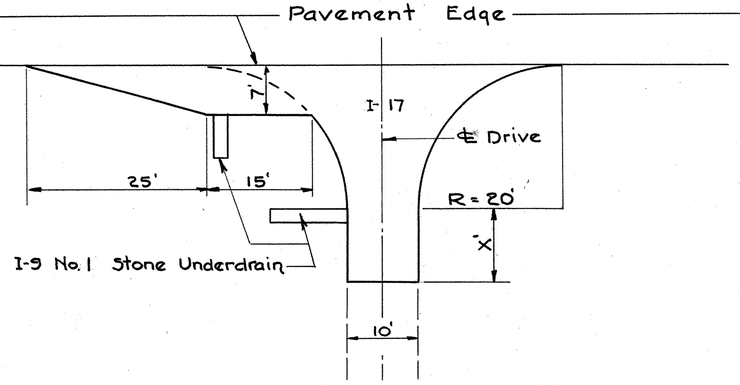
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C. D (PT.)



MAIL BOX APPROACH

Station	Side	I-9 Lin. Ft.	I-17 Sq.Yds.
2+05	L	6	31
2+75	L	6	31
6+42	L	6	31
14+15	L	6	31

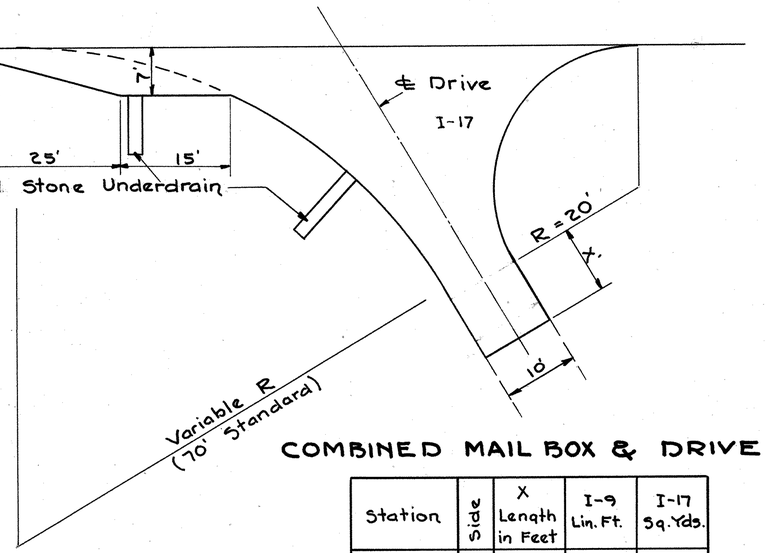
I-9 Quantities to Sheet 12.



COMBINED MAIL BOX & DRIVE APPROACH

Station	Side	X Length in Feet	I-9 Lin. Ft.	I-17 Sq. Yds.
150+96	L	15'	17	75

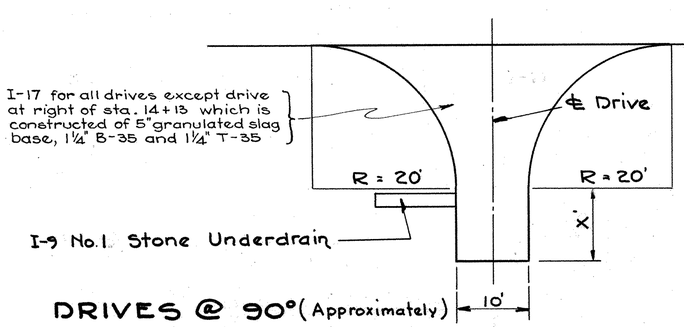
I-9 Quantities to Sheet 12.

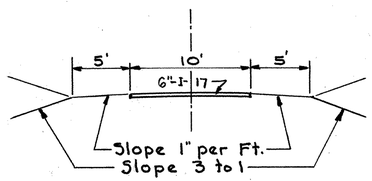


COMBINED MAIL BOX & DRIVE

Station	Side	X Length in Feet	I-9 Lin. Ft.	I-17 Sq.Yds.
5+80	L	0	20	117
162+71	L	17	20	136
8+80	L	0	20	117

I-9 Quantities to Sheet 12.



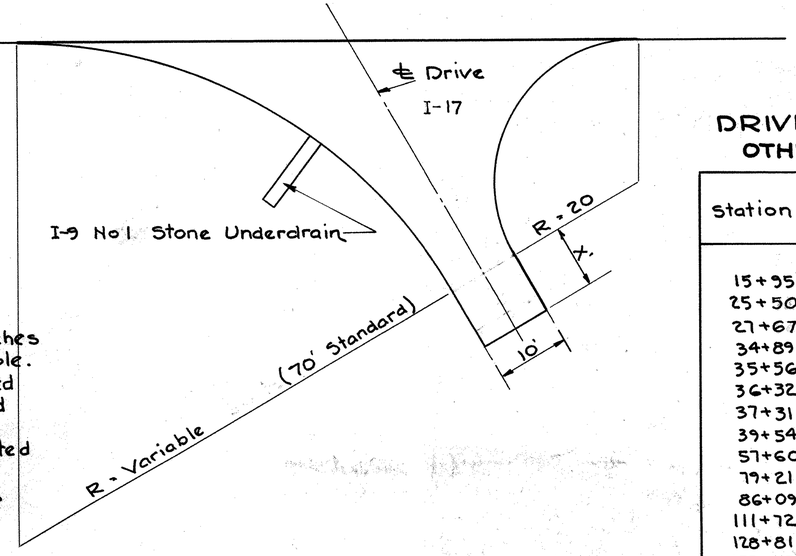


TYPICAL SECTION FOR DRIVES

DRIVES @ 90° (Approximately)

Station	Side	X Length in Feet	I-9 Lin. Ft.	I-17 Sq.Yds.	Station	Side	X Length in Feet	I-9 Lin. Ft.	I-17 Sq.Yds.
2+07	R	2	12	44	63+51	R	40	12	86
2+73	R	5	12	47	69+80	R	10	12	52
5+96	R	5	12	47	102+97	R	26	12	70
6+95	R	5	12	47	109+12	R	26	12	70
8+25	R	5	12	47	137+88	R	16	12	59
9+70	R	10	12	52	151+86	L	5	12	47
13+41	R	10	12	52	153+75	R	16	12	59
14+13	R	10	12		159+32	R	30	12	75
21+15	R	5	12	47	161+96	R	16	12	59
31+42	R	5	12	47	4+94	R	5	12	47
49+01	R	30	12	75	I-9 Quantities to Sheet 12.				

Driveways & Mail Box Approaches shall be combined where feasable. Drivesways shall be constructed as shown above unless detailed otherwise in the plan. Underdrains shall be constructed from the low point of drive-ways and mail box approaches to the ditch as directed by the Engineer.



DRIVES AT ANGLES OTHER THAN 90°

Station	Side	X Length in Feet	I-9 Lin. Ft.	I-17 Sq.Yds.	
15+95	L	0	12	103	
25+50	R	4	12	108	
27+67	R	4	12	108	
34+89	R	4	12	108	
35+56	R	4	12	108	
36+32	R	4	12	108	
37+31	R	15	12	120	
39+54	R	0	12	103	
57+60	R	2	12	106	
79+21	R	6	12	110	
86+09	R	24	12	130	
111+72	R	18	12	123	
128+81	R	8	12	112	
133+43	R	4	12	108	
142+32	R	18	12	112	
* 25+87	R	4	12	97	*Part of Complete Drive.
44+96	R	6	12	110	
I-9 Quantities to Sheet 12.					

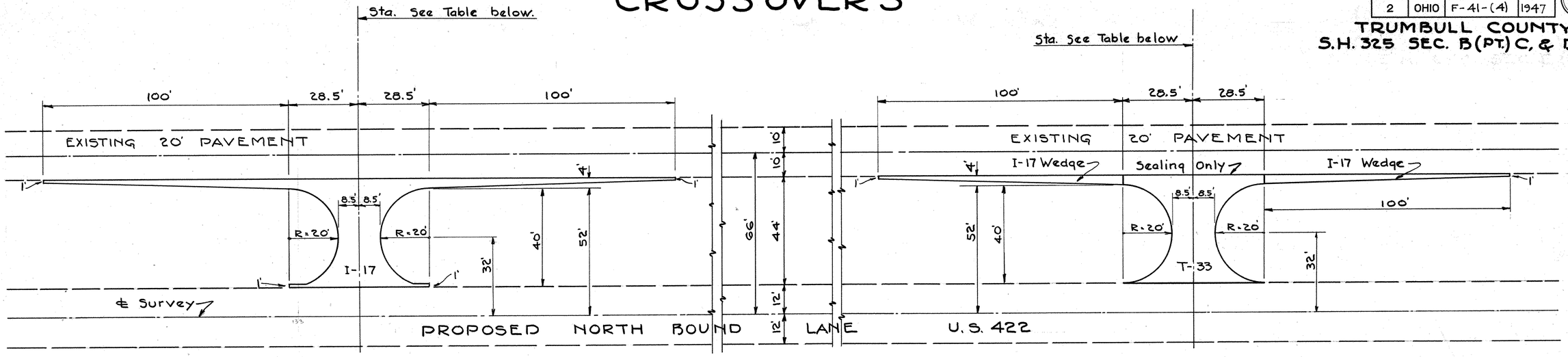
TYPICAL DRIVE & MAIL BOX APPROACHES

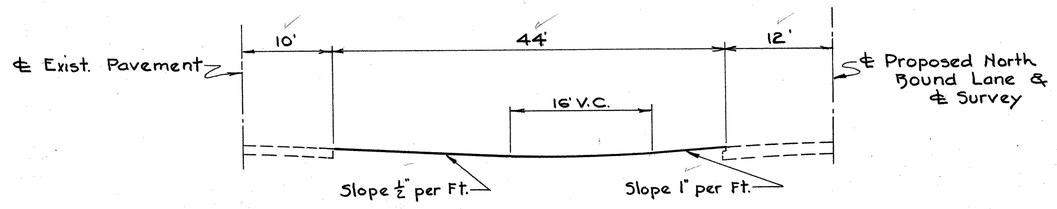
CROSSOVERS

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

11/150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, & D(PT.)





PROFILE OF CROSSOVER
Scale ⅛" = 1'

PROPOSED I-17 CROSSOVERS.

Sta. 28+00
Sta. 38+00
Sta. 45+00
Sta. 57+08
Sta. 60+50
Sta. 69+80
Sta. 76+20
Sta. 79+25
Sta. 94+00
Sta. 102+50
Sta. 116+00
Sta. 126+00
Sta. 133+25
Sta. 142+20
Sta. 84+50

Estimated Quantity (Each)

I-17 Side Approaches, Mail Box Turnouts, & Berm Material = 195 Sq.Yds.

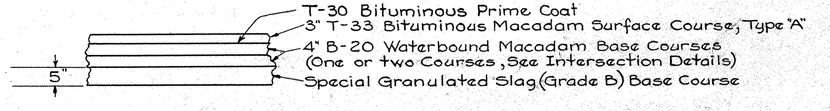
PROPOSED T-33 CROSSOVERS

Sta. 34+00
Sta. 51+00
Sta 87+00
Sta. 109+12

Estimated Quantities (Each)

E-8 Sealing Only.	=	57	Lin. Ft.
T-33 Bituminous Macadam Surface Course, Type A.	=	139	Sq. Yds.
T-30 Bituminous Prime Coat (Sec. M-5.7 RT-2) 0.35 Gal. per S.Y.	=	141	Sq. Yds.
B-20 4" Waterbound Macadam Base Course. (1 Course)	=	141	Sq. Yds.
Special 5" Granulated Slag (Grade B) Base Course.	=	141	Sq. Yds.
I-17 Side Approaches, Mail Box Turnouts, & Berm Material	=	56	Sq. Yds.

TYPICAL SECTION OF T-33 PAVEMENT AT MEDIAN CROSSOVERS & INTERSECTIONS



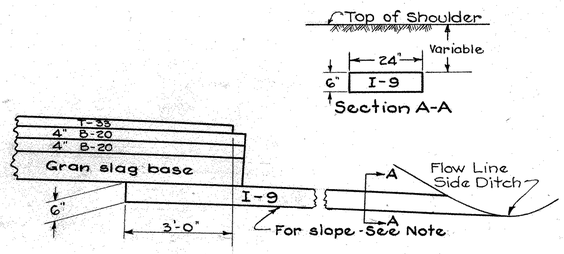
TYPICAL MEDIAN CROSSOVERS

I-9 STONE UNDERDRAINS

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

12/150

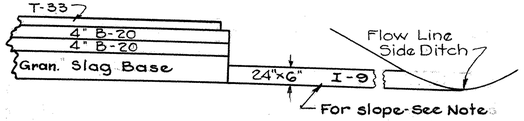
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C, D (PT.)



Use this type where possible

Scale ½" = 1'

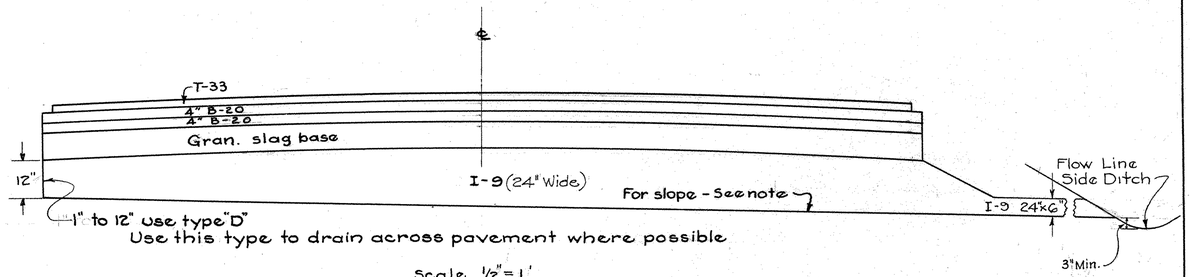
TYPE - A



Use this type where type A can not be used

Scale ½" = 1'

TYPE - B

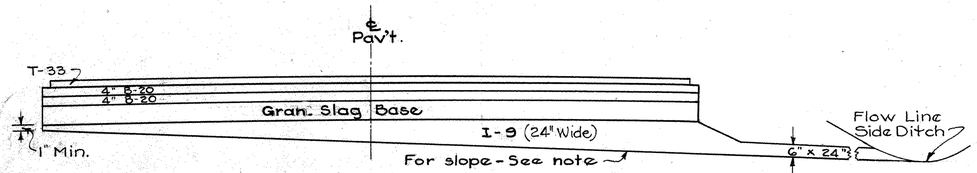


1" to 12" use type "D"
Use this type to drain across pavement where possible

Scale ½" = 1'

TYPE - C

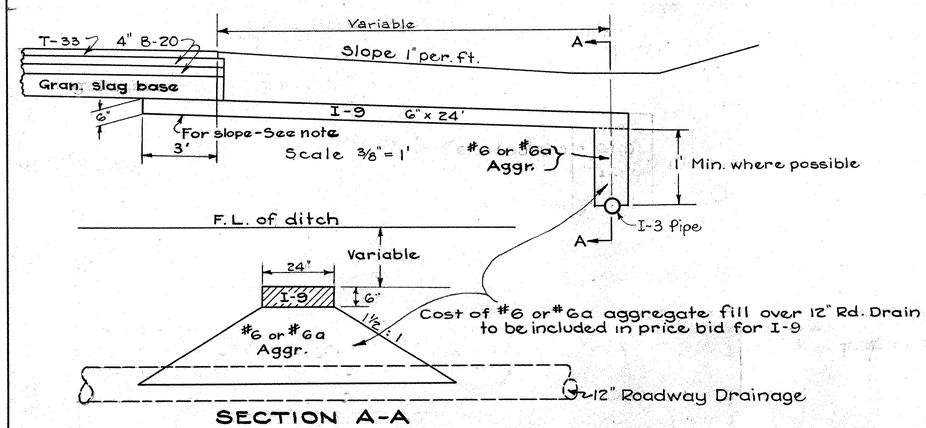
NOTE — I-9 Flow Line Grade	
Desired Grade	1" per foot
Desired Min. Slope	½" " "
Absolute Min. Slope	¼" " "
Grade to be directed by the Engineer	



Use this type where Type "C" can not be used. Where this type of I-9 is used, the drain shall be constructed after fine grading of subgrade is completed.

Scale ⅜" = 1'

TYPE - D



SECTION A-A

Scale ½" = 1'

TYPE - E

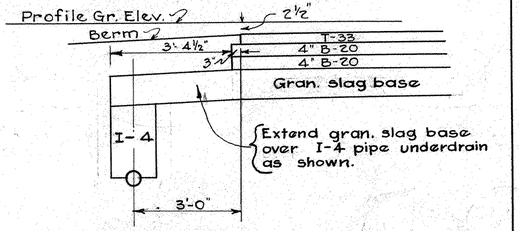
NOTES

I-9 Stone underdrains of the types detailed shall be placed at low points and at 50' intervals at the locations indicated in the following table & at drive ways and approaches, all as directed by the Engineer.

LOCATION OF TYPES OF I-9 STONE UNDERDRAINS																				
STATION		LEFT LANE								RIGHT LANE										
FROM	TO	LT. EDGE TYPE					RT. EDGE TYPE					LT. EDGE TYPE					RT. EDGE TYPE				
		A	B	C	D	E	A	B	C	D		A	B	C	D		A	B	C	D	E
0 + 00	8 + 45					X															X
40+00	69+00													X					X		
69+00	81+00													X					X		
81+00	127+00																				
127+00	128+00											X									
142+00	145+00	X							X					X				X			
145+00	150+00								X					X				X			
150+00	152+00		X						X					X				X			
152+00	164+00								X					X				X			
164+00	170+00	X							X					X				X			
181+00	182+50		X						X												
182+50	190+00	X							X												
190+00	193+50			X						X											
193+50	196+50	X							X												
196+50	208+50		X						X												
208+00	214+00	X							X												
214+00	287+00								X												
237+00	239+00	X							X												
239+00	240+00		X						X												
240+00	246+50	X							X												
246+50	259+75		X						X												
259+75	262+00	X							X												
262+00	272+00		X						X												
272+00	281+50	X							X												
281+50	301+00		X						X												
301+00	318+50	X							X												
318+50	321+00		X						X												
321+00	324+50	X							X												
324+50	326+00		X						X												
327+25	333+00	X							X												
340+00																					
34+00	40+00													X					X		X

ESTIMATED QUANTITIES					
	TYPE				
	A	B	C	D	E
ROADWAY	5400	12,600	7500	1500	900
DRIVEWAYS	533	—	—	—	—
APPROACHES	101	—	—	—	—
TOTALS	6034	12,600	7500	1500	900

I-4 PIPE UNDERDRAIN



Detail for drainage of granulated slag base where 6" pipe underdrain is used.

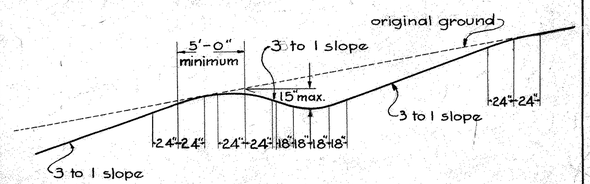
TYPICAL SECTION

Scale ½" = 1'

ESTIMATED QUANTITIES OF EXTRA GRANULATED SLAG BASE.

3" Depth	—	2550	S.Y.
5"	"	901	"
9"	"	1399	"
18"	"	75	"

INTERCEPTING DITCHES

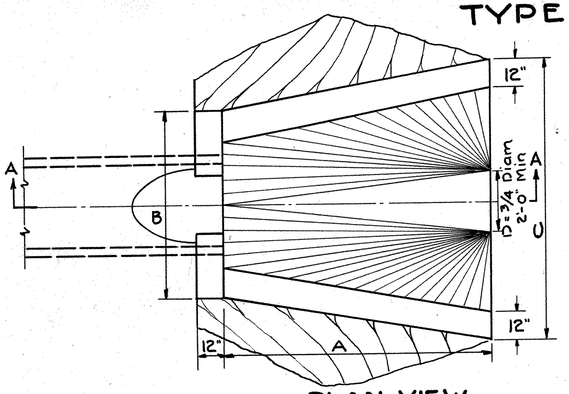


Additional intercepting ditches as detailed above shall be constructed at locations as directed by the Engineer. The yardage measured shall be paid for at the unit price bid per cubic yard for E-1 Roadway Excavation Unclassified.

DETAILS

RIPRAP DETAIL FOR PIPE CULVERT ENDS.

TYPE 1



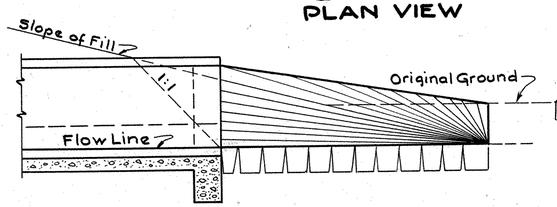
PLAN VIEW

Pipe Diam inches	A	B	C	D	Riprap one end S.Y.	Pipe Diam inches	A	B	C	D	Riprap one end S.Y.
15	4'-3"	4'-3"	6'-6"	2'-0"	2.5	54	15'-0"	9'-6"	14'-6"	3'-6"	25
18	5'-0"	4'-8"	7'-0"	2'-0"	3.0	60	16'-6"	10'-4"	15'-9"	3'-9"	30
21	6'-0"	5'-1"	7'-6"	2'-0"	4.0	66	18'-3"	11'-2"	17'-3"	4'-3"	36
24	6'-9"	5'-6"	8'-0"	2'-0"	5.5	72	19'-9"	12'-0"	18'-6"	4'-6"	42
27	7'-6"	5'-11"	8'-6"	2'-0"	7.0	78	21'-6"	12'-9"	20'-0"	5'-0"	49
30	8'-6"	6'-4"	9'-0"	2'-0"	8	84	23'-0"	13'-7"	21'-3"	5'-3"	56
33	9'-3"	6'-8"	9'-6"	2'-0"	10	90	24'-6"	14'-5"	22'-9"	5'-9"	65
36	10'-0"	7'-1"	10'-3"	2'-3"	12	96	26'-3"	15'-3"	24'-0"	6'-0"	74
39	10'-9"	7'-6"	11'-0"	2'-6"	13	102	27'-9"	16'-0"	25'-6"	6'-6"	83
42	11'-9"	7'-11"	11'-9"	2'-6"	15	108	29'-3"	16'-10"	26'-9"	6'-9"	92
48	13'-3"	8'-9"	13'-0"	3'-0"	19						

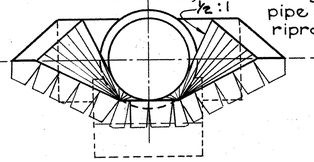
~NOTES~

Riprap shall be 12" type "A" grouted or concrete in bags in accordance with Spec. item I-10.03 or I-10.05

Where metal pipe is used, one foot of cradle and a cut-off wall shall be placed at inlet & outlet ends. End section of such pipe culv'ts. shall be not less than 10' long for pipes of 15" to 48" diameters inclusive, and not less than two diameters long for pipes over 48" in dia. For culv'ts. other than metal, cradles lengths shall be not less two pipe diameters. All portions of riprap requiring earth support shall be backed with earth in accordance with Spec. item I-10.03.

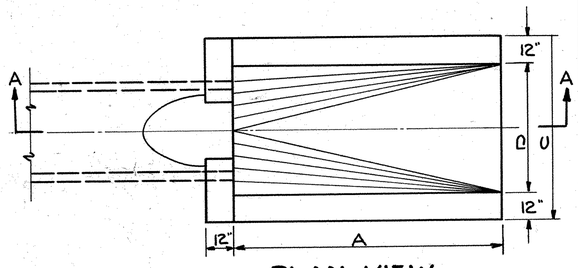


SECTION A-A



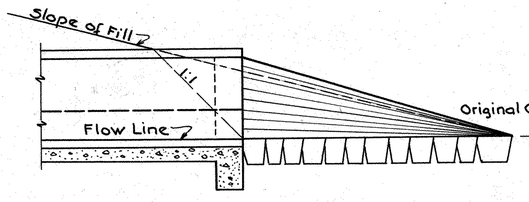
END VIEW

TYPE 2

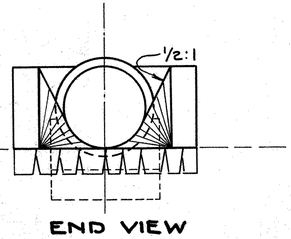


PLAN VIEW

Pipe Diam inches	A	C	D	Riprap one end S.Y.	Pipe Diam inches	A	C	D	Riprap one end S.Y.
15	4-3	4-0	2-0	2.0	54	15-0	9-3	7-3	19
18	5-0	4-6	2-6	2.5	60	16-6	10-1	8-1	23
21	6-0	4-10	2-10	3.5	66	18-3	10-11	8-11	28
24	6-9	5-3	3-3	4.0	72	19-9	11-8	9-8	33
27	7-6	5-8	3-8	5	78	21-6	12-6	10-6	38
30	8-6	6-0	4-0	7	84	23-0	13-4	11-4	44
33	9-3	6-6	4-6	8	90	24-6	14-2	12-2	50
36	10-0	6-10	4-10	9	96	26-3	15-0	13-0	57
39	10-9	7-3	5-3	10	102	27-9	15-9	13-9	64
42	11-9	7-8	5-8	12	108	29-3	16-7	14-7	72
48	13-3	8-6	6-6	15					

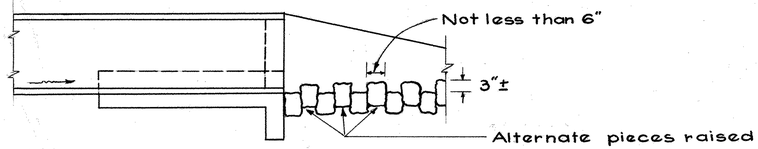


SECTION A-A



END VIEW

ROUGHENED RIPRAP



Note: This detail shall be used where roughened riprap is called for on the outlet end of culverts; the cost is to be included in the unit price bid for I-10 12"Grout Filled Type "A" Rip Rap.

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

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TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C, D (PT.)

DETAILS

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

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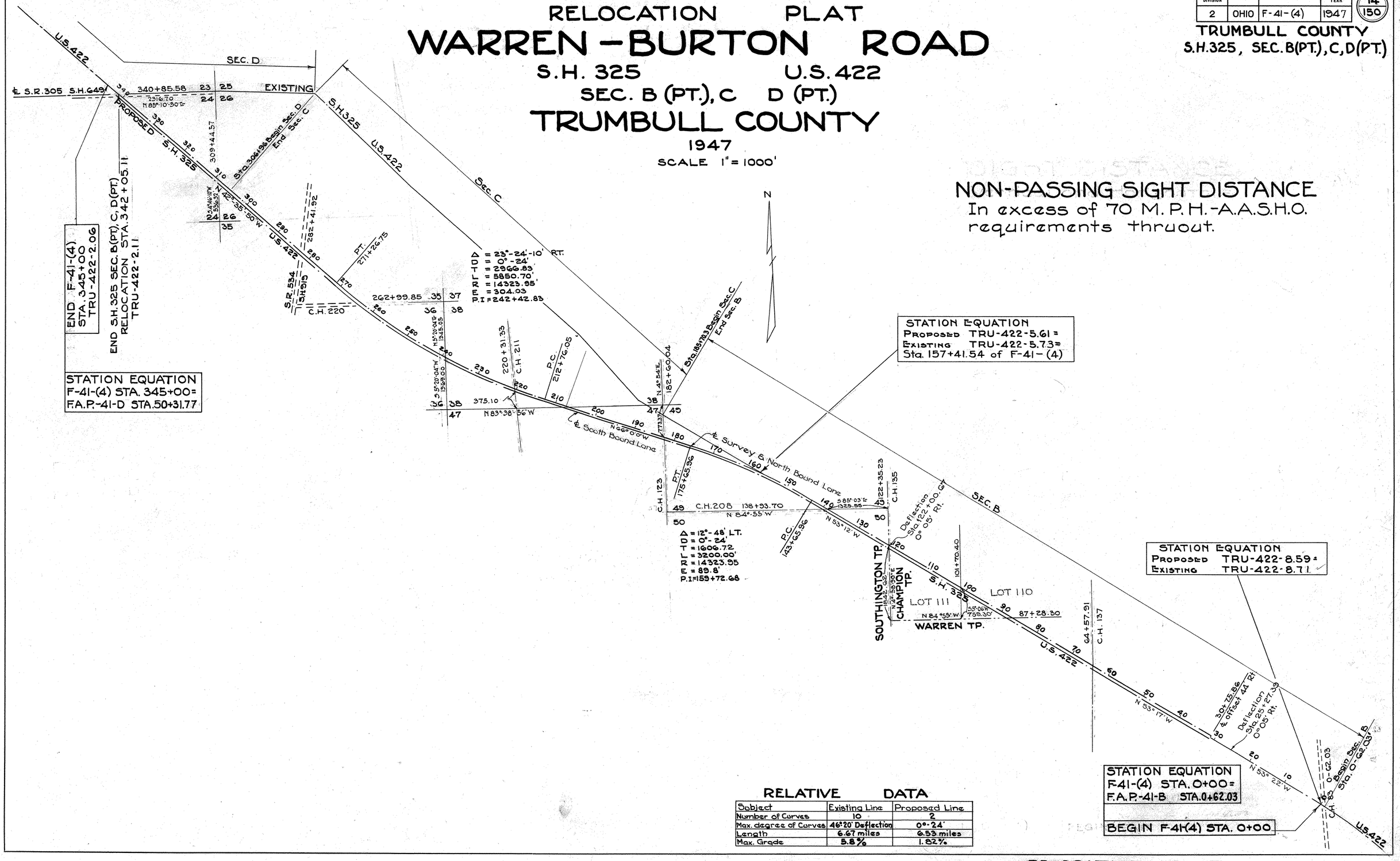
150

TRUMBULL COUNTY
S.H.325, SEC. B(PT.), C, D(PT.)

RELOCATION PLAT
WARREN-BURTON ROAD
S.H. 325 U.S. 422
SEC. B (PT.), C D (PT.)
TRUMBULL COUNTY
1947
SCALE 1" = 1000'

NON-PASSING SIGHT DISTANCE
In excess of 70 M.P.H.-A.A.S.H.O. requirements thruout.



RELATIVE DATA

Subject	Existing Line	Proposed Line
Number of Curves	10	2
Max. degree of Curves	46°20' Deflection	0°-24'
Length	6.67 miles	6.53 miles
Max. Grade	5.8%	1.82%

RELOCATION PLAT

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

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RECAPITULATION

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D (PT.)

ROADWAY QUANTITIES

FROM SHEET NO.		E-8 PAV'T. REM. & DISP. S.Y.	E-8 SEAL'G ONLY L.F.	E-12 L.F. REM & STORE 15" & UNDER	E-12 L.F. REM & STORE OVER 15"	SPEC. GRAN. SLAG GRADE "B" BASE COURSE S.Y. DEPTH - INCHES 3	5	9	18	B-20 8" W.B. MAC. BASE S.Y.	B-20 4" W.B. MAC. BASE S.Y.	T-30 BIT. PRIME COAT S.Y.	T-33 BIT. SURF. COURSE S.Y.	B-35 ASPH. CONC. C.Y.	T-35 ASPH. CONC. C.Y.	T-10 C.Y. COARSE AGGR.	T-10 C.Y. FINE AGGR.	M-10 TONS CALC. CHLOR.	PRECAST CONC. TRAFFIC DIVIDERS EACH	L-9 S.Y. SEEDING "A" PLAIN	L-9 S.Y. SEEDING "A" ASPH. MULCH	I-1 L.F. PIPE FOR DRIVEWAYS DIAM.-INCHES 12	15	18	21	24	27	30	I-3 L.F. ROADWAY DRAINAGE PLAIN 12"	15"	18"	UNDER APPR. 12"	OUTLET PIPE 18"	I-4 L.F. PIPE UND-DR'N 6" PLAIN	OUTLET PIPE	I-5 EACH PIPE SPECIALS FOR I-1 TEES 15"x15"	I-3 BENDS 15"x45°	12"x45°	12"x30°	15"x30°	I-4 WYES 6"	I-4 BENDS 6"x45°	FROM SHEET NO.
5															2.66	600	200	16				300	300	120	120	120																			5
8								104.45		104.45		104.45	94.45																															8
9		559	440					1826.0		1826.0		1826.0	1799.0																															9
12						2550	904	1399.0	75																																			12
19				1888															75		5,455							1643					110								19
20				1256			54					54.0		1.81	1.81				65		8,567							76			32		2413							2	20
21				1224																	3,261		208									2400		1						21
22			57	504	732		141				141.0	141.0	139.0								11,027								604		10	887	10						2	22
23			57	21	811		141				141.0	141.0	139.0								12,356				72			18													23
24			115				769				769.0	769.0	762.0							12,193						120	10														24
25				20	32															11,933			198																	25
26			57	74	32		141				141.0	141.0	139.0							12,645				80			19													26
27					16															12,702				34															27
28			57		16		141				141.0	141.0	139.0							12,389			58				40													28
29			99	22			634				634.0	634.0	631.0							11,911				72								275	10					1	2	29
30			147	125			213				213.0	213.0	209.0							11,260	42				58		20					2425							2	30
31				28			114				114.0	114.0	114.0							16,900	40	62						10				200								31
32		718		78																17,395	134																			32
33		222	20	290			448				448.0	448.0	445.0							16,375								22			907	10					2	1	2	33
34							309				309.0	309.0	307.0							28,772							10				800									34
35							355				355.0	355.0	351.0							22,331							10	10												35
36																				27,518							20	10												36
37			36				694				694.0	694.0	688.0							27,878							35	12									5	1		37
38			33				350			350.0		350.0	348.0							30,527								32												38
39																				29,832							20	39				200			1				39
40		1359	146				547				547.0	547.0	544.0							23,502							38			443		2569	10			2		3	4	40
FROM STRUCTURES			298	41	64	13.3	147.2			146.5	14.0	160.5		5.5	12.0												4				2									
TOTALS		2858	1562	5571	1703	2563.3	6102.2	3329.45	75	2426.95	4661.0	7141.95	6848.45	7.31	16.47	600	200	16	140	326,063	46,666	516	628	318	120	378	58	120	1963	135	604	475	10	13,188	40	1	1	2	13	3	5	14	
TO CALCULATIONS						2563.3	6102.2	3329.45	75	2426.95		7141.95	6848.45							326,063	46,666																				
TO GENERAL SUMMARY		2858	1562	5571	1703						4661.0			7.31	16.47	600	200	16	140	326,063	46,666	516	628	318	120	378	58	120	1963	135	604	475	10	13,188	40	1	1	2	13	3	5	14	

ROADWAY QUANTITIES (CON'T.)

FROM SHEET NO.	I-8 EACH C.B. ADJUSTED	I-8 EACH NO.7 C.B.	I-8 EACH NO. 1-3 C.B.	I-8 EACH NO. 2-3 C.B.	I-9 L.F. NO.1 STONE UNDERDRAIN TYPE A	B	C	D	E	I-15 L.F. GUARD RAIL STEEL BEAM (DEEP)	I-15 L.F. GUARD RAIL REM. & STORE	I-16 EACH INLETS ABAND.	I-17 S.Y. 6" COMP DEPTH	SPEC. 12" CHAN. PIPE PIPE L.F.	SPEC. 12" CHAN. PIPE SPECIALS EACH TEES 12"x12"	L-10 SOD. S.Y.	FROM SHEET NO.
5					240								1500				5
8																	8
9																	9
12					6034	12,600	7,500	1500	900								12
19		6		6								8	819				19
20	5	1										7	293	80			20
21												4	561	1151	3		21
22		2	1	2								6	915	1104	3		22
23											58	1	375	1093	1		23
24										75	120		582	1005	1		24
25													747	1071	2		25
26													381	1097	3		26
27													460	1124	3		27
28													444	1064	1		28
29													436	1048	3		29
30													390	1028	2		30
31													429			373.3	31
32													329			58.3	32
33																733.4	33
34													298			1465.0	34
35													243			1177.0	35
36																1751.7	36
37													18	432		336.8	37
38													128			596.0	38
39														2143		603.4	39
40				3									243	1210		326.7	40
FROM STRUCTURES												3				62.0	
TOTALS	5	9	1	11	6274	12,600	7500	1500	900	75	178	29	9591	14,650	22	7483.6	
TO CALCULATIONS													9591				
TO GENERAL SUMMARY	5	9	1	11	28,774 L.F. ALL TYPES					75	178	29		14,650	22	7483.6	

EARTHWORK - C.Y.

FROM SHEET NO.	STATION FROM	STATION TO	EXCAVATION	EMBANKMENT	EMBANKMENT PLUS 32%
5			500	2500	3,300
19	0+00	9+00	5,040	19	25
20	9+00	21+00	3,861	263	347
21	21+00	33+00	1,164	2,127	2,808
22	33+00	45+00	4,400	1,751	2,311
23	45+00	57+00	2,012	6,643	8,769
24	57+00	69+00	2,081	6,327	8,352
25	69+00	81+00	1,227	2,647	3,494
26	81+00	93+00	2,118	4,016	5,301
27	93+00	105+00	1,818	4,498	5,937
28	105+00	117+00	1,372	6,124	8,084
29	117+00	129+00	984	7,017	9,262
30	129+00	141+00	5,610	1,221	1,612
31	141+00	153+00	4,003	14,500	19,140
32	153+00	165+00	27,832	740	977
33	165+00	177+00	12,211	13,196	17,419
34	177+00	202+00	23,733	18,538	24,470
35	202+00	227+00	12,407	8,525	11,253
36	227+00	252+00	34,512	23,301	30,757
37	252+00	277+00	35,486	17,162	22,654
38	277+00	302+00	49,198	16,579	21,884
39	302+00	327+00	4,260	54,191	71,532
40	327+00	348+00	9,146	23,319	30,781
118				93	123
16			46		
	TOTALS		245,021	235,297	310,592

EMBANKMENT + 32 % = 310,592 C.Y.
EXCAVATION = 245,021 C.Y.
BORROW = 65,571 C.Y.

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

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TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D (PT.)

RECAPITULATION (CON'T.)

STRUCTURES 20 FT SPAN & UNDER

| STRUCT. NO. | DETAILED ON SHEET NO | TYPE & SIZE | STATION | SPEC. GRAN. SLAG S.Y. DEPTH-IN'S. 3 | 5 | B-20 S.Y. 8" W.B. MAC. | T-30 S.Y. BIT. PRIME COAT | B-35 C.Y. ASPH. CONC. | T-35 C.Y. ASPH. CONC. | S-1 C.Y. CONC. FOR STRUCTURES CLASS C | E | S-3 S.Y. TYPE WATER PRFG. | S-4 LBS REINF. STEEL | S-22 C.Y. REM. PORT. STRUC | S-23 EACH DOWEL HOLES | S-24 LUMP REM. EXIST. STRUC | S-27 L.F. PIPE FOR ROADWAY CULVERTS DIAM. INCHES 12 | 15 | 18 | 21 | 24 | 27 | 30 | 36 | 42 | 48 | CMP 24" | CMP 30" | RCP 12" | C.M.P. 12" | C.M.P. 15" | B-20 S.Y. 4" W.B. MAC. | I-3 L.F. ROADWAY DRAINAGE 12" | I-4 L.F. PIPE U.D. G" | I-5 EACH PIPE SPECIALS FOR S-27 TEES 24"x12" | WYES 15"x12" | 42"x15" | 42"x12" | 24"x15" | 30"x15" | 36"x12" | 18"x12" | 21"x12" | 48"x15" | 27"x15" | 15"x6" | I-10 S.Y. RIP RAP 12" TYPE "A" PLAIN | ROUGH | I-16 EACH C.B. ABAND. | I-10 S.Y. SOD | E-2 EXC. FOR STRUC C.Y. | E-3 CHAN EXC. C.Y. | E-8 SEAL ONLY L.F. | E-12 L.F. REM & STORE 15" & UNDER | OVER 15" | E-1 RDWY. EXC. C.Y. |
|---|---|---|---

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-4	1947

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TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C, D (PT.)

GENERAL SUMMARY

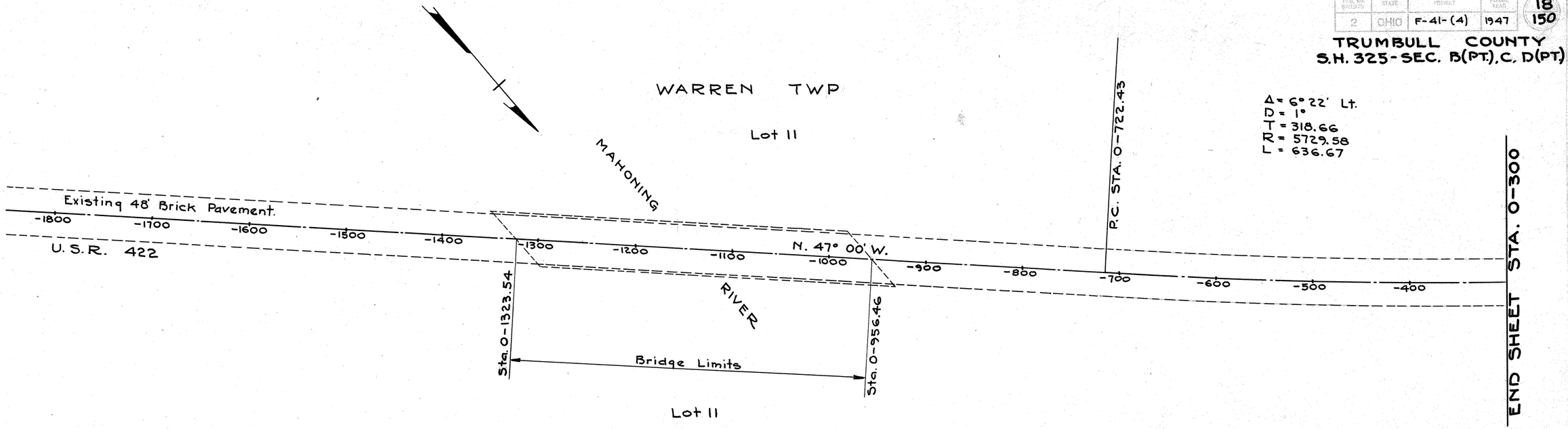
ITEM NO.		QUANTITY	UNIT	DESCRIPTION
				ROADWAY
E-1		245,021	C.Y.	ROADWAY EXCAVATION
E-4		65,571	C.Y.	BORROW
E-8		2,858	S.Y.	REMOVAL AND DISPOSAL OF EXISTING PAVEMENT AS PER PLAN
E-8		1,562	L.F.	SEALING ONLY
E-12		5571	L.F.	15" AND UNDER, PIPE REMOVED AND STORED
E-12		1,703	L.F.	OVER 15", PIPE REMOVED AND STORED
SPECIAL		12363	S.Y.	3" GRANULATED SLAG (GRADE B) BASE COURSE
SPECIAL		48,385	S.Y.	5" GRANULATED SLAG (GRADE B) BASE COURSE
SPECIAL		7,554	S.Y.	7" GRANULATED SLAG (GRADE B) BASE COURSE
SPECIAL		52849	S.Y.	9" GRANULATED SLAG (GRADE B) BASE COURSE
SPECIAL		347	S.Y.	18" GRANULATED SLAG (GRADE B) BASE COURSE
E-11		1,243	M.GAL.	WATER
E-11		84	M.GAL.	WATER FOR SEEDING AREAS
I-1		516	L.F.	12" PIPE FOR DRIVEWAYS
I-1		628	L.F.	15" PIPE FOR DRIVEWAYS
I-1		318	L.F.	18" PIPE FOR DRIVEWAYS
I-1		120	L.F.	21" PIPE FOR DRIVEWAYS
I-1		378	L.F.	24" PIPE FOR DRIVEWAYS
I-1		58	L.F.	27" PIPE FOR DRIVEWAYS
I-1		120	L.F.	30" PIPE FOR DRIVEWAYS
I-3		1,963	L.F.	12" PIPE FOR ROADWAY DRAINAGE
I-3		135	L.F.	15" PIPE FOR ROADWAY DRAINAGE
I-3		604	L.F.	18" PIPE FOR ROADWAY DRAINAGE
I-3		475	L.F.	12" PIPE FOR ROADWAY DRAINAGE UNDER APPROACHES
I-3		10	L.F.	18" PIPE OUTLETS FOR ROADWAY DRAINAGE
I-4		13,188	L.F.	6" PIPE UNDERDRAINS
I-4		40	L.F.	6" PIPE OUTLETS FOR UNDERDRAINS
I-5		1	EACH	15" PIPE SPECIALS FOR DRIVEWAYS
I-5		15	EACH	12" PIPE SPECIALS FOR ROADWAY DRAINAGE
I-5		4	EACH	15" PIPE SPECIALS FOR ROADWAY DRAINAGE
I-5		19	EACH	6" PIPE SPECIALS FOR PIPE UNDERDRAINS
I-8		5	EACH	INLETS ADJUSTED TO GRADE
I-8		9	EACH	STANDARD NO. 7 CATCH BASINS
I-8		1	EACH	STANDARD NO. 1-3 CATCH BASINS
I-8		11	EACH	STANDARD NO. 2-3 CATCH BASINS WITHOUT SIDE OPENINGS
I-10		1,007	S.Y.	12" TYPE "A" GROUT FILLED RIPRAP AS PER PLAN
I-15		75	L.F.	GUARD RAIL, STEEL BEAM TYPE (DEEP)
I-15		178	L.F.	GUARD RAIL, REMOVED AND STORED
I-16		29	EACH	INLETS ABANDONED
I-17		2238	C.Y.	SIDE APPROACHES, MAIL BOX TURNOUTS AND BERM MATERIAL
L-9		33.55	TONS	10-6-4 COMMERCIAL FERTILIZER
L-9		326,063	S.Y.	SEEDING AND PROTECTING, TYPE "A"
L-9		46,666	S.Y.	SEEDING AND PROTECTING, TYPE "A" USING ASPHALT MULCH as per plan
L-10		7,484	S.Y.	SODDING
I-3		14,650	L.F.	12" VITRIFIED CHANNEL PIPE AS PER PLAN (Supp. Spec. 193)
I-5		22	EACH	12" SPECIALS FOR VITRIFIED CHANNEL PIPE
T-10		600	C.Y.	TRAFFIC BOUND SURFACE COURSE, COARSE AGGREGATE FOR TRAFFIC LANES
T-10		200	C.Y.	TRAFFIC BOUND SURFACE COURSE, SCREENINGS FOR TRAFFIC LANES
M-10		16	TONS	CALCIUM CHLORIDE FOR TRAFFIC LANES
I-9		6274	L.F.	TYPE "A" STONE UNDERDRAIN AS PER PLAN
I-9		12600	L.F.	TYPE "B" STONE UNDERDRAIN AS PER PLAN
I-9		7500	L.F.	TYPE "C" STONE UNDERDRAIN AS PER PLAN
I-9		1500	L.F.	TYPE "D" STONE UNDERDRAIN AS PER PLAN
I-9		900	L.F.	TYPE "E" STONE UNDERDRAIN AS PER PLAN

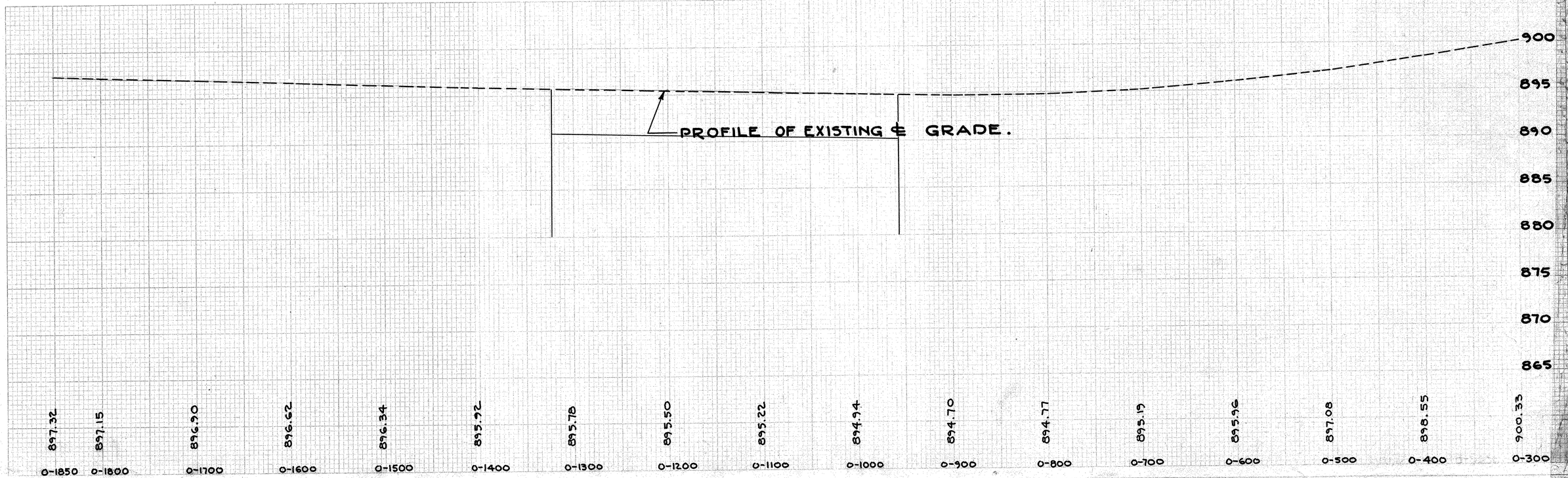
ITEM NO.		QUANTITY	UNIT	DESCRIPTION
				STRUCTURES 20' SPAN & UNDER
E-2		1,873	C.Y.	EXCAVATION FOR STRUCTURES
S-1		431.8	C.Y.	CLASS "C" CONCRETE FOR STRUCTURES
S-1		127.9	C.Y.	CLASS "E" CONCRETE FOR STRUCTURES
S-3		47	S.Y.	TYPE "C" WATERPROOFING
S-4		76,581	LBS.	REINFORCING STEEL
S-22		3.5	C.Y.	REMOVAL OF PORTIONS OF EXISTING STRUCTURE
S-23		54	EACH	DOWEL HOLES
S-24		(10) LUMP	LUMP	REMOVAL OF EXISTING STRUCTURES AS PER PLAN
S-27		938	L.F.	12" PIPE FOR ROADWAY CULVERTS, SEC. M-6.6 (b)
S-27		221	L.F.	15" PIPE FOR ROADWAY CULVERTS
S-27		347	L.F.	15" PIPE FOR ROADWAY CULVERTS, SEC. M-6.4 (c)
S-27		154	L.F.	18" PIPE FOR ROADWAY CULVERTS
S-27		138	L.F.	21" PIPE FOR ROADWAY CULVERTS
S-27		126	L.F.	24" PIPE FOR ROADWAY CULVERTS
S-27		197	L.F.	27" PIPE FOR ROADWAY CULVERTS
S-27		658	L.F.	30" PIPE FOR ROADWAY CULVERTS
S-27		807	L.F.	36" PIPE FOR ROADWAY CULVERTS
S-27		492	L.F.	42" PIPE FOR ROADWAY CULVERTS
S-27		199	L.F.	48" PIPE FOR ROADWAY CULVERTS
S-27		122	L.F.	24" PIPE FOR ROADWAY CULVERTS, SEC. M-6.4 (c)
I-5		4	EACH	15" PIPE SPECIALS FOR ROADWAY CULVERTS
I-5		2	EACH	18" PIPE SPECIALS FOR ROADWAY CULVERTS
I-5		1	EACH	21" PIPE SPECIALS FOR ROADWAY CULVERTS
I-5		2	EACH	24" PIPE SPECIALS FOR ROADWAY CULVERTS
I-5		1	EACH	27" PIPE SPECIALS FOR ROADWAY CULVERTS
I-5		3	EACH	30" PIPE SPECIALS FOR ROADWAY CULVERTS
I-5		5	EACH	36" PIPE SPECIALS FOR ROADWAY CULVERTS
I-5		3	EACH	42" PIPE SPECIALS FOR ROADWAY CULVERTS
I-5		1	EACH	48" PIPE SPECIALS FOR ROADWAY CULVERTS
E-3		2290	C.Y.	CHANNEL EXCAVATION
S-27		574	L.F.	30" PIPE FOR ROADWAY CULVERTS, SEC. M-6.4 (c)
S-27		764	L.F.	12" PIPE FOR ROADWAY CULVERTS, SEC. M-6.4 (c)
				PAVEMENT
B-20		111,856	S.Y.	8" WATERBOUND MACADAM BASE COURSE (2-4" COURSES)
T-30		40,800	GALS	BITUMINOUS PRIME COAT, SEC. M 5.7, RT-2 or 3
T-33		114,143	S.Y.	3" BITUMINOUS MACADAM SURFACE COURSE TYPE "A"
B-20		4,661	S.Y.	4" WATERBOUND MACADAM BASE COURSE
B-35		7.3	C.Y.	ASPHALTIC CONCRETE LEVEL COURSE
T-35		16.5	C.Y.	ASPHALTIC CONCRETE SURFACE COURSE, TYPE "A" (70-80 or 85-100)
SPECIAL		140	EACH	PRECAST TRAFFIC DIVIDER NO. 6 AS PER PLAN

FED. ROAD DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

18
150

TRUMBULL COUNTY
S.H. 325-SEC. B(PT.), C, D(PT.)

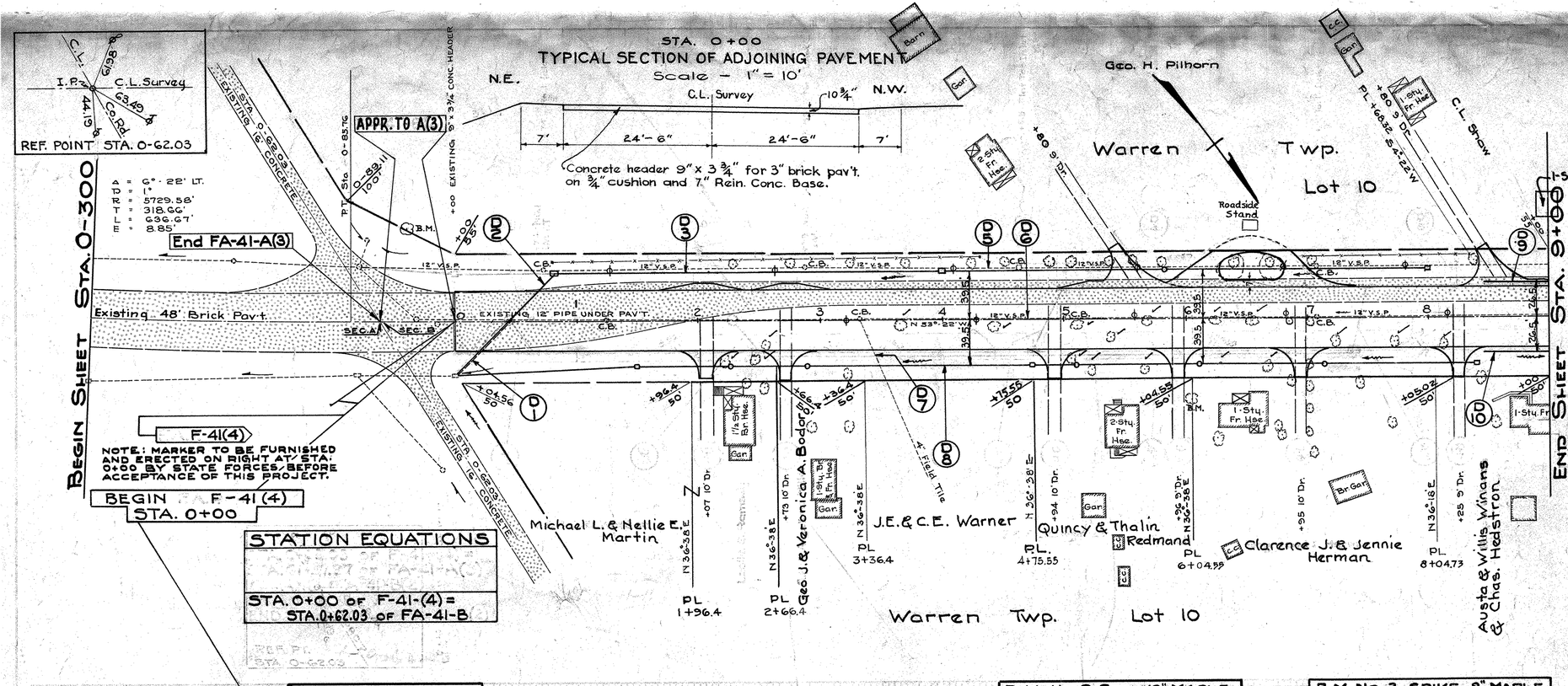




LINE SHEET STA. 0-1850 To STA. 0-300

2664E

TRUMBULL COUNTY
S.H. 325 SEC. B(PT)-C-D(PT)



~ DRAINS ~

MARK	STATION FROM	STATION TO	SIDE	I-3 L.F. 12"	I-4 L.F. 6"	I-8 Ea. No. 2-3 C.B.	I-8 Ea. No. 7 C.B.	
D-2	0+00	0+82	L/R	115				
D-3	0+82	8+00	L	710		3	1	
D-8	0+00	8+40	R	818		3	5	
D-9	8+45	9+00	L		55			
D-10	8+45	9+00	R		55			
		TOTALS		1643	110	6	6	

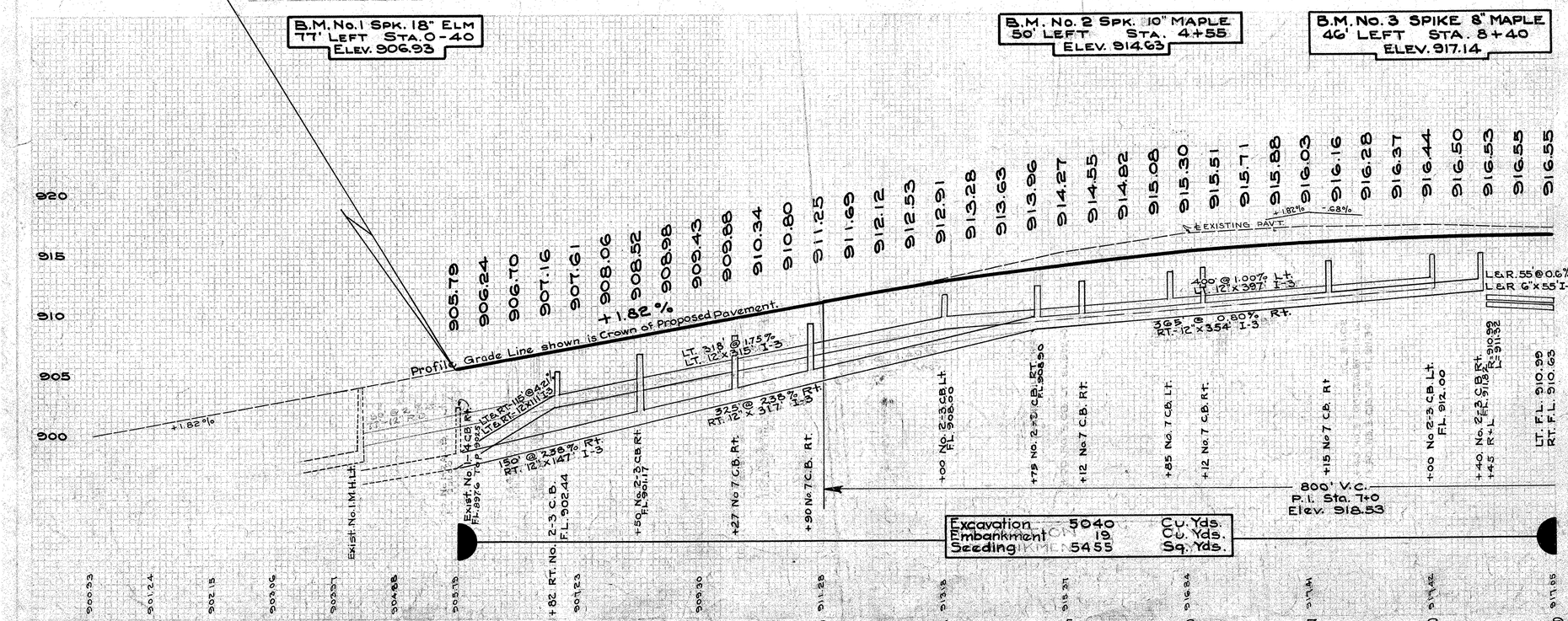
PIPE REMOVAL

MARK	STATION FROM	STATION TO	SIDE	E-12 L.F. REMOVED & STORED 15" & Under	I-16 Each INLETS ABANDONED	
D-1	0+00	0+45	R	60		
D-5	0+00	9+00	L	892	4	
D-6	0+00	9+00	R	894	4	
D-7	3+34	3+50	R	42		
	TOTAL			1888	8	

~ DRIVES & APPROACHES ~

MARK	SIDE	STATION	I-17 S.Y.	E-1 Exc. C.Y.	Precast Conc. Traffic Dividers Each	Detail Sheet No
	R	2+07	44	1		10
	R	2+73	47	1		10
	R	4+94	47	1		10
	R	5+80	117	1		10
	R	5+96	47	1		10
	R	6+95	47	1		10
	R	8+25	47	1		10
	L	8+80	117	1		10
	L	2+05	31			10
	L	2+75	31			10
	L	6+50	244			10
		0+82 to 2+00			75	667
		Total	819	*	75	

* E-1 Carried to Cross Sections.



LINE SHEET STA. 0-300 TO STA. 9+0

DIVISION 2 | OHIO | F-41 (4) | 1947 | 20 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT)-C-D(PT)

SCALE ~ 1" = 50'

REVERSE CURVE DATA
This applies to C.L. of left 24' pavement from sta. 14+00 to Sta. 20+33.28
Δ = 1° 16'
D = 0° 24'
L = 316.66
E = 0.87'
R = 14323.95
T = 158.34
See Pavement Details on Sheet 8

Begin Sheet Sta. 9+00 — End Sheet Sta. 21+00

Warren Twp. Lot 10

Chas. F. Masters

Irwin H. & M.R. Zell

Don E. & M.E. Bronson

Warren Twp. Lot 10

Lot 10 — Lot 3

Road side Stand

Gas Sta.

PL C.L. S 42° 24' W

PC +90 (For Curve on lt. and rt.)

P.R.C. +16.64 (For Curve on lt.)

P.T. +33.28 (For Curve on lt.)

+84 Drive

325 Field Drive

Fr. Barn — Shed — Corn Crib — Row of Evergreens — Well

Tk'd. Hub — 30" Maple — Tk'd Hub — 20" Apple — ℄ Survey — P.R.C. - STA. 16+66.44

℄ Survey — P.O.T. - STA. 10+00 — R 28.35' — 54.63' — 53.08' — Tack — 1-S.F. Cottage — Transit Tack 6" Above Fdtn. — Sp. 1' Above Ground.

2-Sty. Fr. Hse. — Fr. Gar. — 2-S C.C.

N 36° 19' 30" E — +04.73 PL — +70 S' Dr. — +41 10' Dr. — PC +00 — +57 63.70 — N 7° 0' E — PL +24.19

R-20 — R-20 — 30' — 40' — +06.81

N 53° 22' W — S 53° 22' E

C.L. Survey

REVERSE CURVE DATA
This applies to C.L. of right 24' pavement from Sta. 14+00 to Sta. 22+42.70
Δ = 2° 06' 26"
D = 0° 15'
L = 842.87'
E = 3.90'
R = 22918.32'
T = 421.40'

B.M. No. 4
30" Maple - 4' Lt. Sta. 14+55 Elev. 913.68

NOTE: FOR PAVEMENT GRADES BETWEEN STA. 14+00 & 21+25 SEE DETAIL SHEET No. 8

400' V.C. P.I. Sta. 20+0 Elev. 909.69

Profile Grade Line Shown is Crown of Proposed Pavement

See Pavement Detail on Sheet No. for Profile Grade Line Shown

920	916.55	916.52	916.48	916.42	916.33	916.23	916.11	915.97	915.81	915.64	915.47	915.30	915.13	914.96	914.79	914.62	914.45	914.28	914.11	913.94	913.77	913.60	913.43
915																							
910																							
905																							

913.26 — 913.09 — 912.92 — 912.75 — 912.58 — 912.41 — 912.24 — 912.07 — 911.90 — 911.73 — 911.56 — 911.39 — 911.22 — 911.05 — 910.88 — 910.72 — 910.57 — 910.43 — 910.29 — 910.15 — 910.03 — 909.91 — 909.80 — 909.69 — 909.60 — 909.51

110' @ 0.68% RT. — -.68% — RT-12" x 108' I-3

LT. F.L. 910.99 — RT. F.L. 910.65 — 800' V.C.

+25 RT. BEGIN 12" I-3 F.L. 911.20 — +95 Rt. No. 7 C.B. — +35 RT. END 12" I-3 F.L. 910.76

C-1-A = 12" x 12'-6" C.I.P on C.L. 906.83

LT - 1215.28' @ 0.60% — LT - 6" x 1133' I-4

RT. - 1200' @ 0.60% — RT. - 6" x 1200' I-4

RT - 22' @ 0.36% — 6" x 22' - I-4

LT. & RT. 60' @ 0.36% — 6" x 58' - I-4

+76 RT - F.L. I-4 = 903.38 — (RT - F.L. I-4 = 903.43) — (LT - F.L. I-4 = 903.75) — +00

+33.28 LT. F.L. 904.19

906.75

SCALES ~ 1" = 5' VERT. 1" = 50' HOR.

Excavation	3861	Cu. Yds.
Embankment	263	Cu. Yds.
Seeding	8567	Sq. Yds.

9 — 10 — 11 — 12 — 13 — 14 — 15 — 16 — 17 — 18 — 19 — 20 — 21

917.05 — 916.45 — 915.62 — 914.77 — 914.39 — 913.86 — 913.32 — 912.68 — 911.65 — 910.95 — 910.44 — 905.51 — 908.30

~ DRAINS ~

MARK	STATION FROM	STATION TO	SIDE	I-3 L.F. 12"	I-3 L.F. U.A. 12"	Chann. Pipe L.F. 12"	I-8 Each C.B. Adjust	I-4 L.F. 6"	I-5 Ea. Spec for I-4 6"x45° Bd	C.B. No. 7 Each
D-2	9+00	20+33.28	L					1133		
D-3	20+33.28	20+76	L/R					58	2	
D-4	20+76	21+00	R					22		
D-5	9+00	21+00	R					1200		
D-6	13+25	14+35	R	76	32					1
D-7	20+00	20+80	℄			80				
D-10	9+20	18+96	L				5			
TOTAL				76	32	80	5	2413	2	1

PIPE REMOVAL

MARK	STATION FROM	STATION TO	SIDE	E-12 L.F. Stored 15" & Under	E-12 L.F. Stored Over 15"	I-16 Each Inlets Abandoned
D-1	9+00	21+00	℄	1186		7
D-8	20+60	21+00	R	50		
D-9	9+00	9+20	L	20		
TOTALS				1256		7

~ DRIVES & APPROACHES ~

	SIDE	STATION	I-17 S.Y.	E-1 Exc. C.Y.	Precast Conc. Traffic Dividers Each	T-30 S.Y.	B-35 C.Y.	T-35 C.Y.	5" Gran. Slag B. S.Y.	Detail Sheet No.
	R	9+70	52	1						10
	R	13+41	52	1						10
	R	14+13		1		54	1.81	1.81	54	10
	R	18+95	103	1						10
	L	14+15	31							10
	℄	21+00	55	½ Crossover						108
	℄ & R	9+02 to 16+70			65					6 & 7
Total			293	*	65	54	1.81	1.81	54	

* E-1 Carried to Cross Sections.

STRUCTURES 20' SPAN & UNDER

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO
C-1	18+96	V.S.P. Culvert	12" x 40'	No Work
C-1A	20+87.5	C.I.P. Culvert	12" x 25'	115

LINE SHEET STA. 9+00 TO STA. 21+00

DIVISION 2 OHIO F-41 (4) 1947 — 21 / 150

TRUMBULL COUNTY
S.M. 325 SEC. B(PT)-C-D (PT)

NOTE
C.L. of survey is offset 44' to right at sta. 30+75.86

Warren Twp. Lot 3

DEF. = 0°-05' RT.
STA. 25+27.39

Spike in 30" Maple Rt of Old Road
Spike 30" Maple Lt of Old Road
Sta. 25+27.39
Def. 0°05 Rt.
102.33'
100'
100'
92°28'
88°32'
I.P.
I.P.

BEGIN SHEET STA. 21+00
END SHEET STA. 33+00

Radial Line at P.C.
Radial Line P.T. +42.70 (For Curve on Rt.)
Field Ditch
P.C. +65.21 (For Curve on Lt.)
+84.31'
10' Dr.
+15
+00 60'
Fr. Hse.
Gar.
C-2
D-2
C-3
D-3
D-6
D-4
D-1
C-4
C-5
D-5
C-6
12" V.S.P
C.B.
12" C.I.P.
22
23
24
25
26
27
28
29
31
32
N 53° 24' W.
N. 53° 17' W. 30
℄ of Survey
℄ of 24' Pavt.
C.L. of Survey
15'
15'
44'
+00 101'
+21.37 101'
+32.71 101'
+66.73 101'
+67
+75.86 101'
+78 101'
+00 57'
+40.14 57'
+75.86 57'
+92 6" PIPE POLE (CONC. BASE)
+40 BEGIN DRIVE TO GAS STA.
+88 LIGHT POLE
+00 57'
+08.23 101' Hs
+09.78 101' I-S-F
+09.78 Dept. Well
+50 12" Dr.
+69.94 PL
+08.30 PL
+49.80 PL
+19.01 PL
+15.86 99'
+75.86 99'
P.T. +75.86 (For Curve on Rt.)
DUG WELL +09 12" Dr.
Hse
Garage
Misc. Fr. Bldgs
12" Dr.
Dan E. & M.E. Branson
N 6°40'30"E
William K. & C.D. White
Sally Ann Kintner
Wm. K. & Clara D. White
Florence F. Vasbinder
N 4°46'E
Nellie A. Isey & Widdowson
N 4°42'E
FL 31+04.59

18" Maple
20" Maple
45.01'
SWT
C.S.46
℄ Survey
P.T. - Sta. 23+00

REVERSE CURVE DATA
This applies to C.L. of right 24' pavement from Sta. 22+65.21 to Sta 30+75.86
Δ = 2°01' 26"
D = 0°15'
L = 808.99'
E = 3.58'
R = 22918.32'
T = 404.82'

B.M. No. 5 Spk. 36" Maple 90' Rt. Sta. 22+72 Elev. 907.38

B.M. No. 6 Spk. 15" Oak — 90' Lt. Sta. 28+88 Elev. 906.30

909.51 909.42 909.34 909.27 909.21 909.15 909.09 909.03 908.97 908.91 908.85 908.79 908.73 908.67 908.61 908.55 908.49 908.43 908.37 908.31 908.25 908.19 908.13 908.07 908.01 907.95 907.89 907.83 907.77 907.71 907.65 907.59 907.53 907.47 907.41 907.35 907.29 907.23 907.17 907.11 907.05 906.99 906.92 906.84 906.75 906.66 906.57 906.46 906.35

910
905
900
895

-0.24% Profile Grade Line shown is crown of Proposed Pavement. -0.24%

12'x12'-6" CIP or ℄
906.75 906.70
EXISTING PAVEMENT
LT-1200'@0.36% LT-6"x1200' I-4
RT-1200'@0.36% RT-6"x1200' I-4
LT. 903.75
RT. 903.43
400' V.C. P.I. STA. 20+00 ELEV. 909.69
400' V.C. P.I. STA. 33+00 EL.= 906.57
LT- 899.43
RT- 899.11

Excavation	1164 Cu. Yds.
Embankment	2127 Cu. Yds.
Seeding	5261 Sq. Yds.

908.30 907.83 907.58 907.63 907.62 907.64 907.62 907.32 906.87 906.16 906.63 906.55 906.44

21 22 23 24 25 26 27 28 29 30 31 32 33

~ DRAINS ~

MARK	STATION FROM	STATION TO	SIDE	Chann. Pipe L.F. ⊗ 12"	I-4 L.F. 6"	I-5 Spec. for 12" Chann. Pipe Tees 12"x12"	I-5 Spec. for 12" Chann. Pipe Wyes 12"x12"
D-3	21+00	33+00	L/R		1200		
D-4	21+12.5	27+80	L	668		2	
D-5	28+20	33+80	L	483		1	
D-6	21+00	33+00	R		1200		
TOTAL				1151	2400	3	

⊗ Channel Pipe Quantities shown in all tables include pipe connections to culverts.

~ TREE REMOVAL ~

STATION	SIDE	KIND
21+04	RT	M
21+04	RT	M
21+04	RT	M
21+04	RT	M
21+04	RT	M
21+04	RT	M
21+04	RT	M
21+04	RT	M
21+04	RT	M
21+04	RT	M

~ RETAINING WALLS ~

STATION	SIDE	TYPE	LENGTH	HEIGHT
21+04	RT	M		
21+04	RT	M		
21+04	RT	M		
21+04	RT	M		
21+04	RT	M		
21+04	RT	M		
21+04	RT	M		
21+04	RT	M		
21+04	RT	M		
21+04	RT	M		

~ DRIVES & APPROACHES ~

	SIDE	STATION	I-17 S.Y.	I-1 L.F. 15"	E-1 C.Y. Exc.	E-1 C.Y. Emb	I-5-15" Tee For I-1 Each	Detail Sheet No.
	12	21+15	47	30'		5		10
	R	25+50	108	46'	1			10
	R	27+67	108	46'	1			10
	R	31+42	47	30'		1		10
	℄	21+00	56	½ Crossover				108
	℄	28+00	195					11
	R	25+87	97	56	(Part of Drive)		1	10
TOTALS			561	208	*		1	

* E-1 Carried to Cross Sections

PIPE REMOVAL

	STATION FROM	STATION TO	SIDE	E-12 L.F. Stored 15" & Under	I-16 Each Inlets Abandoned
D-1	21+0	33+0	Lt. & Rt.	1192	4
D-2	21+0	21+20	R	32	
Totals				1224	4

STRUCTURES 20' SPAN & UNDER

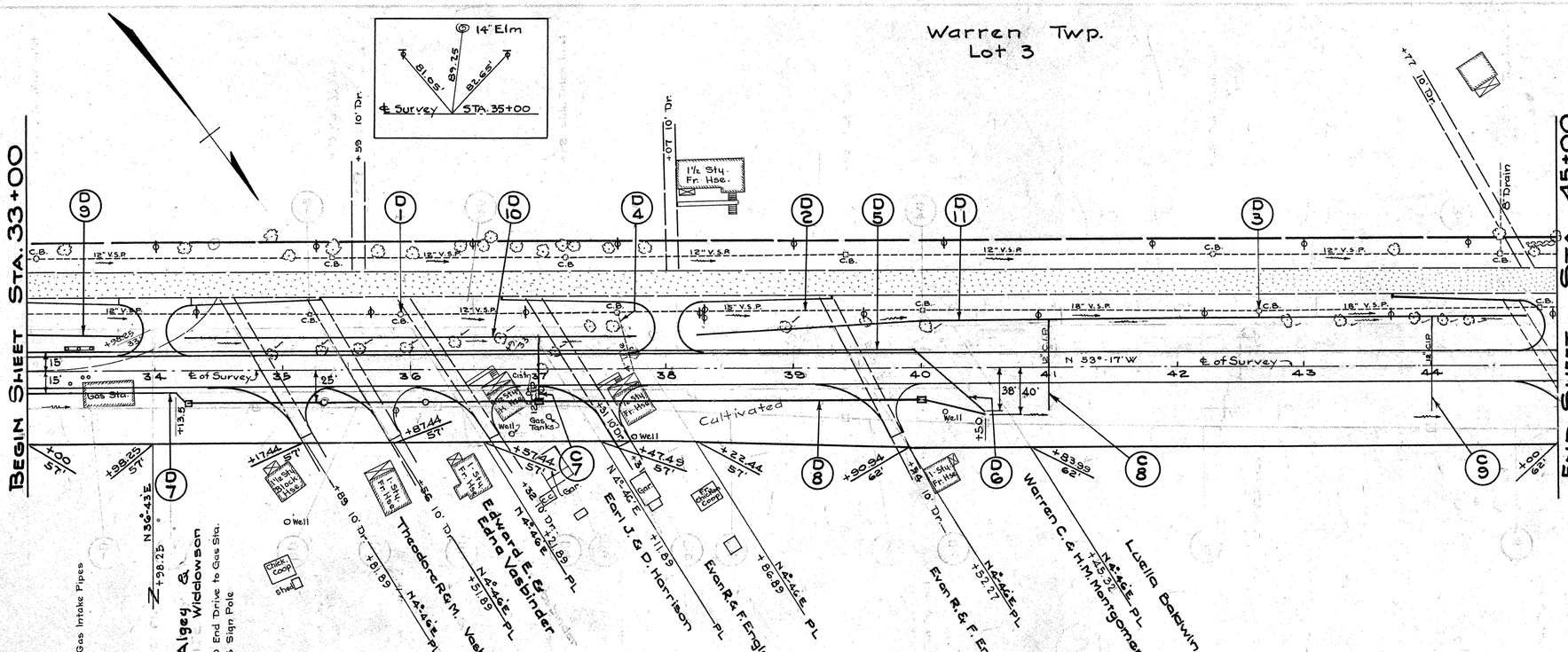
MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-2	22+62	V.S.P. Culvert	12" x	No Work
C-3	24+00	C.I. Pipe Culvert	12"x53'	115
C-4	27+00	C.I. Pipe Culvert	12"x52'	115
C-5	29+88	V.S.P. Culvert	12" x	No Work
C-6	33+00	C.I. Pipe Culvert	12"x53'	115

LINE SHEET STA. 21+00 TO STA. 33+00

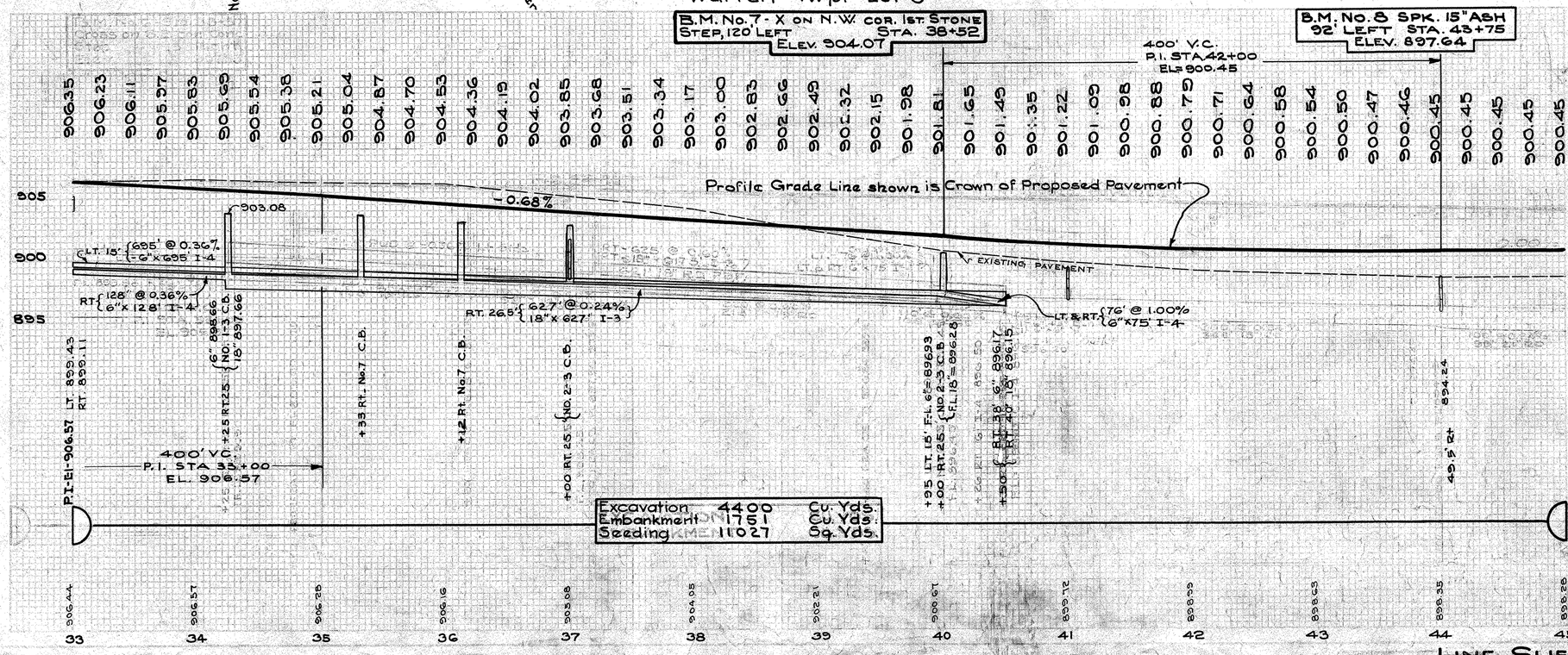
DIVISION 2 | OHIO | F-41 (4) | 1947 | 22 | 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT)-C-D(PT)

Warren Twp.
Lot 3



Warren Twp. Lot 3



Excavation	4400	Cu. Yds.
Embankment	1751	Cu. Yds.
Seeding	11027	Sq. Yds.

DRAINS

MARK	STATION FROM	STATION TO	SIDE	I-3 L.F. 18"	I-3 L.F.	I-3 L.F. Out. Pipe 18"	Chann. Pipe L.F. 12"	I-5 Spec for 12" Chann. Ends 12"x12"	I-8 Ea. No. 2-3 C.B.	I-8 Ea. No. 7 C.B.	I-8 Ea. No. 1-3 C.B.
D-8	34+25	40+50	R	604		10			2	2	1
D-9	33+00	33+80	L				80				
D-10	34+20	37+80	L				360	1			
D-11	38+20	44+80	L				664	2			
TOTAL				604		10	1104	3	2	2	1

DRAINS

MARK	STATION FROM	STATION TO	SIDE	I-4 L.F. 6"	I-4 L.F. Outlet Pipe 6"	I-5 Each for I-4 45° Bends 6"	I-5 Each for I-4 Y 6"
D-5	33+00	39+95	L	695			
D-6	39+95	40+50	L/R	65	10	1	
D-7	33+00	34+25	R	127		1	
TOTAL				887	10	2	

* E-1 carried to Cross Sections

~ DRIVES & APPROACHES ~

E-1 Exc. C.Y.	SIDE	STATION	I-17 S.Y.	T-33 S.Y.	B-20 S.Y.	E-8 Seala S.Y.	Detail Sheet No.	T-30 S.Y.	5" Gran. Slag Base S.Y.
1	R	34+89	108				10		
1	R	35+56	108				10		
1	R	36+32	108				10		
1	R	37+31	120				10		
1	R	39+54	103				10		
	℄	34+00	56	139	141	57	11	141	141
	℄	38+00	195				11		
	℄	45+00	27	½ Crossover			11		
	R	44+96	20	Part of Driveway			10		
*									
Total			915	139	141	57		141	141

PIPE REMOVAL

MARK	STATION FROM	STATION TO	SIDE	E-12 L.F. Stored 15" & Under	E-12 L.F. Stored Over 15"	I-16 Each Inlets Abandoned
D-1	33+0	37+62	Lt.	457		3
D-2	37+62	40+02	Lt.		238	1
D-3	40+02	45+0	Lt.		494	2
D-4	37+62	37+75	Rt.	47		
	TOTALS			504	732	6

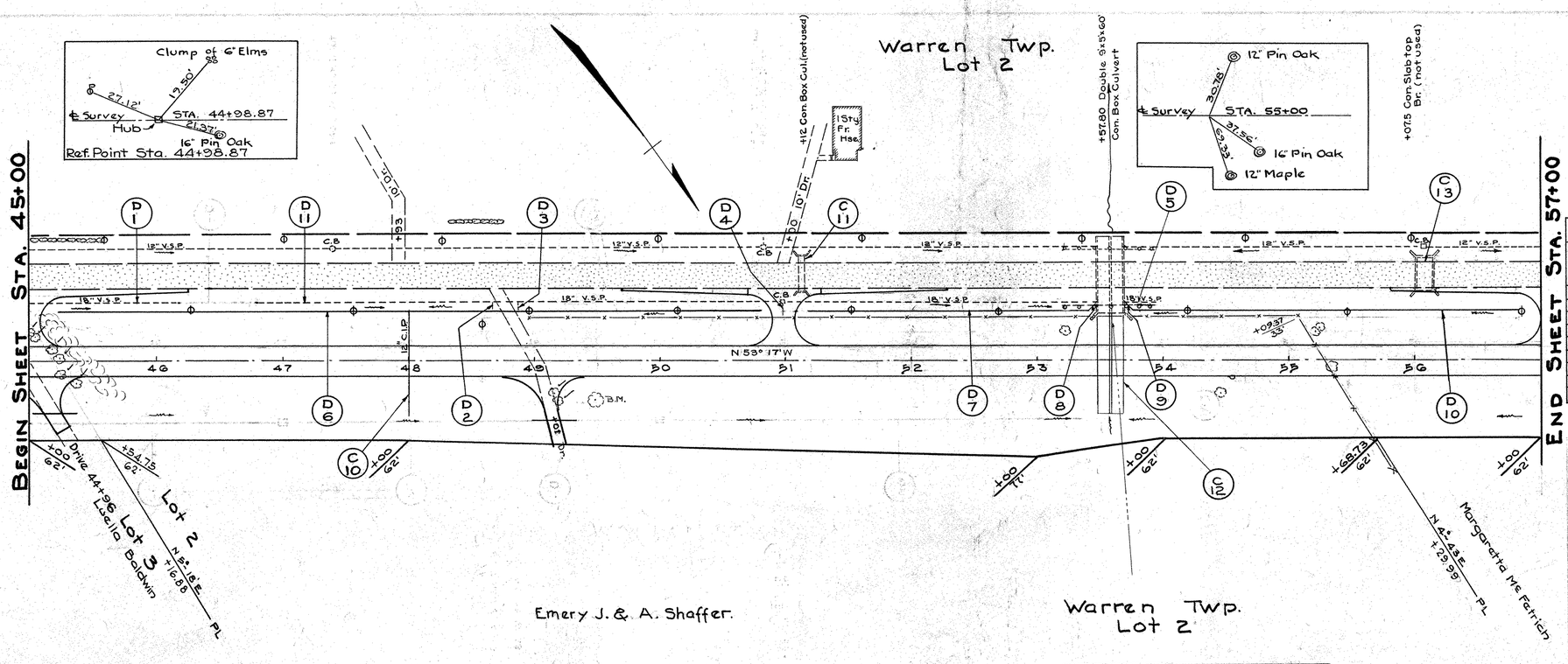
STRUCTURES 20' SPAN & UNDER

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-7	37+00	C.I. Pipe Culvert	12"x45'	115
C-8	41+00	C.I. Pipe Culvert	12"x67'	115
C-9	44+00	C.I. Pipe Culvert	12"x72'	115

LINE SHEET STA. 33+00 TO STA. 45+00

DIVISION					23
2	OHIO	F-41 (4)		1947	150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.)-C-D (PT.)



DRAINS

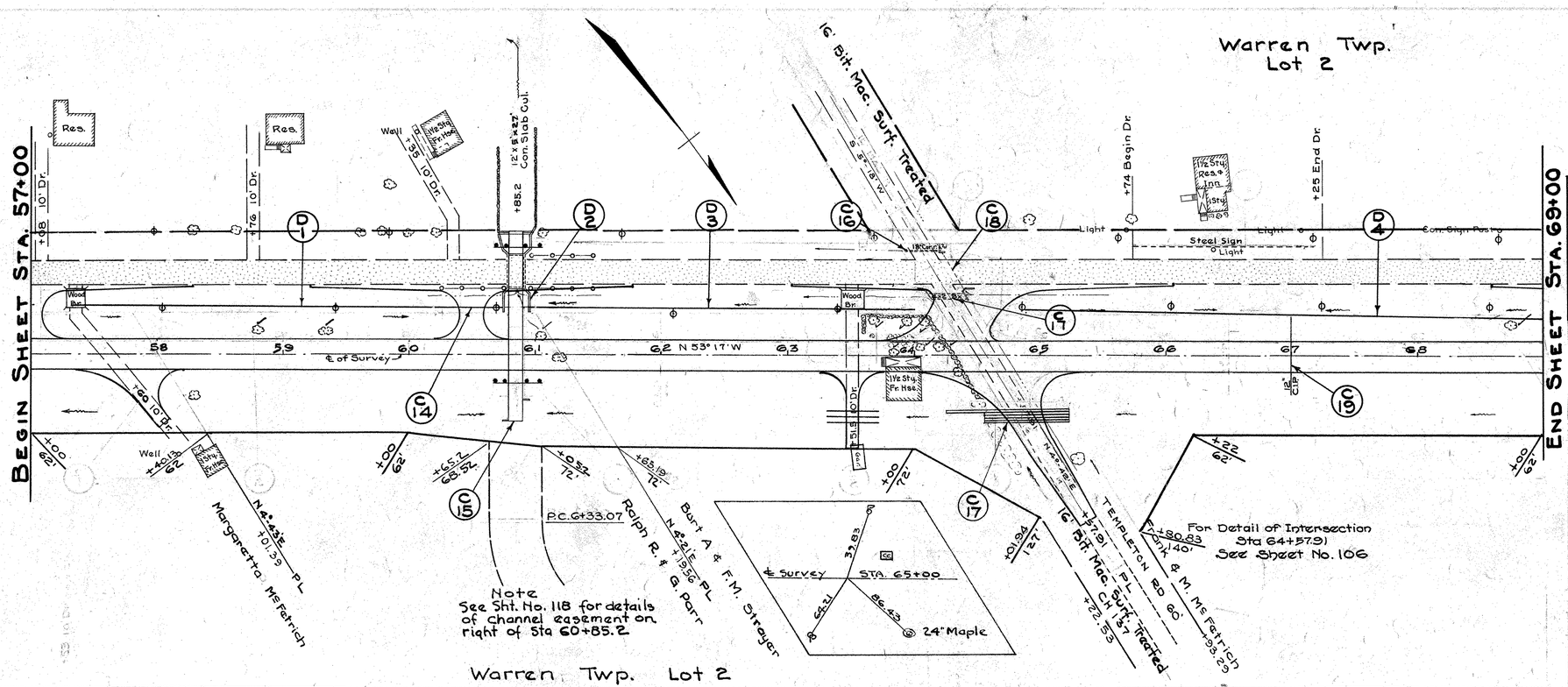
MARK	STATION FROM	STATION TO	SIDE	Chann. Pipe L.F. 12"	I-5 Spec. for 12" Chann. Pipe Tees 12"x12"	I-5 Spec. for 12" Chann. Pipe Y	I-3 L.F. 12"	I-5 Spec. for I-3 Each 12" 45°	
D-6	45+20	50+80	L	559	1				
D-7	51+20	53+40.7	L	221					
D-8	53+40.7	53+47.8	L				9	1	
D-9	53+67.8	53+74.9	L				9	1	
D-10	53+74.9	56+88	L	313					
	TOTALS			1093	1		18	2	

TREE REMOVALS

STATION	SIDE	FROM ℄	SIZE (KIND)
45+24	L	8'	12" OAK
45+24	L	12'	12" OAK
45+24	L	12'	12" OAK
45+43	L	12'	12" OAK
45+43	L	27'	24" OAK
45+50	L	32'	24" OAK
45+50	L	32'	24" OAK
45+50	L	32

DIVISION 2 OHIO F-41(4) 1947 — 24 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.)-C-D(PT.)



DRAINS

MARK	STATION FROM	STATION TO	SIDE	Chann. Pipe L.F. 12"	I-5 Spec. for 12" Chan. Pipe Ea. 12"x8"	I-3 L.F. 12"
D-1	57+28.7	60+20.7	L.	292		
D-2	60+89.7	60+99.7	L.			10
D-3	60+99.7	63+99.7	L.	300		
D-4	64+88	69+00	L.	413	1	
TOTAL				1005	1	10

S-24 REMOVAL

STATION	SIDE	DIST.	DESCRIPTION	S-24 REMOVAL LUMP	
57+35	L.	40'	Wood Bridge	(1) Lump	
63+51	L.	40'	Wood Bridge	(1) Lump	
TOTALS				(2) Lump	⊛

⊛ Quantity Carried to Structure Summary

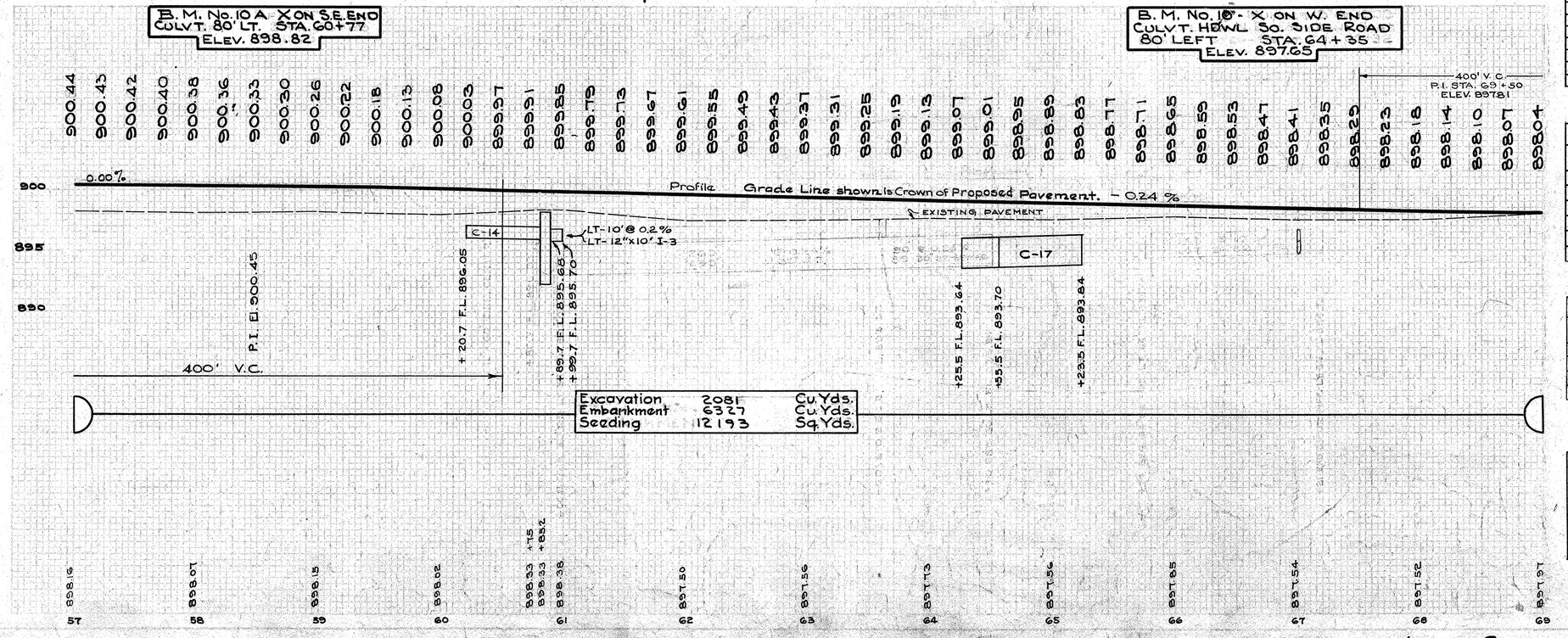
~DRIVES & APPROACHES~

E-1 C.Y.	SIDE	STATION	I-17 S.Y.	T-33 S.Y.	B-20 S.Y.	E-8 SEAL'G L.F.	Detail Sheet No.	I-1 L.F. 30"	T-30 S.Y.	5" Gran. Sta. 3199 B S.Y.
2	R	57+60	106				10			
2	R	63+51	86				10	120		
-	℄	57+08	139	Part of Crossover			11			
-	℄	60+50	195				11			
	R+L	64+57.91	56	762	769	115	106		769	769
*										
Total			582	762	769	115		120	769	769

* E-1 Carried to Cross Sections

~ STRUCTURES 20' SPAN & UNDER ~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO
C-14	60+20.7	C.I Pipe Culvert	12"x60'	115
C-15	60+85.2	Large Box Culvert	9'-5-9"x132'-7⅝"	118 119 120 121
C-16	64+22	Twin C.M.P. Culvert	2-18"x54'	No Work
C-17	64+86.54	Triple Pipe Culvert	3-30" 2@58' 1@56'	122-3
C-18	64+25	V.S.P. Culvert (Aband.)	24"x32.4'	122
C-19	67+00	C.I. Pipe Culvert	12"x 62'	115



Excavation	2081	Cu. Yds.
Embankment	6327	Cu. Yds.
Seeding	12193	Sq. Yds.

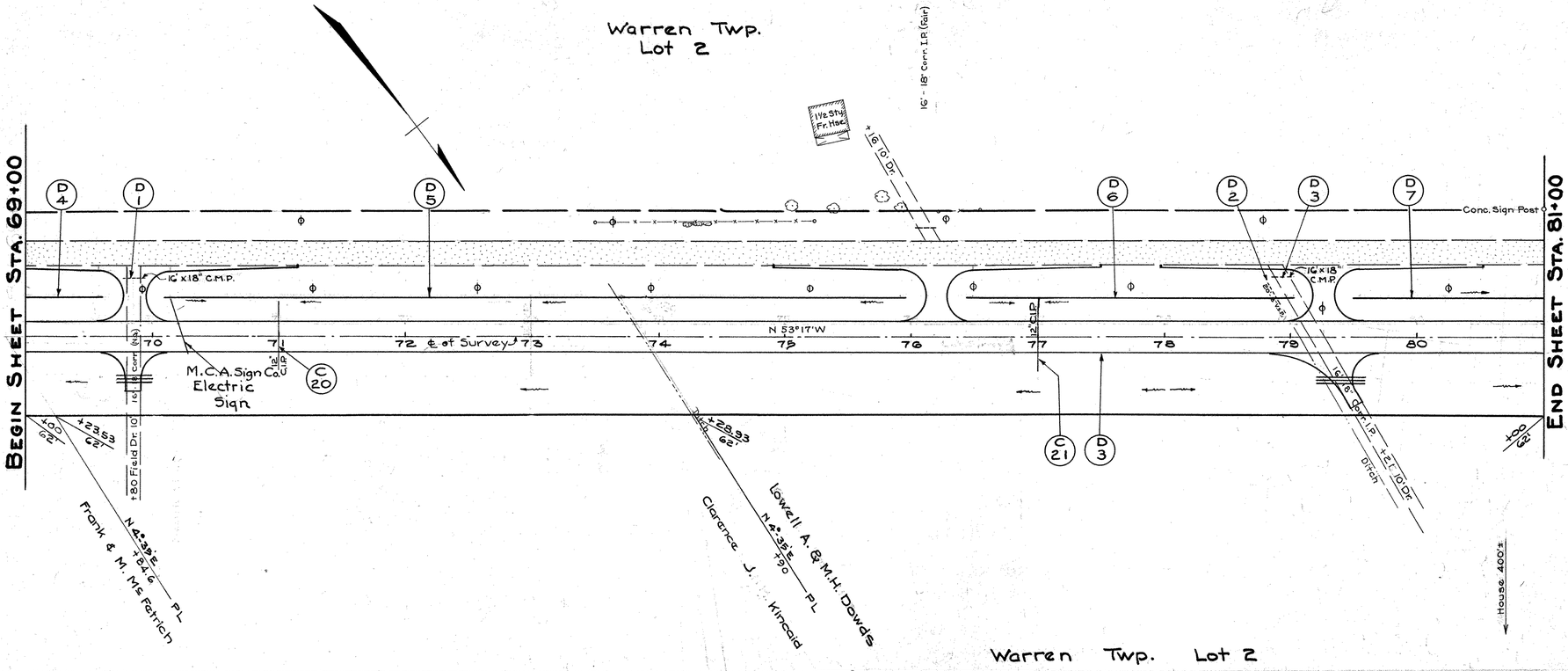
I-15 GUARD RAIL - L.F.

Station From	Station To	Side	Steel Beam (Deep)	Rem. & Store	
60+66.45	61+03.95	Lt.	37.5		
60+66.45	61+03.95	Rt.	37.5		
60+2.5	61+45	53 Lt.		120	
Total			75	120	

LINE SHEET STA. 57+00 TO STA. 69+00

DISTRICT					
2	OHIO	F 41-(4)	1947	25	150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT)~C-D (PT.)



DRAINS

MARK	STATION FROM	STATION TO	SIDE	Chan. Pipe L.F. 12"	I-5 Spec. for 12" Chan. Pipe Tee-12"x12"
D-4	69+00	69+60	L	60	
D-5	70+10	76+00	L	590	1
D-6	76+40	79+05	L	266	1
D-7	79+45	81+00	L	155	
	TOTALS			1071	2

~ DRIVES & APPROACHES ~

	SIDE	STATION	I-17 SY	E-1 CY	I-1 L.F. 18"		Detail Sheet No
	R	69+80	52	1	84		10
	R	79+21	110	1	114		10
	℄	69+80	195				11
	℄	76+20	195				11
	℄	79+25	195				11
	Total		747	*	198		

* E-1 Carried to Cross Sections.

PIPE REMOVAL

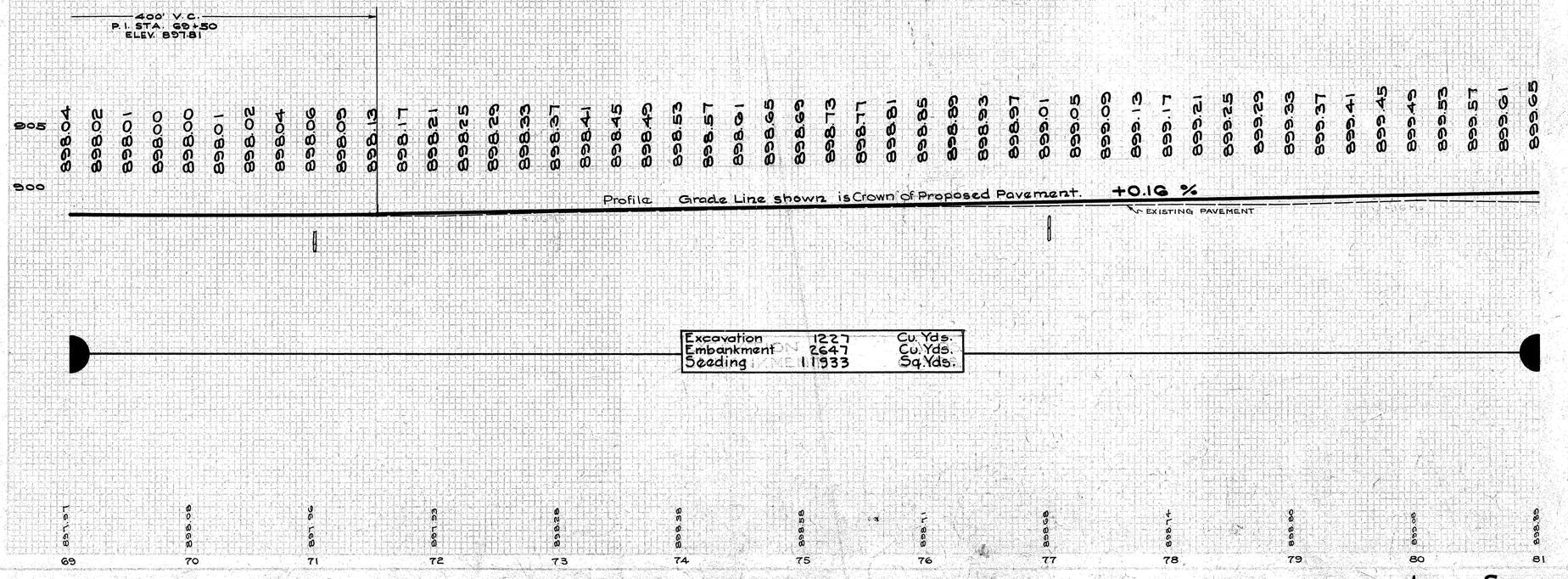
MARK	STATION FROM	STATION TO	SIDE	E-12 L.F. Stored 15" & Under	E-12 L.F. Stored Over 15"		
D-1	69+72	69+88	Lt.		16		
D-2	78+82	78+92	Lt.	20'			
D-3	78+85	79+01	Lt.		16'		
	TOTALS			20	32		

STRUCTURES 20' SPAN & UNDER

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-20	71+00	C.I. Pipe Culvert	12"X54'	115
C-21	77+00	C.I. Pipe Culvert	12"X52'	115

B.M. No. 11 Spk. 24" Maple
104' Left Sta. 75+93
Elev. 899.13

400' V.C.
P.I. STA. 69+50
ELEV. 897.81

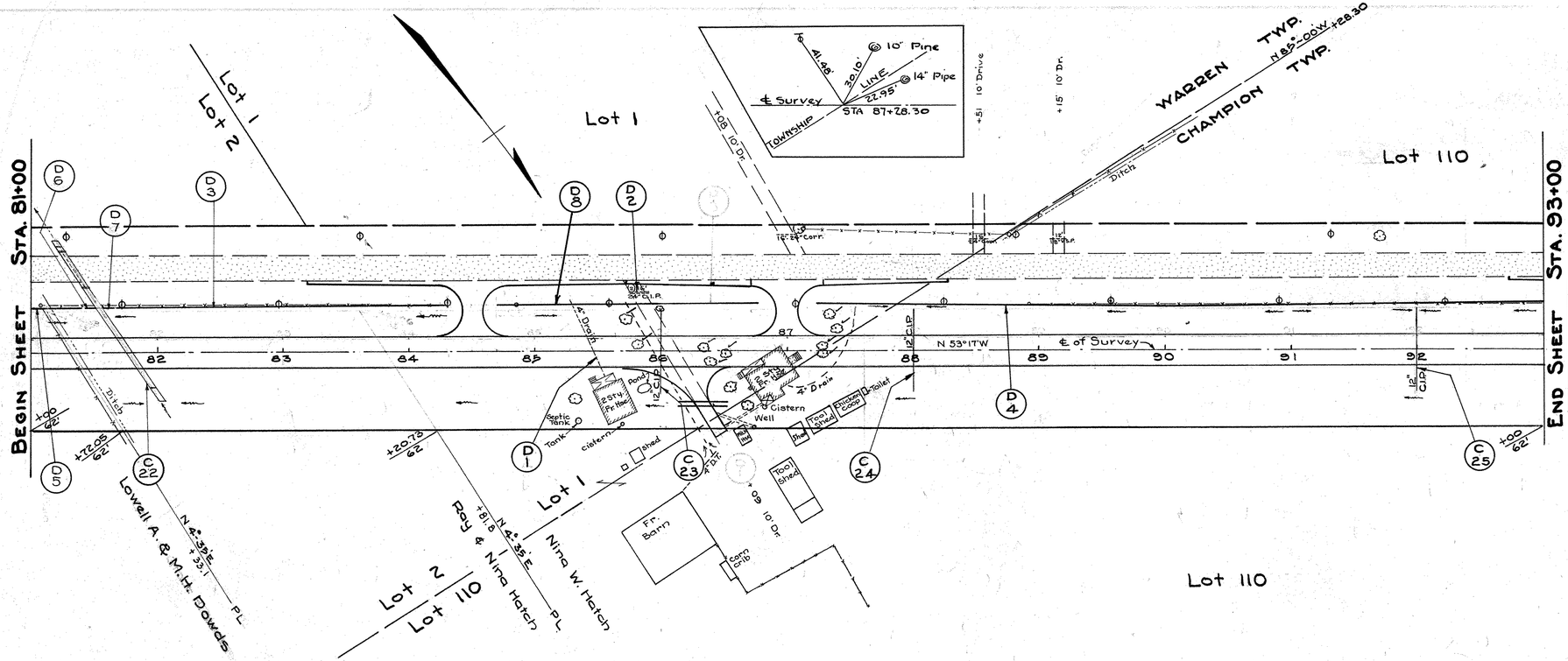


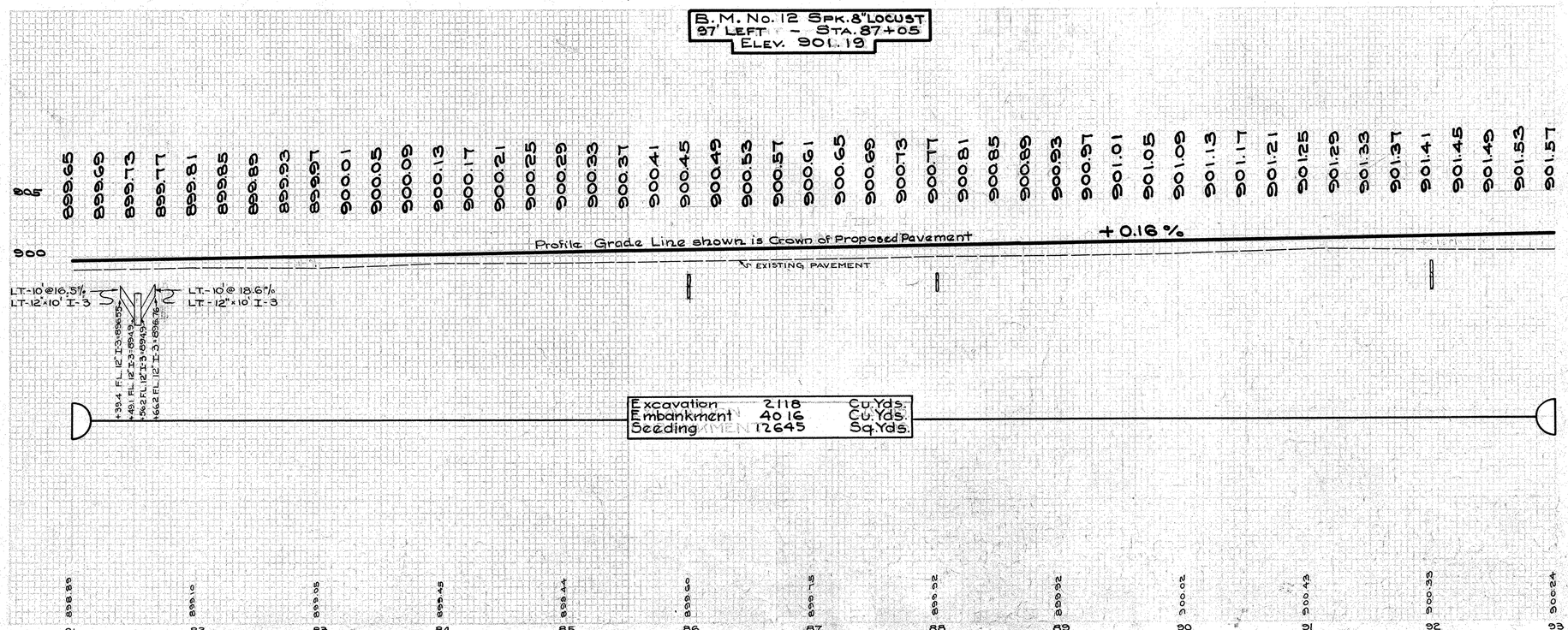
Excavation	1227	Cu. Yds.
Embankment	2647	Cu. Yds.
Seeding	11933	Sq. Yds.

LINE SHEET STA. 69+00 TO STA. 81+00

DIVISION NR				26
2	OHIO	F 41 (4)	1947	150

TRUMBULL COUNTY
S.H. 325 SEC. B. (PT)-C-D(PT.)





~ DRIVES & APPROACHES ~

E-1 C.Y.	SIDE	STATION	I-17 SY	T-33 S.Y.	B-20 S.Y.	E-8 Scaling L.F.	Detail Sheet No	I-1 L.F. 24"	T-30 S.Y.	5" Gran. Slag Base S.Y.
2	R	86+09	130				10	80		
	℄	87+00	56	139	141	57	11		141	141
	℄	84+50	195				11			
X										
Total			381	139	141	57		80	141	141

E-1 Carried to Cross Sections

~ TREE REMOVAL ~

STATION	SIDE	DIA.	KIND
82+11	L	20	O
83+88	L	12	M
86+36	L	8	STMP
86+30	R	16	PINE
86+30	R	12	PINE
86+85	R	24	M
86+70	R	44	M
87+03	L	28	SPRUCE
87+04	L	15	P
TOTAL			

~ STRUCTURES 20' SPAN & UNDER ~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-22	81+74.8	Box Culvert	4'x2'x154'-1"	124-125
C-23	86+00	C.I. Pipe Culvert	12"x66'	115
C-24	88+00	C.I. Pipe Culvert	12"x67'	115
C-25	92+00	C.I. Pipe Culvert	12"x69'	115

PIPE REMOVAL

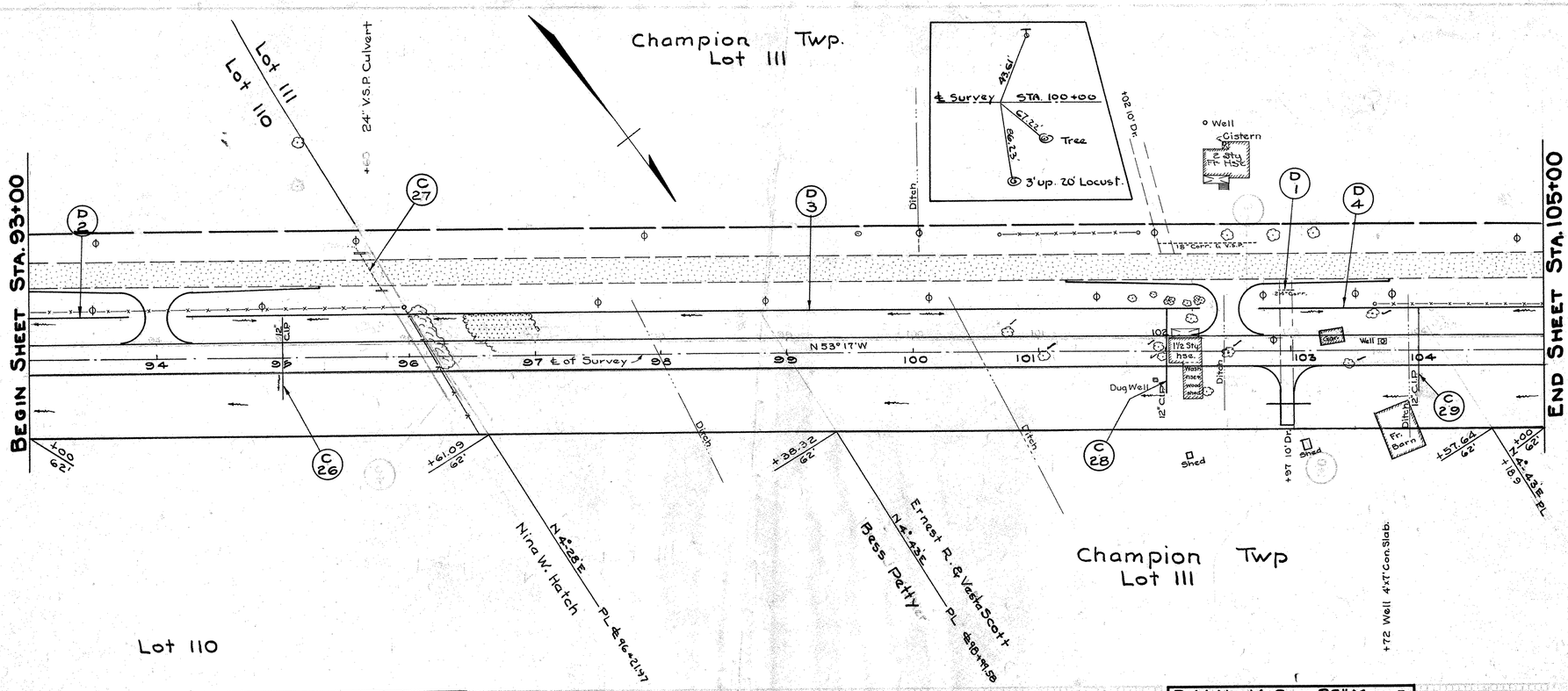
MARK	STATION FROM	STATION TO	SIDE	E-12 L.F. Stored 15" & Under	E-12 L.F. Stored Over 15"
D-1	85+27	85+55	R+L	74'	
D-2	85+75	85+91	L+		32
TOTALS				74	32

DRAINS

MARK	STATION FROM	STATION TO	SIDE	Chann Pipe L.F. 12"	I-55 spec for 12" Chan. Pipe Tees 12"x12"	I-3 L.F. 12"	I-55 spec for I-3 30° Bend 12"
D-3	81+66	84+30	L.	264			
D-4	87+20	93+00	L.	582	2		
D-5	81+00	81+40	L.	40			
D-6	81+39.4	81+49.1	L.			9	1
D-7	81+56.2	81+66.2	L.			10	
D-8	84+70	86+80	L.	211	1		
TOTAL				1097	3	19	1

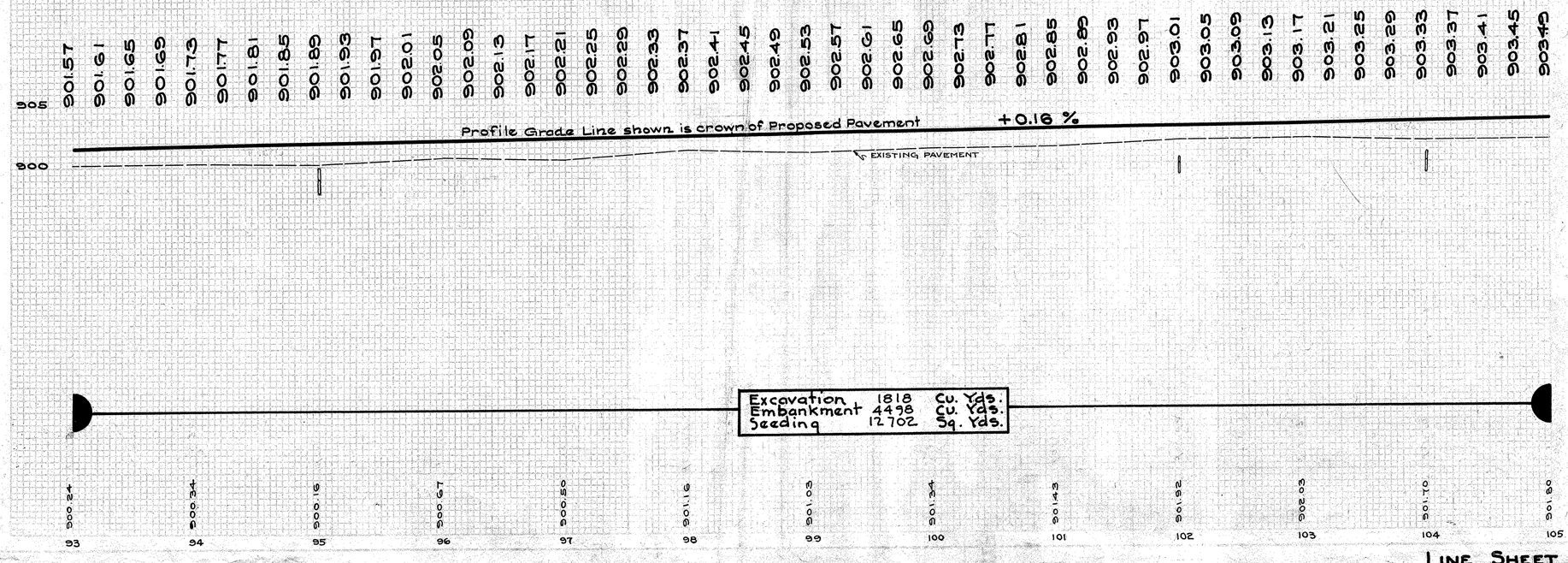
LINE SHEET STA. 81+00 TO STA. 93+00

TRUMBULL COUNTY
S.H. 325 SEC. B(PT)-C-D (PT.)



B.M. No. 13 Spk. 15" Hickory
170' Left Sta. 95+13
Elev. 900.67

B.M. No. 14 Spk. 36" Maple
90' Left Sta. 102+32
Elev. 902.77



Excavation	1818	Cu. Yds.
Embankment	4498	Cu. Yds.
Seeding	12702	Sq. Yds.

~DRIVES & APPROACHES~

	SIDE	STATION	I-17 SY	E-1 C.Y.	I-1 L.F. 24"		Detail Sheet No
	R	102+97	70	1	34		10
	℄	94+00	195				11
	℄	102+50	195				11
	Total		460	*	34		

* E-1 Carried to Cross Sections.

DRAINS

MARK	STATION FROM	STATION TO	SIDE	Chann. Pipe L.F. 12"	1-5 Spec. for 12" Chan. Pipe Tees 12"x12"	
D-2	93+00	93+80	L	80		
D-3	94+26	102+30	L	813	2	
D-4	102+70	105+00	L	231	1	
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]				
	[illegible]	[illegible]				
	TOTALS.			1124	3	

~TREE REMOVAL~

STATION	SIDE	DIST. L	DIAM.	KIND
[illegible]	L	12'	10"	OAK
[illegible]	R	3'	[illegible]	[illegible]
[illegible]	L	3'	[illegible]	[illegible]
[illegible]	L	4'	18"	[illegible]
[illegible]	R	2'	12"	LOCUST
[illegible]	R	2'	12"	[illegible]
[illegible]	R	2'	16"	[illegible]
[illegible]	R	11'	18"	[illegible]
[illegible]	R	28'	12"	[illegible]
[illegible]				
[illegible]				
[illegible]				
TOTAL				9

~STRUCTURES 20' SPAN & UNDER~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-26	95+00	C.I. Pipe Culvert	12"x67'	11.5
C-27	95+71	V.S.P. Culvert	24"x35'-11"	14.2
C-28	102+00	C.I. Pipe Culvert	12"x67'	11.5
C-29	104+00	C.I. Pipe Culvert	12"x66'	11.5

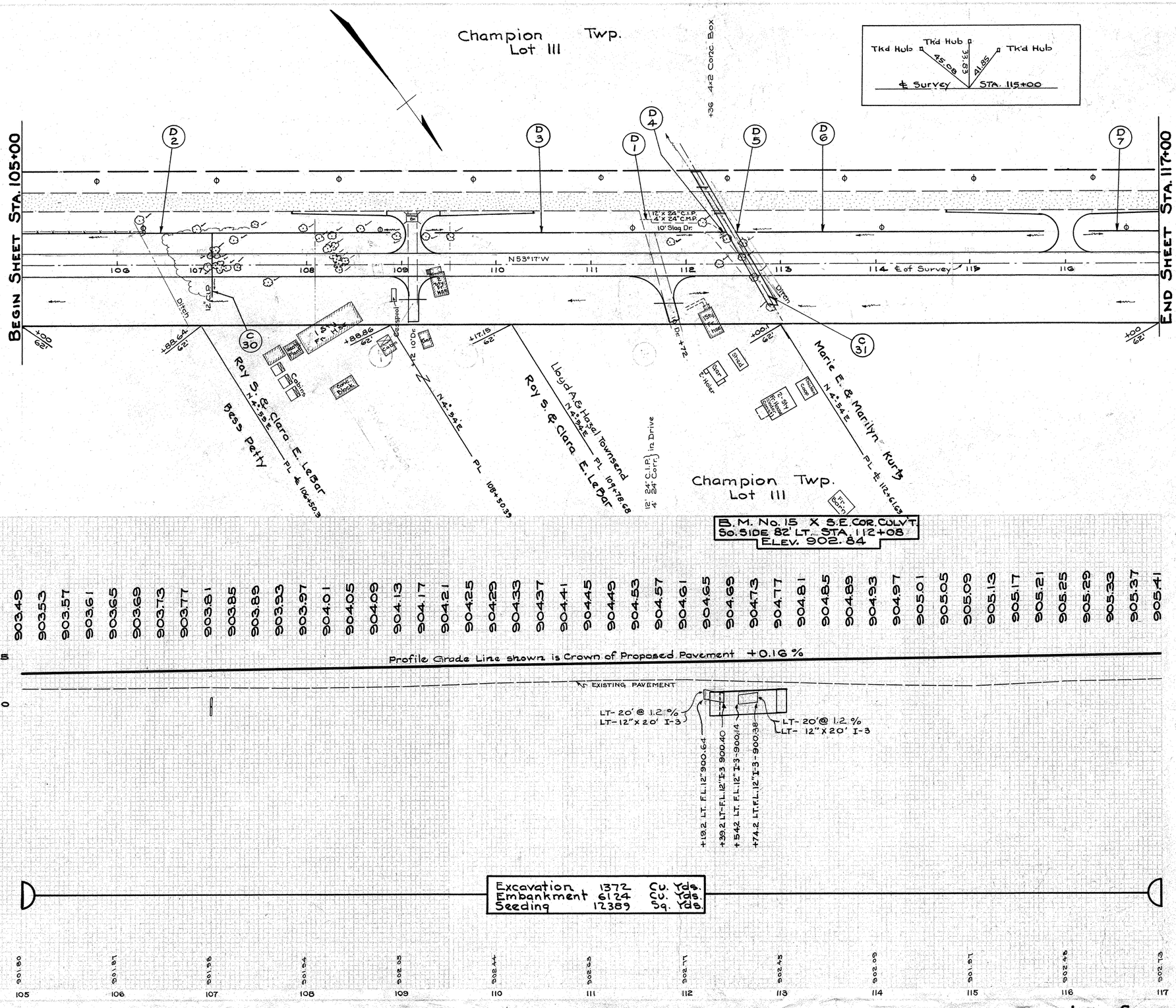
PIPE REMOVAL

MARK	STATION FROM	STATION TO	SIDE	E-12 Stored 15" & Under	E-12 Stored Over 15"	L.F.
D-1	102+89	103+05	Lt		16	
	TOTAL				16	

LINE SHEET STA. 93+00 TO STA. 105+00

2	OHIO F-41 (4)	1947	28	150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT)-C-D (PT.)



~ DRIVES & APPROACHES ~

E-1 C.Y.	SIDE	STATION	I-17 S.Y.	T-33 S.Y.	B-20 S.Y.	E-8 Seal'g L.F.	Detail Sheet No.	I-1 L.F. 15"	T-30 S.Y.	5" Gran. Slag Base S.Y.
1	℄	109+12	70				10	28		
1	R	111+72	123				10	30		
	℄	109+12	56	139	141	57	11		141	141
	℄	116+00	195				11			
*										
Total			444	139	141	57		58	141	141

* E-1 Carried to Cross Sections.

DRAINS

MARK	STATION FROM	STATION TO	SIDE	Chann. Pipe L.F. 12"	I-5 Spec. for 12" Chan. Pipe Tees 12"x12"	I-3 L.F. 12"	I-5 Spec. for I-3 90° Bend 12"	
D-2	105+00	108+92	L	391	1			
D-3	109+32	112+19	L	287				
D-4	112+19.2	112+39.2	L			20	1	
D-5	112+54.2	112+74.2	L			20		
D-6	112+74	115+80	L	306				
D-7	116+20	117+00	L	80				
	TOTAL			1064	1	40	1	

~TREE REMOVALS

S-24 REMOVAL

STATION	SIDE	DIST.	DESCRIPTION	S-24 REMOVAL LUMP	
109+12	L	50'	Wood Bridge	(1) Lump	
TOTALS				(1) Lump	*

* Quantity Carried to Structure Summary

~ STRUCTURES 20' SPAN & UNDER ~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO
C-30	107+00	C.I. Pipe Culvert	12" x 69'	115
C-31	112+67	Spec. Twin Box Culvert	4 x 2½" x 162'-10"	126, 127

PIPE REMOVAL

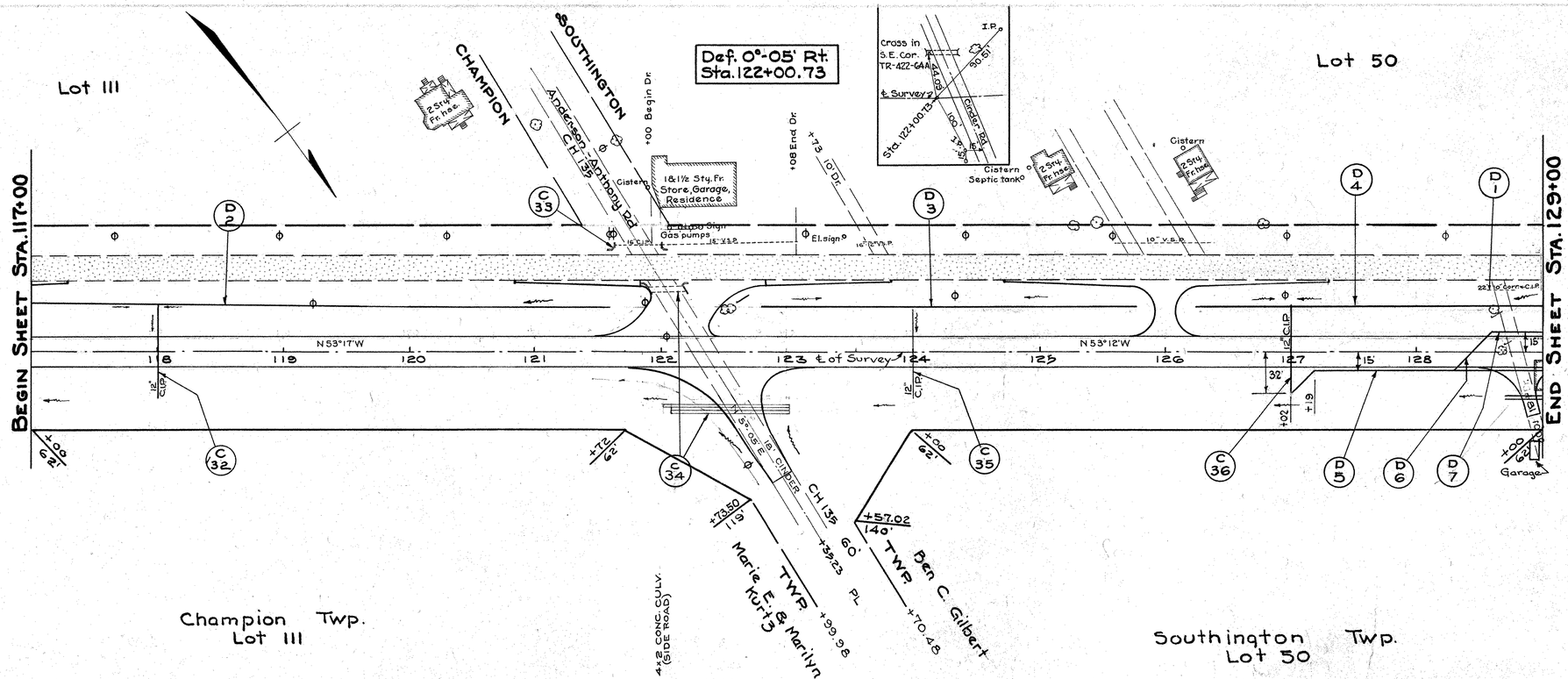
MARK	STATION FROM	STATION TO	SIDE	E-12 L.F. Stored 15" & Under	E-12 L.F. Stored Over 15"	
D-1	111+50	111+66	Lt.		16'	
TOTAL					16'	

Excavation	1372	Cu. Yds.
Embankment	6124	Cu. Yds.
Seeding	12389	Sq. Yds.

LINE SHEET STA. 105+00 TO STA. 117+00

Division	STATE	PROJECT	SHEET NO.	
2	OHIO	F-41 (4)	1947	29 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT)-C-D (PT.)



~DRIVES & APPROACHES~

E-1 C.Y.	SIDE	STATION	I-17 SY	T-33 S.Y.	B-20 S.Y.	E-8 Seal'g L.F.	Detail Sheet No.	I-1 L.F. 24"	I-30 S.Y.	6" Gran. Slag Base S.Y.
1	R	128+81	112				10	72		
	℄	126+00	195				11			
	R+L	122+35.3	129	631	634	99	107		634	634
*										
	Total		436	631	634	99		72	634	634

* E-1 Carried to Cross Sections.

PIPE REMOVAL

MARK	STATION FROM	STATION TO	SIDE	E-12 Stored 15" & Under	E-12 Stored Over 15"	
D-1	128+54	128+76	Lt.	22'		
TOTAL				22'		

~ STRUCTURES 20' SPAN & UNDER ~

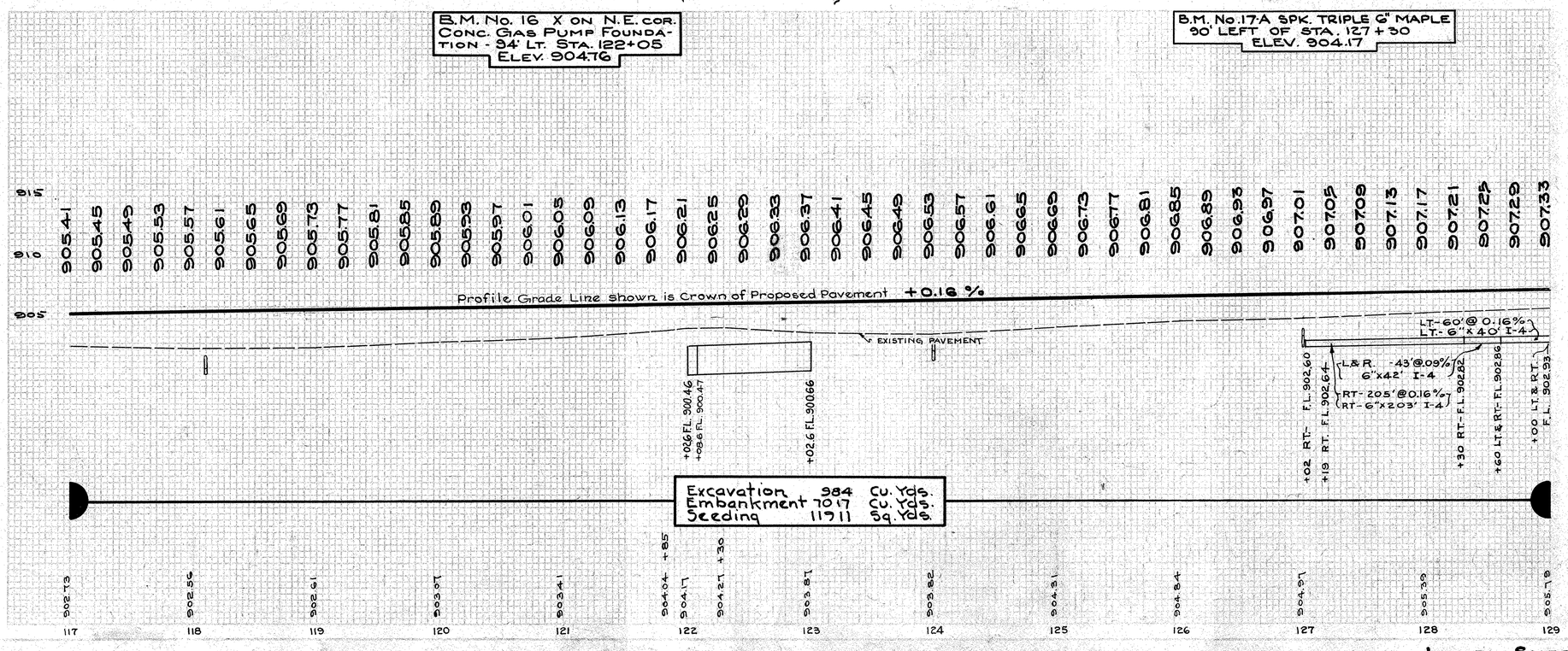
MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-32	118+00	C.I. Pipe Culvert	12"x71'	115
C-33	121+70	C.I.P. Culvert	16"x38'	No Work
C-34	122+63.6	Twin Pipe Culvert	2-30" @ 84 @ 100	128
C-35	124+00	C.I. Pipe Culvert	12"x71'	115
C-36	127+00	C.I. Pipe Culvert	12"x64'	115

DRAINS

MARK	STATION FROM	STATION TO	SIDE	Chann. Pipe L.F. 12"	I-3 Spec. for 12" Chan. Pipe Tees 12"x12"	I-4 L.F. Outlet Pipe 6"	I-4 L.F. 6"	I-5 Spec. for I-4 45° Bend 6"	I-5 Spec. for I-4 Y 6"	
D-2	117+00	121+60	L	459	1					
D-3	122+70	125+80	L	309	1					
D-4	126+20	129+00	L	280	1					
D-5	127+02	129+00	R			10	193	1	1	
D-6	128+30	128+60	L/R				42	1		
D-7	128+60	129+00	L				40			
	TOTALS			1048	3	10	275	2	1	

B.M. No. 16 X ON N.E. COR. CONC. GAS PUMP FOUNDATION - 94' LT. STA. 122+05 ELEV. 904.76

B.M. No. 17-A SPK. TRIPLE 6" MAPLE 90' LEFT OF STA. 127+30 ELEV. 904.17



Excavation 984 Cu. Yds.
Embankment 7017 Cu. Yds.
Seeding 11711 Sq. Yds.

LINE SHEET STA. 117+00 TO STA. 129+00

Division	State				
12	OHIO	F-41 (4)	1947	30	150

TRUMBULL COUNTY
S.H. 325 SEC. B.(PT.)~C~D (PT.)

Southington Twp. Lot 50

SCALE ~ 1" = 50'

+74 12" V.S.P. Culv.

House 245'

+10 16" Dr.

+17 Begin Dr. Roadside Stand

+82 End Dr.

16" Elm, 24" Pin Oak, 8" Maple, 47.5', 23.2', 33.2'

℄ Survey P.O.T. STA 137+93.70

H. J. & R.C. Fusselman

P.L. 137+87.53

R. 5th P. Hse.

+17 10" Dr.

+10 12" V.S.P. Culvert

18' Gravel Sta. 137+93.14 N 84°-55' W

C.H. 208 Lot 50 Lot 49

BEGIN SHEET STA. 129+00

END SHEET STA. 141+00

D-1 D-2 D-3 D-4 D-5 D-6 D-7 D-8 D-9 D-10 D-11 D-12 D-13

C-37 C-38 C-39 C-40

10" V.S.P.

15" C.I.P.

Sta. 133+10 Dr.

Well

Tool Shed

Shed

2-Holer

+16 Dug well

+50 4" tile drain

Barn

N 53°12'W

℄ Survey

+22.58 62'

+70.58 62'

+55.14 62'

+88 Dr.

Dora I Sutton N 4°59' E PL 132+84.11

Ben C. Gilbert

Fred E. Stroup N 4°39' E PL 134+32.11

Lot 50 Lot 49

Fred E. Stroup

Southington Twp. Lot 50

Southington Twp. Lot 49

~DRIVES & APPROACHES~

E-1 C.Y.	SIDE	STATION	I-17 SY	T-33 S.Y.	B-20 S.Y.	E-8 Scol'g L.F.	I-1 12"	I-1 L.F. 27"	T-30 S.Y.	5" Gran Slag Base S	Detail on Sht. No.
1	R	133+45	108					58			10
1	R	137+88	59				42				10
	℄	133+25	195								11
	℄	137+93.14	28	209	213	147			213	213	108
*											
TOTAL			390	209	213	147	42	58	213	213	

* E-1 carried to Cross Sections.

PIPE REMOVAL

MARK	STATION FROM	STATION TO	SIDE	E-12 L.F. Stored 15" & Under	E-12 L.F. Stored Over 15"
D-1	129+50	129+72	R+L	75	
D-2	133+02	133+36	Lt.	34	
D-3	137+81	137+97	Lt.	16	
TOTAL				125	

B.M. No. 17 Spk. in Pole 90' Left of Sta. 133+77 Elev. 909.96

Profile Grade Line shown is crown of proposed pavement

400' V.C. P.I. STA. 131+0 EL. 907.65

907.33 907.37 907.43 907.49 907.56 907.64 907.73 907.82 907.93 908.04 908.17 908.30 908.44 908.59 908.75 908.91 909.09 909.27 909.45 909.63 909.81 909.99 910.17 910.35 910.53 910.71 910.89 911.07 911.25 911.43 911.61 911.79 911.97 912.15 912.33 912.51 912.69 912.87 913.05 913.23 913.41 913.59 913.77 913.95 914.13 914.31 914.49 914.67 914.85

915 910 905

+0.16%

+0.72 %

LT. & RT. - 400' @ 0.16% LT. & RT. - 6" x 400' I-4

C-39

15' LT. 666' @ 0.64% 6" x 666' I-4

RT. 800' @ 0.64% 6" x 800' I-4

LT-10' @ 1.6% LT-12' x 10' I-3

LT-10' @ 3.2% LT-12' x 10' I-3

STA. 139+66-15' LT. TO 141+30-79' LT. 160.5' @ 0.4% — 6" x 160.5' I-4

+00 LT & RT. I-4 902.93

+00 LT & RT. I-4 903.57 +04 F.L. El. 906.63

15" x 42' C.I.P. 33' LT.

+46 F.L. El. 906.99

+00 F.L. 12" 911.26 +09.6 F.L. 12" 911.00 +12 F.L. 12" 911.00 +21.3 F.L. 12" 911.42

+66 15' LT F.L. 907.83

+30 79' LT F.L. 908.19

+00-79' LT F.L. 908.41 +00-RT F.L. 908.69

SCALES ~ 1" = 5' VERT. 1" = 50' HOR.

Excavation	5610	Cu. Yds.
Embankment	1221	Cu. Yds.
Seeding	11260	Sq. Yds.

905.19 906.11 906.74 907.20 908.40 910.04 911.23 913.24 914.09 914.46 914.06 913.91 914.60

129 130 131 132 133 134 135 136 137 138 139 140 141

~ STRUCTURES 20' SPAN & UNDER ~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO
C-37	129+77.2	Pipe Culvert (Exten.)	12" x 17'	129
C-38	133+00	C.I. Pipe Culvert	15" x 53'	115
C-39	133+04	C.I. Pipe Culvert	15" x 42'	115
C-40	140+11.8	Std. Pipe Culvert	15" x 114'	130

DRAINS

MARK	STATION FROM	STATION TO	SIDE	Chan. Pipe L.F 12"	I-3 L.F. 12"	I-5 Spec. for 12" Chan Pipe Tees 12"-12"	I-5 Spec. for I-3 30° Bend 12"	I-5 Spec. for I-4 45° Bend 6"	I-4 L.F. 6"
D-4	129+00	132+25	L	325		1			
D-5	132+75	133+04	L	27		1			
D-6	133+46	138+60	L	514					
D-7	139+17	140+00	L	83					
D-8	140+21.3	141+00	L	79					
D-9	140+00	140+09.6	L		10		1		
D-10	140+12	140+21.3	L		10		1		
D-11	129+00	139+66	L						1066
D-12	129+00	141+00	R						1200
D-13	139+66	141+00	L					2	159
TOTAL				1028	20	2	2	2	2425

LINE SHEET STA. 129+00 To STA. 141+00

DIVISION 2 | STATE OHIO | F-41 (4) 1947 | 31 | 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT)-C-D(PT.)

Southington Twp.
Lot 49

Charles A. & Pearl Fenkell

Hollis A. Fieldhouse

DELTA 12°-48' LT
0°-24'
1606.72'
89.8'
3200.00'
14323.95

STA. 159+72.68

BEGIN SHEET STA. 141+00

END SHEET STA 153+00

P.C. 143+65.96

P.C. - STA. 143+65.96

Brush 1'-6" Thorn bushes and briars

R.A. & B.M. Roberts

H.A., HD & R.L. Fieldhouse

Barn

Shed

Coop

Septic Tank

Well

Cistern

Gar

Grape arbor

Stone water trough

Septic Tank

2 Cisterns

We. Stn. Pr. hse

4" Field tile

12"x40' C.I.P.

18" CIP

8"x62' C.I.P.

B.M. No. 18 Spk. 60" Oak
126' Left of Station 142+0
Elev. 912.86

B.M. No. 18A Spk. 12" Elm
140' Left Sta. 145+20
Elev. 911.43

B.M. No. 19 Spk. 18" Pine
87' Left Sta. 150+56
Elev. 924.88

~DRIVES & APPROACHES~

SIDE	STATION	I-17 SY	T-33 S.Y.	P-20 S.Y.	E-1 C.Y.	I-1 L.F. 12"	I-1 L.F. 15"	T-30 S.Y.	5" Gran. Slag Base S.Y.	Detail On Sht. No.
R	142+32	112			2	40				110
L	150+96	75			1		32			110
L	151+86	47			1		30			110
℄	142+20	195								111
℄	151+00		114	114				114	114	108
Total		429	114	114	*	40	62	114	114	

* E-1 Carried to Cross Sections.

DRAINS

MARK	STATION FROM	STATION TO	SIDE	I-3 L.F. 15"	I-4 L.F. Outlet Pipe 6"	I-4 L.F. 6"
D-3	141+00	142+00	L			100
D-4	141+00	142+00	R			100
D-7	146+21	146+31	L	10		
TOTAL				10		200

PIPE REMOVAL

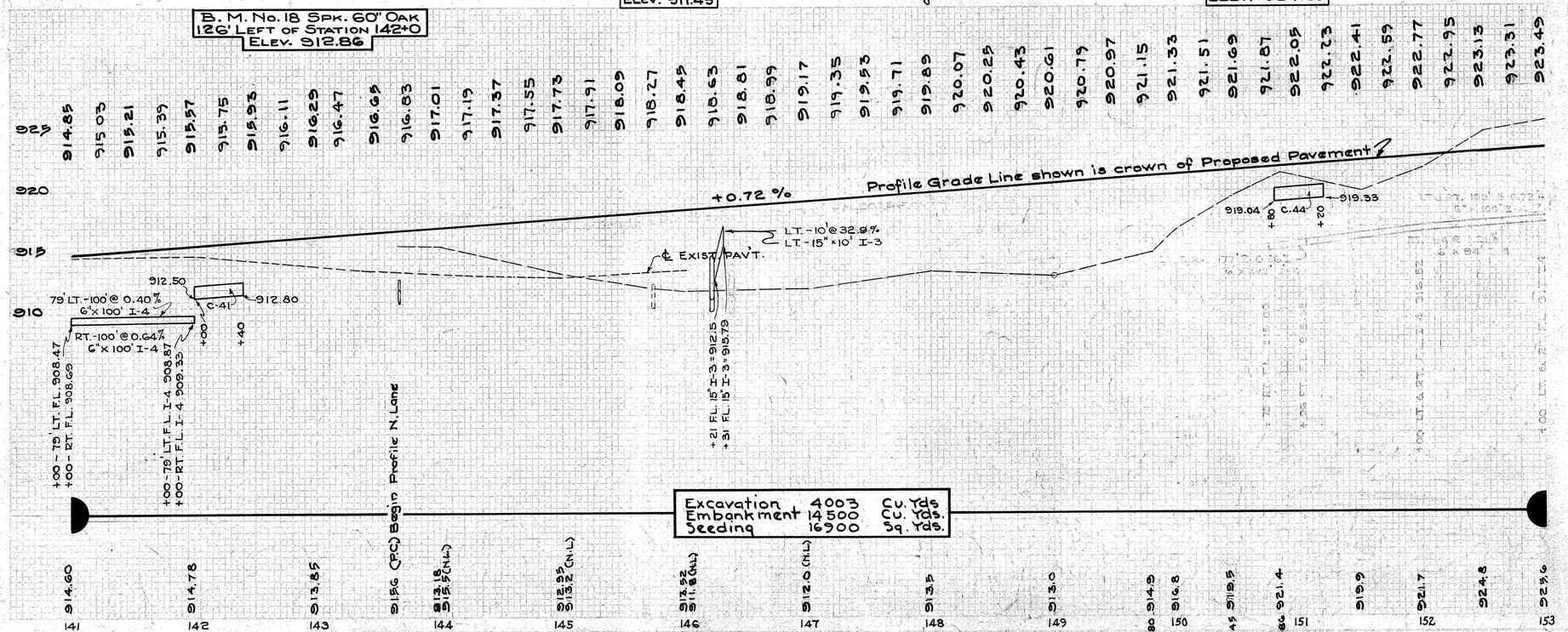
MARK	STATION FROM	STATION TO	SIDE	E-12 L.F. Stored 15" & Under	E-12 L.F. Stored Over 15"
D-1	141+85	141+97	L	12	
D-2	142+12	142+28	L	16	
TOTAL				28	

GUTTERS

MARK	STATION FROM	STATION TO	SIDE	L-10 WIDTH L.F.	L-10 S.Y.
G-1	145+70	150+50	L	7	373.3
TOTAL					373.3

~STRUCTURES 20' SPAN & UNDER~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO
C-41	142+00	C.I. Pipe Culvert	12"x40'	115
C-42	143+67	C.I. Pipe Culvert	12"x62'	115
C-43	146+38	Std. Pipe Culvert	42"x16.5'	131
C-44	150+80	C.I. Pipe Culvert	12"x40'	115

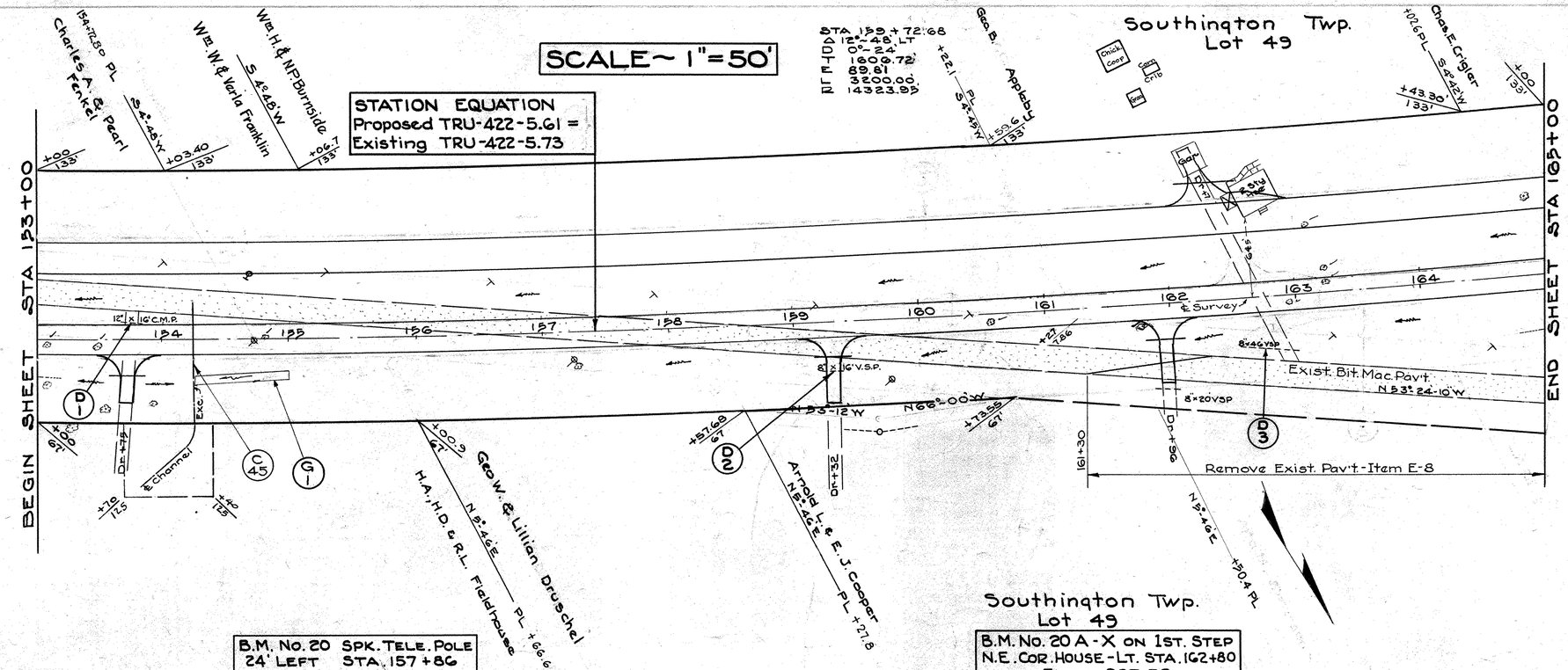


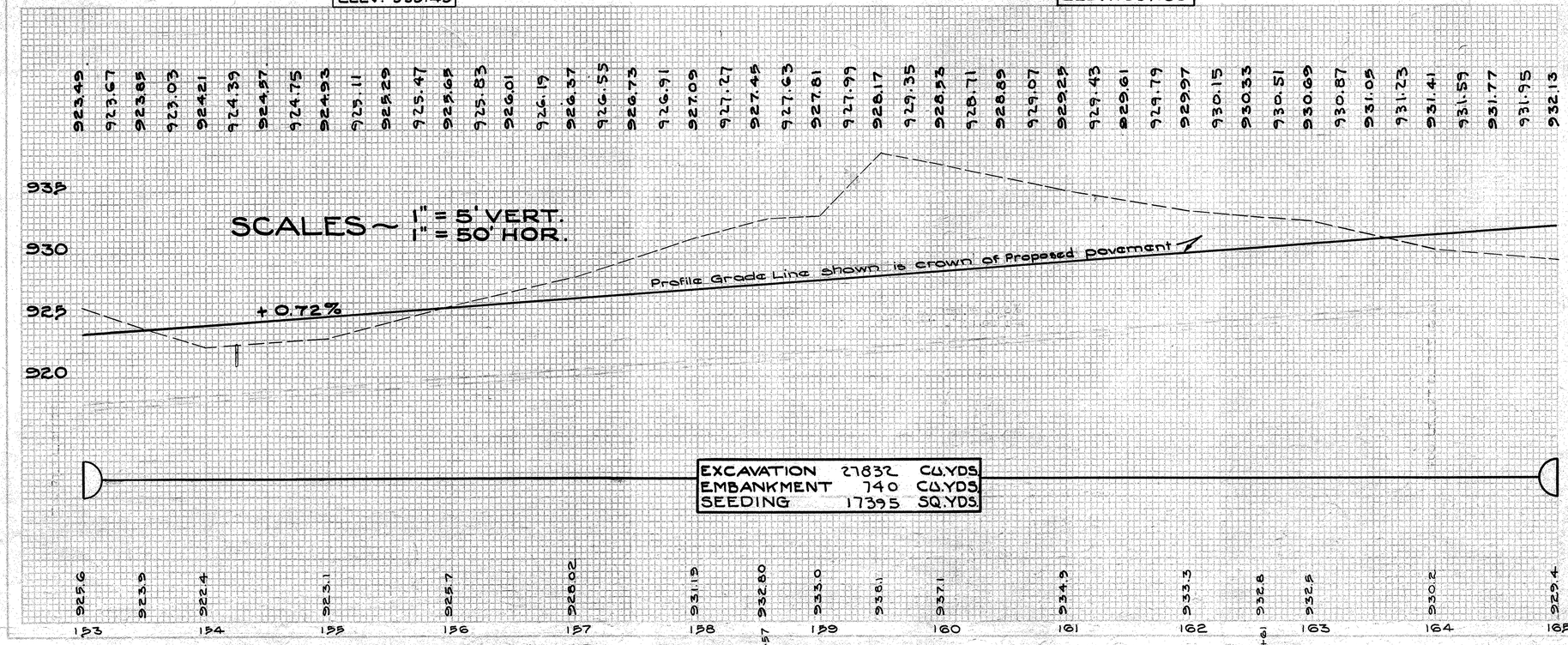
Excavation	4003	Cu. Yds.
Embankment	14500	Cu. Yds.
Seeding	16900	Sq. Yds.

LINE SHEET STA. 141+00 TO STA. 153+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR	
2	OHIO	F-41(4)	1947	32 / 150

TRUMBULL COUNTY
SH 325 SEC B(PT)-C-D(PT)





EXCAVATION	27832	CU.YDS.
EMBANKMENT	740	CU.YDS.
SEEDING	17395	SQ.YDS.

~ DRIVES & APPROACHES ~

SIDE	STATION	I-17 SY	E-1 C.Y.	I-1 L.F. 12"	Detail Sheet No
R	153+75	59	1	28	10
R	159+32	75	5	30	10
R	161+96	59	3	30	10
L	162+71	136		46	10
Total		329	*	134	

* E-1 Carried to Cross Sections

PIPE REMOVAL

MARK	STATION FROM	STATION TO	SIDE	E-12 L.F. Stored 15" & Under	E-12 L.F. Stored Over 15"
D-1	153+66	153+82	L	16	
D-2	159+28	159+44	R	16	
D-3	162+54	163+00	R	46	
TOTALS				78	

GUTTERS

MARK	STATION FROM	STATION TO	SIDE	L-10 WIDTH L.F.	L-10 S.Y.
G-1	154+25	155+00	R	7	58.3
TOTAL					58.3

STRUCTURES 20' SPAN & UNDER

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-45	154+25	C.I. Pipe Culvert	12" x 60'	115

PAVEMENT REMOVAL

STATION FROM	STATION TO	SIDE	DISPOSAL PAV'T. S.Y.
161+30	165+00	R	718
TOTALS			718

LINE SHEET STA 153+00 To 165+00

DIVISION	STATE	PROJECT	FISCAL YEAR	
2	OHIO	F-41 (4)	1947	33 150

TRUMBULL COUNTY
SH 329 SEC B(PT)~C~D (PT.)

Southington Twp.
Lot 49

SCALE 1" = 30'

Coop
Chicken House
Ch. Ho
Chas. E. Crigler
Blanch I. Crossland
Calvin H. & A. Leiby
J.F. & E.E. Ramsey
Howard E. Simpson
Gar
Brick semi-Bungalow
Cedar Post
Well
Block Fan
Comp
Hedge Fence
1-Sty Br. Hse.
Geo. B. Appleby
Lot 49
South Lane
North Lane
℄ Pav't
℄ of Survey N 66°-00' W.
EXISTING PAVEMENT 20' BIT. MAC.
Remove Exist. Pav't Item E-8.
BEGIN SHEET STA 165+00
END SHEET STA 177+00

10" Apple
31.18'
℄ Survey
P.C.C. STA. 175+65.96
4.29
8" Apple
28.19'
10" Apple
P.C.C. (Temporary) & P.T. 175+65.96

B.M. No. 20 B X N.W. COR. CULV'T. HD. WALL 100' RT. STA. 166+58 ELEV. 931.07

B.M. No. 21 X N.E. COR. CONC. SLAB TO HOUSE. RT. OF STA. 169+52 ELEV. 935.51

B.M. No 21 A SPK. 10" APPLE 125' RIGHT STA. 175+00 ELEV. 946.76

CURVE DATA
P.I. STA. 159+72.68
Δ = 12°48' LT.
D = 0° 24'
T = 1606.72'
L = 3200.00'
E = 69.81'
R = 14323.95'

℄ Curve Data for temporary approach from N.B. Lane to S.B. Lane. 24' Wide.
P.C.C. Sta. 175+65.96 P.T. Sta. 177+18.20
Δ = 12°08' R = 1432.40' D = 4°-0'
T = 152.24' E = 8.06'
See Sheet No. 9

~ DRIVES & APPROACHES ~

MARK	SIDE	STATION	I-17 S.Y.	T-33 S.Y.	B-20 S.Y.	E-8 SEAL'G L.F.	DETAIL SHEET NO.	T-30 S.Y.	5" Gran Slag Base S.Y.
	R&L	165+50		445	448	20	109	448	448
TOTAL				445	448	20		448	448

DRAINS

MARK	STATION FROM	STATION TO	SIDE	I-3 L.F. 15"	I-4 L.F. Outlet Pipe 6"	I-4 L.F. 6"	I-5 Spec for I-4 45° Bend 6"	I-5 Spec for I-4 45° Bend 15"	I-5 Spec for I-3 90° Bend 15"	
D-4	169+50	177+00	L		10	766	1	1		
D-5	175+70	176+00	L			41	1			
D-6	176+00	177+00	L			100				
D-8	167+09	167+21	L	12						
D-9	167+26	167+38	L	10					2	
TOTAL				22	10	907	2	1	2	

PIPE REMOVAL

MARK	STATION FROM	STATION TO	SIDE	E-12 L.F. Stored 15" & Under	E-12 L.F. Stored Over 15"	
D-1	165+32	165+72	L	42		
D-2	165+26	166+63	L/R	190		
D-3	169+11	169+34	L	58		
TOTAL				290		

~ STRUCTURES 20' SPAN & UNDER ~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-46	167+07.4	Std. Pipe Culvert	42"×166'-6"	132

GUTTERS

MARK	STATION FROM	STATION TO	SIDE	L-10 WIDTH L.F.	L-10 S.Y.
G-1	166+87	172+00	R	7	399.0
G-2	167+70	172+00	L	7	334.4
TOTALS					733.4

PAVEMENT REMOVAL

STATION FROM	STATION TO	SIDE	DISPOSAL PAV'T S.Y.		
165+00	166+07	R	222		
TOTALS			222		

Profile grade line shown is Crown of Proposed Pavement

+0.72 %

79' TO 114' LT. 61' @ 0.77% 6"×61'-I-4

49' TO 79' LT. {42.4' @ 6.42% 6"×42.4 I-4

49' LT. 100' @ 0.72% 6"×100' I-4

79' LT. {700' @ 0.72% 6"×700' I-4

LT-12' @ 4.3% 15"×12' I-3

LT-12' @ 4.6% 15"×12' I-3

+109 F.L. 15" 930.78

+21 F.L. 15" 929.36

+26 F.L. 15" 929.36

+38 F.L. 15" 930.98

+50 LT. F.L. 929.00

+00 LT. I-4 = 929.48

+70 LT. F.L. 933.58

+100 LT. F.L. 936.30

+00 LT. { F.L. 937.02 F.L. 934.52

EXCAVATION 12211 CU.YDS.
EMBANKMENT 13196 CU.YDS.
SEEDING 16375 SQ.YDS.

LINE SHEET STA 165+00 TO 177+00

DIVISION	STATE	PROJECT	SHEET	34
2	OHIO	F-41(4)	1947	150

TRUMBULL COUNTY
SH 325 SEC B(PT)-C-D(PT.)

SCALE~1"=100'

Southington Twp.
Lot 47

Lot 49

BEGIN SHEET STA 177+00

END SHEET STA 202+00

Howard E. Simpson

Land D. Fowler

Leo & Ruth Robinson

Ida Pinter
N 64°-44 W PL

B. & Ann Kovach

Paul Peddow

Begin Curve & thirty

Tkd. Hub
Tkd. Hub
Tkd. Hub
℄ Survey
P.O.T. STA. 180+00
82.55'
46.15'
38.05'
Case
Case

Sta. 182+60.04
CH 123

N 68°-00 W

℄ of Survey

12" C.I.P.
15" C.I.P.

END OF SEC. B
BEGIN SEC. C

Laurel C. & C.C. ℄
Harold E. Leiby

Land D. Fowler

Russel Bonnell et al

CH 123 16' CINDER

N 42°-84.5 E PL

N 42°-84.5 E PL

Stump

DRAINS

MARK	STATION FROM	STATION TO	SIDE	I-4 L.F. 6"	I-3 L.F. 12"	I-5 Spec. for I-3 30° Bend 12"
D-1	177+00	181+00	L	400		
D-2	177+00	181+00	R	400		
D-3	187+58	187+70	L		10	2
TOTAL				800	10	2

℄ Curve Data for temporary approach from N.B.Lane to S.B.Lane. 24' Wide.
N.B.Lane P.C.C. Sta 175+65.96
P.I. Sta. 177+18.20 - P.R.C. Sta. 178+67.04
S.B.Lane P.I. Sta. 180+15.88
P.T. Sta. 181+68.12
P.C.-10'R. Sta 178+01.86
Δ = 12°-08' - R = 1432.40 - D = 4°-0'
T = 152.24' - E = 8.06'
See Sheet No. 9

5" Ash
6" Hickory
7.66'
8.11'
℄ Survey
P.O.T. STA. 201+33.39
57.50'
Root 30" W. Oak

B.M. No. 23 X ON S.E. COR. 1st. STEP OF CHURCH RT OF STA. 183+15
ELEV. 942.42

B.M. No. 24 SPK. 12" PIN OAK 300' LEFT STA. 190+00
ELEV. 928.08

Southington Twp.
Lot 47

GUTTERS

MARK	STATION FROM	STATION TO	SIDE	L-10 WIDTH L.F.	L-10 S.Y.
G-1	183+50	188+20	R	7	365.6
G-2	184+50	187+15	L	7	206.1
G-3	188+30	189+00	R	12	93.3
G-4	194+00	202+00	R	9	800.0
TOTALS					1465

~ STRUCTURES 20' SPAN & UNDER ~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-47	182+11	C.I. Pipe Culvert	12" x 70'	115
C-48	187+93	Std. Pipe Culvert	42" x 174'	133
C-49	190+00	C.I. Pipe Culvert	12" x 70'	115
C-50	194+00	C.I. Pipe Culvert	15" x 66'	115

APPROACHES

Station	T-33 S.Y.	T-30 S.Y.	B-20 S.Y.	5" Gran. Slag Base S.Y.	I-17 S.Y.		Detail Sheet No.
182+60.04	307	309	309	309	298		110
Total	307	309	309	309	298		

SCALES ~ 1" = 10' VERT.
1" = 100' HOR.

Profile Grade Line Shown is Crown of Proposed Pavement

+0.72% -0.64% +1.04%

℄ C-47

45' ℄ 79' LT. 400' @ 0.40%
6" x 400' I-4

600' V.C.

2000' V.C.

LT. - 12' @ 35.3%
LT - 12" x 12' I-3

79' Lt. F.L. 934.52
49' Lt. F.L. 937.02

+00 LT. F.L. 936.12
F.L. 938.62

+11 F.L. EL. 938.60

12" x 70' C.I.P.

+81 F.L. EL. 938.30

+58 F.L. 12" 935.74
+70 F.L. 12" 931.5

EXCAVATION	23733	CU.YDS
EMBANKMENT	18538	CU.YDS
SEEDING	28772	SQ.YDS

940.77 940.94 941.10 941.25 941.38 941.49 941.60 941.68 941.76 941.82 941.86 941.89 941.91 V.I. 942.93 941.91 941.90 941.88 941.84 941.78 941.72 941.63 941.54 941.43 941.30 941.16 941.01 940.55 940.69 940.53 940.37 940.21 940.06 939.91 939.7 939.64 939.50 939.38 939.26 939.14 939.03 938.93 938.83 938.73 938.64 938.56 938.48 938.41 938.34 938.28 938.22 938.17 938.12 938.07 938.04 938.01 937.98 937.96 937.95 937.94 937.93 937.93 937.94 937.95 937.96 937.99 938.01 938.04 938.08 938.12 938.17 V.I. 933.97 938.22 938.28 938.34 938.41 938.43 938.49 938.56 938.65 938.74 938.84 938.93 939.04 939.15 939.26 939.38 939.51 939.64 939.78 939.92 940.07 940.22 940.38 940.54 940.71 940.88 941.06 941.24 941.43 941.63 941.83 942.04 942.24 942.46

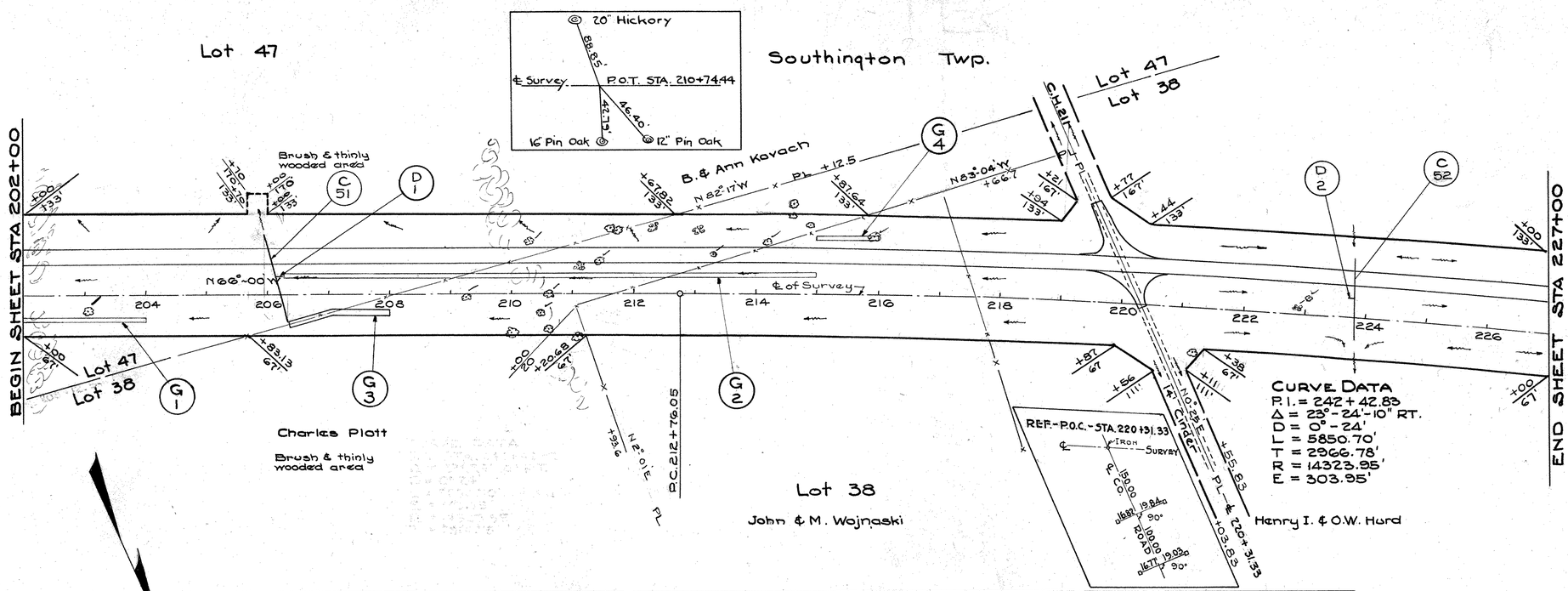
946.5 947.1 945.9 945.2 943.8 942.5 940.8 940.5 938.8 937.2 935.5 933.9 932.8 932.5 933.9 933.8 933.5 933.4 932.6 933.0 934.1 937.0 939.1 942.5 942.9 942.0 941.3 942.3 944.0 942.8

177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202

SH325 LINE SHEET STA 177+00 To 202+00

DIVISION	STATE	PROJECT		SHEET NO.
2	OHIO	F-41 (4)	1547	35 150

TRUMBULL COUNTY
SH 329 SEC B(PT)-C-D (PT.)



DRAINS					
MARK	STATION FROM	STATION TO	SIDE	I-3 L.F. 12"	I-3 L.F. 15"
D-1	206+13	206+23	L		10
D-2	223+69	223+79	L	10	
TOTAL				10	10

APPROACHES							
Station	T-33 S.Y.	T-30 S.Y.	B-20 S.Y.	5" Gran. Slag Base S.Y.	1-17 S.Y.		Detail Sheet No.
220+31.33	351	355	355	355	243		111
Total	351	355	355	355	243		

GUTTERS					
MARK	STATION FROM	STATION TO	SIDE	L-10 WIDTH L.F.	L-10 S.Y.
G-1	202+00	204+00	R	7	155.6
G-2	206+23	215+00	L	8	779.6
G-3	206+36	208+00	R	9	164.0
G-4	215+00	216+00	L	7	77.8
TOTALS					1177.0

~ STRUCTURES 20' SPAN & UNDER ~				
MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-51	206+20	Std. Pipe Culvert	24"x130'	134
C-52	223+82	Std. Pipe Culvert	24"x126'	135

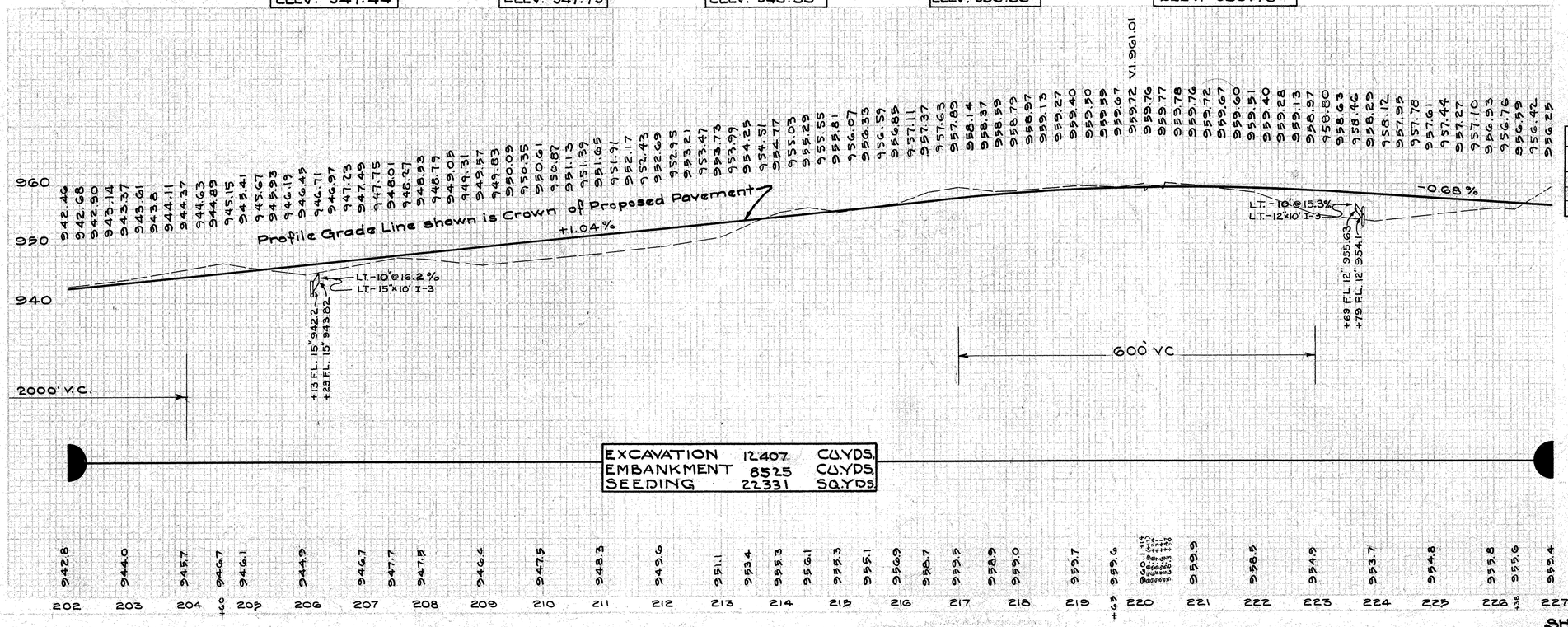
B.M. No. 25 SPK. 18" HICKORY
200' RT. STA. 202+40
ELEV. 947.44

B.M. No. 26 SPK. 10" ELM
100' RT. STA. 206+50
ELEV. 947.79

B.M. No. 27 SPK. 18" HICKORY
53' LEFT STA. 211+43
ELEV. 948.53

B.M. No. 28 SPK. 18" ELM
95' LEFT STA. 215+91
ELEV. 956.56

B.M. No. 29 SPK. 15" PIN OAK
250' LEFT STA. 222+75
ELEV. 958.78



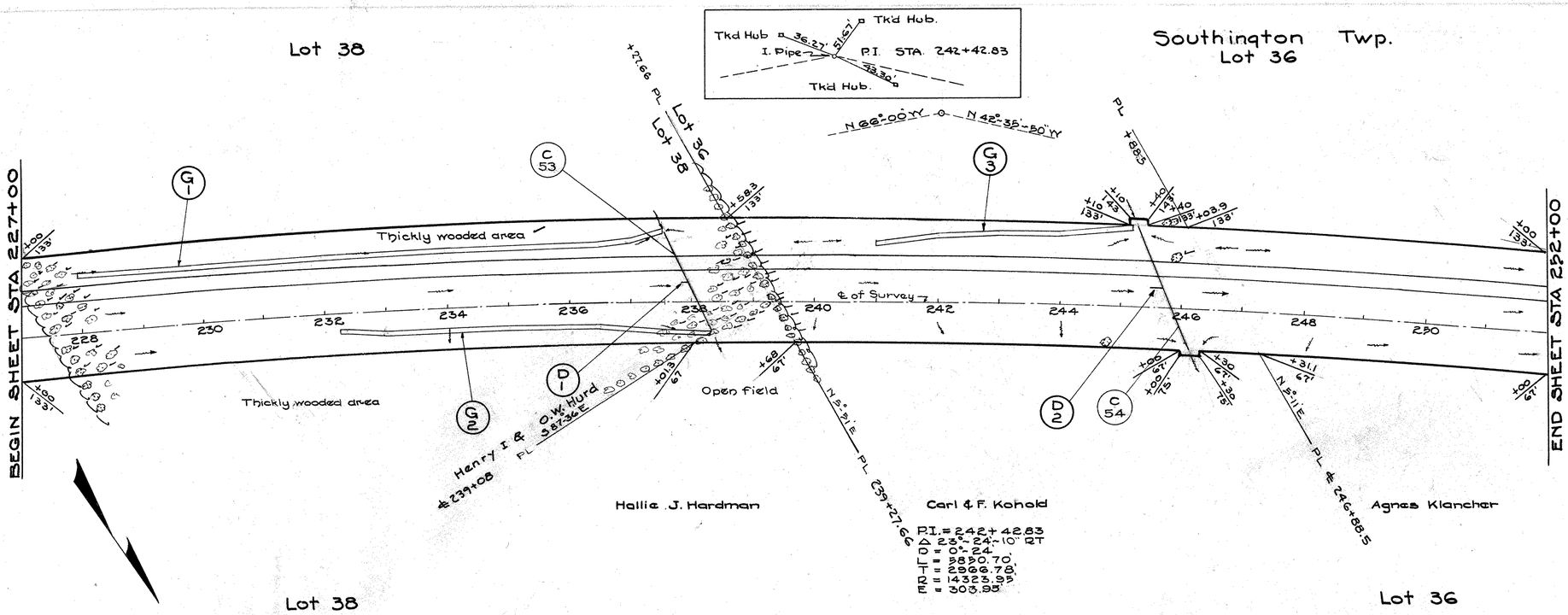
EXCAVATION	12407	CU.YDS.
EMBANKMENT	8525	CU.YDS.
SEEDING	22331	SQ.YDS.

SH 329 LINE SHEET STA 202+00 To 227+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41 (4)	1947

36
150

TRUMBULL COUNTY
SH 325 SEC B(PT)~C~D (PT.)



DRAINS

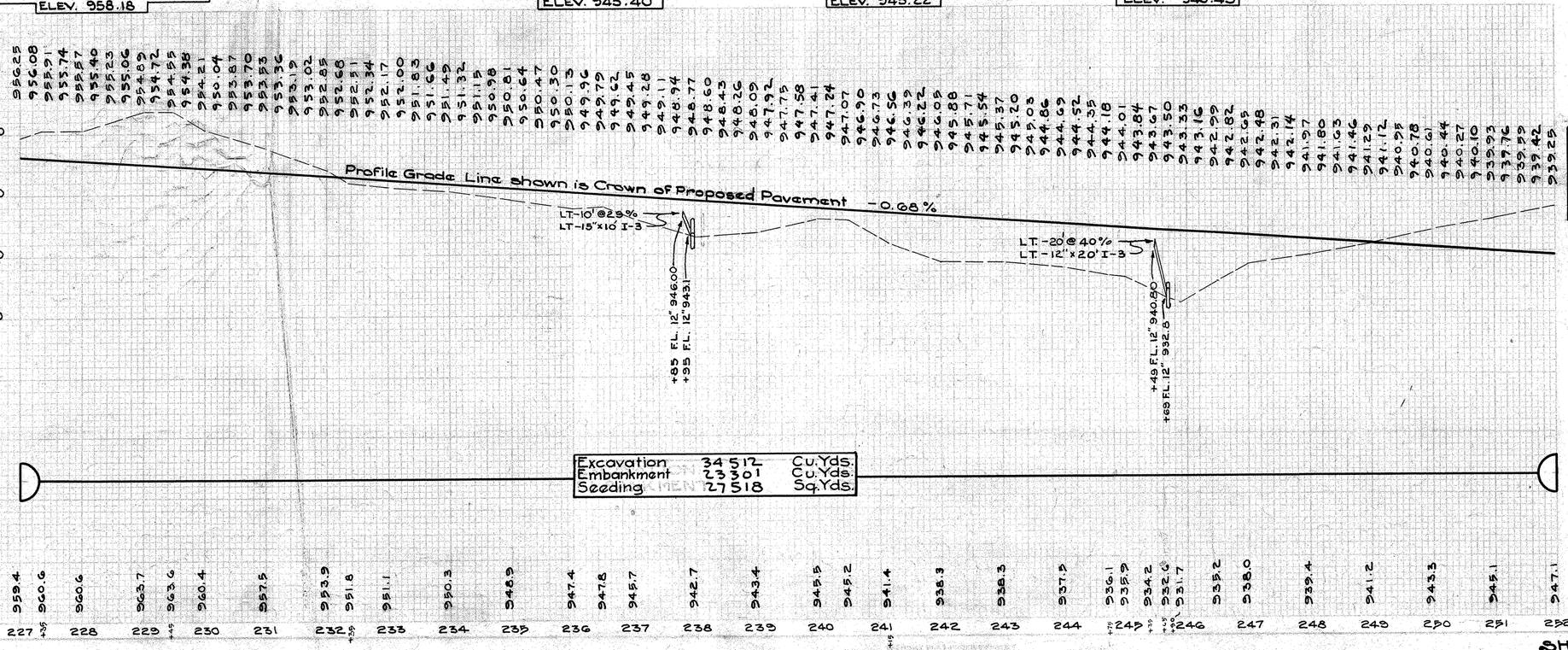
MARK	STATION FROM	STATION TO	SIDE	I-3 L.F. 12"	I-3 L.F. 15"	
D-1	237+85	237+95	L		10	
D-2	245+49	245+69	L	20		
		TOTAL		20	10	

B.M. No. 30 SPK. 18" PIN OAK
90' RIGHT STA. 227+90
ELEV. 958.18

B.M. No. 31 SPK. 18" TWIN HICKORY
140' RIGHT STA. 235+00
ELEV. 945.40

B.M. No. 32 SPK. 15" ELM
100' RIGHT STA. 240+00
ELEV. 943.22

B.M. No. 33 SPK. 8" CHERRY
150' LEFT STA. 245+90
ELEV. 940.45



GUTTERS

MARK	STATION FROM	STATION TO	SIDE	L-10 WIDTH L.F.	L-10 S.Y.
G-1	228+00	237+56	L	9	956
G-2	232+25	238+30	R	7	470.6
G-3	241+00	245+18	L	7	325.1
		TOTALS			1751.7

~ STRUCTURES 20' SPAN & UNDER ~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-53	238+13	Std. Pipe Culvert	30"x150'	136
C-54	245+83	Std. Pipe Culvert	36"x196'	137

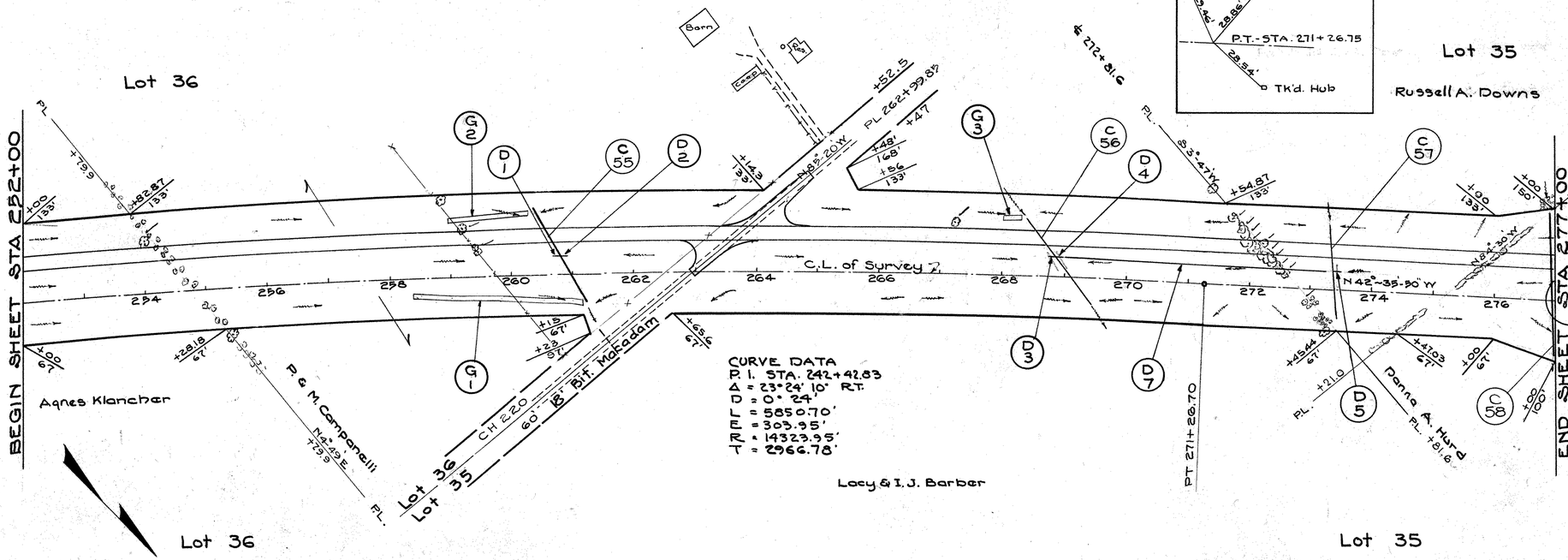
Excavation	34512	Cu. Yds.
Embankment	23901	Cu. Yds.
Seeding	27518	Sq. Yds.

SH 325 LINE SHEET STA 227+00 To 252+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR	37 / 150
2	OHIO	F-41(4)	1947	

TRUMBULL COUNTY
SH 325 SEC B(PT)~C~D(PT.)

Southington Twp.



DRAINS								
MARK	STATION FROM	STATION TO	SIDE	I-3 L.F. 12"	I-3 L.F. 15"	I-5 Spec for I-3 30° Bend 12"	I-5 Spec for I-3 30° Bend 15"	Chann. Pipe L.F. 12"
D-1	260+63	260+73	L		10			
D-2	260+79	260+89	L	8		2		
D-3	268+70	268+80	L	10				
D-4	268+84.5	268+94	L	8		2		
D-5	273+39.3	273+48.5	L	9		1		
D-6	276+97	277+00	L		2		1	
D-7	268+94	273+26	L					432
TOTALS				35	12	5	1	432

APPROACHES							
Station	T-33 S.Y.	T-30 S.Y.	B-20 S.Y.	5" Gran. Slag Base S.Y.	I-17 S.Y.	E-8 Seal. L.F.	Detail Sheet No.
262+99.85	688	694	694	694	18	36	112
Total	688	694	694	694	18	36	

B.M. No. 34 SPK. 20" OAK
70' RT. STA. 255+30
ELEV. 939.82

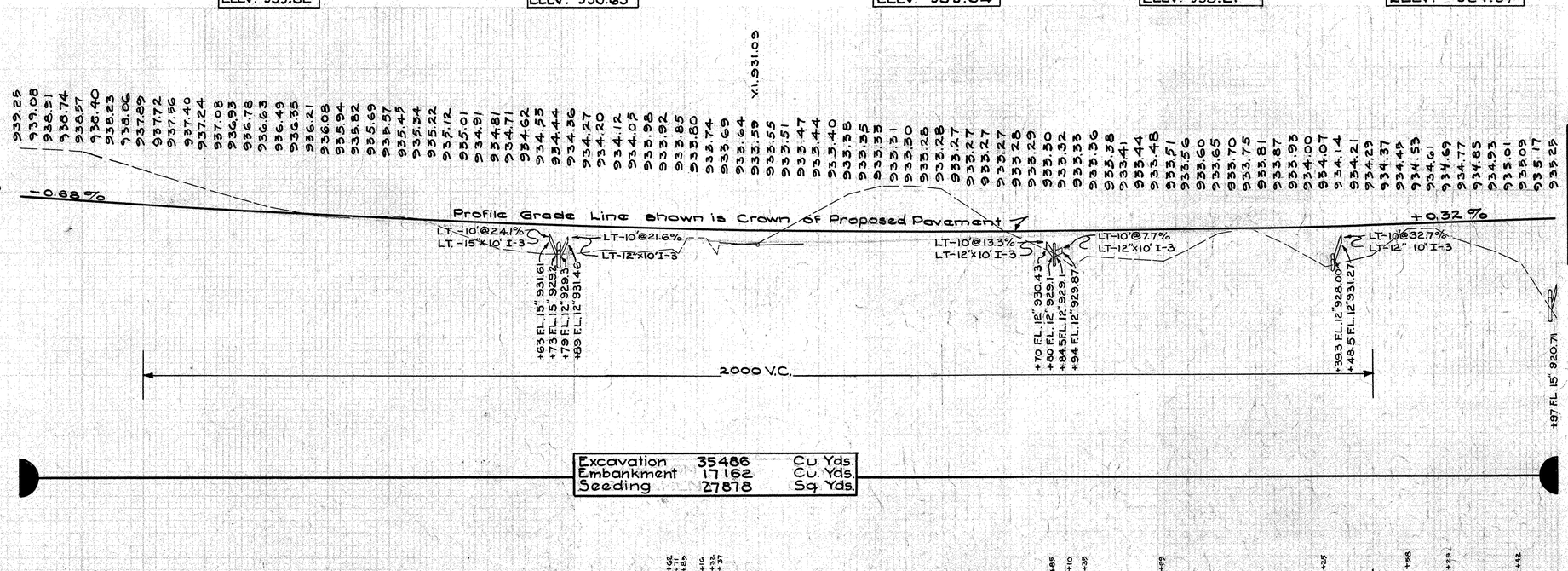
B.M. No. 35 SPK. 18" ELM
95' RIGHT STA. 260+40
ELEV. 930.65

B.M. No. 36 SPK. 24" HICKORY
125' RIGHT STA. 266+50
ELEV. 939.04

B.M. No 36A SPK. 18" PIN OAK
250' RIGHT STA. 271+30
ELEV. 935.21

B.M. No. 38 SPK. 10" TWIN MAPLE
150' LEFT STA. 276+80
ELEV. 924.37

GUTTERS					
MARK	STATION FROM	STATION TO	SIDE	L-10 WIDTH L.F.	L-10 S.Y.
G-1	258+40	261+15	R	7	213.9
G-2	259+00	260+30	L	7	101.1
G-3	268+00	268+28	L	7	21.8
TOTALS					336.8



~ STRUCTURES 20' SPAN & UNDER ~				
MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-55	260+93	Std. Pipe Culvert	36"x 149'	138
C-56	269+08	Std. Pipe Culvert	18"x 162'	139
C-57	273+41	Std. Pipe Culvert	21" x 142'	140
C-58	276+96.5	Std. Pipe Culvert	48" x 203'	141

Excavation	35486	Cu. Yds.
Embankment	17162	Cu. Yds.
Seeding	27878	Sq. Yds.

SH 325 LINE SHEET STA 252+00 To 277+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41(4)	1947

38
150

TRUMBULL COUNTY
SH 325 SEC B(PT)~C~D(PT.)

Southington Twp.
Lot 35

H.A. & Minnie B. Reed

Twin 6" Black Oak.
℄ Survey — P.O.T. - STA. 288+41.80
8" White Oak.
6" Pin Oak.

Francis & G.E. McAninch

10" Elm.
10" Maple.
8" Maple
℄ Survey — P.O.T. - STA 294+87
Thick wooded area

10" Pin Oak.
6"+10" Twin White Oak
℄ Survey — P.O.T. - STA. 299+98.90
10" Hickory.
Thick wooded area

Ivan A. Herner

Dana A. Hurd

BEGIN SHEET STA 277+00

END SHEET STA 302+00

(PL) +41.92
+78.13
+05.71
S.R. 534 9/9
S 24° 24' E
+44.17
205'
+60
150'
+77.18
197'
+52
150'
+00
150'
+00
100'
+10
67'
+72.17
35'
+77.17
67'
+83.27
67'
+77.18
67'
+00
100'
+00
150'
+00
100'
+33.16
137'
N 12° 56' E
+41.92 (PL)
Thick brush & 4"-6" Trs
PL. 288+52.5
Thick
PL. 294+47.2
Small Evergreen Trs Spac 6'-7'
PL S 64° 15' E
294+47.2 PL S 62° 30' E
N 42° 35' 50" W
C.L. of Survey
278 280 282 284 286 288 290 292 294 296 298 300
+75
N 5° 26' E
PL. 298+13.6

C 59 C 60 C 61 G 1 G 2 G 3 G 4 G 5 D 1 D 2

Dana A. Hurd
Francis & G.E. McAninch
H.H. Guthrie
Lot 35
Lot 26
Lot 35

B.M. No. 39 Spk. Power Pole
225' Right Sta. 283+40
Elev. 936.52

B.M. No. 40 Spk. 8" Pin Oak
75' Right Sta. 287+70
Elev. 946.68

B.M. No. 41 Spk. 15" Twin Hickory
85' Right Sta. 292+50
Elev. 937.29

B.M. No. 42 Spk. 15" Pin Oak
125' Right Sta. 298+40
Elev. 930.85

DRAINS

MARK	STATION FROM	STATION TO	SIDE	I-3 L.F. 15"
D-1	277+00	277+22	L	22
D-2	297+37	297+47	L	10
		TOTAL		32

APPROACHES

Station	T-33 S.Y.	T-30 S.Y.	B-20 S.Y.	5" Gran. Slag Base S.Y.	I-17 S.Y.	E-2 Seal L.F.	Detail Sheet No.
282+41.92	348	350	350	350	128	33	113
Total	348	350	350	350	128	33	

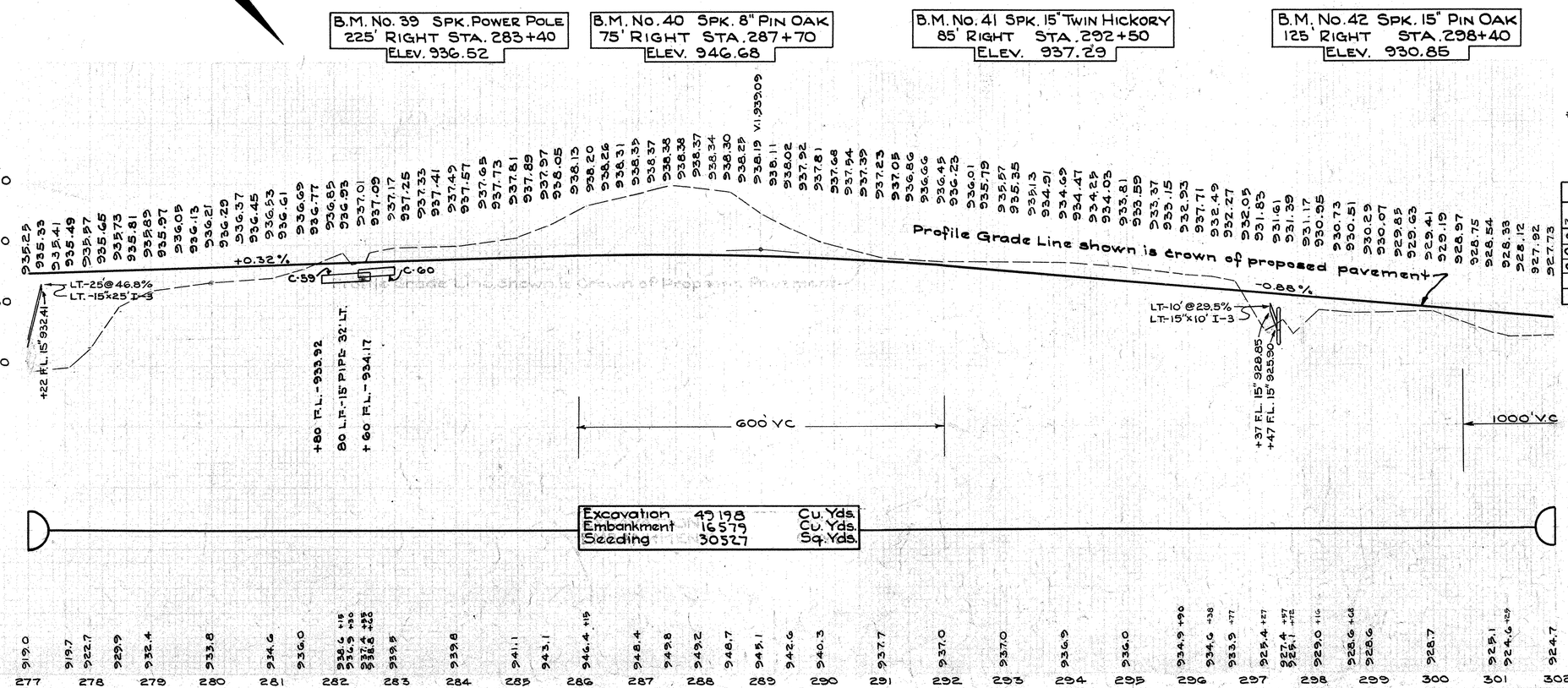
GUTTERS

MARK	STATION FROM	STATION TO	SIDE	L-10. SOD WIDTH L.F.	L-10. SOD S.Y.
G-1	277+10	280+00	R	7	225.6
G-2	296+35	296+82	L	7	36.6
* G-3	296+50	297+60	L	7	85.6
G-4	297+25	298+44	R	7	92.6
G-5	300+00	302+00	L	7	155.6
		TOTALS			596.0

* Gutter is an interceptor.

~ STRUCTURES 20' SPAN & UNDER ~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-59	281+80	C.I. Pipe Culvert	15"x80'	115
C-60	282+61.49	Std. Pipe Culvert	15"x60'	142
C-61	297+90	Std Pipe Culvert	30"x205'	143

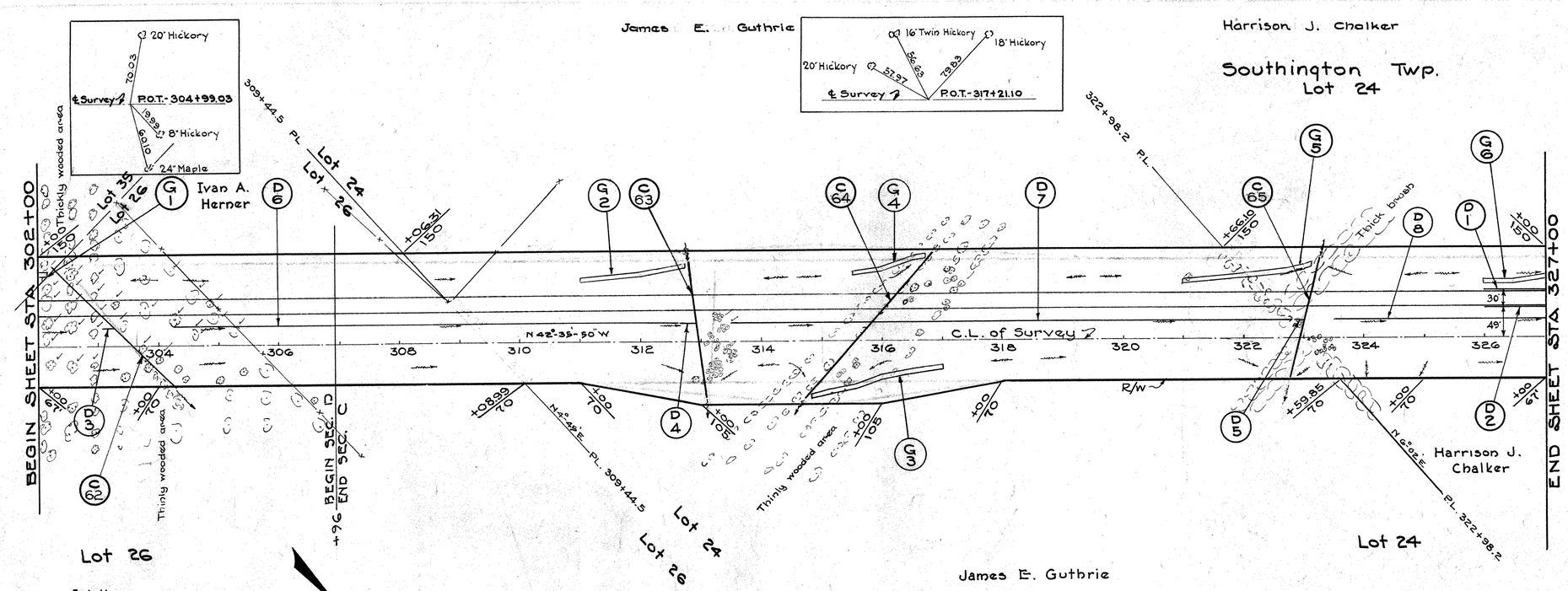


Excavation	49198	Cu. Yds.
Embankment	16579	Cu. Yds.
Seeding	30527	Sq. Yds.

LINE SHEET STA 277+00 To 302+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR	39 / 150
2	OHIO	F-41(4)	1947	

TRUMBULL COUNTY
SH 325 SEC B(PT)~C~D(PT.)



DRAINS									
MARK	STATION FROM	STATION TO	SIDE	I-3 L.F. 12"	I-3 L.F. 15"	I-4 L.F. 6"	I-5 Spec. for I-3 45° Bend 15"	Chann. Pipe L.F. 12"	
D-1	326+00	327+00	L			100			
D-2	326+00	327+00	L			100			
D-3	302+97	303+17	L	20					
D-4	312+65.5	312+90.5	L		25				
D-5	322+77	322+92	L		14		1		
D-6	304+24.5	312+90.5	L					866	
D-7	313+50	322+77	L					927	
D-8	323+50	327+00	L					350	
TOTALS				20	39	200	1	2143	

B.M. No. 43 Spk. 15" Maple
120' Right Sta. 303+50
Elev. 918.92

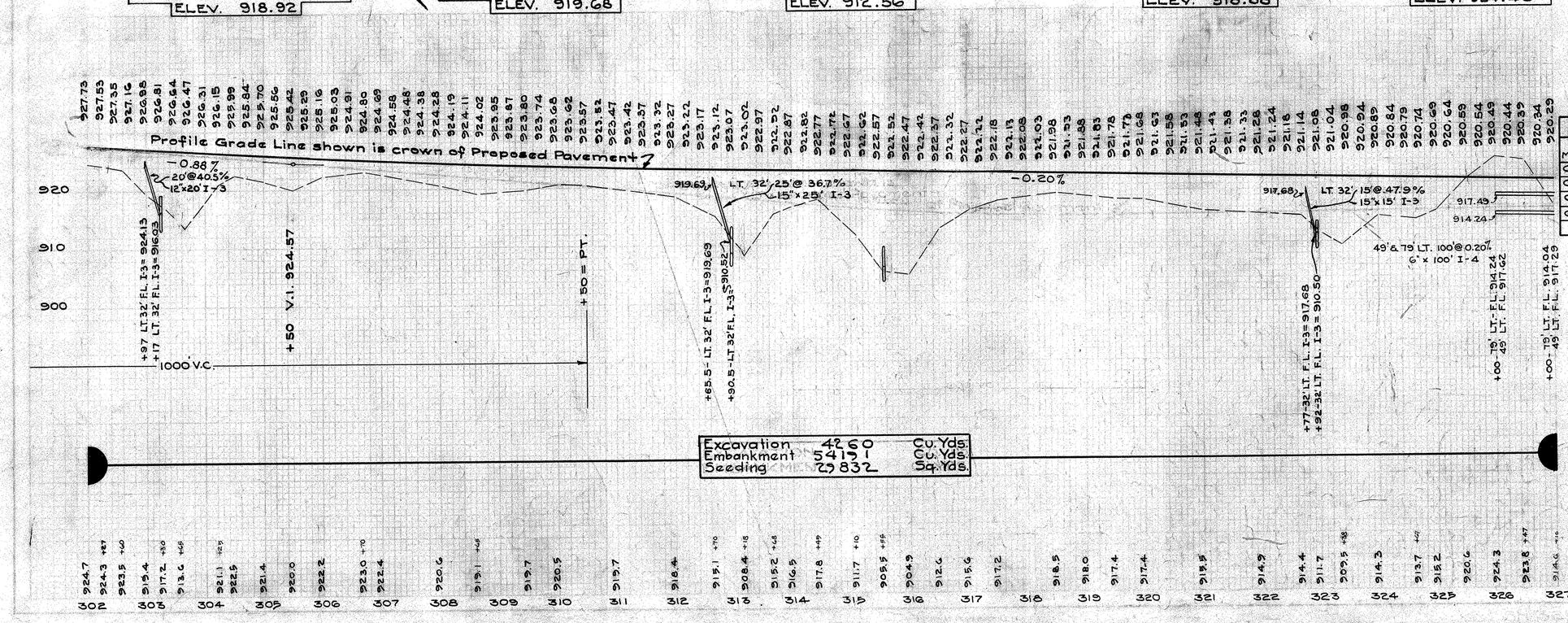
B.M. No. 44 Spk. 24" Maple
100' Right Sta. 306+60
Elev. 919.68

B.M. No. 45 Spk. 20" Cucumber
125' Right Sta. 315+30
Elev. 912.56

B.M. No. 46 Spk. 5" Aspen
150' Left Sta. 321+50
Elev. 918.88

B.M. No. 47 Spk. Clump 5" Aspens
200' Left Sta. 326+00
Elev. 924.46

GUTTERS					
MARK	STATION FROM	STATION TO	SIDE	L-10 WIDTH LF	L-10 S.Y.
G-1	302+00	302+15	L	7	11.7
G-2	311+00	312+76	L	7	136.9
G-3	314+81	317+00	R	7	170.3
G-4	315+55	316+73	L	7	91.8
G-5	321+00	323+05	L	7	159.4
G-6	326+50	327+00	L	6	33.3
TOTALS					603.4



Excavation	4260	Cu. Yds.
Embankment	5419	Cu. Yds.
Seeding	29832	Sq. Yds.

~ STRUCTURES 20' SPAN & UNDER ~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-62	303+55	Std. Pipe Culvert	36" x 259'	144
C-63	312+96.5	Std. Pipe Culvert	27" x 201'	145
C-64	315+59	Std. Pipe Culvert	30" x 284'	146
C-65	322+87	Std. Pipe Culvert	30" x 177'	147

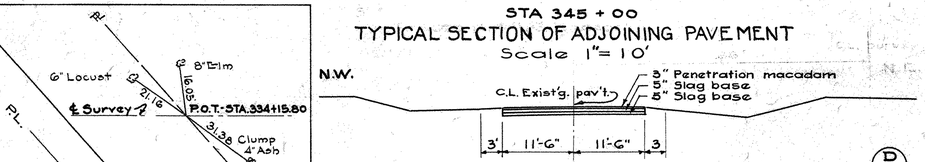
LINE SHEET STA 302+00 To 327+00

DIVISION	STATE	PROJECT	FISCAL YEAR	
2	OHIO	F-41 (4)	1947	40 / 150

TRUMBULL COUNTY
SH 325 SEC B(PT)~C-D (PT)

STATION EQUATION
F-41-(4) STA. 345+00 =
F.A.P. 41-D STA 50+31.77

STA 345 + 00
TYPICAL SECTION OF ADJOINING PAVEMENT
Scale 1"= 10'



DRAINS

MARK	STATION FROM	STATION TO	SIDE	I-3 L.F. 12"	I-4 L.F. Outlet Pipe 6"	I-4 L.F. 6"	I-5 Spec. for I-3 30° Bend 12"	I-5 Spec. for I-4 30° Bend 6"	I-5 Spec. for I-4 Y 6"	I-5 Spec. for I-4 45° Bend 6"	CHAN. PIPE Lin.Ft. 12"	I-3 UNDER APPR. Lin.Ft. 12"	I-8 C.B. #2-3 EACH
D-1	327+00	327+90	L		10	94			1				
D-2	327+00	327+55	L			66				1			
D-3	333+00	336+80	L			393			1				
D-4	333+00	337+00	L			399				1			
D-5	338+50	348+00	L		10	955			1	1			
D-6	338+50	345+00	L			662				1			
D-7	336+98.7	337+10.7	L	12									
D-8	337+12.7	337+24.7	L	10			2						
D-9	329+36	329+52	L	16									
D-10	327+00	329+36	L								236		
D-11	330+00	336+98.7	L								699		
D-12	337+24.7	340+00	L								275		
D-13	342+50	347+00	L									443	3
TOTAL				38	10	2569	2		3	4	1210	443	3

APPROACHES

Station	T-33 S.Y.	T-30 S.Y.	B-20 S.Y.	5" Gran Slag Base S.Y.	I-17 S.Y.	E-8 Seal L.F.		Detail Sheet No
340+85.58	544	547	547	547	243	146		114
Total	544	547	547	547	243	146		

B.M. No. 48 SPK. 30" ELM
200' LEFT STA. 332+50
ELEV. 920.60

B.M. No. 49 X HDWL. S.W. COR.
CUL. 200' RIGHT STA. 337+70
ELEV. 908.48

B.M. No. 50 X N.E. COR. PORCH
GABLES LEFT STA. 343+04
ELEV. 919.55

GUTTERS

MARK	STATION FROM	STATION TO	SIDE	L-10 WIDTH L.F.	L-10 S.Y.
G-1	327+00	328+72	L	6	114.7
G-2	328+82	332+00	L	6	212.0
TOTALS					326.7

~ STRUCTURES 20' SPAN & UNDER ~

MARK	STATION	TYPE	SIZE	DETAIL SHEET NO.
C-66	329+83	Std. Pipe Culvert	36" x 223'	148
C-67	337+30	Std. Pipe Culvert	15" x 169'	149
C-68	342+83	Std. Pipe Culvert	12"x 41' 12"x 69'-6"	150

PAVEMENT REMOVAL

STATION FROM	STATION TO	SIDE	DISPOSAL PAV'T S.Y.			
339+00	345+00	R	1359			
TOTALS			1359			

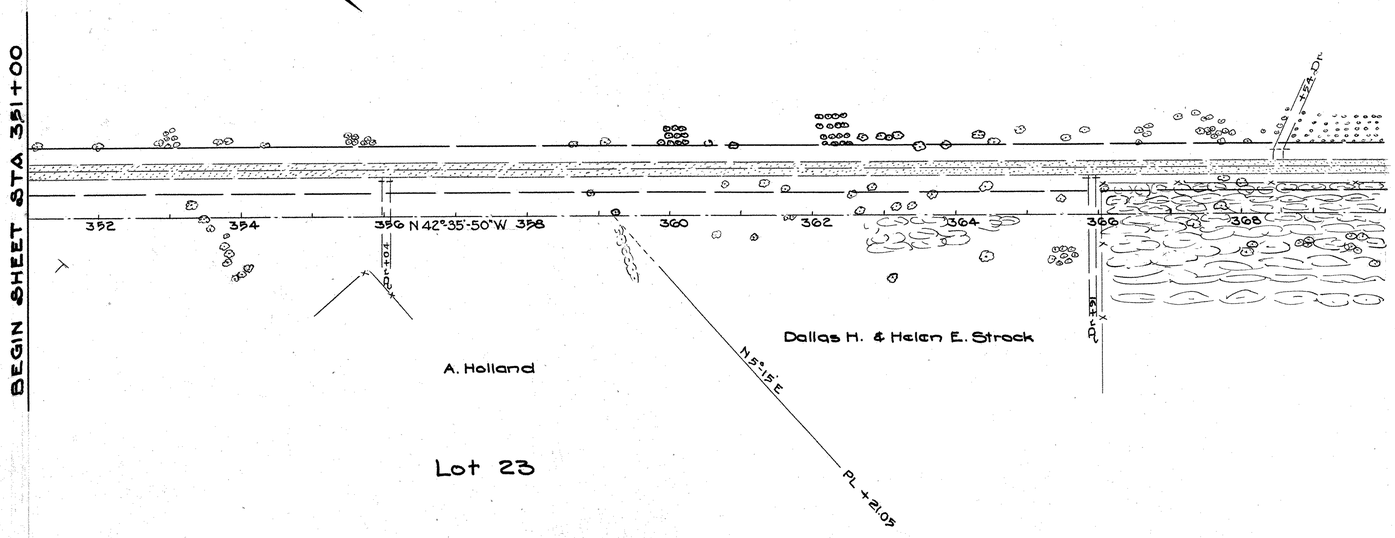
LINE SHEET STA 327+00 To 351+00

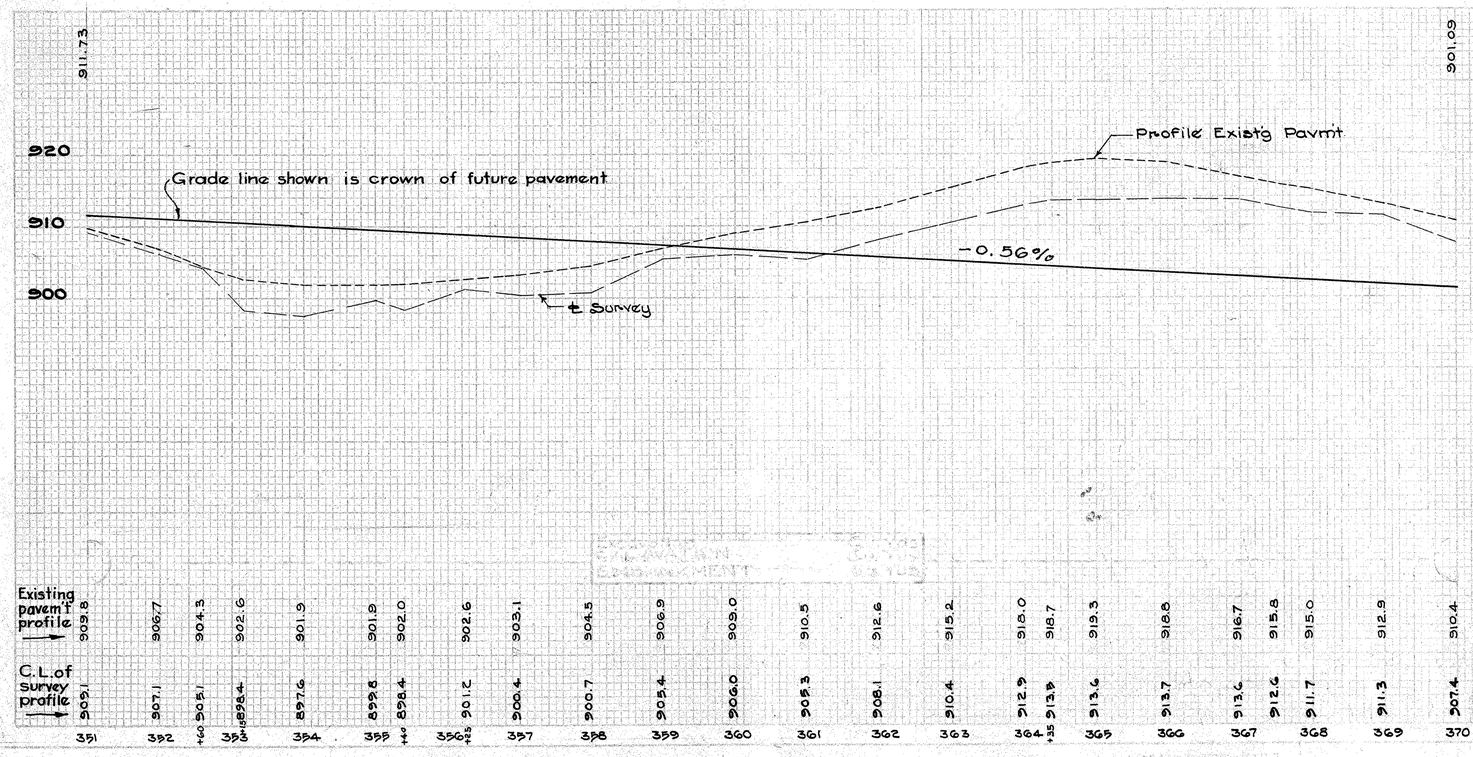
FED. NO.	STATE	PROJECT	YEARS	SHEET NO.
2	OHIO	F-41 (4)	1947	41 / 150

TRUMBULL COUNTY
SH 325 SEC B(PT)-C,D (PT)

Southington Twp.
Lot 23

Def. 0°40' Rt.
Sta. 365+22.72

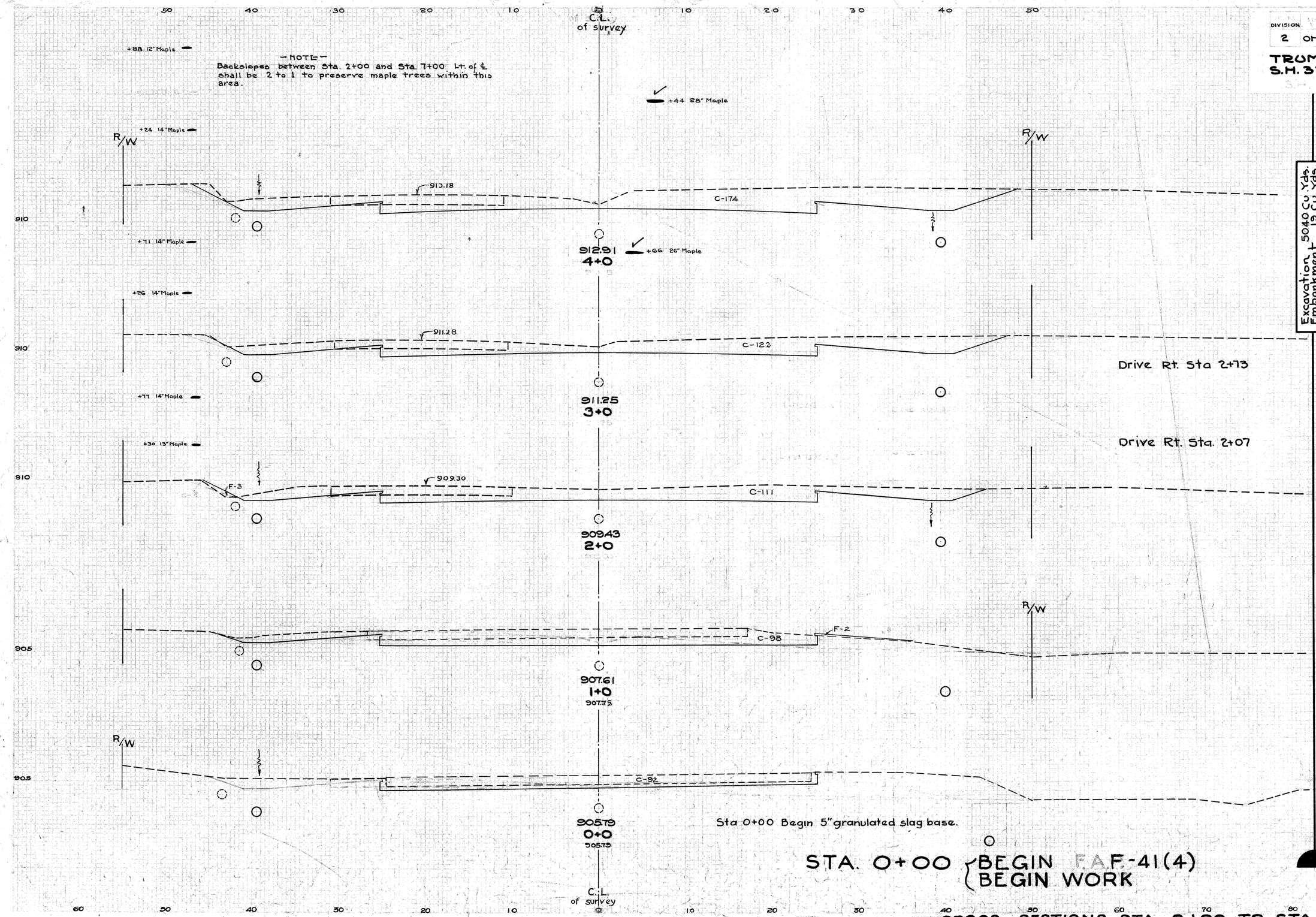




SH 325 LINE SHEET STA 351+00 To STA. 370+00

DIVISION 2 OHIO F-41-(4) 1947 — 42 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT), C, D(PT)



Excavation 5040 Cu. Yds.
Embankment 19 Cu. Yds.
Seeding 5455 Sq. Yds.

Seeding L.F.	Seeding S.Y.	END AREA CUT	END AREA FILL	CU. YD. EXC.	CU. YD. EMB.
56		174	0		
	622			548	0
56		122	0		
				1	
	622			431	6
				1	
56		111	3		
	589			387	9
50		98	2		
	500			181	4
40		0	0		

CROSS SECTIONS STA. 0+00 TO STA. 4+00

DIVISION 2 OHIO F-41-(4) 1947 — 43 / 150

TRUMBULL COUNTY
S.M. 325 SEC. B(PT)-C-D(PT.)

C.L. of survey

R/W

916.45 — C-110 — 916.33 — 10+0 — Drive Rt. Sta. 9+70

Ditch Section on right changes @ Sta. 9+50

917.05 — C-142 — 916.55 — 9+0 — Drive Lt. Sta. 8+80

917.42 — C-147 — 916.44 — 8+0 — Drive Rt. Sta. 8+25

+44 17" Apple

+25 16" Apple

+06 18" Maple; +03 20" Maple; +03 18" Maple; +03 24" Maple; +03 22" Maple; +03 14" M.

917.41 — C-204 — 916.03 — 7+0 — Drive Rt. Sta. 6+95

+87 20" Stump; +57 20" Maple; +71 22" Maple; +42 20" Maple; +69 14" Maple; +29 16" Maple; +27 22" Maple

+06 24" Walnut

916.84 — C-228 — 915.30 — 6+0 — Drive Rt. Sta. 5+96

+81 28" Maple; +70 14" Maple; +57 16" Maple

Drive Lt. Sta. 5+80

+12 22" Maple

915.37 — C-204 — 914.27 — 5+0 — Drive Rt. Sta. 4+94

915

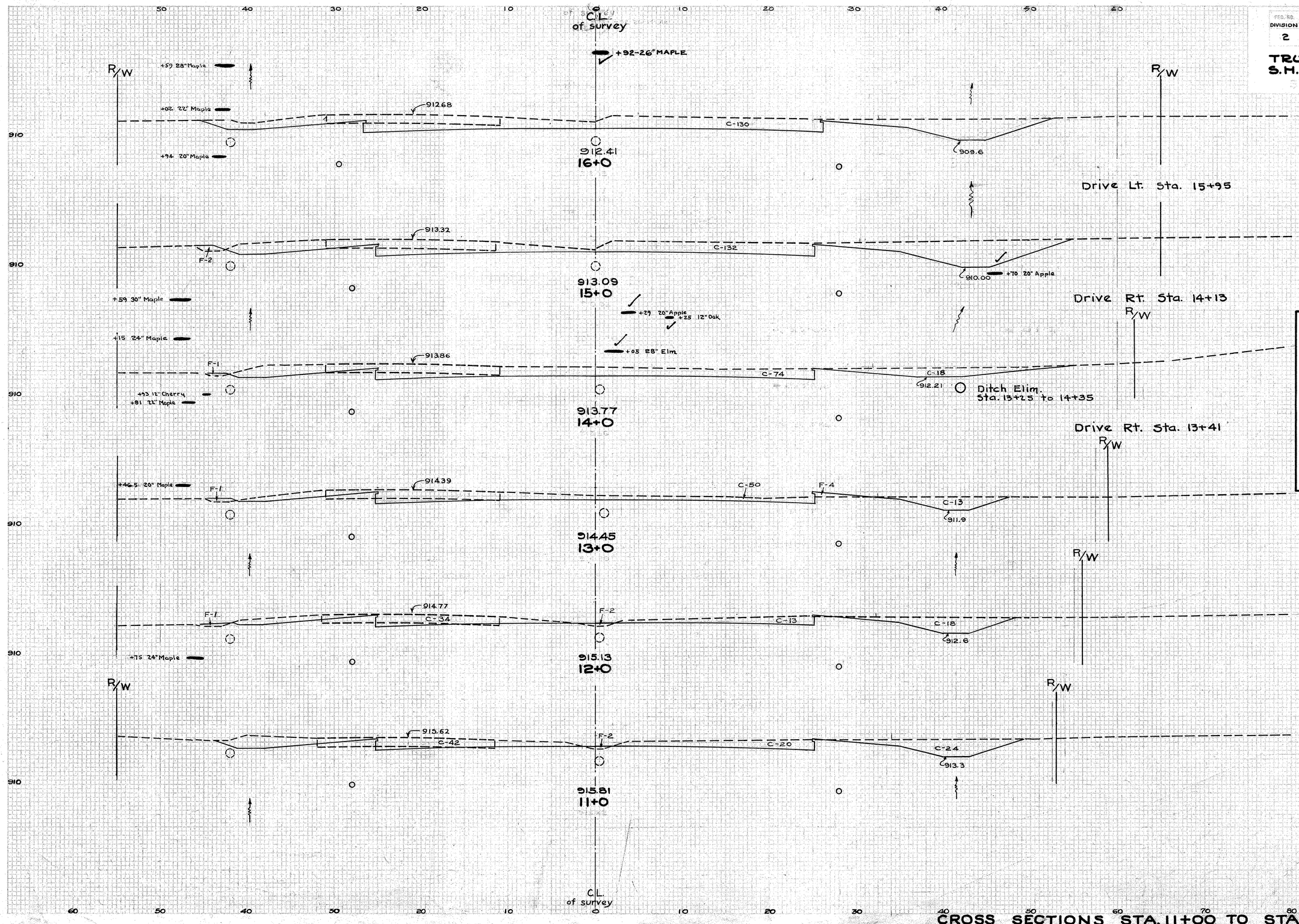
60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

Seeding		END AREA		CU. YD.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
53		110	0	1	
	606			467	0
56		142	0	1	
	617			535	0
				1	
55		147	0		
	622			650	0
57		204	0		
				1	
	633			800	0
57		228	0		
				1	
	628			800	0
				1	
56		204	0		
	622			700	0
56		174	0		
				1	

CROSS SECTIONS STA. 5+00 TO STA 10+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR	
2	OHIO	F-41-(4)	1947	44 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT), C, D(PT.)



Seeding	END AREA		CU. YD.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
66		130	0		
	756			485	4
				1	
70		132	2		
	761			415	6
				1	
67		92	1		
	733			287	11
				1	
65		63	5		
	700			237	15
61		65	3		
	656			280	9
57		86	2		
	611			363	4
53		110	0		

Excavation 3861 Cu. Yds.
Embankment 263 Cu. Yds.
Seeding 8567 Sq. Yds.

CROSS SECTIONS STA. 11+00 TO STA. 16+00

DIVISION 2 OHIO F-41(4) 1947 — 45 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT), C, D(PT)

Seeding		END AREA		CU. YD.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB
64		7	101		
	622			69	5 / 198
48		30	6		
	672			211	37
73		84	14		
	794			241	57
70		46	17		
	761			169	69
67		45	20		
	761			272	44
70		102	4		
	756			430	7
66		130	0		

22+0
Begin Channel Pipe Sta. 21+12.5
C.L. RT LANE
23.69
PROF. GR. EL. 909.51
+04 13" Buckeye
Drive Rt. Sta. 21+15
+04 20" Maple
908.30
F-3
C-5
+00 44" Maple
+03 24" Maple
+38 36" Maple
C-13
F-3
C-12
907.1
905

21+0
+48 28" Maple
C.L. LT LANE
19.96
+30 26" Maple
+25 18" Hemlock
C.L. RT LANE
20.85
+24 16" Hemlock
End Channel Pipe Sta. 20+80
PROF. GR. EL. 909.91
909.51
C-3
F-8
C-24
F-6
C-2
908.5
C-55
907.5
+93 38" Maple
+68 34" Maple
905

20+0
Begin Channel Pipe Sta. 20+00
+35 32" Maple
C.L. LT LANE
19.38
18.45
C.L. RT LANE
+34 24" Apple
910.44
PROF. GR. EL. 910.43
C-32
F-12
C-2
F-5
C-12
907.8
905

Sta 19+00 {Begin 3" gran. slag base
{End 5" gran. slag base

19+0
+24 24" Maple
C.L. LT LANE
18.10
16.49
C.L. RT LANE
+16 19" Apple
910.93
PROF. GR. EL. 911.05
F-2
C-30
F-13
C-5
F-5
C-10
908.5
+87 28" Maple
911.03
905

18+0
+69 22" Maple
+49 20" Apple
+20 20" Apple
C.L. LT LANE
16.14
14.96
C.L. RT LANE
911.65
PROF. GR. EL. 911.73
C-44
F-4
C-58
909.1
910

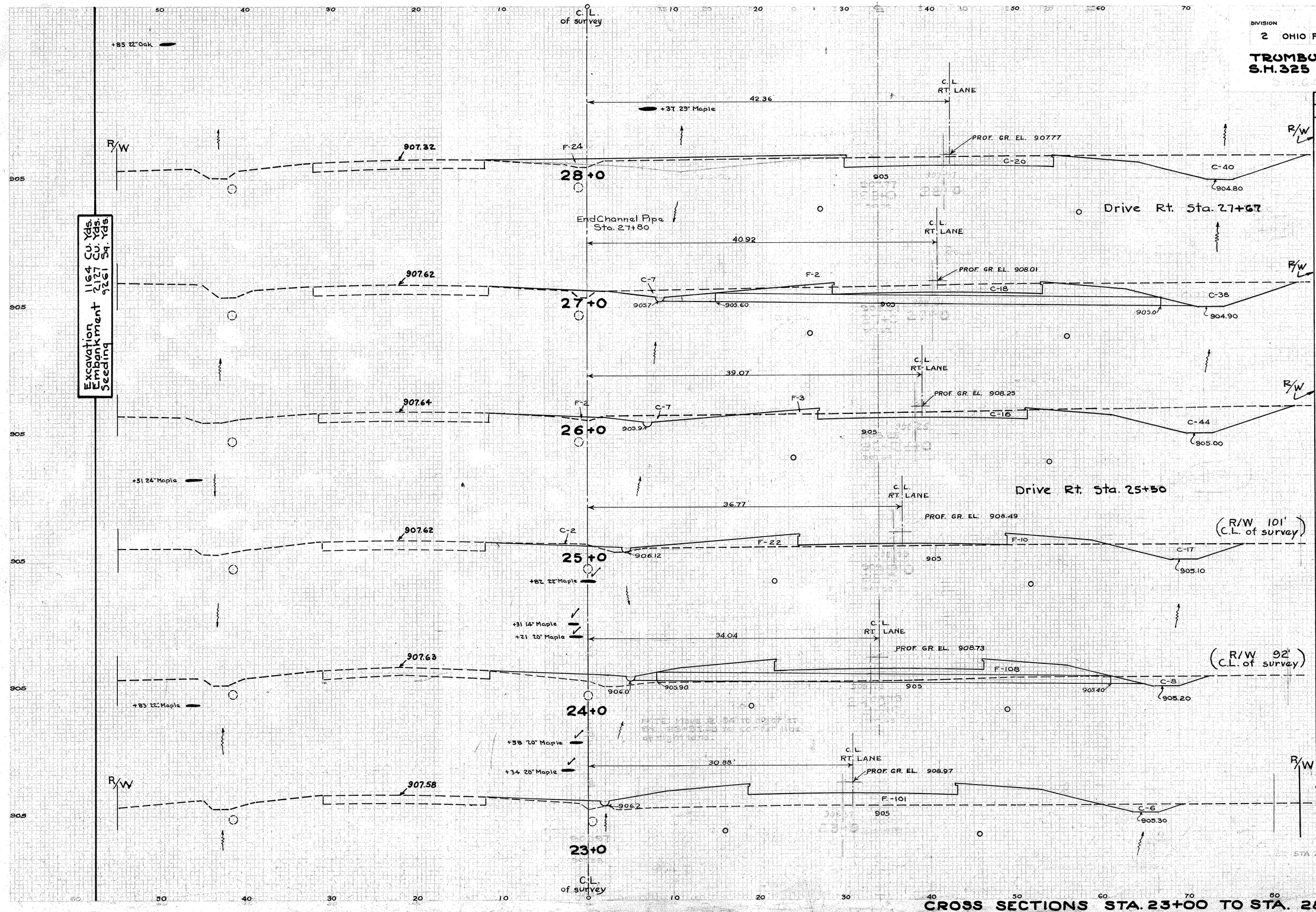
17+0
911.73
C.L. of survey

CROSS SECTIONS STA. 17+00 TO STA. 22+00

DIVISION 2 OHIO F-41 (4) 1947 — 46 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT), C, D (PT)

Excavation 1164 Cu. Yds.
Embankment 2127 Cu. Yds.
Seeding 9261 Sq. Yds



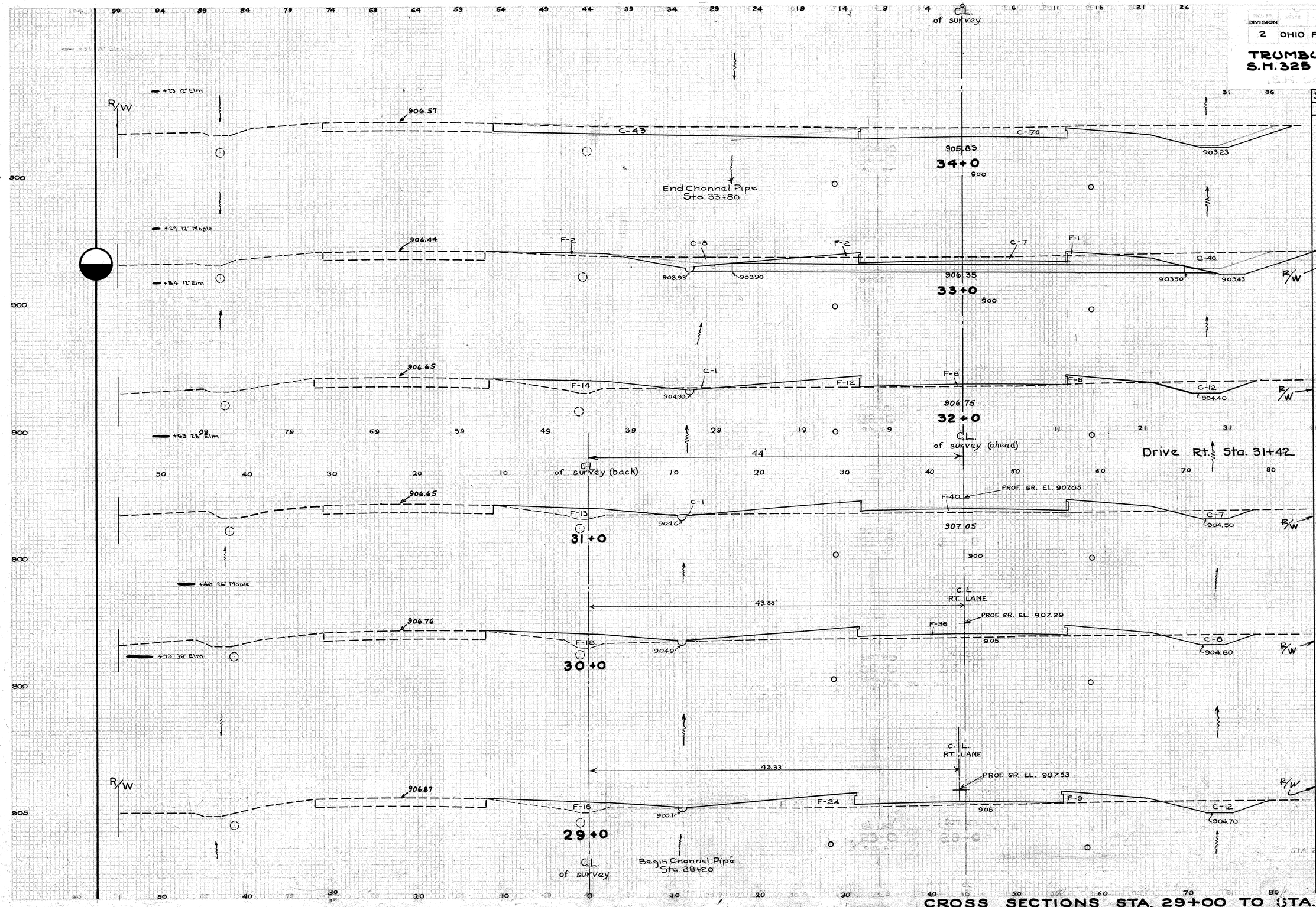
Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yd. Exc.	Cu. Yd. Emb.
71		60	24		
	789			1	
				228	48
71		63	2		
	778			241	13
69		67	5		
	761			159	69
				1	
68		19	32		
	750			50	259
67		8	108		
	733			26	387
65		6	101		
	717			24	374
64		7	101		

CROSS SECTIONS STA. 23+00 TO STA. 28+00

DIVISION 2 OHIO F-41-(4) 1947

47
150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT), C, D (PT.)



Seeding		END AREA		CU. YD	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
38		113	0		
	639			311	5
77		55	5		
	839			126	80
74		13	38		
	822			39	169
					1
74		8	53		
	822			30	198
74		8	54		
	822			37	191
74		12	49		
	806			133	135
71		60	24		

CROSS SECTIONS STA. 29+00 TO STA. 34+00

DIVISION 2 OHIO F-41 (4) 1947 — 48 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT), C, D(PT)

Excavation 4400 Cu. Yds.
Embankment 1150 Cu. Yds.
Seeding 1102 Sq. Yds.

Seeding L.F.	Seeding S.Y.
70	844
82	967
92	1006
89	972
86	939
83	672
38	

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 C/L of survey 6 11 16 21 26 31 36 41

R/W

900.67 — C-12 — 899.02 — F-4 — 901.81 — C-12 — F-2 — C-3 — (R/W 62' C.L. of survey)

40+0

902.21 — 900.07 — C-112 — 902.49 — 5:1 — (R/W 59.31' C.L. of survey)

Drive Rt. Sta. 39+54

Sta. 39+00 { Begin 5" gran. slag base / End 3" " " "

39+0

Begin Channel Pipe Sta. 38+20

904.05 — F-1 — C-276 — 903.19 — 5:1 — (R/W 57' C.L. of survey)

38+0

End Channel Pipe Sta. 37+80

+84 27" Locust
+57 23" Locust
+27 12" Ash
+28 15" Locust
+14 18" Elm
+05 23" Locust
+58 22" Locust
+41 11" W. Cherry
+03 30" Pin Oak
+74 16" Pin Oak
+40 18" W. Cherry
+06 14" Maple

905.08 — 902.06 — 901.8 — C-244 — 903.85 — 5:1 — 898.6

+70 18" Pin Oak

37+0

Drive Rt. Sta. 36+32 (R/W 57' C.L. of survey)

906.16 — 902.74 — C-136 — 904.53 — 5:1

36+0

Drive Rt. Sta. 35+56 (R/W 57' C.L. of survey)

906.28 — F-3 — 903.42 — C-118 — 905.21 — 5:1

35+0

Begin Channel Pipe Sta. 34+20

Drive Rt. Sta. 34+89

C.L. of survey

	END AREA CUT	END AREA FILL	CU. YD. EXC.	CU. YD. EMB.
	27	6		
			257	11
			1	
	112	0		
			719	2
905.0				
	276	1		
905				
			963	2
			1	
905.8				
			244	0
			704	0
			1	
905.6				
			136	0
			470	6
			1	
905.4				
			118	3
			428	6
			1	
	STA 34+00 =		113	0

3/16/Rt

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

CROSS SECTIONS STA 35+00 TO STA. 40+00

DIVISION 2 OHIO F-41(4) 1947 — 49 / 150

TRUMBULL COUNTY
S.M. 325 SEC. B(PT), C. D(PT

Seeding L.F.	Seeding S.Y.
	1022
	1022
	1022
	1022
	900

C.L. of survey

R/W

898.30 — F-5 — C-2 — 896.30 — F-120 — 900 45 — 46+0 — +24 15" Pin Oak — +24 12" Pin Oak — +36 36" Maple — C-28 — 894.50

Begin Channel Pipe Sta. 45+20

898.28 — F-122 — 900 45 — 45+0 — C-30 — 894.80

End Channel Pipe Sta. 44+80

898.35 — C-3 — 897.0 — 896.80 — F-114 — 900 45 — 44+0 — C-22 — 895.50 — 895.10 — +71 12" Ash

898.63 — 897.3 — F-123 — 900 54 — 43+0 — C-24 — 895.40

898.99 — C-3 — 897.7 — F-98 — 900 79 — 42+0 — C-26 — 895.70

R/W

899.72 — F-2 — 898.47 — 898.30 — F-64 — 901 22 — 41+0 — C-40 — 896.60 — 896.00 — STA 40+00

C.L. of survey

END AREA CU. YD.	EXC.	EMB
(R/W 62' C.L. of survey)	30	125
		111 457
(R/W 62' C.L. of survey)	30	122
		102 437
(R/W 62' C.L. of survey)	25	114
		91 439
(R/W 62' C.L. of survey)	24	123
		98 406
(R/W 62' C.L. of survey)	29	96
		128 300
(R/W 62' C.L. of survey)	40	66
		124 133
STA 40+00	27	6

CROSS SECTIONS STA. 41+00 TO STA. 46+00

DIVISION 2 OHIO F-41-(4) 1947 — 50 / 150

TRUMBULL COUNTY
S.H. 325 SEC.B(PT)-C-D(P

Seeding L.F. | S.Y.

Excavation 2012 Cu. Yds.
Embankment 6643 Cu. Yds.
Seeding 12356 Sq. Yds.

C.L. of survey

				END AREA CU. YD.			
				EXC.	EMB	EXC.	EMB
108		R/W 897.92	F-136	(R/W 74' C.L. of survey) 98	136		
	944	896.7	900 45 52+0	C-98 892.70		335	509
62		898.63 C-7	F-138	(R/W 71' C.L. of survey) 83	138		
	917	Begin Channel Pipe Sta. 51+20 / End Channel Pipe Sta. 50+80	900 45 51+0	C-76 893.00		269	511
103		897.89 F-1 C-1	F-137	(R/W 68' C.L. of survey) 62	138		
	1122	896.50	900 45 50+0	C-61 893.30		230	474
				+15 12" Elm			
				Drive Rt. Sta. 49+01			5
99		897.79 C-6	F-118	(R/W 65' C.L. of survey) 62	118		
	1089	896.30	900 45 49+0	C-56 893.60		204	467
97		898.00 C-4	F-134	(R/W 62' C.L. of survey) 48	134		
	1078	896.00 895.90	900 45 48+0	C-44 895.1 893.90		141	543
97		R/W 898.19 F-10	F-149	(R/W 62' C.L. of survey) 28	159		
	1050	896.3	900 45 47+0	C-28 894.20		107	526
92				STA 46+00		30	125

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

C.L of survey

CROSS SECTIONS STA. 47+00 TO STA. 52+00

DIVISION 2 OHIO F-41-(4) 1947 — 51 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C.D.(PT.)

Seeding L.F.	Seeding S.Y.
78	900
84	956
88	1017
95	1074
102	1167
108	

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 C.L. of survey 6 11 16 21 26 31 36 41

R/W

898.16 — F-191 — C-4 896.50 — 900 44 — 57+0

End Channel Pipe Sta. 56+88

898.79 — 897.0 — F-214 — C-2 896.00 — 900 45 — 56+0

+33 15" Pin Oak

898.18 — 896.5 — F-194 — C-6 895.50 — 900 45 — 55+0

+55 20" Stump +45 18" Hickory

898.27 — F-8 — C-3 896.30 — F-128 — C-24 895.00 — 900 45 — 54+0

At Stations 53+47.8 & 53+67.8 the 12" channel pipe center drains are to be connected to the existing 9'x5'x60' double box culvert, using 12" storm sewer pipe. The 12" storm sewer pipes are to enter the existing box culvert at F.L. el. 895.00 by utilizing the openings remaining after removal of the existing 18" U.S.P. as indicated on Sheet No. 116 Payment to be included in Unit Price Bid for Item

Begin Channel Pipe Sta. 53+74.9

End Channel Pipe Sta. 53+40.7

+12 12" Pin Oak

R/W

898.14 — F-3 — 896.50 — F-140 — 900 45 — 53+0

C-64 892.40 C-16

STA 52+0 =

END AREA EXC.	END AREA EMB.	CU. YD. EXC.	CU. YD. EMB.
4	191		
		11	750
2	214		
		15	756
6	194		
		61	611
27	136		
		198	517
80	143		
		330	517
98	136		

(R/W 62' C.L. of survey)

(R/W 62' C.L. of survey)

(R/W 62' C.L. of survey)

(R/W 62' C.L. of survey)

(R/W 77' C.L. of survey)

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 C.L. of survey 6 11 16 21 26 31 36 41

CROSS SECTIONS STA. 53+00 TO STA. 57+00

DIVISION 2 OHIO F-41-(4) 1947 52. 150

TRUMBULL COUNTY

S.H. 325 SEC. B.(PT.), C, D (PT.)

Seeding L.F.	Seeding S.Y.
107	
	385
90	
	508
93	
	994
86	
	956
86	
	911
78	

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

C L of survey

R/W

898.3 F-34 895.70

Begin Channel Pipe Sta. 60+99.7

F-270

(R/W 72' C.L. of survey)

C-34 892.90

48 30

899.85 61+0

C-14

898.33 Proposed Str. C-2

Sta 60+90.7 Begin Earthwork

(R/W 70.52' C.L. of survey)

F-288

C-40

FL El. 891.86

-27.7% Gr.

FL El. 892.23

899.89 60+85.2

C-16

29 162

56 288

Sta 60+79.7 End Earthwork

45 364

898.20 896.00

F-270

(R/W 67' C.L. of survey)

13 270

C-13 894.04

899.97 60+50

27 426

— 22 11" Maple

898.02 896.10

End Channel Pipe Sta. 60+20.7

F-190

(R/W 62' C.L. of survey)

16 190

C-16 894.32

900.08 60+0

56 667

898.15 896.30

F-170

(R/W 62' C.L. of survey)

14 170

C-14 895.50

900.26 59+0

44 598

R/W

898.07 896.50

F-153

(R/W 62' C.L. of survey)

10 153

C-10 896.00

900.38 58+0

26 637

Begin Channel Pipe Sta. 57+28.7

Drive Rt. Sta. 57+60

STA 57+00

2

4 191

C.L. of survey

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

CROSS SECTIONS STA. 58+00 TO STA. 61+00

END AREA	CU. YD.	
CUT	FILL	EXC. EMB.

DIVISION 2 OHIO F-41-(4) 1947

53
150

TRUMBULL COUNTY
S.H. 325. SEC. B (PT.), C, D (PT.)

S.H. 649 SEC. E (PT.)

Seeding L.F.	Seeding S.Y.
97	
	1083
98	
	856
56	
	928
111	
	1183
102	
	1156
106	
	1183
107	

Excavation 2081 Cu. Yds.
Embankment 6327 Cu. Yds.
Seeding 12193 Sq. Yds.

C.L. of survey

R/W (C.L. of survey) 62'

897.54 — 895.80 — 895.70 — F-70 — 898.41 — 67+0 — C-40 — 894.70 — 894.20

897.85 — C-2 — F-24 — 896.00 — F-48 — 898.65 — 66+0 — C-52 — 894.05

R/W (C.L. of survey) 102.85'

897.56 — F-83 — 896.20 — 898.89 — 65+0

Inter Section Sta. 64+57.91

R/W (C.L. of survey) 72'

Begin Channel Pipe Sta. 64+88

897.73 — F-62 — 899.13 — 64+0 — C-198 — 893.60 — C-32

End Channel Pipe Sta. 63+99.7

897.54 — 896.1 — F-166 — 899.37 — 63+0 — C-44 — 893.40

Drive Rt. Sta. 63+51

R/W (C.L. of survey) 72'

897.50 — 895.9 — F-184 — 899.61 — 62+0 — C-68 — 893.10

R/W (C.L. of survey) 72'

STA 61+0 = 48 304

END AREA CUT	END AREA FILL	CU. YD. EXC.	CU. YD. EMB
40	70		
		174	263
54	72		
		100	287
0	83		
		122	172
		367	250
198	52		
		448	404
44	166		2
		207	648
68	184		
		215	904

C.L. of survey

CROSS SECTIONS STA. 62+00 TO STA. 67+00

DIVISION

54
150

2 OHIO F-41-(4) 1947
TRUMBULL COUNTY
S.H. 325 SEC. B (PT), C, D (PT)
S.H. 649 SEC. E (PT)

Seeding L.F.	Seeding S.Y.
90	1000
90	1000
90	1000
90	1000
90	1006
91	1044
97	

104 99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

C.L. of survey

R/W

898.28 F-26 C-4 896.0 F-10 C-2 F-5 C-26 895.10

898.37
73+0

(R/W 62' C.L. of survey)

897.93 F-28 895.84 F-12 F-6 C-34 894.95

898.21
72+0

(R/W 62' C.L. of survey)

897.96 F-54 895.70 895.60 F-8 895.0 C-24 894.80

898.06
71+0

(R/W 62' C.L. of survey)

898.08 Begin Channel Pipe Sta. 70+00 F-59 F-8 C-28 894.65

898.00
70+0

Drive Rt. Sta. 69+80

(R/W 62' C.L. of survey)

897.97 End Channel Pipe Sta. 69+60 F-73 895.8 C-22 894.50

898.04
69+0

(R/W 62' C.L. of survey)

R/W

897.52 F-75 896.0 C-28 894.35

898.18
68+0

(R/W 62' C.L. of survey)

STA 67+00

C.L. of survey

104 99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

END AREA CUT	END AREA FILL	CU. YD. EXC	CU. YD. EMB
32	41		
		122	161
34	46		
		107	196
24	60		
		96	235
28	67		
		193	259
22	73		
		93	274
28	75		
		126	269
40	70		

CROSS SECTIONS STA. 68+00 TO STA. 73+00

DIVISION 55
2 OHIO F-41-(4) 1947 150
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)
S.H. 649 SEC. E(PT.)

Seeding L.F. S.Y.

Excavation 12227 Cu. Yds.
Embankment + 2647 Cu. Yds.
Seeding 11933 Lin. Ft.

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 C.L. of survey 6 11 16 21 26 31 36 41

STA 79+0

R/W
87
898.80
F-32
End Channel Pipe Sta. 79+05
897.10
F-8
F-10
899.33
C-14
896.00
(R/W 62' C.L. of survey)
983

STA 78+0

90
898.74
F-30
897.00
F-34
899.17
C-32
895.85
R/W 62' C.L. of survey
1000

STA 77+0

90
898.68
896.89
Begin Channel Pipe Sta. 76+40
896.70
F-78
899.01
895.80
C-32
895.70
(R/W 62' C.L. of survey)
1000

STA 76+0

90
898.71
F-28
End Channel Pipe Sta. 76+00
897.00
F-10
F-6
F-12
898.85
C-24
895.55
(R/W 62' C.L. of survey)
1000

STA 75+0

90
898.58
C-2
896.57
F-2.6
F-6
C-2
F-6
898.69
C-30
895.40
(R/W 62' C.L. of survey)
1000

STA 74+0

R/W
90
898.38
C-1
896.32
F-30
F-5
C-12
F-4
898.53
C-36
895.25
(R/W 62' C.L. of survey)
1000

90

STA 73+0 =

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 C.L. of survey 6 11 16 21 26 31 36 41

CROSS SECTIONS STA. 74+00 TO STA. 79+00

END AREA CU. YD.			
CUT	FILL	EXC.	EMB.
14	50		
		89	211
32	64		
		119	263
32	78		
		104	248
24	56		
		107	174
34	38		
		154	143
49	39		
		150	148
32	41		

DIVISION 2 OHIO F-41-(4) 1947 — 56 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)
S.H. 649 SEC. E (PT.)

Seeding L.F.	Seeding S.Y.	
96	1078	R/W 899.44 — 897.75 — F-105 — C-28 — 895.70 — (R/W 62' C.L. of survey)
98	1078	899.45 — 897.54 — F-132 — C-22 — 895.55 — (R/W 62' C.L. of survey)
96	1067	899.05 — F-21 — 897.32 — F-96 — C-30 — 895.40 — (R/W 62' C.L. of survey)
96	1022	899.10 — 897.10 — F-108 — C-28 — 895.04 — (R/W 62' C.L. of survey)
88	978	898.89 — 896.94 — F-90 — C-12 — 896.30 — (R/W 62' C.L. of survey)
88	972	R/W 899.08 — F-24 — 897.20 — F-70 — C-10 — 896.15 — (R/W 62' C.L. of survey)
87		

C.L. of survey

900.29 — 85+0

899.97 — 83+0

899.81 — 82+0

899.65 — 81+0

899.49 — 80+0

Begin Channel Pipe Sta. 81+66

End Channel Pipe Sta. 81+40

Begin Channel Pipe Sta. 79+45

Drive Rt. Sta. 79+21

STA 79+0 = 14 50

END AREA CU. YD.	CUT	FILL	EXC.	EMB
	28	105		
			93	439
	22	132		
			96	461
	30	117		
			107	417
	28	108		
			74	367
	12	90		
			41	341
	10	94		
			44	267
				1

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

CROSS SECTIONS STA. 80+00 TO STA. 85+00

DIVISION 2 OHIO F-41-(4) 1947 — 57 / 150

TRUMBULL COUNTY.
S.H.325 SEC. B. (PT.), C, D (PT.)

S.H. 649 SEC. E (PT.)

Seeding L.F. S.Y.

Excavation 2118 Cu. Yds.
Embankment 4016 Cu. Yds.
Seeding 12645 Lin. Ft.

C.L. of survey

| | | |

DIVISION 2 OHIO F-41-(4) 1947 — 58 / 150

TRUMBULL COUNTY
S.H 325 SEC. B. (PT.), C, D (PT.)
S.H. 649 SEC. E (PT.)

Seeding L.F.	Seeding S.Y.
97	
	1072
96	
	1039
91	
	1039
96	
	1067
96	
	1067
96	

C.L. of survey

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

R/W

900.67 — 899.16 — F-114 — 902.05 — **96+0**

(R/W 62' C.L. of survey) — C-36 — 897.35

900.16 — 899.0 — 898.90 — F-108 — 901.89 — **95+0**

(R/W 62' C.L. of survey) — C-32 — 897.80 — 897.20

Begin Channel Pipe Sta. 94+20

900.34 — F-133 — 901.73 — **94+0**

(R/W 62' C.L. of survey) — C-32 — 897.05

End Channel Pipe Sta. 93+80

900.24 — F-20 — 898.68 — F-56 — 901.57 — **93+0**

(R/W 62' C.L. of survey) — C-55 — 896.90

R/W

900.33 — F-34 — 898.50 — 898.4 — F-76 — 901.41 — **92+0**

(R/W 62' C.L. of survey) — C-30 — 897.0 — 896.75

● +79 22" Hickory

STA 91+00

C.L. of survey

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

END AREA CUT	END AREA FILL	CU. YD. EXC.	CU. YD. EMB.
36	114		
		126	411
32	108		
		119	446
32	133		
		161	387
55	76		
		159	344
31	110		
		119	359
33	84		

CROSS SECTIONS STA. 92+00 TO STA. 96+00

DIVISION | STATE | PROJECT | FISCAL YEAR

2 OHIO F-41-(4) 1947

59
150

TRUMBULL COUNTY
S.H. 325 SEC. B. (PT.)
S.H. 649 SEC. E (PT.)

Seeding L.F.	Seeding S.Y.
98	1072
95	1056
95	1056
95	1056
95	1056
95	1067
97	

Excavation 1818 Cu. Yds.
Embankment 4498 Cu. Yds.
Seeding 12702 Lin. Ft.

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

C.L. of survey

End Channel Pipe Sta. 102+30

R/W

901.92 — F-21 — C-3 — 900.22 — 900.1 — F-37 — C-72 — 899.0 — 898.25 — (R/W 62' (C.L. of survey)) — 903.01 — 102+0

901.43 — F-16 — 900.08 — F-61 — C-51 — 898.10 — (R/W 62' (C.L. of survey)) — 902.85 — 101+0

901.34 — 899.90 — F-116 — C-26 — 897.95 — (R/W 62' (C.L. of survey)) — 902.69 — 100+0

901.03 — 899.78 — F-112 — C-24 — 897.80 — (R/W 62' (C.L. of survey)) — 902.53 — 99+0

901.16 — 899.66 — F-116 — C-30 — 897.65 — (R/W 62' (C.L. of survey)) — 902.37 — 98+0

R/W

900.50 — 899.32 — F-140 — C-24 — 897.50 — (R/W 62' (C.L. of survey)) — 902.21 — 97+0

+.58 24" Stump

END AREA	CU. YD.	
CUT	FILL	EXC.	EMB.
75	58		
		233	250
51	77		
		143	357
26	116		
		93	422
24	112		
		100	422
30	116		
		100	474
24	140		
		111	470
STA 96+00	36	114	

C.L. of survey

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

CROSS SECTIONS STA. 97+00 TO STA. 102+00

DIVISION 2 OHIO F-41-(4) 1947 — 60 / 150

TRUMBULL COUNTY.
S.H.325 SEC. B (PT.), C, D (PT.)
S.H. 649 SEC. E (PT.)

Seeding L.F.	Seeding S.Y.
92	
	1044
96	
	1067
96	
	1067
96	
	1061
95	
	1056
95	
	1072
98	

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

C.L. of survey

End Channel Pipe Sta. 108+92

+26 14" Ash; +21 15" Elm; +12 28" Pin Oak; +30 14" Elm; +32 26" Elm; +55 14" Elm; +23 24" Maple; +97 12" Maple; +85 14" Maple; +84 14" Pin Oak; +23 24" Elm; +65 12" Elm; +46 15" Elm; +18 18" Maple; +86 24" Maple; +50 36" Maple; +22 15" Locust

R/W

901.94 — F-12 — 900.40 — F-110 — 903.97 — 108+0 — (R/W 62' C.L. of survey) 30 122 — C-30 — 899.32

901.98 — F-16 — 900.10 — 900.0 — F-91 — 903.81 — 107+0 — 899.50 — C-46 — 899.0 — (R/W 62' C.L. of survey) 46 107

Sta. 106+50 to 106+60 on Rt. transition section from 6' to 3' bottom width for side ditch.

901.87 — F-10 — C-2 — 900.40 — F-80 — 903.65 — 106+0 — (R/W 62' C.L. of survey) 34 90 — C-32 — 898.85

901.80 — F-14 — C-2 — 900.1 — F-80 — 903.49 — 105+0 — (R/W 62' C.L. of survey) 38 94 — C-36 — 898.70

901.70 — F-19 — C-5 — 899.84 — 899.70 — F-60 — 903.33 — 104+0 — 899.00 — C-49 — 898.55 — (R/W 62' C.L. of survey) 54 79

902.03 — F-77 — 900.59 — 903.17 — 103+0 — (R/W 62' C.L. of survey) 60 77 — C-60 — 898.40

Begin Channel Pipe Sta. 102+70

Drive Rt. Sta. 102+97

C.L. of survey

STA 102+00 — 75 58

END AREA CUT	END AREA FILL	CU. YD. EXC.	CU. YD. EMB.
		141	424
		148	365
		133	341
		170	320
		211	289
		250	250

CROSS SECTIONS STA. 103+00 TO STA. 108+00

DIVISION 2 OHIO F-41-(4) 1947 61 150

TRUMBULL COUNTY. S.H. 325. SEC. B (PT.)

S.H. 649 SEC. E (PT.)

Seeding L.F. S.Y.

Excavation 1372 Cu. Yds.
Embankment 61124 Cu. Yds.
Seeding 12389 Sq. Yds.

END AREA CUT	END AREA FILL	CU. YD EXC.	CU. YD EMB
25	162		
		109	572
34	147		
		131	465
37	104		
		120	444
28	136		
		100	485
26	126		
		106	463
31	135		
		113	476
30	122		

R/W

902.09 F-20 900.46 F-142 (R/W 62' C.L. of survey) C-25 899.70

904.93
114+0

902.45 F-18 C-2 900.42 F-129 (R/W 62' C.L. of survey) C-32 899.60

Begin Channel Pipe
Sta. 112+74

+18 24" Maple

+42 12" Pin Oak

+76 12" Elm

904.77
113+0

End Channel Pipe
Sta. 112+19

902.77 F-16 C-1 900.67 F-88 (R/W 62' C.L. of survey) C-36 900.5

904.61
112+0

Drive Rt. Sta. 111+72

902.63 F-136 900.84 (R/W 62' C.L. of survey) C-28 900.28

904.45
111+0

902.44 F-126 901.00 (R/W 62' C.L. of survey) C-26 899.96

904.29
110+0

Begin Channel Pipe
Sta. 109+32

Drive Rt. Sta. 109+12

R/W

902.05 F-135 (R/W 62' C.L. of survey) C-31 899.64

904.13
109+0

STA 108+00

C.L. of survey

99 94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

CROSS SECTIONS STA. 109+00 TO STA. 114+00

DIVISION 2 OHIO F-41-(4) 1947 — 62 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B. (PT.)

Seeding L.F.	Seeding S.Y.
96	
	1067
96	
	1067
96	
	1067
96	
	1039
91	
	1039
96	
	1067
96	

94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

C.L. of survey

R/W

903.67 — 901.57 — F-190 — 905.89 — 120+0 — (R/W 62' C.L. of survey) — C-16 900.30

902.61 — 901.33 — F-184 — 905.73 — 119+0 — (R/W 62' C.L. of survey) — C-16 900.20

902.56 — 901.10 — 901.0 — F-204 — 905.57 — 118+0 — (R/W 62' C.L. of survey) — 900.50 — C-23 900.10

902.73 — 901.3 — F-194 — 905.41 — 117+0 — (R/W 62' C.L. of survey) — C-20 900.00

Begin Channel Pipe Sta. 116+20

902.48 — F-215 — 905.25 — 116+0 — (R/W 62' C.L. of survey) — C-18 899.90

End Channel Pipe Sta. 115+80

R/W

901.97 — 900.50 — F-171 — 905.09 — 115+0 — (R/W 62' C.L. of survey) — C-32 899.80

STA 114+00

C.L. of survey

END AREA CUT	END AREA FILL	CU. YD EXC.	CU. YD EMB
16	190		
		59	693
16	184		
		72	719
23	204		
		80	737
20	194		
		70	757
18	215		
		93	715
32	171		
		106	617
25	162		

CROSS SECTIONS STA. 115+00 TO STA. 120+00

DIVISION 2 OHIO F-41-(4) 1947 — 63 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B. (PT.), C, D (PT.)

Excavation 984 Cu. Yds.
Embankment 7017 Cu. Yds.
Seeding 11911 Sq. Yds.

Seeding L.F.	Seeding S.Y.
95	1056
95	1056
95	486
30	265
76	813
96	1067
96	

94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 C.L. of survey 6 11 16 21 26 31 36 41

End Channel Pipe Sta. 125+80

R/W — 904.31 — 902.70 — F-144 — C-20 — 901.60 — (R/W 62' C.L. of survey)
906.69
125+0
END AREA CUT 20 FILL 144 — CU. YD. EXC. 70 EMB 593

R/W — 903.82 — 902.00 — 901.90 — F-176 — C-18 — 901.50 — 901.20 — (R/W 62' C.L. of survey)
906.53
124+0
END AREA CUT 18 FILL 176 — CU. YD. EXC. 33 EMB 667

R/W — 903.87 — 902.50 — F-184
906.37
123+0
END AREA CUT 0 FILL 184 — CU. YD. EXC. 5 EMB 446

Begin Channel Pipe Sta. 122+50

Intersection Sta 122+35.23

+53 36" Twin Maple

R/W — 904.27 — C-4 — F-160 — (R/W 95.6' C.L. of Survey)
906.26
122+30
END AREA CUT 4 FILL 160 — CU. YD. EXC. 23 EMB 221

Intersection C.H. 135

904.04 — F-118 — (R/W 69.4' C.L. of survey) — C-27 — 900.67
906.19
121+85
END AREA CUT 27 FILL 118 — CU. YD. EXC. 26 EMB 232

End Channel Pipe Sta. 121+80

R/W — 903.41 — C-1 — 901.80 — F-9 — F-140 — (R/W 62' C.L. of survey) — C-20 — 900.50
906.05
121+0
END AREA CUT 21 FILL 149 — CU. YD. EXC. 76 EMB 420

STA 120+00 — END AREA CUT 16 FILL 190 — CU. YD. EXC. 69 EMB 628

94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 C.L. of survey 6 11 16 21 26 31 36 41

CROSS SECTIONS STA. 121+00 TO STA. 125+00

DIVISION 2 OHIO F-41-(4) 1947 — 64 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B. (PT.), C, D (PT.)

Seeding L.F.	Seeding S.Y.
89	972
86	994
93	1006
88	989
90	972
85	1000
95	

94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

C.L. of survey

R/W

906.74 — F-15 — 903.20 — F-64 — C-33 — 904.60 — (R/W 62' C.L. of survey)
907.93
131+00

906.11 — F-6 — C-3 — 904.60 — F-44 — F-12 — C-22 — 904.00 — (R/W 62' C.L. of survey)
907.56
130+00

+14 20" Maple

905.79 — F-5 — C-12 — 904.40 — F-4 — C-100 — 903.40 — (R/W 62' C.L. of survey)
907.33
129+00

Drive Rt. Sta. 128+81

905.39 — F-20 — 903.70 — F-101 — C-15 — 902.80 — (R/W 62' C.L. of survey)
907.17
128+00

Sta 128+00 {Begin 3" gran. slag base / End 5" " " "}

904.97 — F-18 — 903.00 — C-2 — 902.25 — F-88 — C-23 — 902.60 — 902.40 — (R/W 62' C.L. of survey)
907.01
127+00

Begin Channel Pipe Sta. 126+20

904.84 — F-145 — C-21 — 902.00 — (R/W 62' C.L. of survey)
906.85
126+00

C.L. of survey

STA 125+00

94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

ENDAREA CUT	ENDAREA FILL	CU. YD. EXC.	CU. YD. EMB.
33	79		
		107	261
25	62		
		254	131
112	9		
		235	241
		1	
15	121		
		74	420
25	106		
		85	465
21	145		
		76	535
20	144		

CROSS SECTIONS STA. 126+00 TO STA. 131+00

DIVISION 2 OHIO F-41-(4) 1947 — 65 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B. (PT.), C, D (Pt)

Seeding L.F. / S.Y.: 90 — 950 — 81 — 922 — 85 — 967 — 89 — 972 — 86 — 972 — 89

Excavation 5610 Cu. Yds.
Embankment + 1221 Cu. Yds.
Seeding 11260 Sq. Yds.

94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

C.L. of survey

+43 15" Wild Cherry

R/W — 913.24 — F-12 — C-273 — 909.08 — 911.25 — 136+00 — 908.90 — (R/W 62' C.L. of survey)

R/W — 911.23 — F-14 — C-94 — 908.16 — +75 18" Apple — 910.53 — 135+00 — F-1 — C-20 — 908.10 — (R/W 62' C.L. of survey)

R/W — 910.04 — F-17 — C-6 — 907.44 — Begin Channel Pipe Sta. 133+45 — 909.81 — 134+00 — F-8 — C-5 — F-4 — C-24 — 906.30 — (R/W 62' C.L. of survey)

Drive Rt. Sta. 133+43

End Channel Pipe Sta. 133+05

R/W — 908.40 — F-12 — +98-36" Elm — 906.60 — 906.50 — C-156 — 909.09 — 133+00 — 906.10 — 905.80 — (R/W 62' C.L of survey)

Begin Channel Pipe Sta. 132+75

End Channel Pipe Sta. 132+25

R/W — 907.20 — F-10 — 905.70 — F-26 — C-3 — F-4 — C-32 — 905.20 — 908.44 — 132+00 — (R/W 62' C.L. of survey)

C.L. of survey

END AREA CUT	END AREA FILL	CU. YD. EXC	CU. YD. EMB
273	12		
		717	50
114	15		
		276	81
35	29		
		1	
		354	76
156	12		
		354	96
35	40		
		126	257
STA 131+00 = 33	79		

CROSS SECTIONS STA. 132+00 TO STA. 136+00

DIVISION 2 OHIO F-41-(4) 1947 — 66 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B. (PT.), C, D (PT.)

Seeding L.F.	Seeding S.Y.
101	1039
86	933
82	778
58	811
88	989
90	1000
90	

94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

C.L. of survey

+11 12" Elm

R/W — 914.78 — C-22 — F-14 — F-16 — F-12 — 912.70 — C-286 — 913.20 — (R/W 63.8' C.L. of survey)

915.57
142+00

Sta 142+00 {Begin 3" gran. slag base / End 5" " " "}

+17 16" Pin Oak

R/W — 914.60 — C-6 — 912.50 — F-11 — C-28 — F-4 — 911.98 — C-124 — 912.50 — (R/W 62' C.L. of survey)

914.85
141+00

End Channel Pipe
Sta. 141+00

Begin Channel Pipe
Sta. 140+21.3

R/W — 913.91 — C-7 — 911.00 — F-12 — C-28 — F-16 — C-9 — 911.26 — F-5 — C-7 — F-1 — C-24 — 911.80 — (R/W 62' C.L. of survey)

914.13
140+00

End Channel Pipe
Sta. 140+00

Begin Channel Pipe
Sta. 139+07

R/W — 914.06 — 912.50 — F-1 — C-149 — 911.10 — (R/W 62' C.L. of survey)

913.41
139+00

End Channel Pipe
Sta. 138+67

R/W — 914.46 — 912.80 — F-8 — 910.52 — +89 18" Pin Oak — +64 12" Elm — C-244 — 910.30 — (R/W 62' C.L. of survey)

912.69
138+00

+36 12" Elm

Drive Rt. Sta. 137+88

R/W — 914.09 — F-16 — 909.89 — C-240 — 909.70 — (R/W 62' C.L. of survey)

911.97
137+00

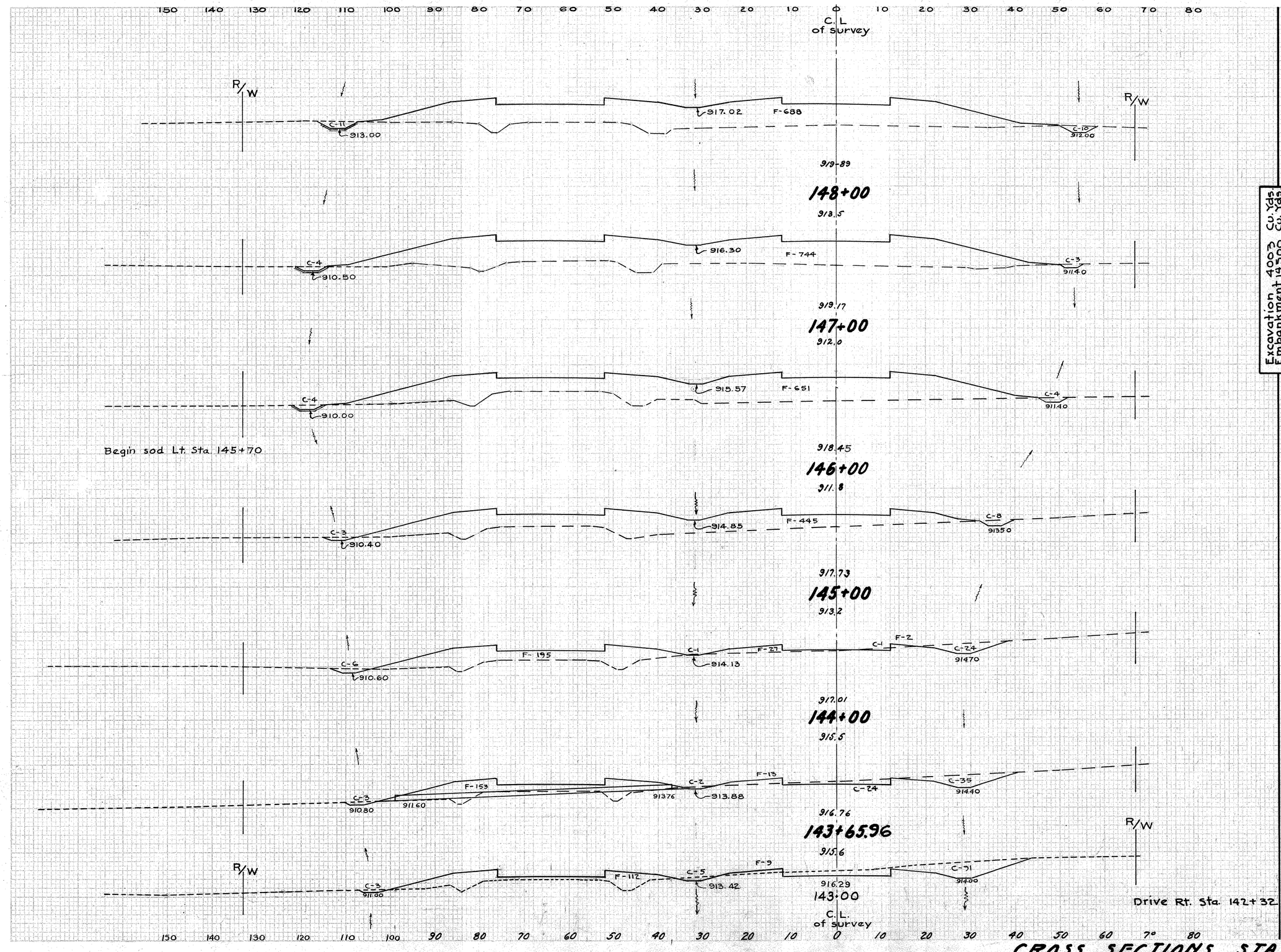
C.L. of survey

STA. 136+00

94 89 84 79 74 69 64 59 54 49 44 39 34 29 24 19 14 9 4 0 6 11 16 21 26 31 36 41

END AREA CU. YD. CUT	FILL	EXC.	EMB.
308	42		
		863	106
158	15		
		431	91
75	34		
		415	65
149	1		
		728	17
244	8		
		896	44
240	16	1	
		950	52
273	12		

CROSS SECTIONS STA. 137+00 TO STA. 142+00



DIVISION 2 | OHIO F-41-(4) 1947 | 67 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)
S.H. 640 SEC. E (PT.)

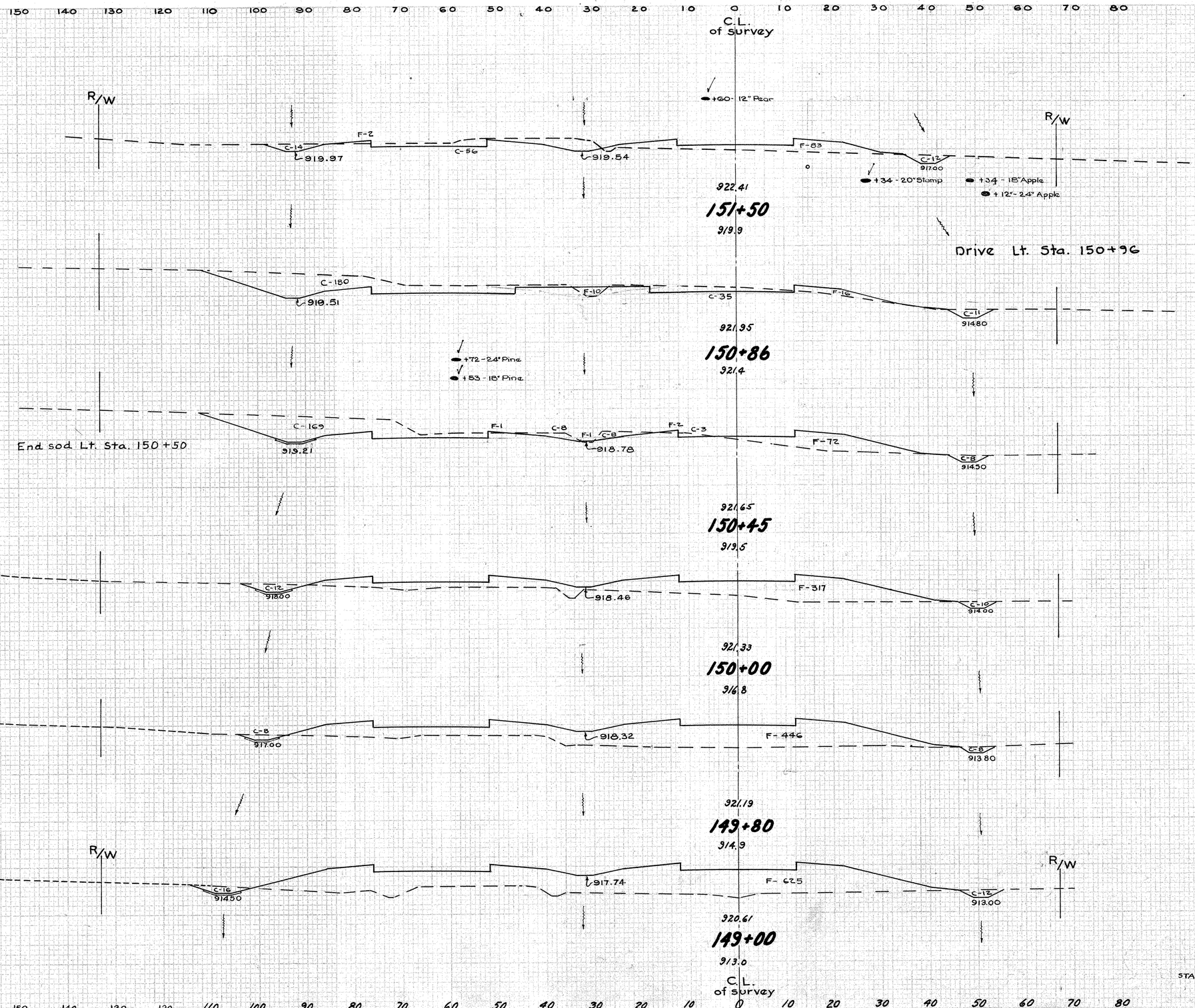
Excavation 4003 Cu. Yds.
Embankment 14500 Cu. Yds.
Seeding 16900 Sq. Yds.

SEEDING L.F	SEEDING S.Y.	END AREA CUT	END AREA FILL	CU. YDS. EXC.	CU. YDS. EMB.
140		21	688		
	1583			52	2652
145		7	744		
	1589			28	2583
141		8	651		
	1500			35	2030
129		11	445		
	1428			80	1239
128		32	224		
	478			61	245
125		64	166		
	928			201	350
128		100	121		
	1272			756 2	302
101		308	42		

CROSS SECTIONS STA. 143+65.93 TO 148+00

DIVISION 2 OHIO F-41-(4) 1947 — 68 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)



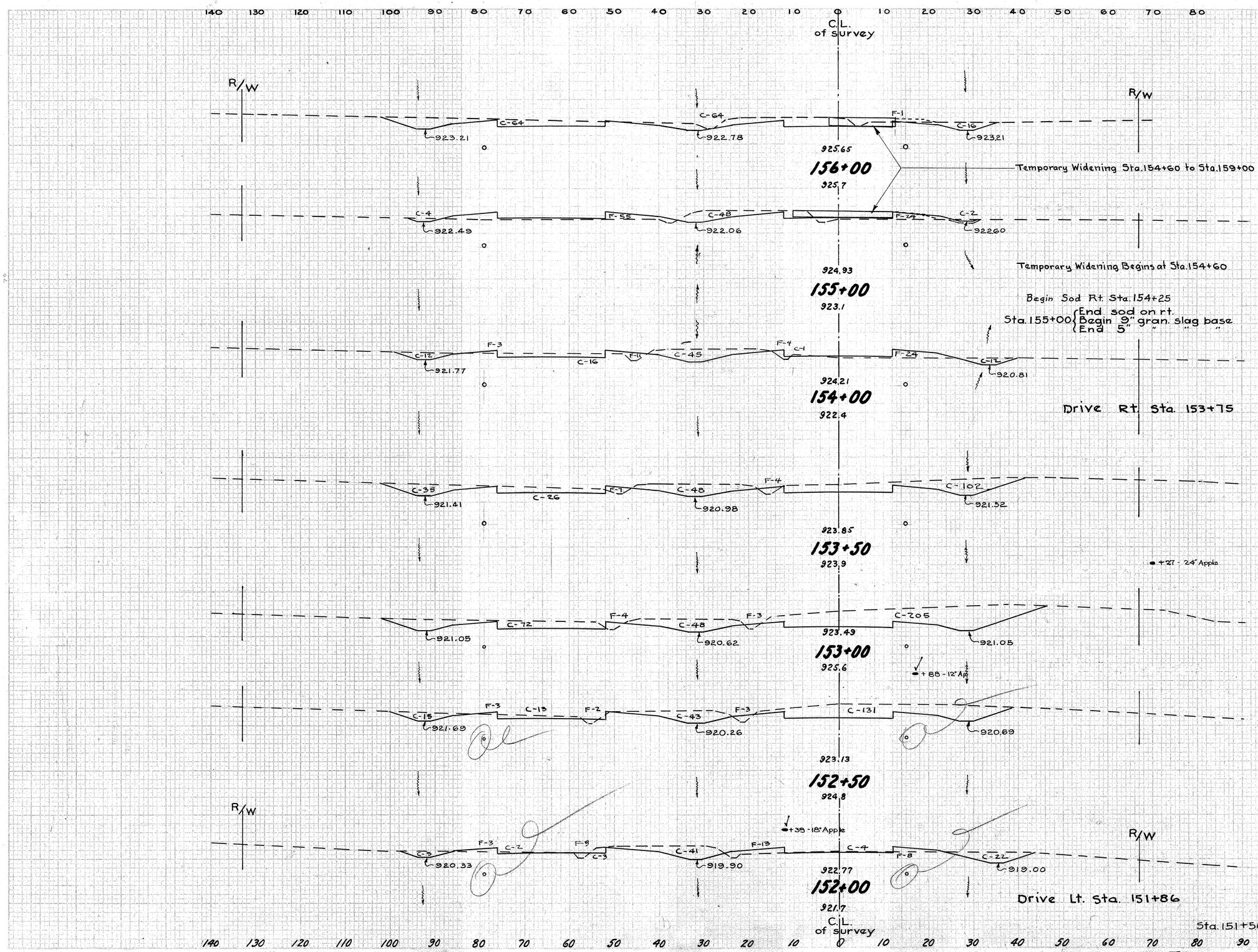
SEEDING		END AREA		CU.YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
116		82	85		
	875			365	132
				1	
130		226	26		
	597			320	77
132		196	76		
	643			177	328
125		22	317		
	279			13	283
126		16	446		
	1173			65	1586
138		28	625		
	1544			91	2432
STA 148+00 140		21	688		

CROSS SECTIONS STA. 149+00 TO 151+50

DIVISION 2 | STATE OHIO | PROJECT F-41-(4) 1947 | 69 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

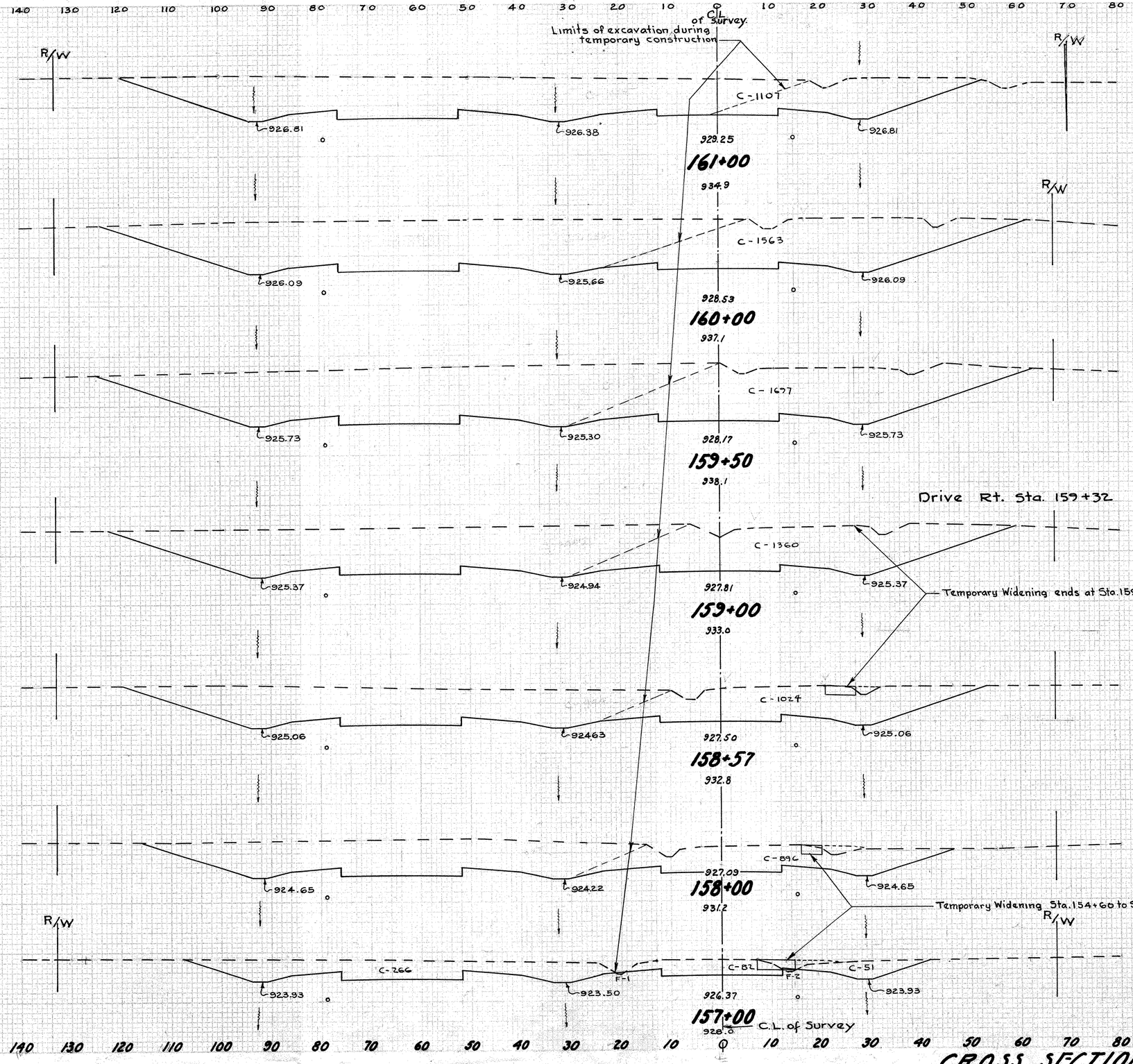
SEEDING L.F.	SEEDING S.Y.	END AREA CUT	END AREA FILL	CU. YDS. EXC.	CU. YDS. EMB.
112		144	1		
	1144			367	148
94		54	79		
	1150			259	224
113		86	42		
	642			275	49
118		211	11		
	667			497	17
122		325	7		
	658			488	14
115		202	8		
	656			257	35
121		77	29		
	658			147	106
116		82	85		



CROSS SECTIONS STA. 152+00 to 156+00

DIVISION | STATE | | | | 70
2 OHIO F-41-(4) 1947 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)



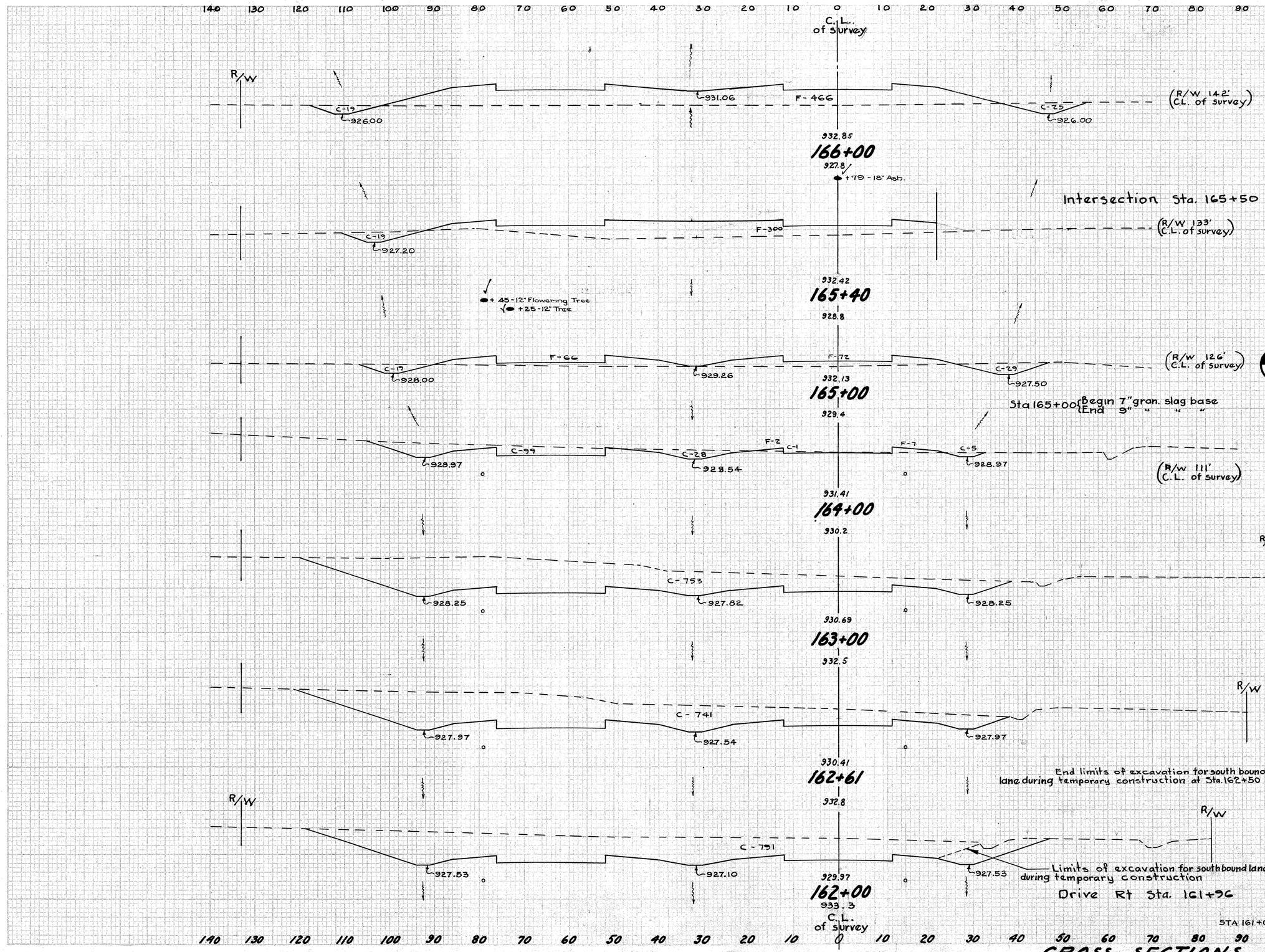
Excavation 21832 Cu. Yds.
Embankment 1740 Cu. Yds.
Seeding 17395 Sq. Yds.

SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
148		1107	0		
	1728			4945	0
163		1563	0		
	906			3019	0
163		1697	0		
	892			2831	0
				5	
158		1360	0		
	733			1898	0
149		1024	0		
	912			2027	0
139		896	0		
	1456			2398	6
123		399	3		
	1306			1006	7
112		144	1		

CROSS SECTIONS STA. 157+00 to 161+00

DIVISION	STATE	PROJECT	FISCAL YEAR	
2	OHIO	F-41-(4)	1947	71 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)



SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB
149		44	466		
	830			70	851
				56	325
100		19	300		
	511			50	324
130		48	138		
	1344			335	272
112		133	9		
	1367			1641	17
134		753	0		
	585			1079	0
136		741	0		
	946			1731	0
143		791	0		
	1617			3515 3	0
148		1107	0		

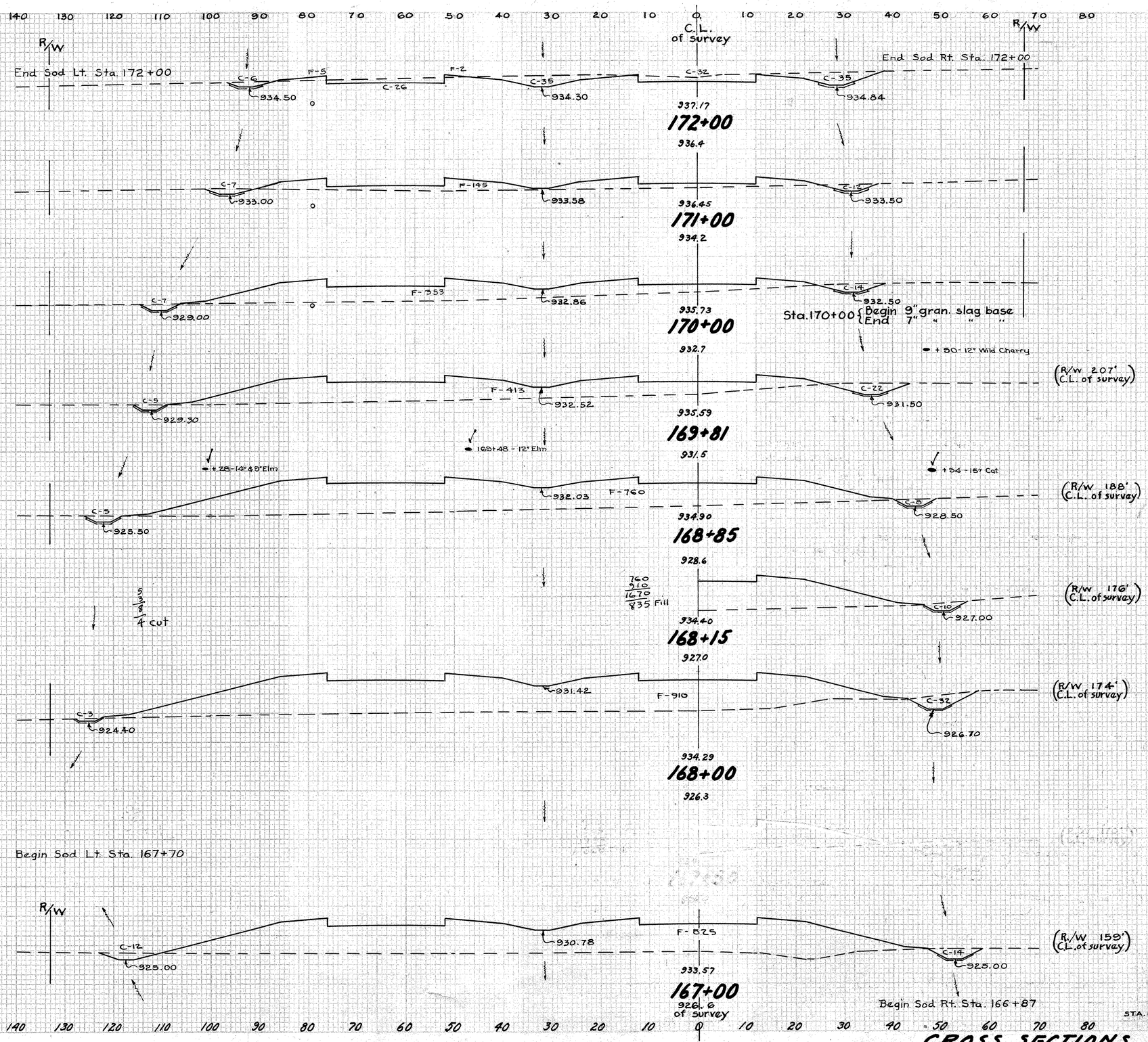
CROSS SECTIONS STA 162+00 TO 166+00

DIVISION 2 | STATE OHIO | PROJECT F-41-(4) | 1947 | SHEET 72 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

Excavation 12211 Cu. Yds.
Embankment + 13196 Cu. Yds.
Seeding 16375 Sq. Yds.

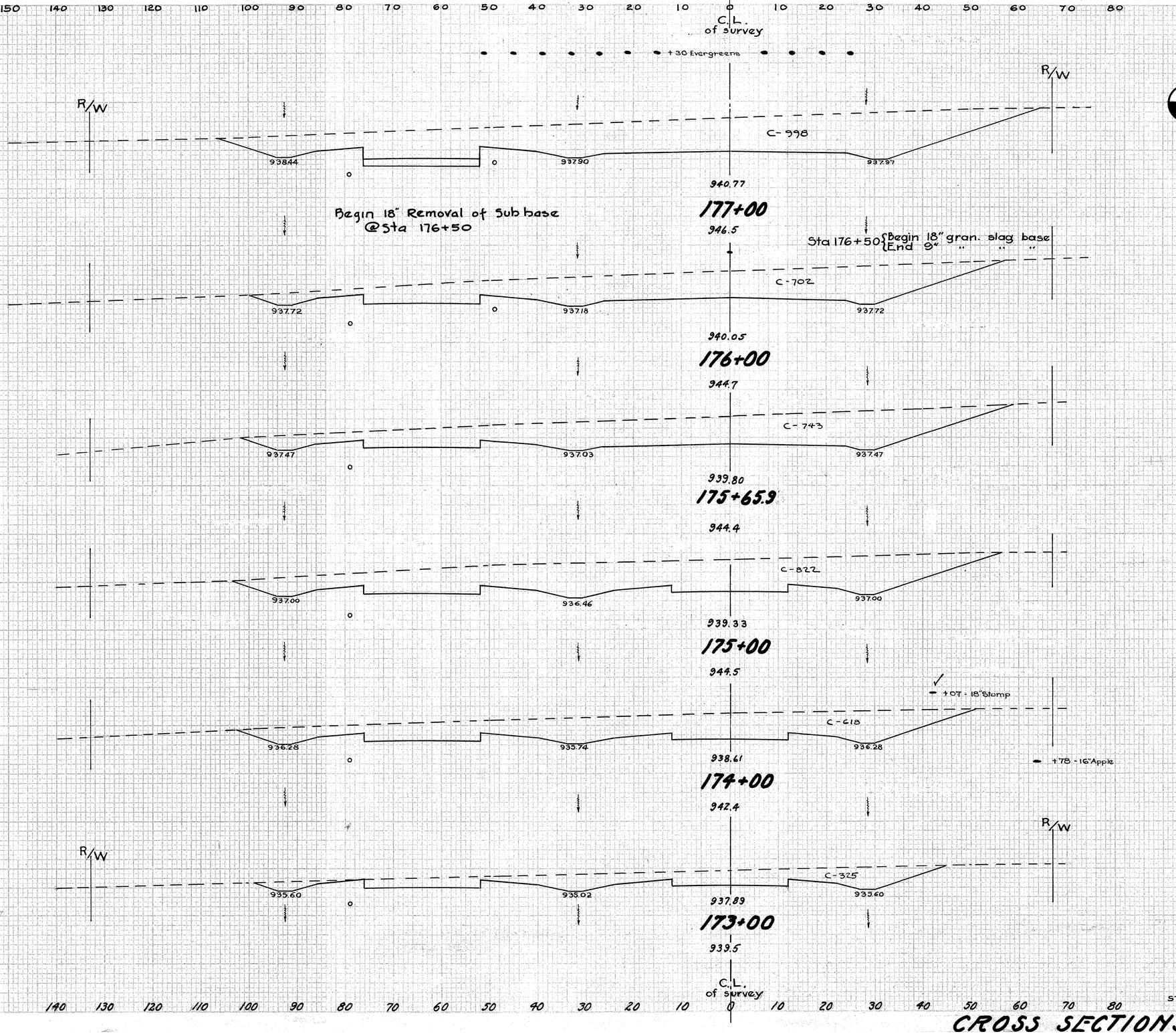
SEEDING L.F.	SEEDING S.Y.	END AREA CUT	END AREA FILL	CU. YDS. EXC.	CU. YDS. EMB.
95		134	7		
	1083			283	381
100		19	145		
	1183			74	922
113		21	353		
	247			17	270
121		27	413		
	1360			71	2085
134		13	760		
				30	2038
	1308	14	835		
				14	485
143		35	910		
				113	3213
150		26	825		
	1661			130	2391
149		44	466		



CROSS SECTIONS STA. 167+00 TO 172+00

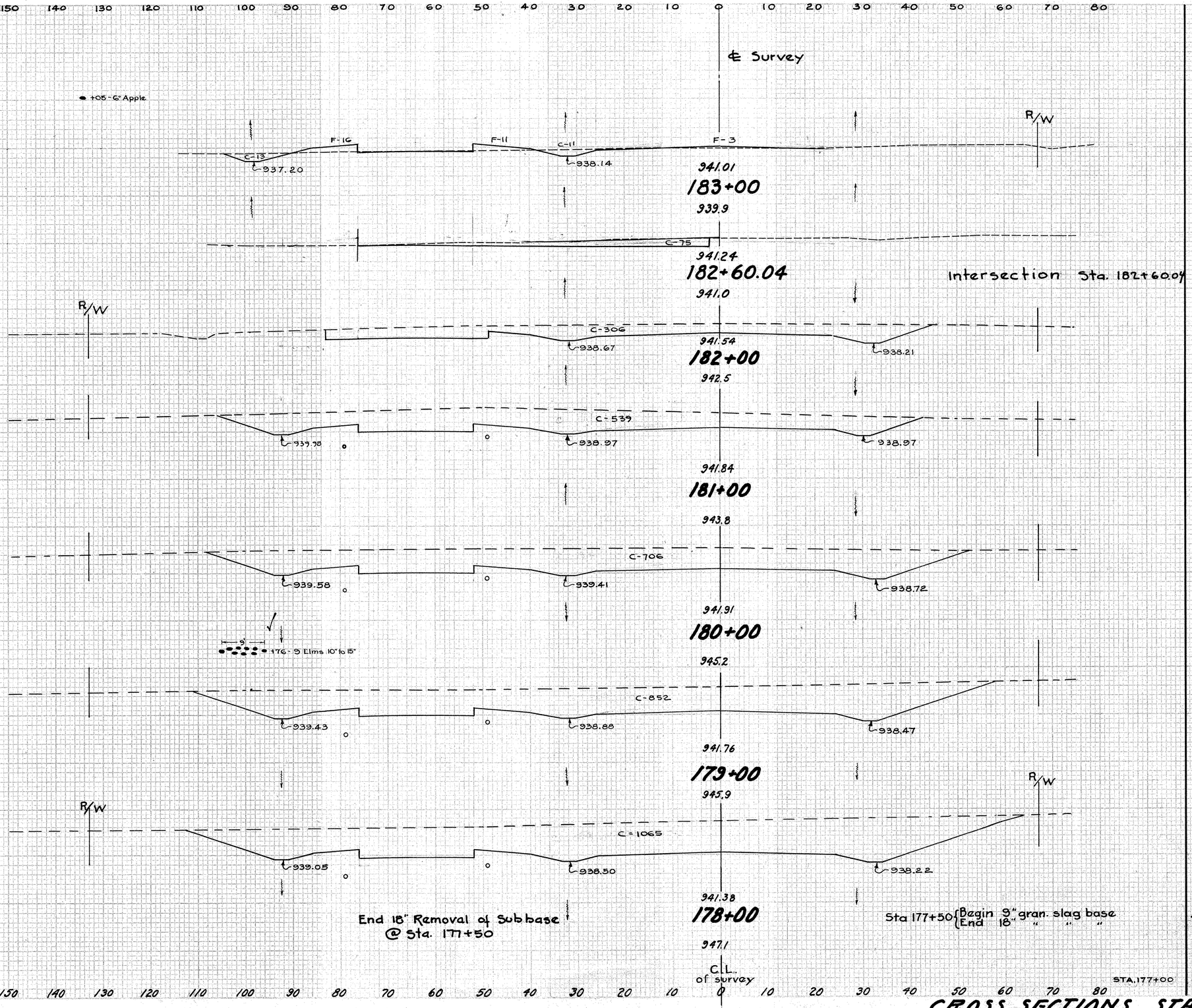
DIVISION	STATE	PROJECT	FISCAL YEAR	
2	OHIO	F-41-(4)	1947	73 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D (PT.)



SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
113		998	0		
		37			
				69	
	1244			3148	0
+50		37			
111		702	0		
	419			910	0
111		743	0		
	906			1913	0
136		822	0		
	1478			2667	0
130		618	0		
	1356			1746	0
114		325	0		
	1161			850	13
STA 172+00 95		134	7		

CROSS SECTIONS STA. 173+00 TO 177+00

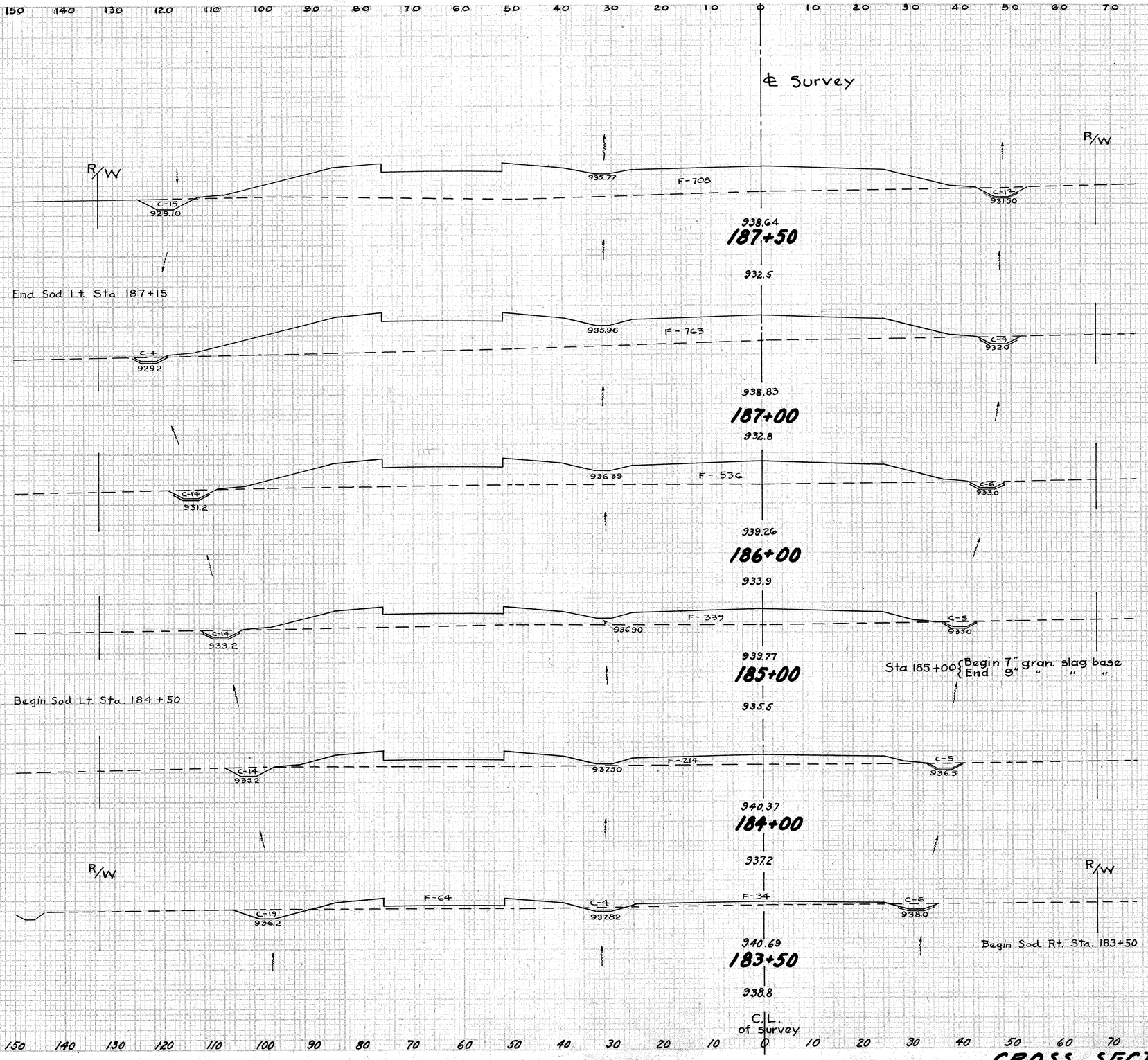


DIVISION 2 | STATE OHIO | PROJECT F-41-(4) | FISCAL 1947 | 74 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D (PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
66		24	27		
				51	20
	883	75	0		
				86	31
				424	0
93		306	0		
	1067			1565	
99		539	0		
	1172			1307	0
112		706	0		
	1794			2885	0
121		852	0		
	1344			3550	0
121		1065	0		
	1300			3821	0
+50		37			
				69	
113		37	398	0	

CROSS SECTIONS STA. 178+00 TO 183+00



DIVISION	STATE	PROJECT	FISCAL YEAR	SHEET NO.
2	OHIO	F-41-(4)	1947	75 150

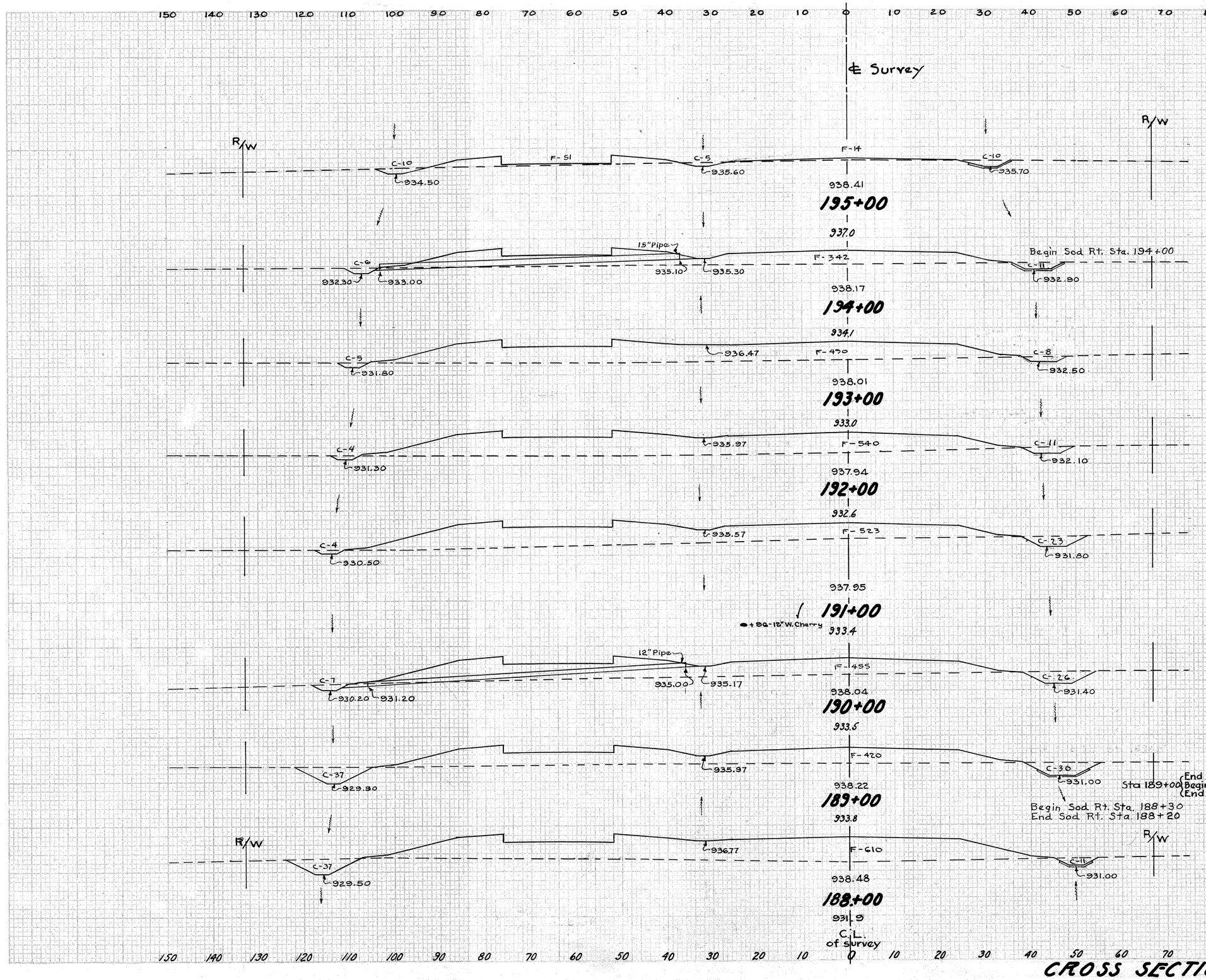
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

SEEDING		END AREA		CU. YDS.	
L.F	S.Y.	CUT	FILL	EXC.	EMB.
121		27	708		
	650			37	1363
113		13	763		
	1167			30	1204
97		20	536		
	1050			72	1620
92		19	339		
	1017			70	1024
91		19	214		
	484			44	289
83		29	98		
	414			49	116
66		24	27		

CROSS SECTIONS STA. 183+50 TO 187+50

DIVISION 2 | OHIO | F-41-(4) | 1947 | 76 / 150

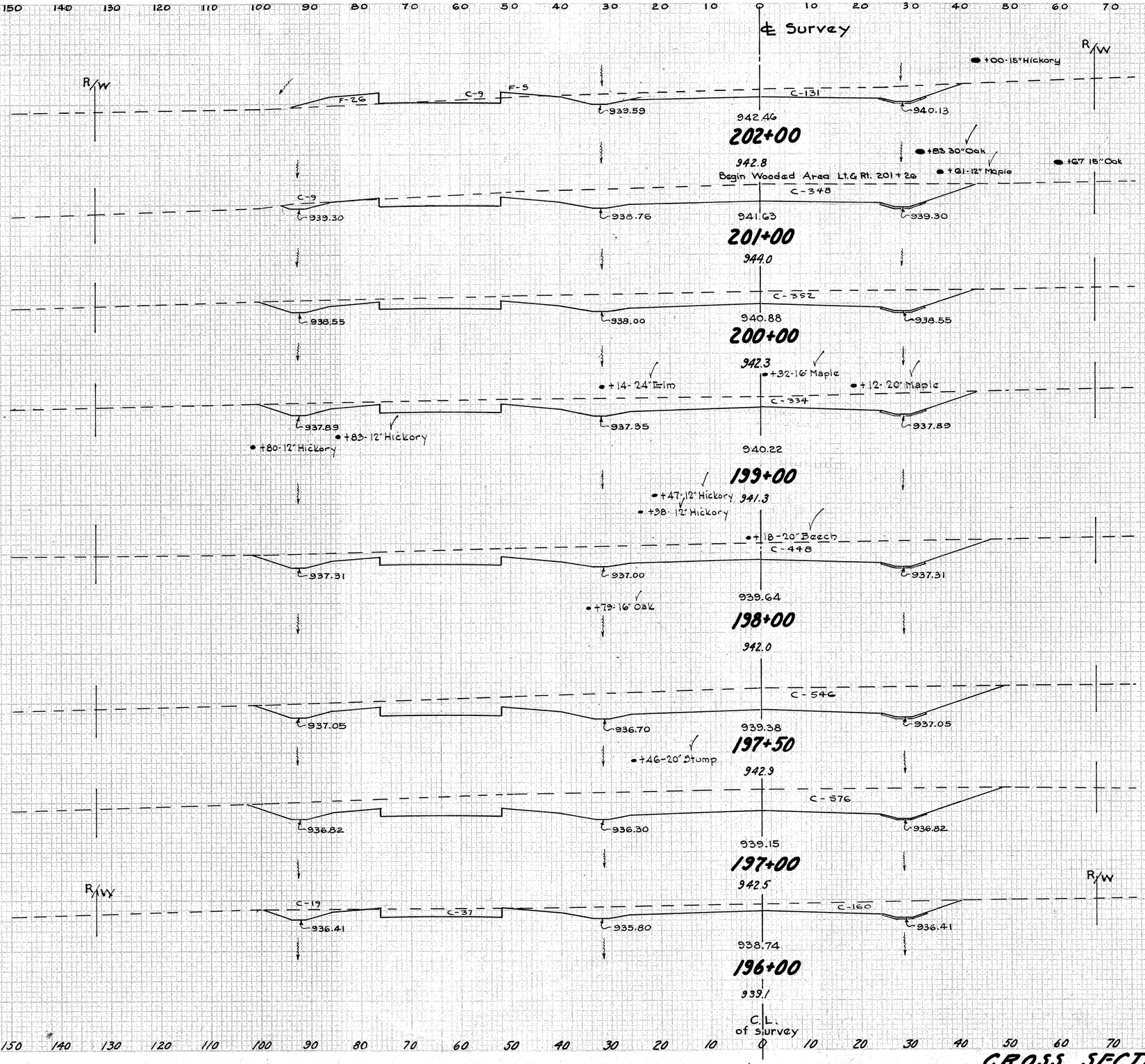
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)



SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
78		25	65		
	972			78	754
97		17	342		
	1161			56	1541
112		13	490		
	1300			52	1908
114		15	540		
	1311			85	1969
122		27	523		
	1372			111	1811
125		33	455		
	1350			185	1602
118		67	410		
	1333			213	1889
122		48	610		
	675			70	1220
121		27	708		

Excavation 23733 Cu. Yds.
Embankment 18538 Cu. Yds.
Seeding 28772 Sq. Yds.

CROSS SECTIONS STA. 188+00 to 195+00

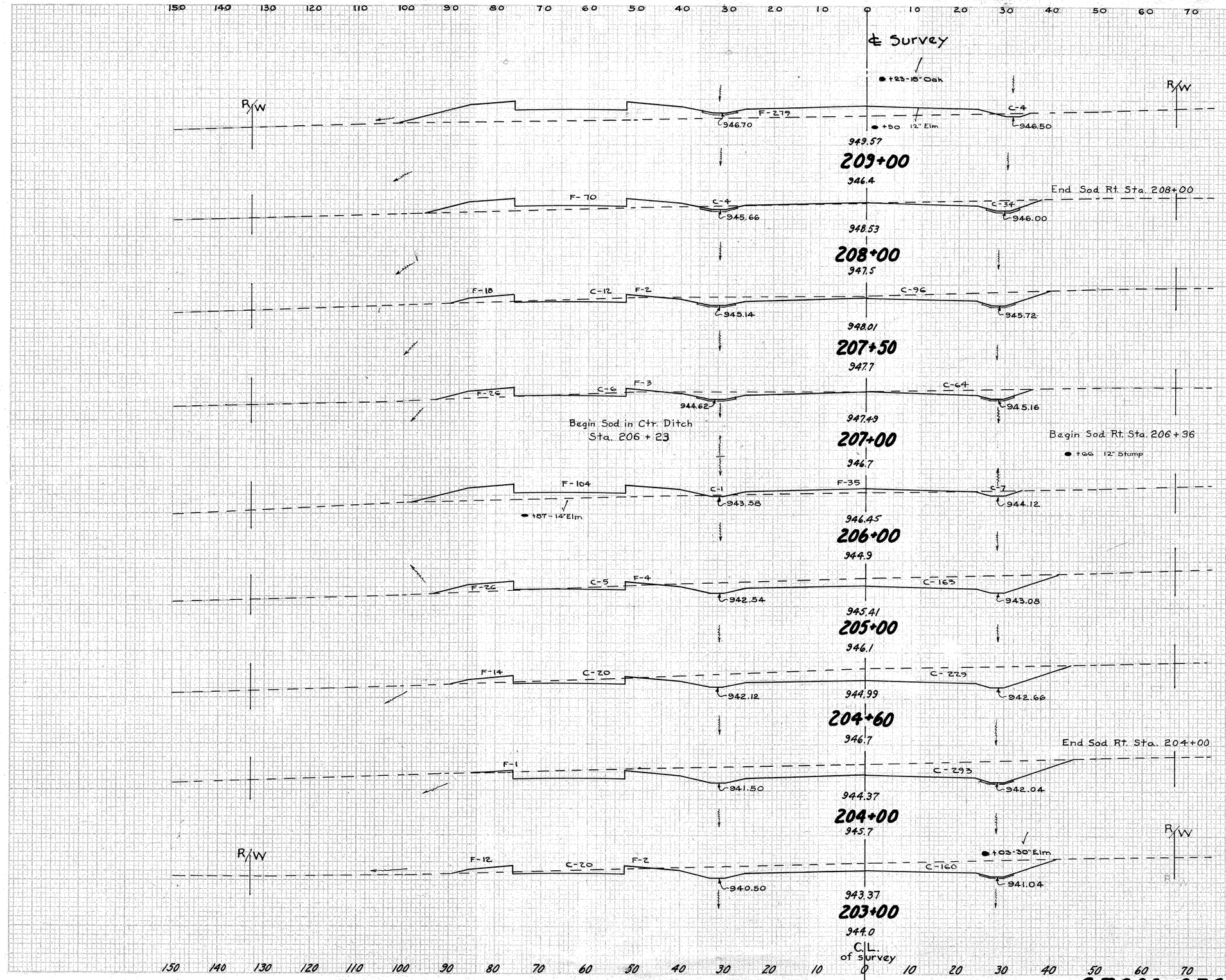


DIVISION	STATE	PROJECT	FOLIO	PAT	77
2	OHIO	F-41-(4)	1947		150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

SEEDING L.F.	SEEDING S.Y.	END AREA CUT	END AREA FILL	CU. YDS. EXC.	CU. YDS. EMB.
72		140	31		
	833			920	57
78		357	0		
	889			1313	0
82		352	0		
	922			1270	0
84		334	0		
	967			1448	0
90		448	0		
	1006			920	0
91		546	0		
	1011			1039	0
91		576	0		
	950			1467	0
80		216	0		
	878			446	120
78		25	65		

CROSS SECTIONS STA. 196+00 TO 202+00



DIVISION 2 | STATE OHIO | PROJECT F-41-(4) | YEAR 1947 | SHEET NO. 78 | TOTAL SHEETS 150

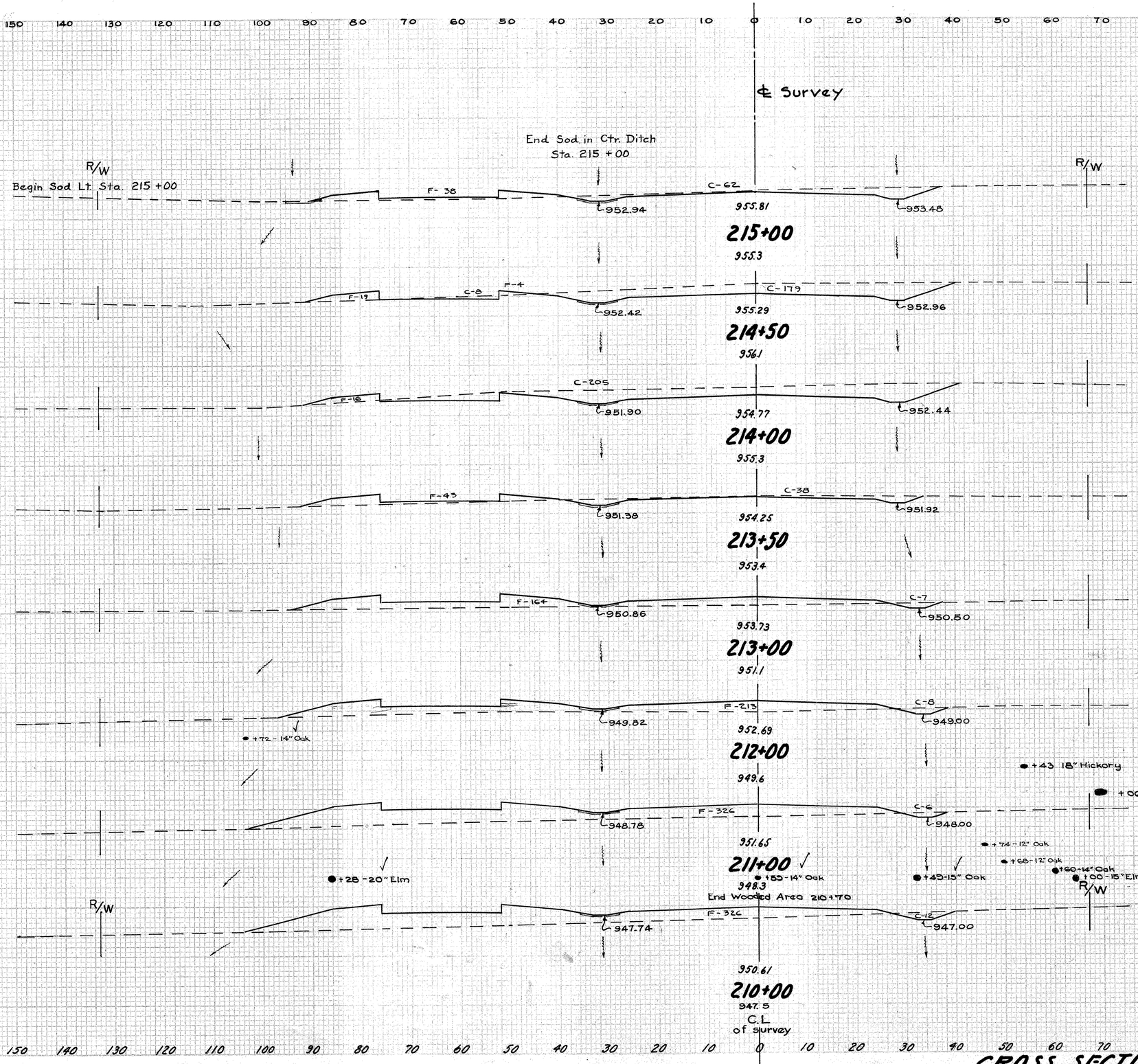
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
78		4	279		
	794			78	646
65		38	70		
	353			135	83
62		108	20		
	339			165	45
60		70	29		
	778			144	311
80		8	139		
	917			326	313
85		168	30		
	373			309	32
83		249	14		
	517			602	17
72		293	1		
	800			876	28
72		180	14		
	800			593	83
STA. 202+00 72		140	31		

CROSS SECTIONS STA 203+00 to 209+00

DIVISION 2 | STATE OHIO | PROJECT F-41-(4) | FISCAL YEAR 1947 | 79 / 150

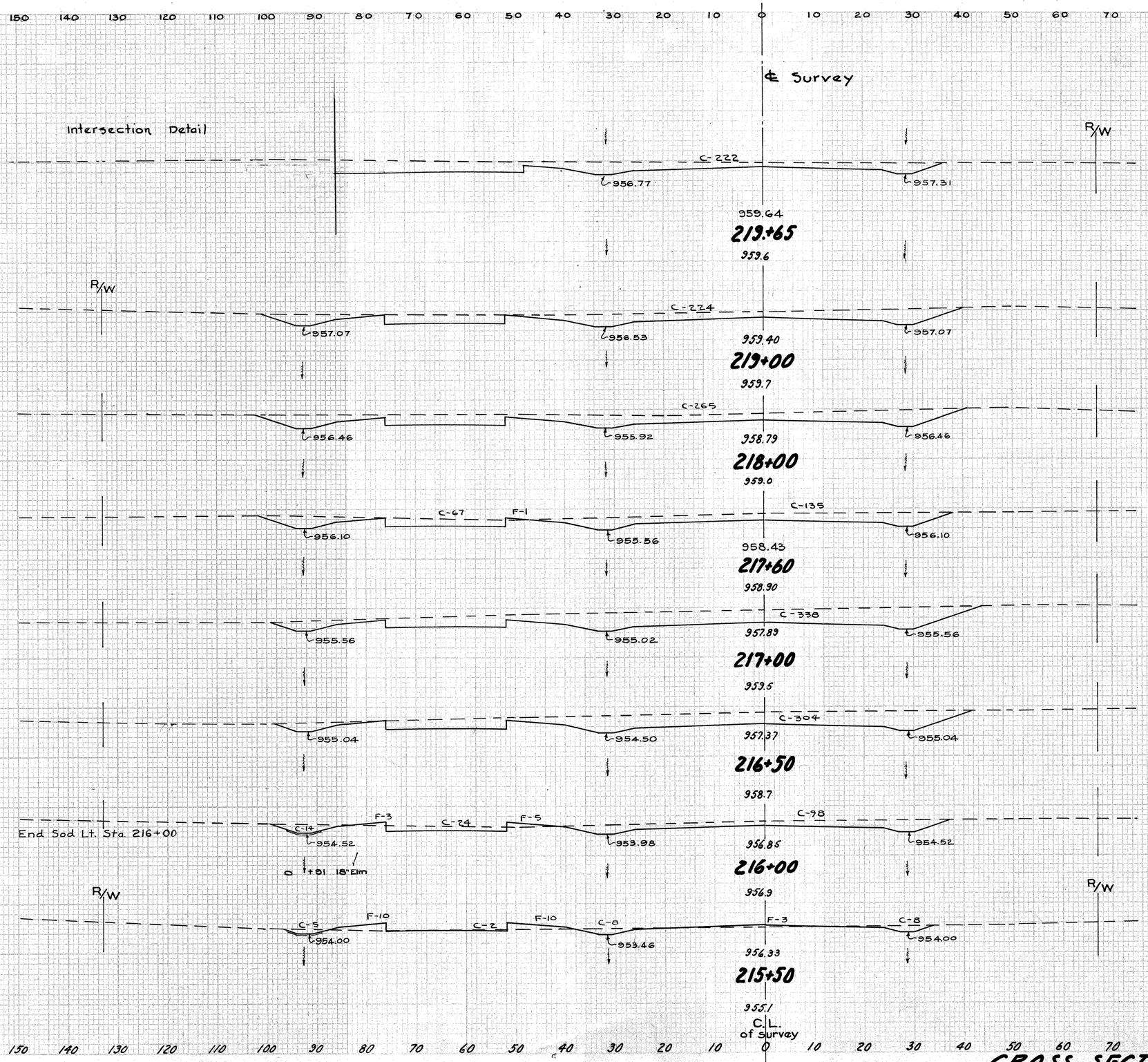
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)



SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
66		62	38		
	386			231	57
73		187	23		
	403			363	36
72		205	16		
	381			225	55
65		38	43		
	381			42	192
72		7	164		
	817			28	698
75		8	213		
	867			26	998
81		6	326		
	922			33	1207
85		12	326		
	906			30	1120
78		4	279		

Excavation 12407 Cu. Yds.
Embankment + 8525 Cu. Yds.
Seeding 22331 Sq. Yds.

CROSS SECTIONS STA. 210+00 to 215+00

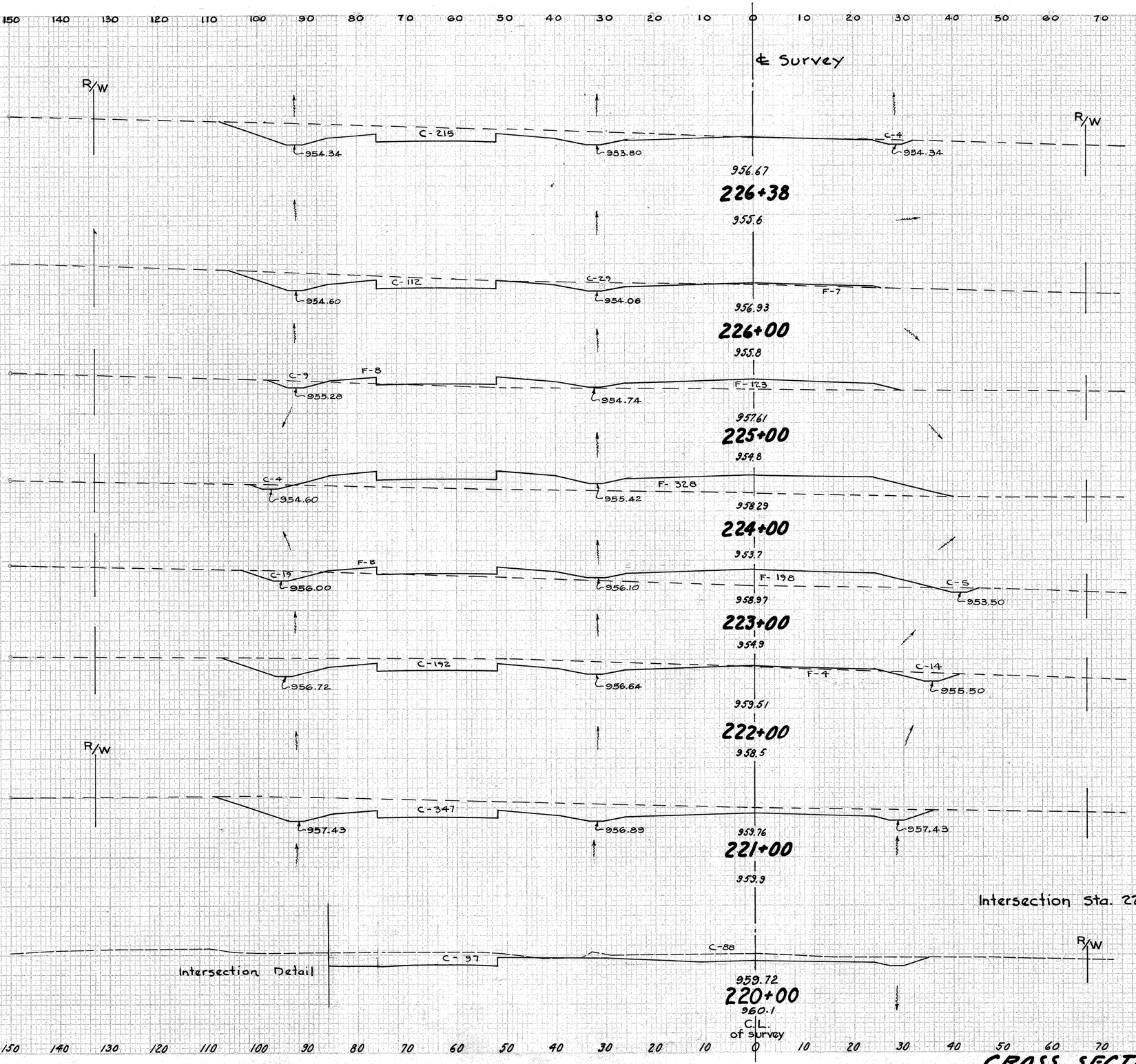


DIVISION 2 | STATE OKLA. | PROJECT F-41-(4) | FISCAL YEAR 1947 | SHEET NO. 80 | TOTAL SHEETS 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
90		222	0		
	650			539	0
90		224	0		
	1022			906	0
94		265	0		
	413			346	1
92		202	1		
	620			600	1
94		338	0		
	489			578	0
82		304	0		
	444			408	7
78		136	8		
	417			147	29
72		23	23		
	383			79	57
66		62	38		

CROSS SECTIONS STA. 215+50 TO 219+65



DIVISION	STATE	PROJECT	FISCAL YEAR	
2	OH10	F-41-(4)	1947	81 150

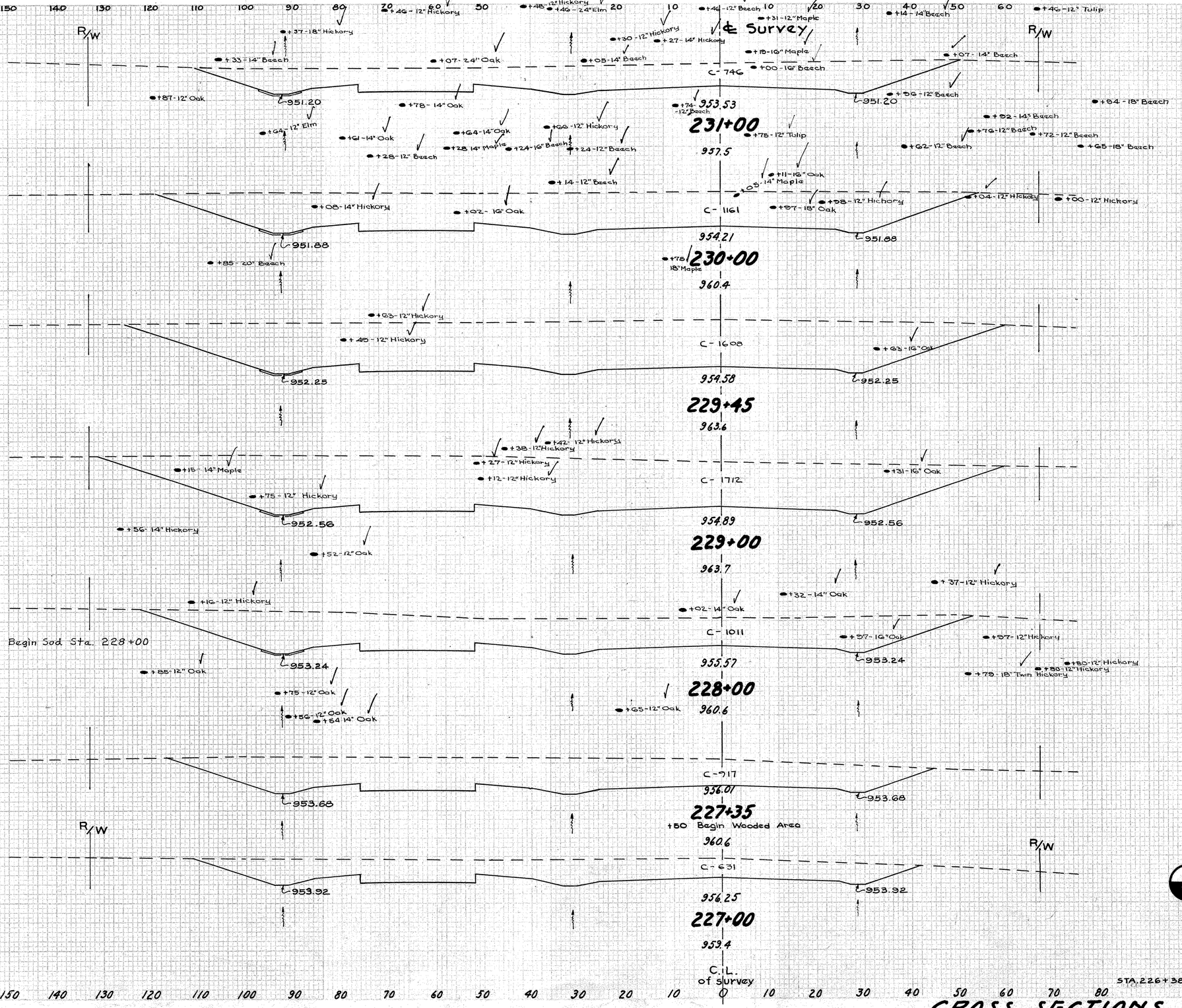
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
90		219	4		
	359			253	8
80		141	7		
	872			278	256
77		9	131		
	933			24	850
91		4	328		
	1056			52	989
99		24	206		
	1106			426	389
100		206	4		
	1083			1024	7
95		347	0		
	806			985	0
				316	6
50		185	0		
	272			264	0
90		222	0		

CROSS SECTIONS STA. 220+00 TO 226+38

DIVISION 2 | STATE OHIO | PROJECT F-41-(4) 1947 | SHEET NO. 82 | TOTAL SHEETS 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D (PT.)



SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB
103		746	0		
	1167			3532	0
107		1161	0		
	700			2820	0
122		1608	0		
	617			2767	0
125		1712	0		
	1356			5043	0
119		1011	0		
	841			2321	0
114		917	0		
	426			1003	0
105		631	0		
	672			976	4
90		219	4		

CROSS SECTIONS STA. 227+00 TO 231+00

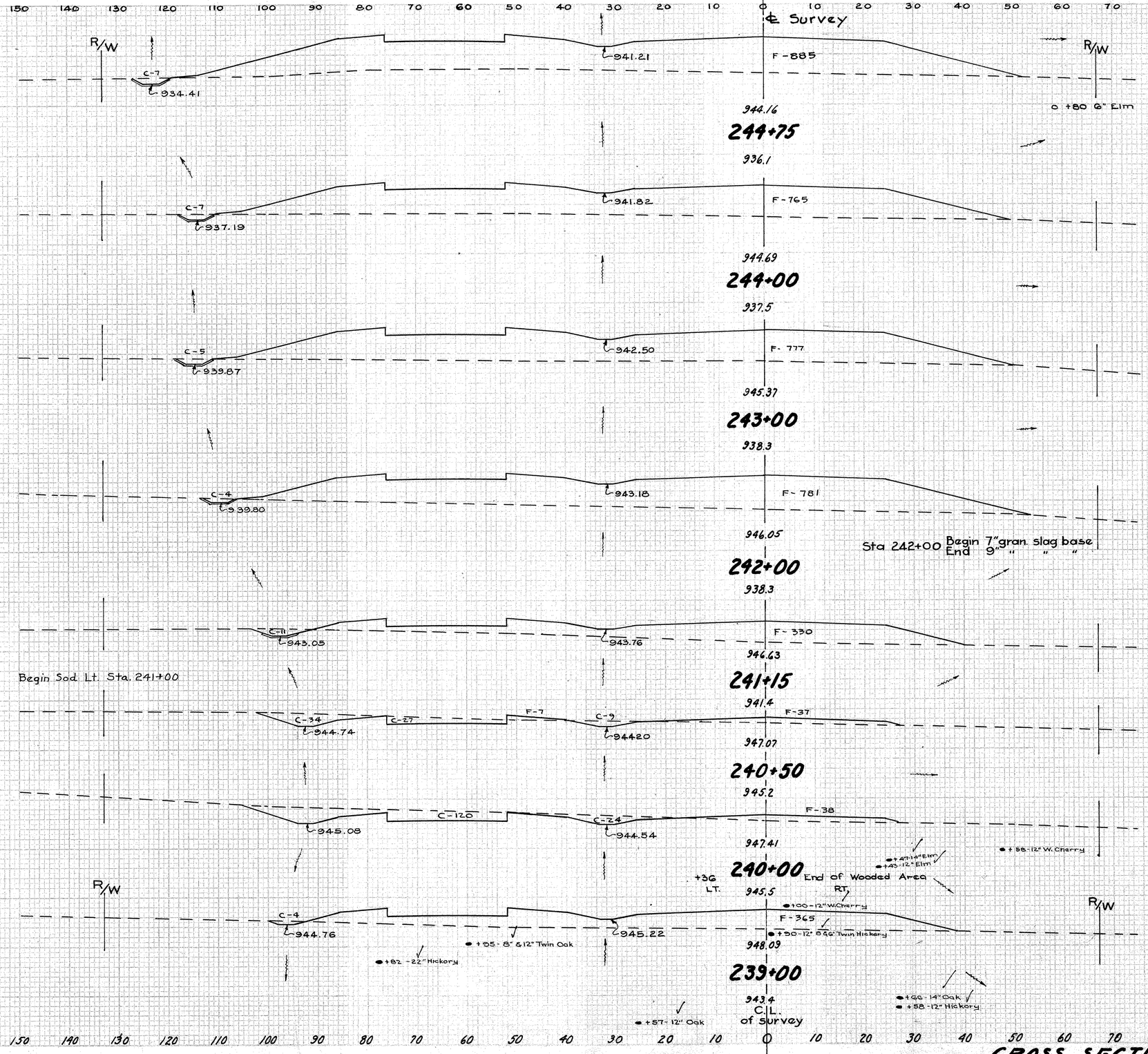
DIVISION 2 | STATE OHIO | ROUTE F-41-(4) | YEAR 1947 | 83 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)

Excavation 34512 Cu. Yds.
Embankment + 23301 Cu. Yds.
Seeding 27518 Sq. Yds.

SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
103		11	538		
	1006			80	1396
78		32	216		
	439			94	250
80		70	54		
	447			129	139
81		69	96		
	872			243	287
76		62	59		
	839			250	126
75		73	9		
	828			415	33
74		151	9		
	524			397	11
71		179	0		
	313			387	0
90		418	0		
	1072			2156	0
103		746	0		

CROSS SECTIONS STA. 232+00 to 238+00

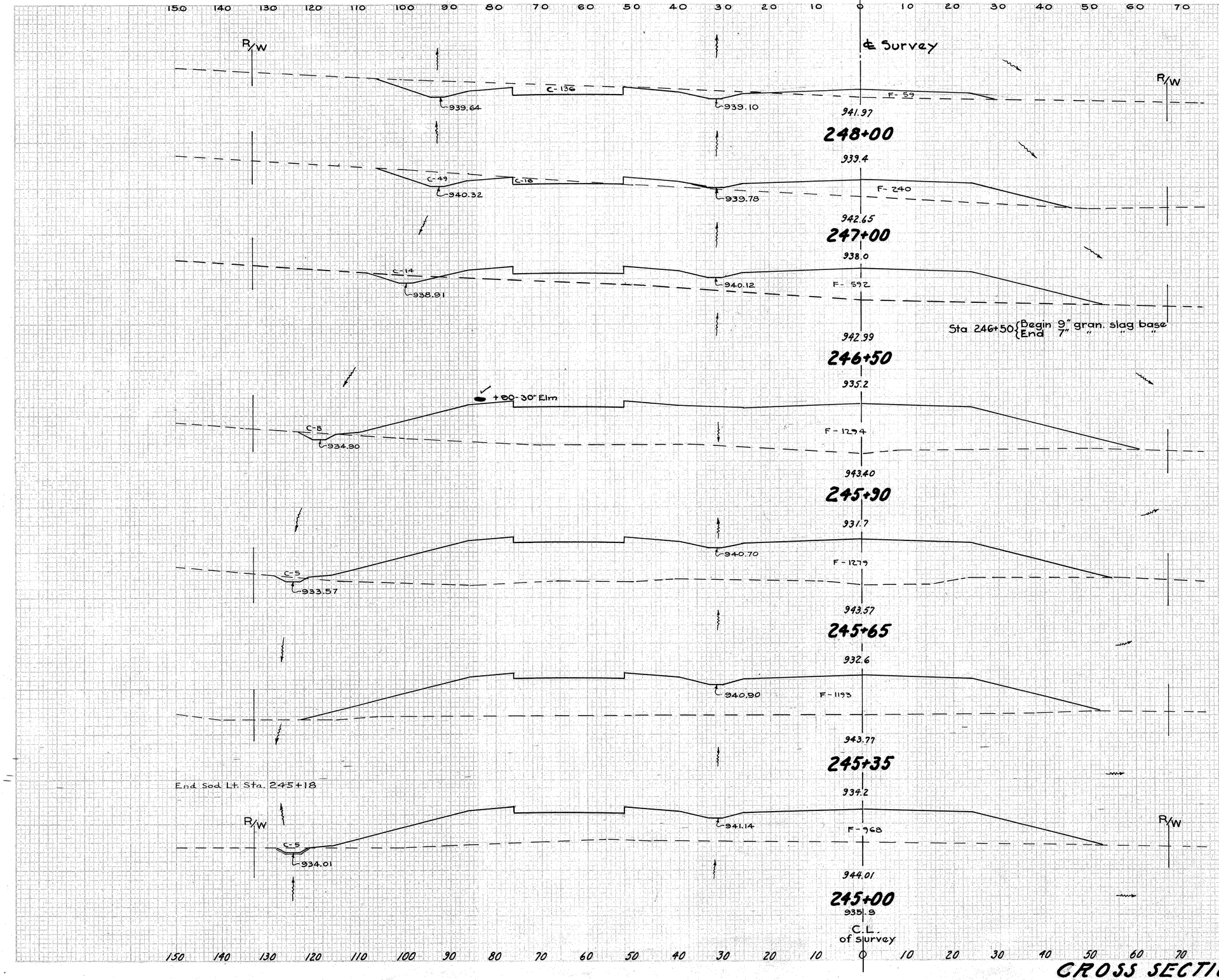


FED. AID DIVISION	STATE	PROJECT	FISCAL YEAR	SHEET NO.
2	OHIO	F-41-(4)	1947	84 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
116		7	885		
	933			20	2292
108		7	765		
	1206			22	2856
109		5	777		
	1206			17	2885
108		4	781		
	907			24	1749
84		11	330		
	581			98	450
77		70	44		
	436			198	76
80		144	38		
	922			274	746
86		4	365		
	1050			28	1672
103		11	538		

CROSS SECTIONS STA. 239+00 to 244+75

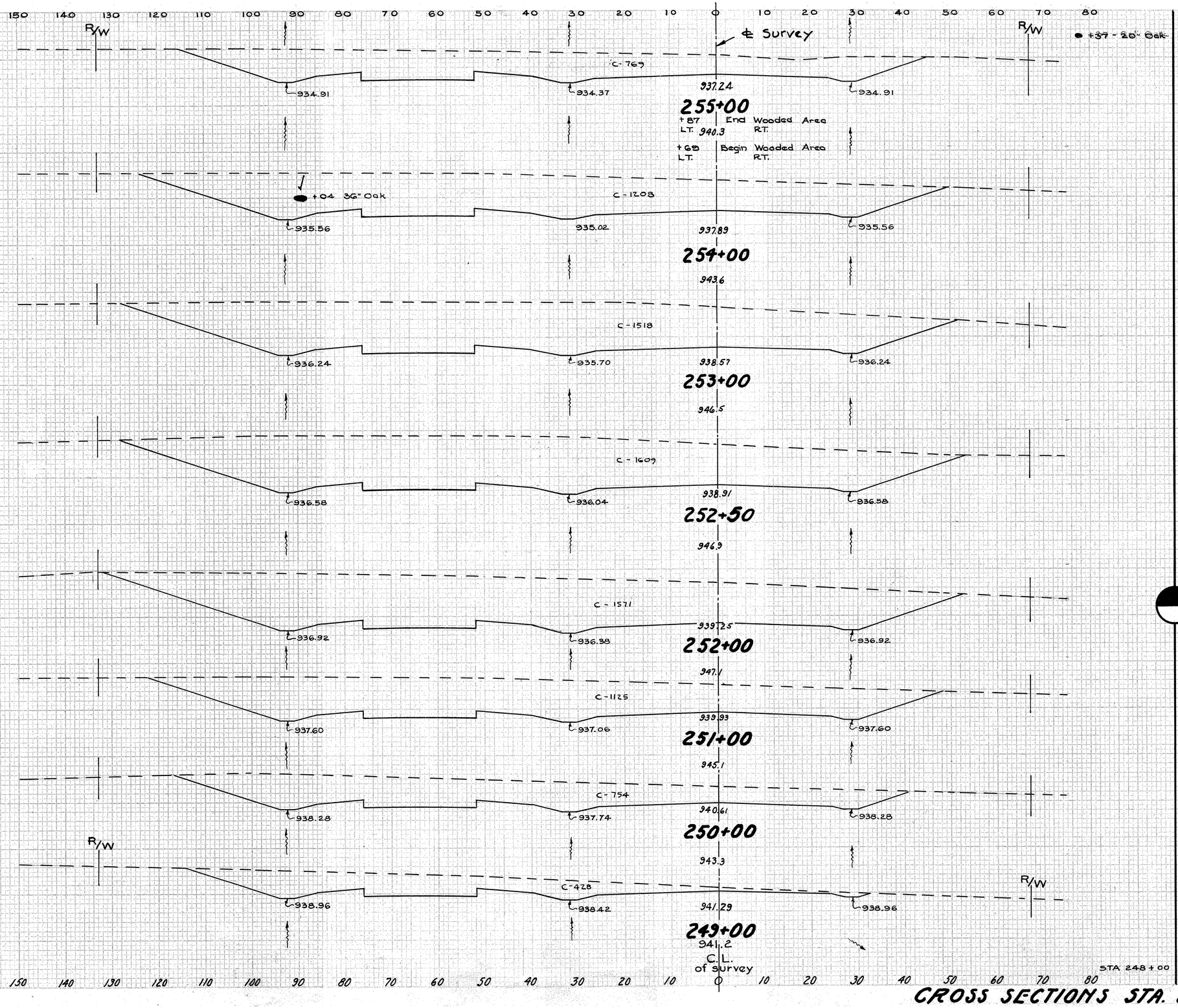


DIVISION	STATE	PROJECT	YEAR	SHEET NO.
2	OHIO	F-41-(4)	1947	85
				150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	Sq.Yds.	CUT	FILL	EXC.	EMB.
84		136	59		
	1033			372	534
102		65	240		
	589			73	771
110		14	592		
	807			25	2096
132		8	1274		
	361			6	1191
128		5	1279		
	422			3	1373
125		0	1193		
	482			3	1401
123		5	968		
	332			6	858
116		7	885		

CROSS SECTIONS STA. 245+00 to 248+00

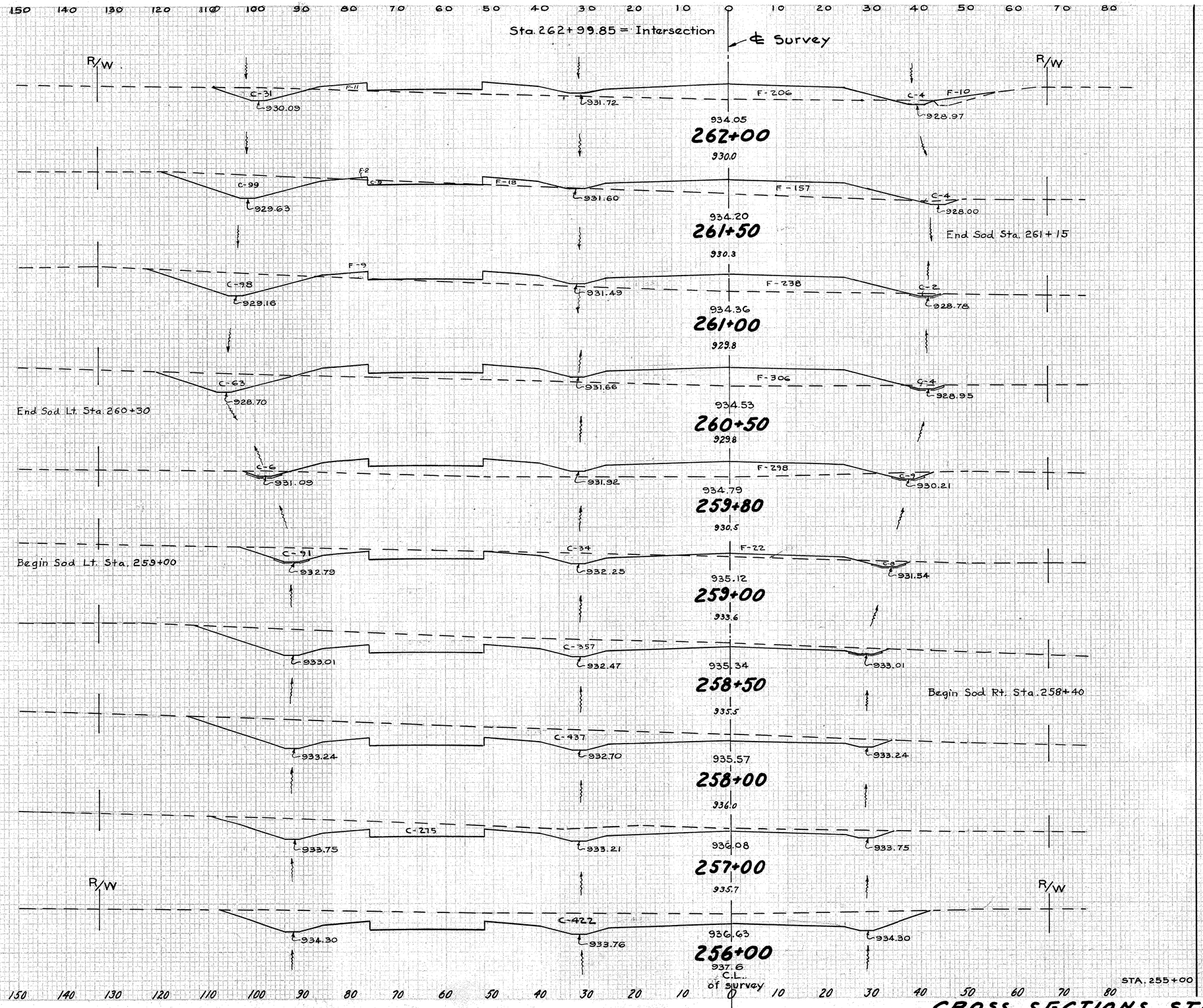


DIVISION	STATE	PROJECT	FISCAL YEAR	
2	OH10	F-41-(4)1947		86 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	Sq. Yds	CUT	FILL	EXC.	EMB.
112		769	0		
	1317			3661	0
125		1208	0		
	1411			5048	0
129		1518	0		
	717			2896	0
129		1609	0		
	717			2945	0
129		1571	0		
	1400			4993	0
123		1125	0		
	1282			3480	0
108		754	0		
	1128			2189	0
95		428	0		
	994			1044	109
84		136	59		

CROSS SECTIONS STA. 249+00 TO 255+00

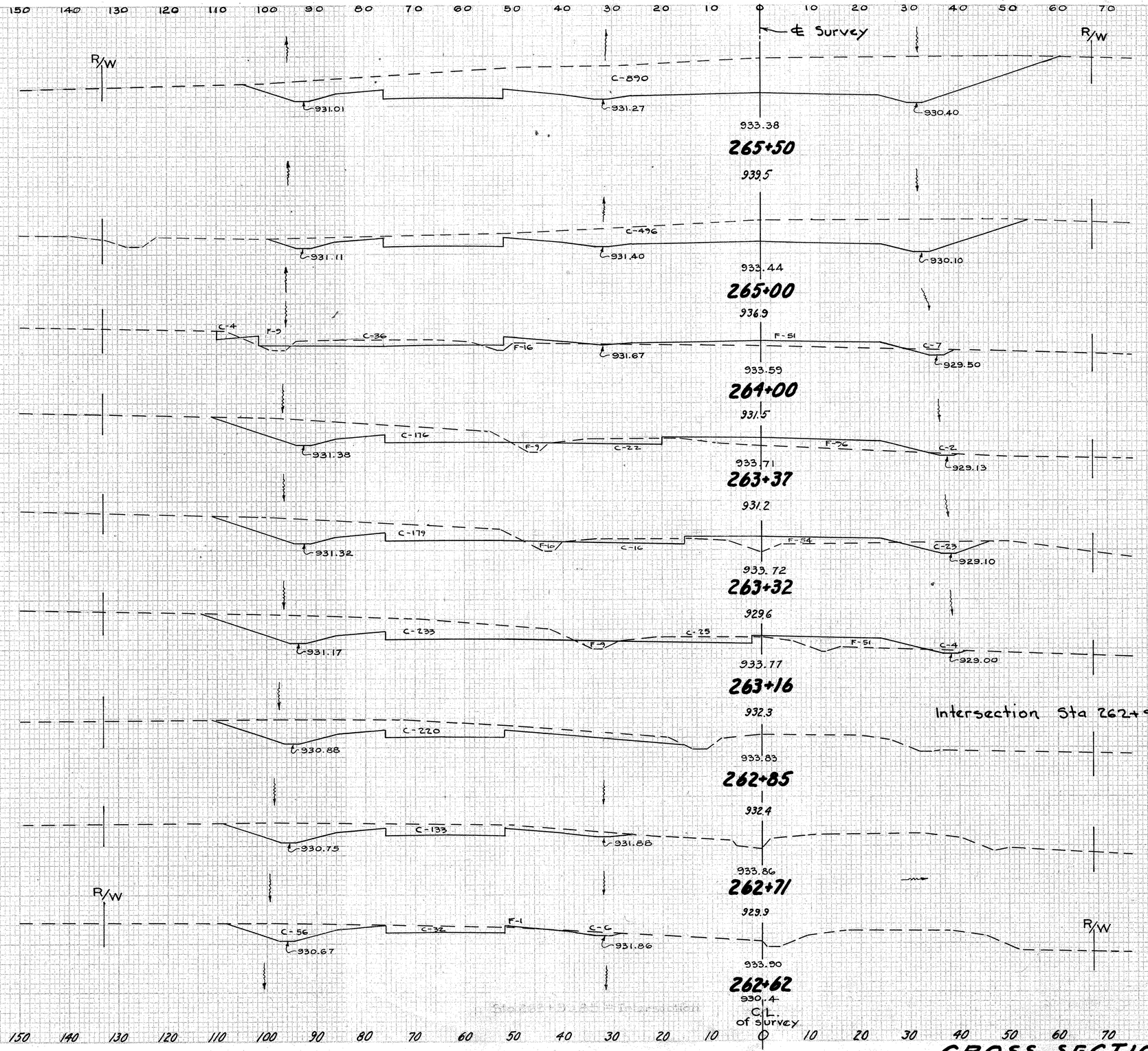


DIVISION 2 | OHIO | F-41-(4) 1947 | 87 | 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.),C,D(PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	Sq.Yds.	CUT	FILL	EXC.	EMB.
102		35	227		
	633			136	374
126		112	177		
	656			196	393
110		100	247		
	608			155	512
109		67	306		
	730			106	783
79		15	298		
	680			219	474
74		133	22		
	450			454	21
88		357	0		
	514			735	0
97		437	0		
	1061			1319	0
94		275	0		
	1078			1291	0
100		422	0		
	1178			2206	0
112		767	0		

CROSS SECTIONS STA. 256+00 TO 262+00



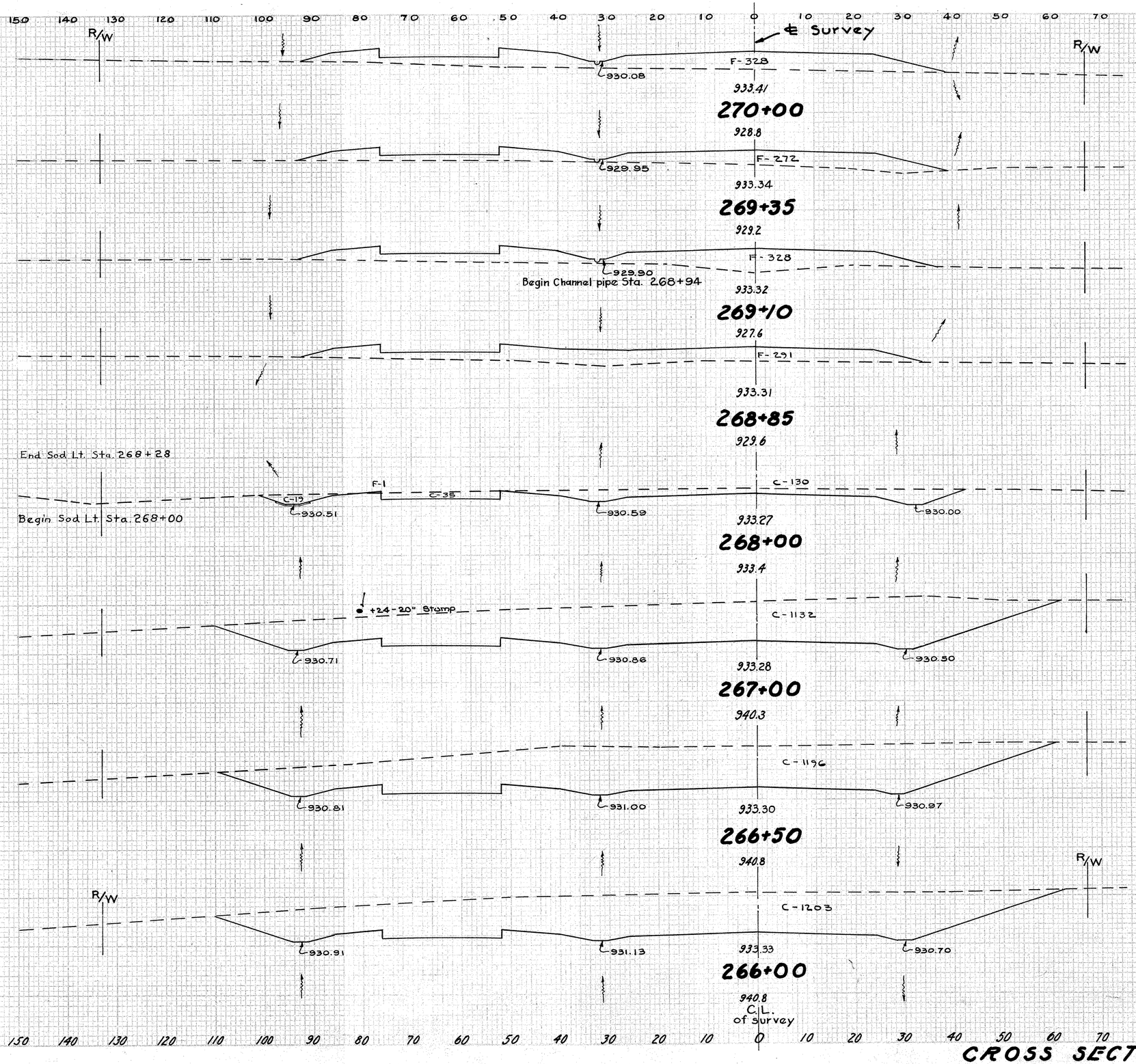
DIVISION	STATE	PROJECT	FISCAL YEAR		
2	OHIO	F-41-(4)	1947	88	150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	Sq. Yds.	CUT	FILL	EXC.	EMB.
112		890	0		
	594			1283	0
102		496	0		
	967			1006	141
72		47	76		
	658			288	211
116		200	105		
	66			39	16
120		218	64		
	201			142	37
106		262	60		
	327			277	34
				264	89
84		220	0		
	121			92	0
72		133	0		
	71			38	1
70		94	1		
	593			148	262
102		35	227		

Excavation 35486 cu. yds.
Embankment 11162 cu. yds.
Seeding 27878 Sq. Yds.

CROSS SECTIONS STA. 262+62 to 265+50

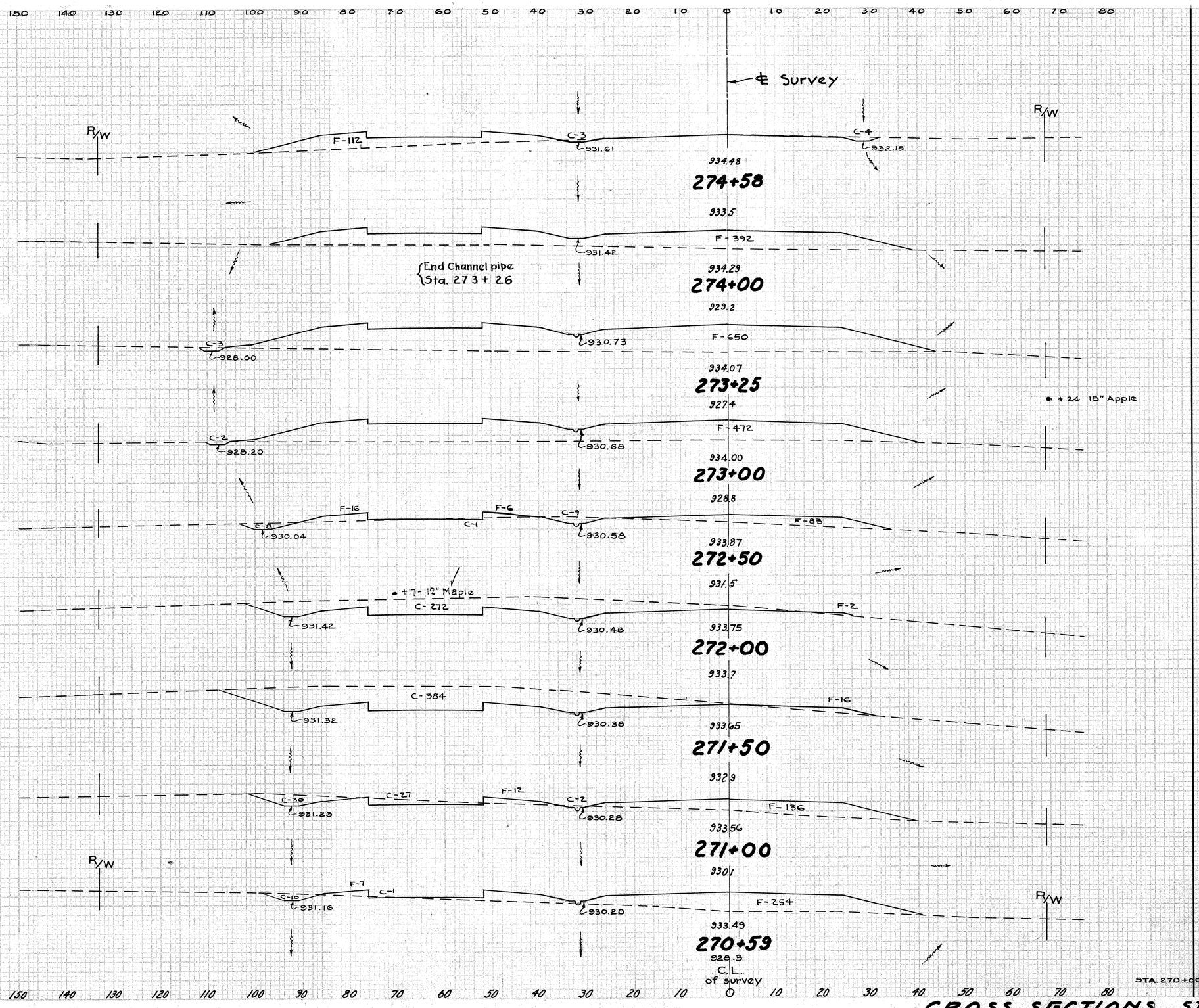


DIVISION 2 | STATE OHIO | PROJECT F-41-(4) | FISCAL YEAR 1947 | SHEET NO. 89 | TOTAL SHEETS 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT), C, D (PT.)

SEEDING		END AREA		CU. Yds.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
80	578	0	328	0	722
80		0	272		
	217			0	278
76		0	328		
	208			0	287
74		0	291		
	765			290	460
88		184	1		
	1156			2437	2
120		1132	0		
	667			2156	0
120		1196	0		
	667			2222	0
120		1203	0		
	644			1938	0
112		890	0		

CROSS SECTIONS STA. 266+00 TO 270+00



DIVISION 2 | STATE OHIO | PROJECT F-41-(4) | FISCAL YEAR 1947 | 90 150

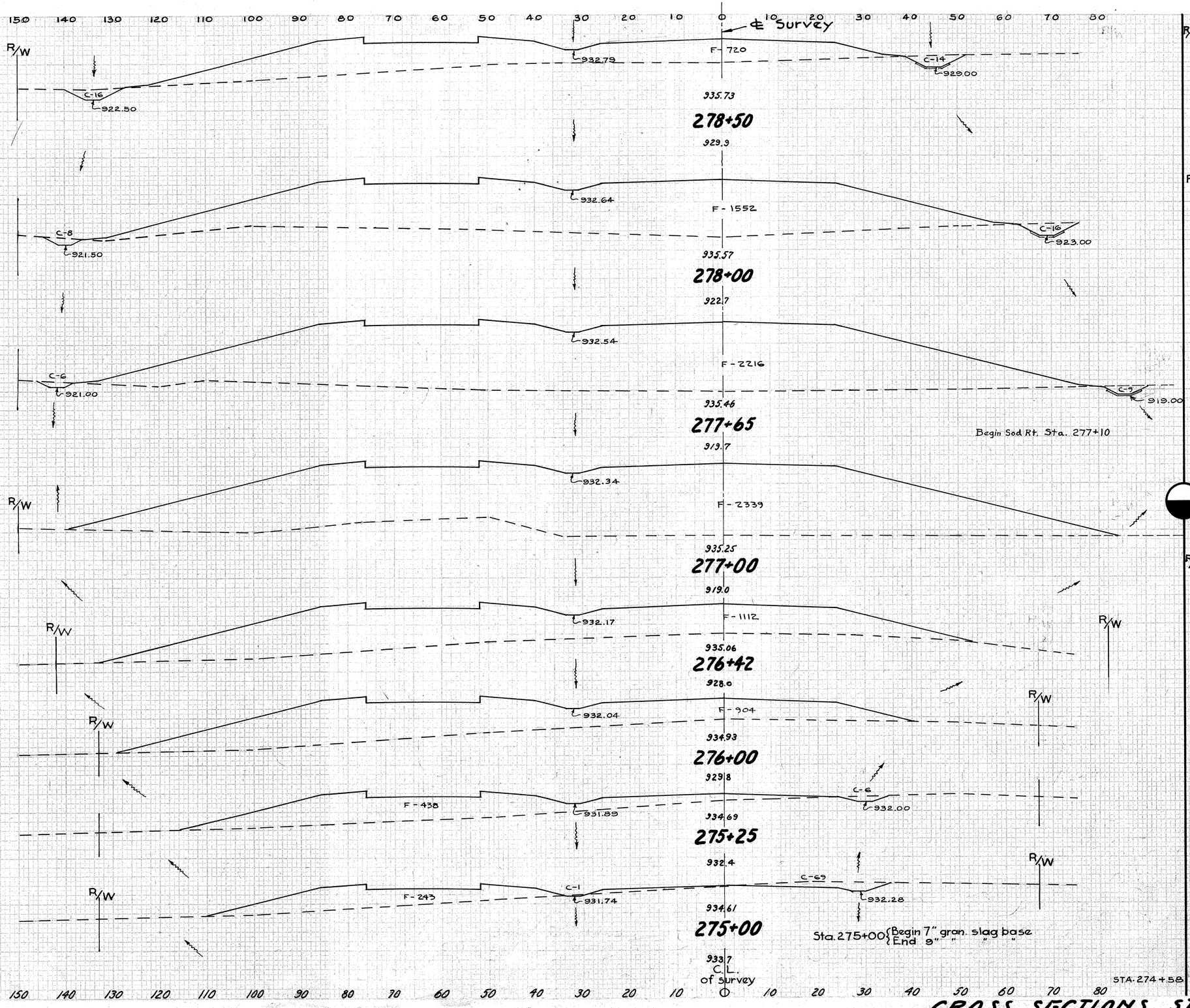
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
80		7	112		
	535			8	541
86		0	392		
	800			4	1448
106		3	650		
	286			2	520
100		2	472		
	522			19	535
88		18	105		
	456			269	99
76		272	2		
	456			607	17
88		384	16		
	494			410	152
90		59	148		
	405			65	379
88		11	261		
	551			12	644
80		0	328		

CROSS SECTIONS STA. 270+59 to 274+58

DIVISION 2 | STATE OHIO | PROJECT F-41-(4) | 1947 | SHEET NO. 91 | TOTAL SHEETS 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C. D (PT.)

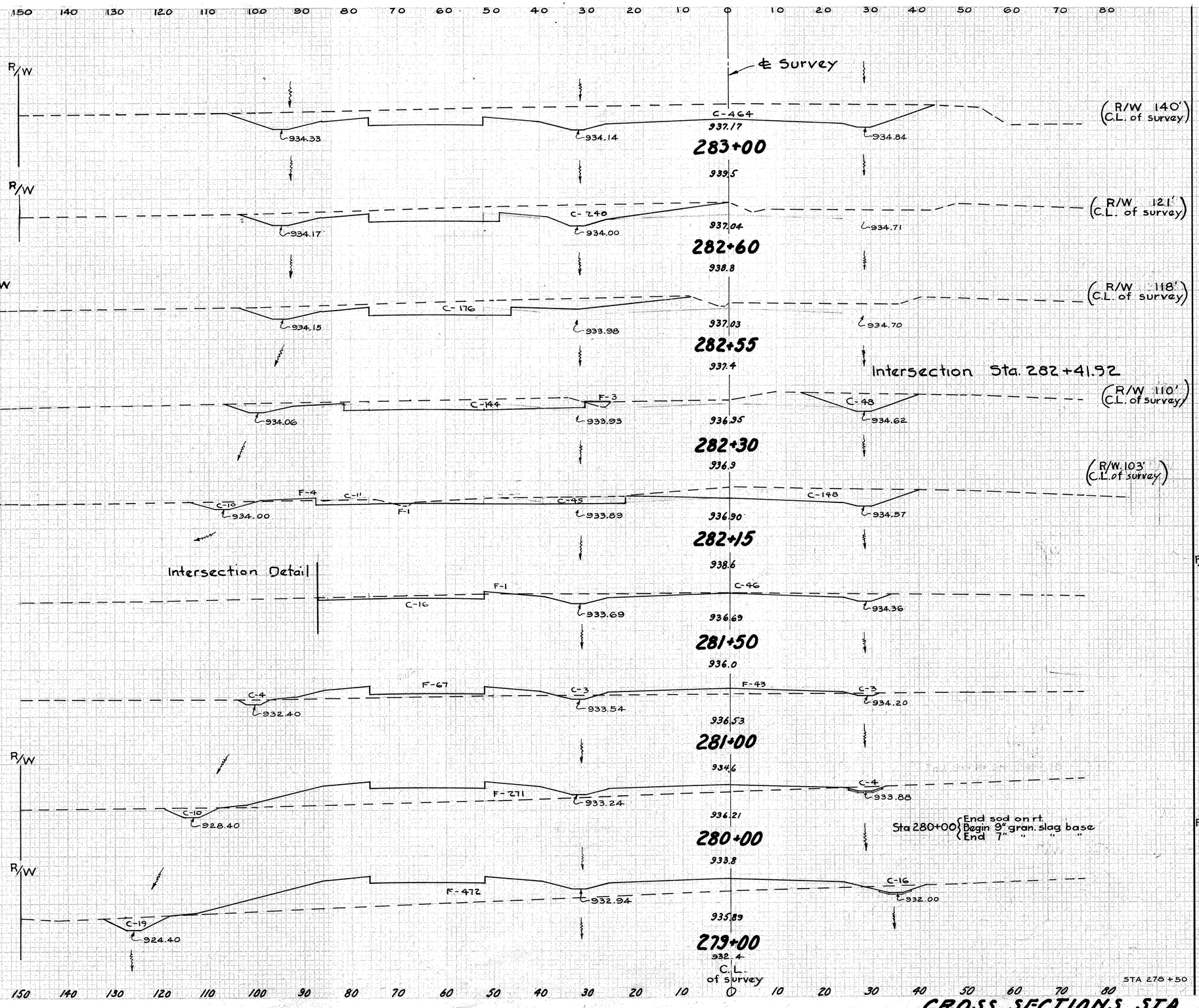


SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
134		30	720		
	817			50	2104
160		24	1552		
	638			25	2092
168		15	2216		
	1206			18	5483
166		0	2339		
	973			0	3707
136		0	1112		
	583			0	1568
114		0	904		
	892			8	1864
100		6	438		
	269			35	315
94		70	243		
	406			60	276
80		7	112		

CROSS SECTIONS STA. 275+00 to 278+50

DIVISION	STATE	PROJECT	FILE	
2	OHIO	F-41-(4)	1947	92 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)



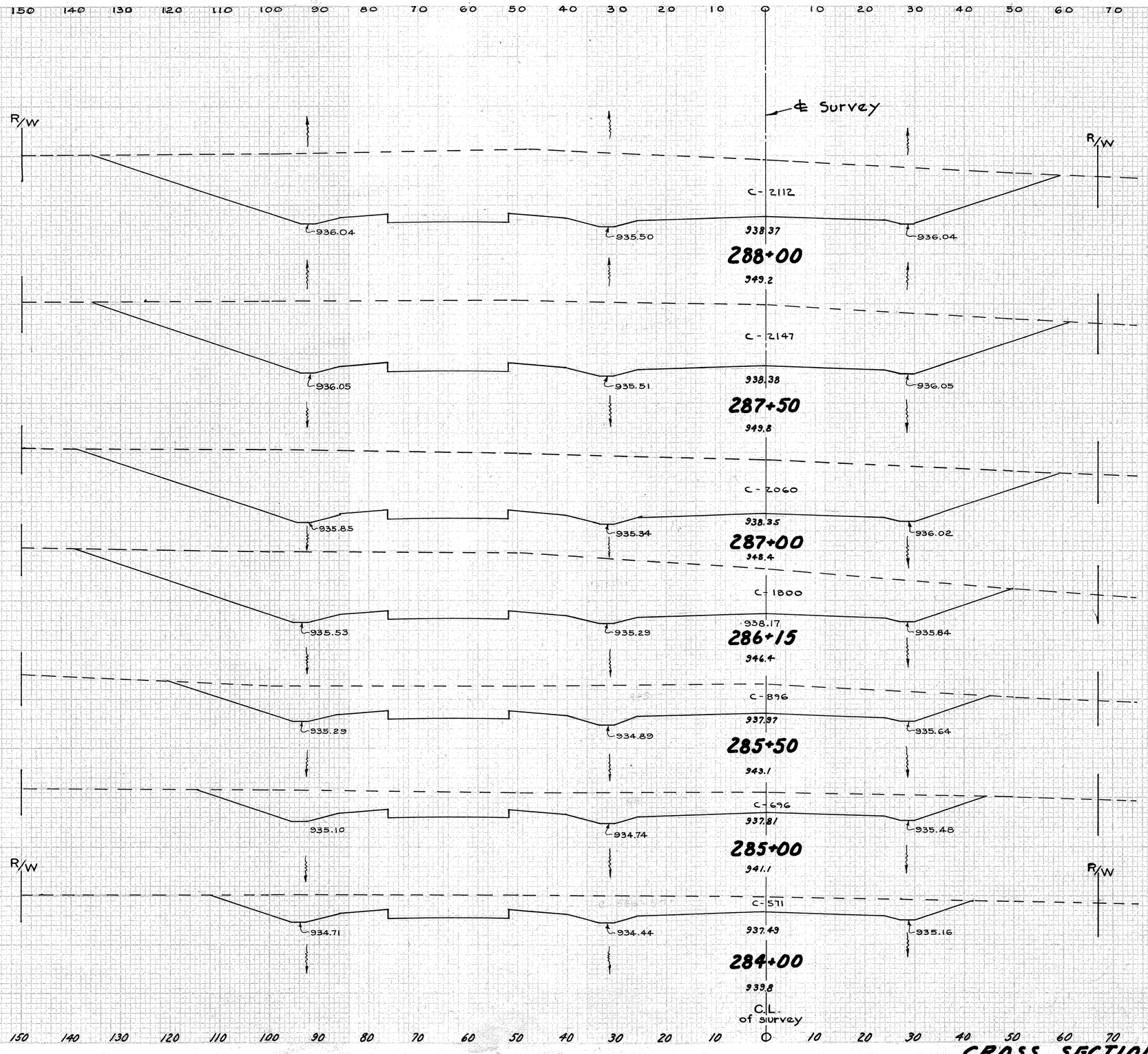
Sta 280+00 { End sod on rt.
Begin 9" gran. slag base
End 7" " " "

SEED IN G.		END AREA		CU. YDS.	
L. F.	Sq. Yds.	CUT	FILL	EXC.	EMB.
100		464	0		
	418			522	0
88		240	0		
	52			39	0
98		176	0		
	278			170	3
				30	10
102		192	3		
	163			113	2
94		214	5		
	513			332	7
R/W 48		62	1		
	367			67	103
84		10	110		
	1000			44	706
96		14	271		
R/W	1189			91	1376
118		35	472		
	700			60	1104
134		30	720		

CROSS SECTIONS STA. 279+00 TO 283+00

DIVISION	STATE	PROJECT	OVERALL NO.	
2	OHIO	F-41-(4)	1947	93 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C.D(PT.)



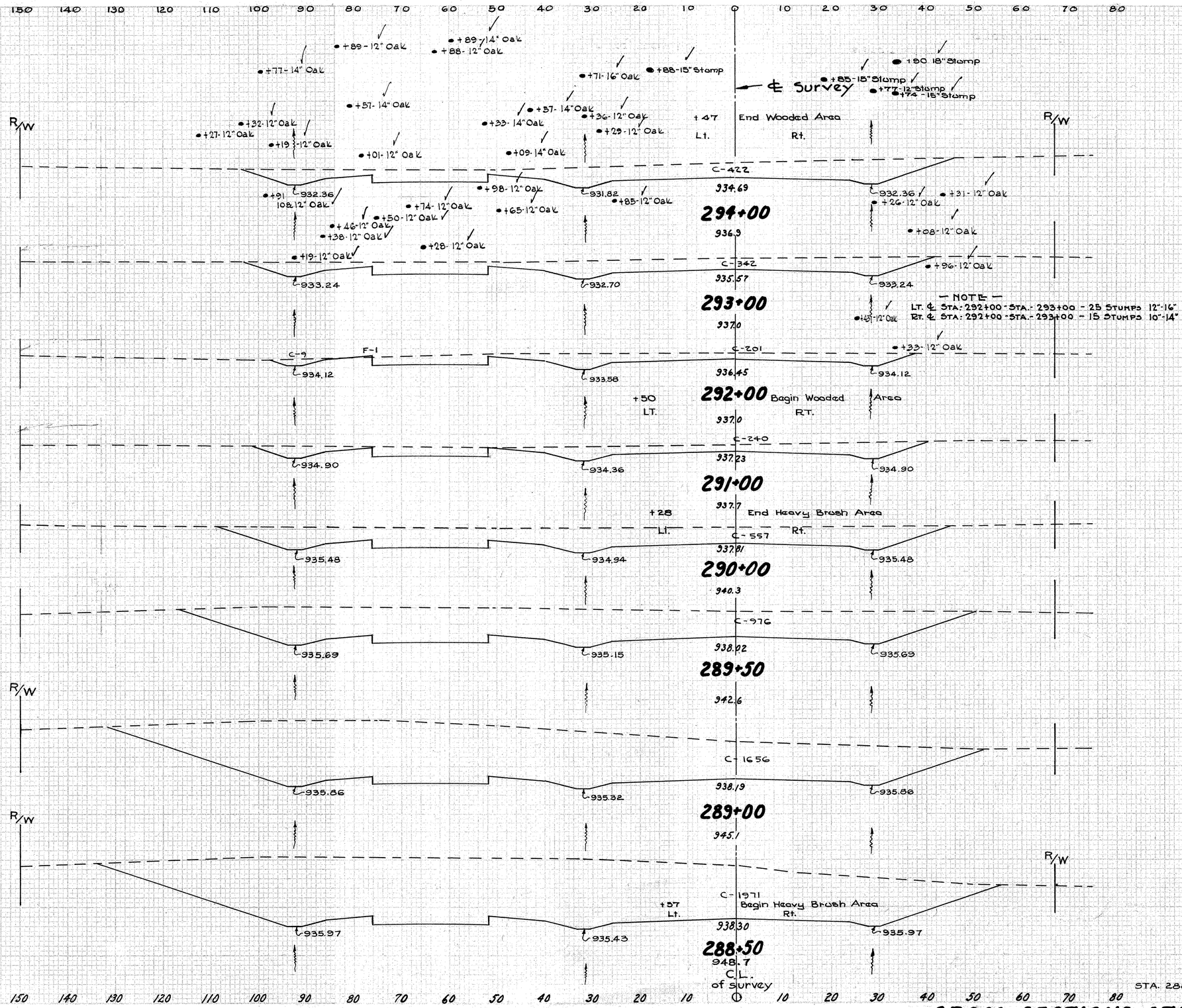
Excavation 49,198 Cu. Yds.
Embankment 16,579 Cu. Yds.
Seeding 30,527 Sq. Yds.

SEEDING		END AREA		CU. YDS.	
L.F.	Sq.Yds	CUT	FILL	EXC.	EMB.
146		2112	0		
	811			3944	0
146		2147	0		
	822			3895	0
150		2060	0		
	1379			6077	0
142		1800	0		
	939			3245	0
118		896	0		
	639			1474	0
110		696	0		
	1200			2346	0
106		571	0		
	1144			1917	0
100		464	0		

CROSS SECTIONS STA. 284+00 TO 288+00

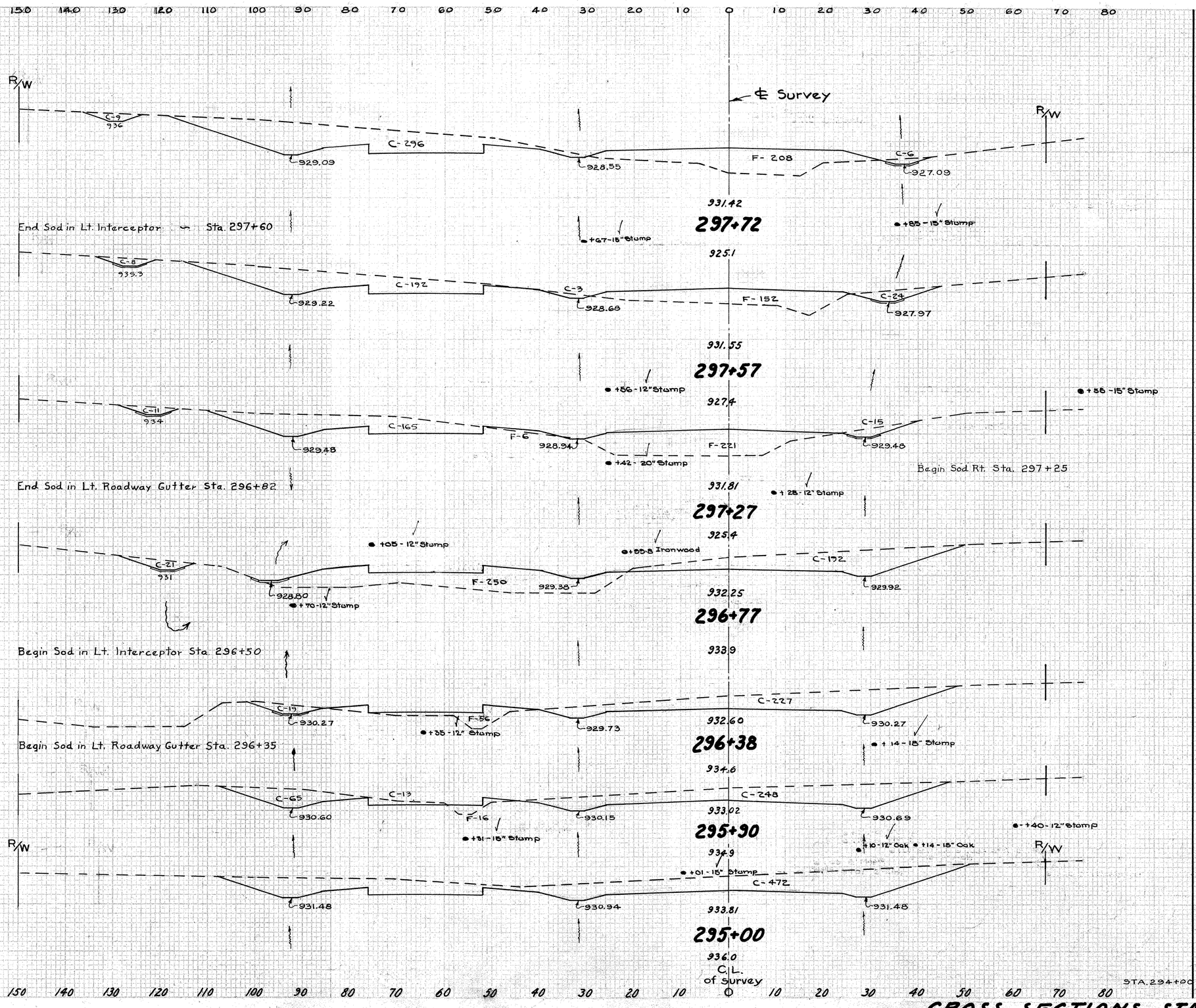
DIVISION	STATE	PROJECT		ITEM	
2	OH10	F-41-(4)	1947	94	150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.)C. D (PT.)



SEEDING L. F.	SEEDING Sq. Yds.	END AREA CUT	END AREA FILL	CU. YDS. EXC.	CU. YDS. EMB.
100		422	0		
	1078			1415	0
94		342	0		
	989			1022	2
84		210	1		
	978			833	2
92		240	0		
	1100			1476	0
106		557	0		
	622			1420	0
118		976	0		
	733			2437	0
146		1656	0		
	806			3359	0
144		1971	0		
	806			3781	0
146		2112	0		

CROSS SECTIONS STA. 288+50 to 294+00



DIVISION	STATE	PROJECT	FISCAL YEAR	95
2	OHIO	F-41-(4)	1947	150

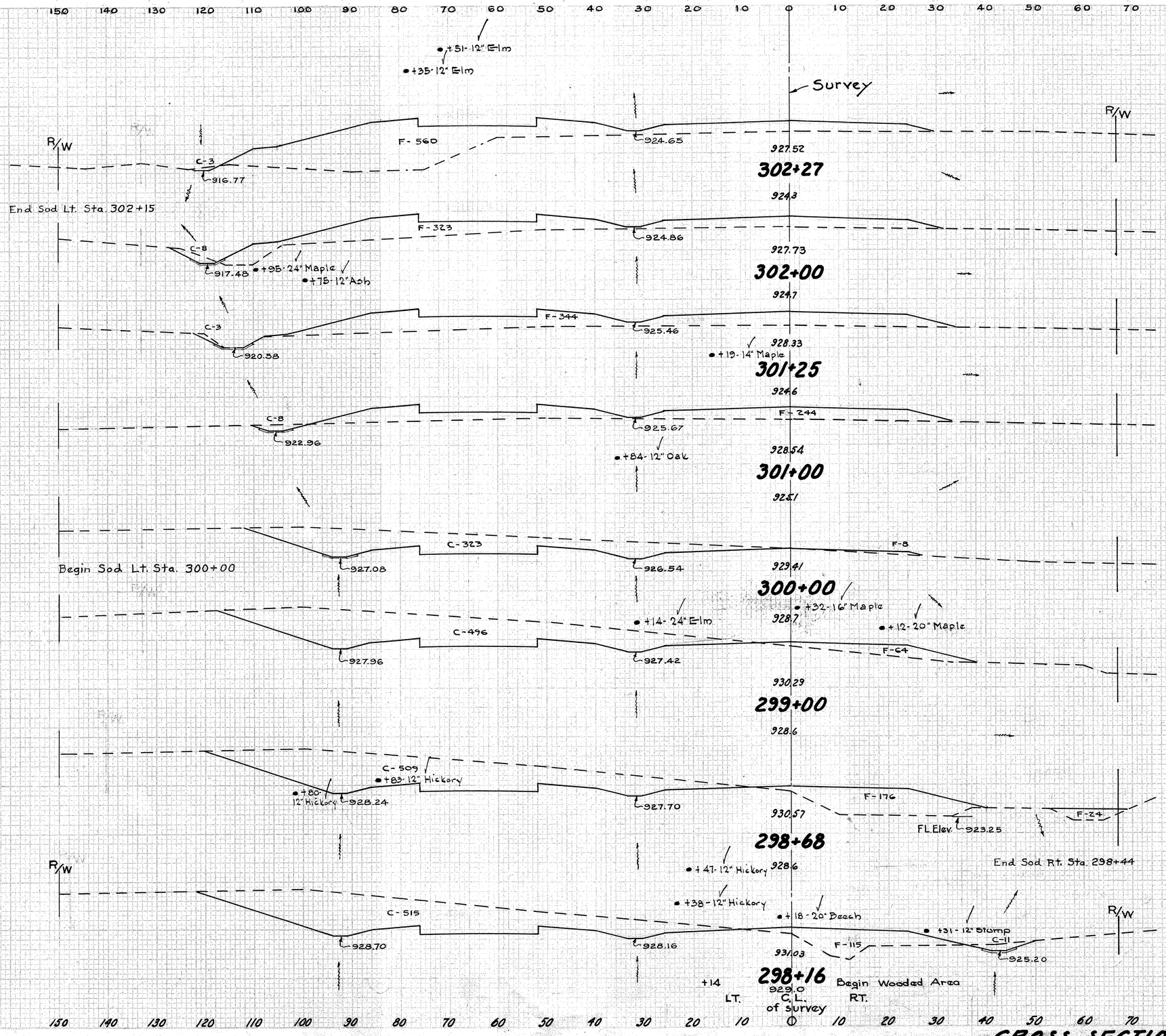
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D (PT.)

SEEDING		END AREA		CU.	YDS.
L. F.	S.Y.	CUT	FILL	EXC.	EMB
112		311	208		
	190			149	100
116		227	152		
	370			232	211
106		191	227		
	617			374	442
116		213	250		
	446			332	221
90		246	56		
	523			508	64
106		326	16		
	1080			1330	27
110		472	0		
	1167			1656	0
100		422	0		

CROSS SECTIONS STA. 295+00 to 297+72

DIVISION	STATE	PROJECT	FISCAL YEAR	
2	OHIO	F-41-(4)	1947	96 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)



SEEDING		END AREA		CU. YDS.	
L.F.	S.Y.	CUT	FILL	EXC.	EMB.
102		3	560		
	315			5	441
108		8	323		
	858			5	926
98		3	344		
	256			5	272
86		8	244		
	922			613	467
80		323	8		
	1033			1517	133
106		496	64		
	416			596	156
128		509	200		
	705			997	303
116		526	115		
	557			682	263
112		311	208		

CROSS SECTIONS STA. 298+16 TO 302+27

DIVISION	STATE	PROJECT	PAGE	
2	OHIO	F-41-(4)1947		97 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C.D (PT.)

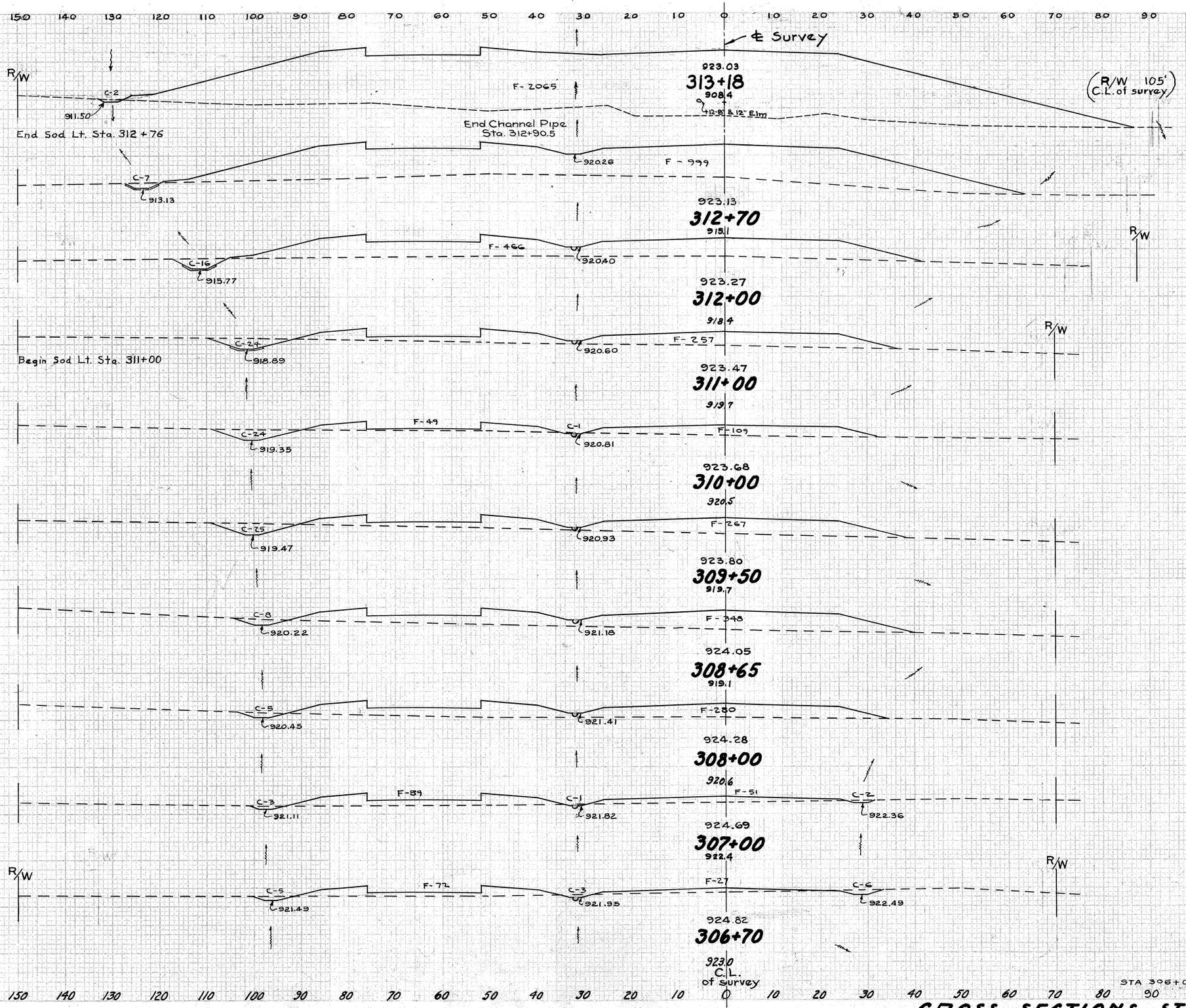
SEEDING		END AREA		CU.YDS	
L.F.	Sq.Yds	CUT	FILL	EXC.	EMB.
84		4	208		
	533			7	588
108		4	427		
	561			10	699
94		7	328		
	528			10	519
96		4	232		
	281			6	348
106		9	520		
	746			28	1751
118		16	1056		
	467			14	1493
122		6	1248		
	390			11	1214
112		14	936		
	480			28	1266
104		24	773		
	378			17	815
102		3	560		

STA. 302+27

CROSS SECTIONS STA. 302+60 TO 306+00

DIVISION 2 | STATE OHIO | FED. AID PROJECT F-41-(4) 1947 | 98 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT), C, D (PT)

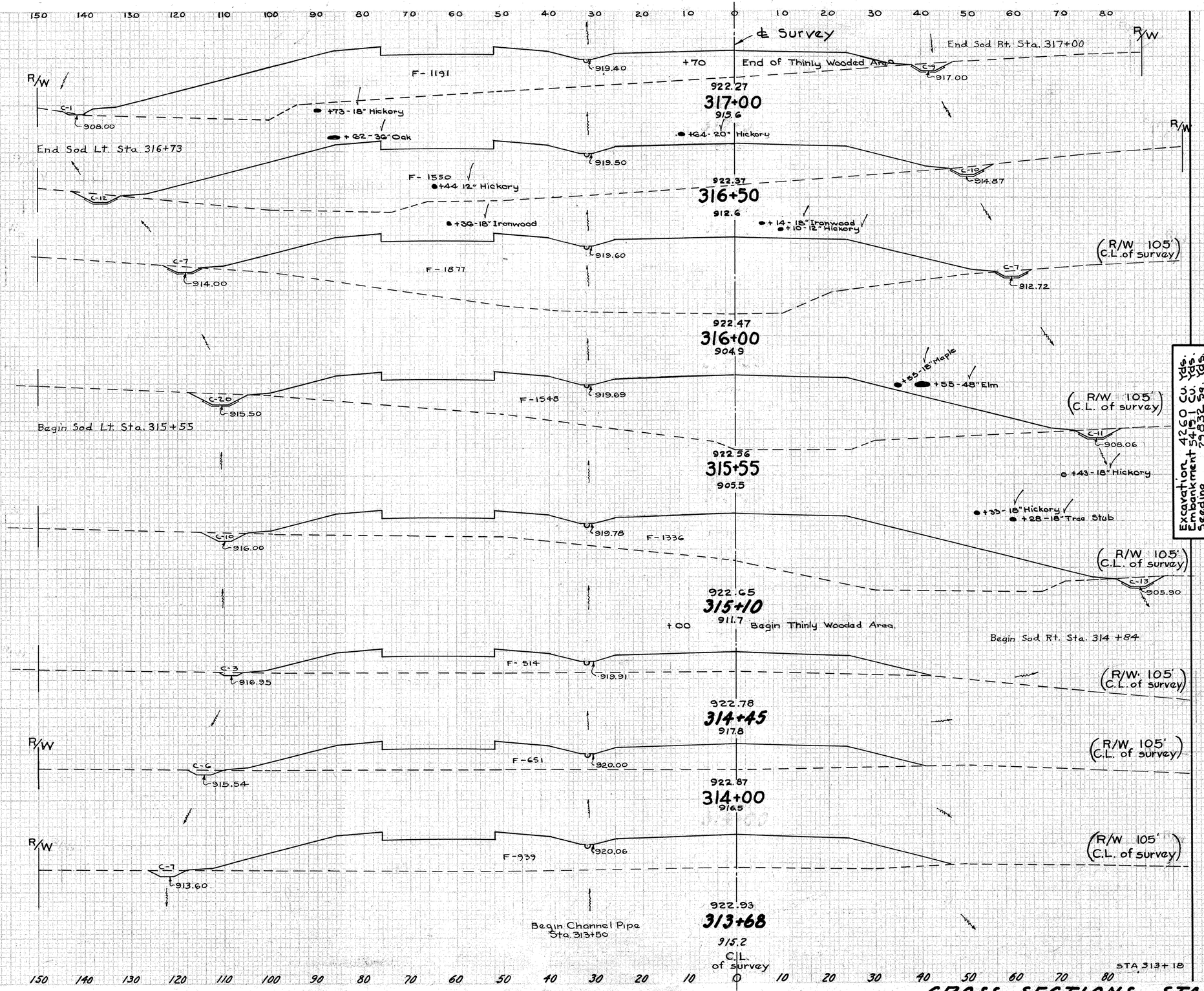


SEEDING		END AREA		CU. YDS.	
L.F.	Sq.Yds.	CUT	FILL	EXC.	EMB.
168		6	2065		
	805			12	2724
134		7	999		
	918			30	1899
102		16	466		
	1056			74	1339
88		24	257		
	989			91	769
90		25	158		
	517			47	399
96		25	267		
	897			52	968
94		8	348		
	650			16	756
86		5	280		
	933			20	778
82		6	140		
	273			11	133
82		14	99		
	646			23	398
84		4	208		

CROSS SECTIONS STA. 306+70 TO 313+18

DIVISION 2 OHIO F-41-(4) 1947 — 99 / 150

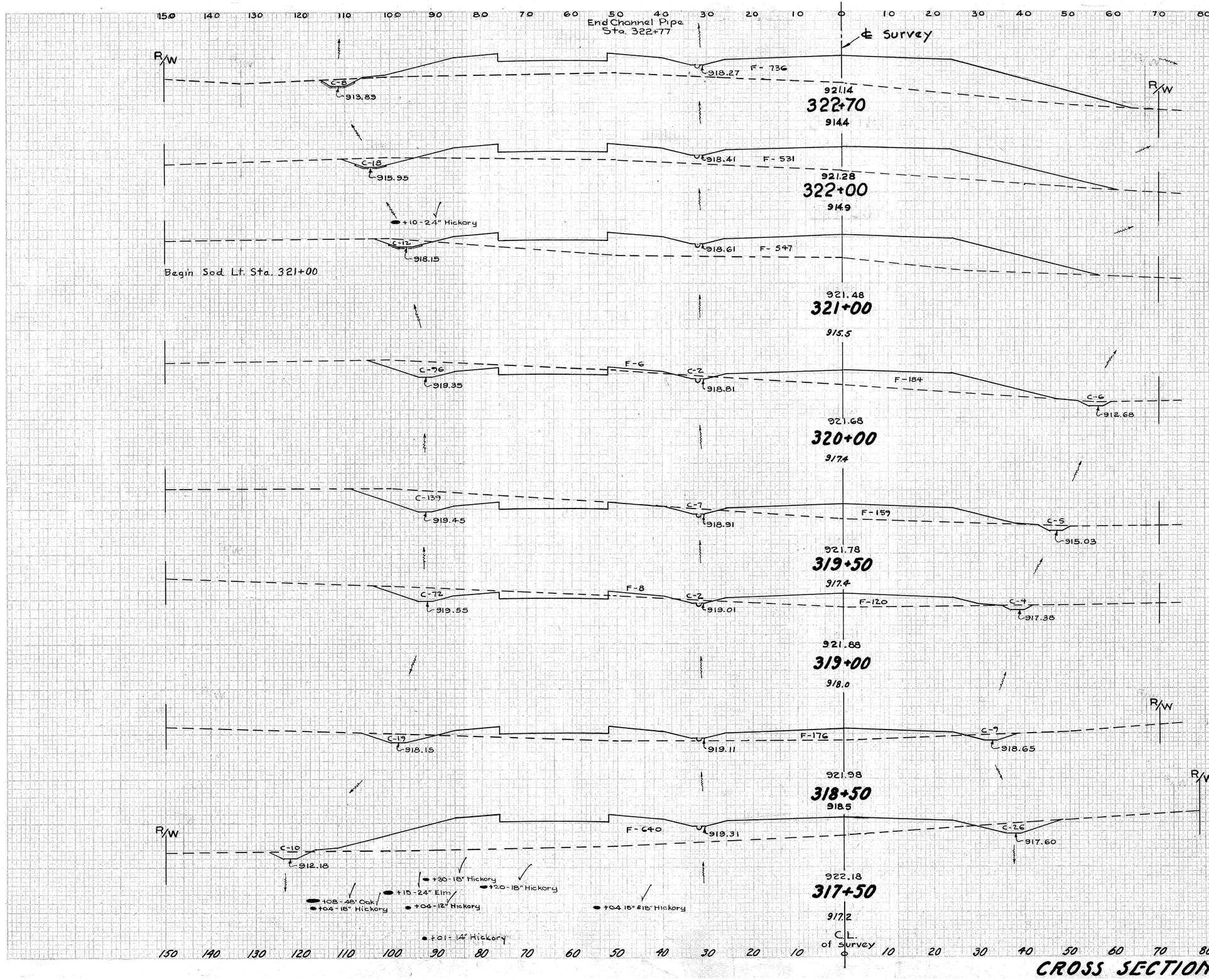
TRUMBULL COUNTY
S.H. 325 SEC. B(PT), C, D(PT)



Excavation 4260 Cu. Yds.
Embankment 5411 Cu. Yds.
Seeding 25832 Sq. Yds.

SEEDING L.F.	SEEDING Sq.Yds.	END AREA CUT	END AREA FILL	CU.YDS. EXC.	CU.YDS. EMB.
134		10	1191		
	739			30	2538
132		22	1550		
	711			33	3174
124		14	1877		
	650			37	2854
136		31	1548		
	700			45	2403
144		23	1336		
	888			31	2227
102		3	514		
	525			8	971
108		6	651		
	412			8	742
124		7	939		
	811			12	2782
168		6	2065		

CROSS SECTIONS STA. 313+68 to 317+00

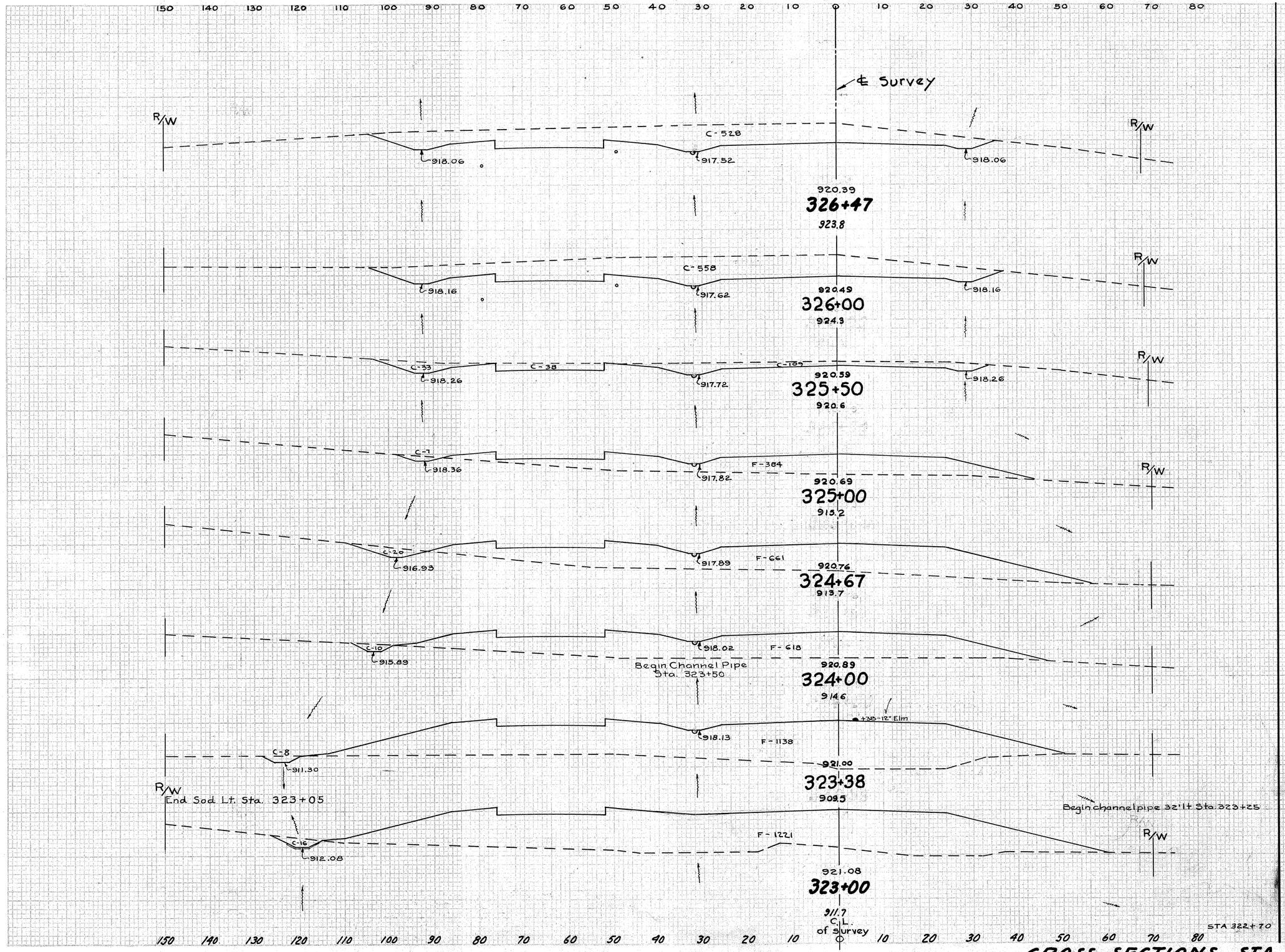


DIVISION 2 | STATE OHIO | PROJECT F-41-(4) | FISCAL YEAR 1947 | 100 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	Sq. Yds.	CUT	FILL	EXC.	EMB.
116		8	736		
	887			34	1642
112		18	531		
	1189			56	1996
102		12	547		
	1189			215	1365
112		104	190		
	617			236	323
110		151	159		
	572			212	266
96		78	128		
	533			98	281
96		28	176		
	1255			119	1511
130		36	640		
	733			43	1694
134		10	1190		

CROSS SECTIONS STA. 317+50 to 322+70

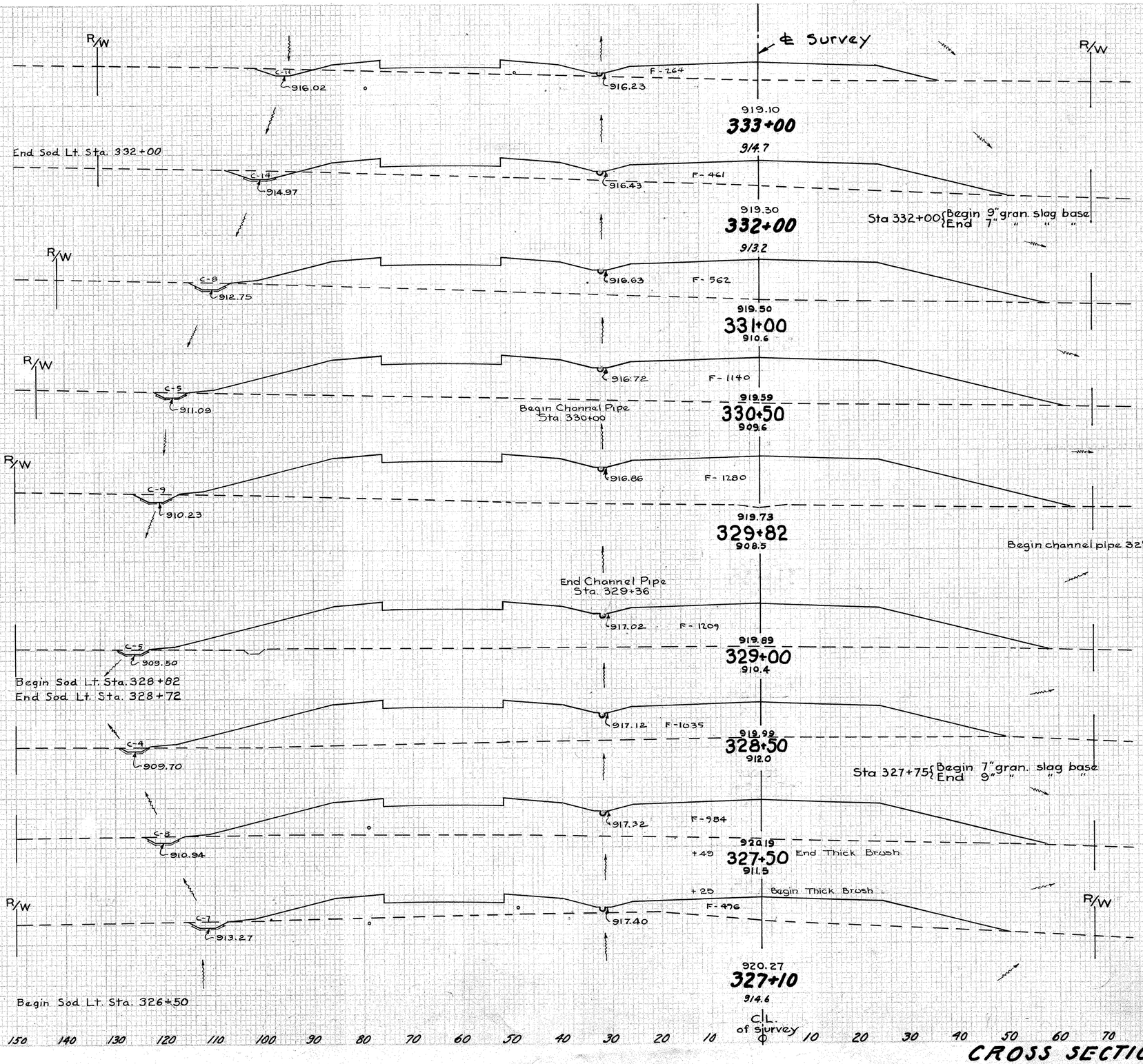


DIVISION 2 | STATE OHIO | PROJECT F-41-(4) | FISCAL YEAR 1947 | 101 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	Sq.Yds.	CUT	FILL	EXC.	EMB.
90		528	0		
	470			945	0
90		558	0		
	494			684	0
88		180	0		
	494			173	356
90		7	384		
	374			17	639
114		20	661		
	813			38	1587
104		10	618		
	792			20	2016
126		8	1138		
	524			17	1660
122		16	1221		
	397			13	1087
116		8	736		

CROSS SECTIONS STA. 323+00 to 326+47



DIVISION 2 OHIO F-41-(4) 1947

102
150

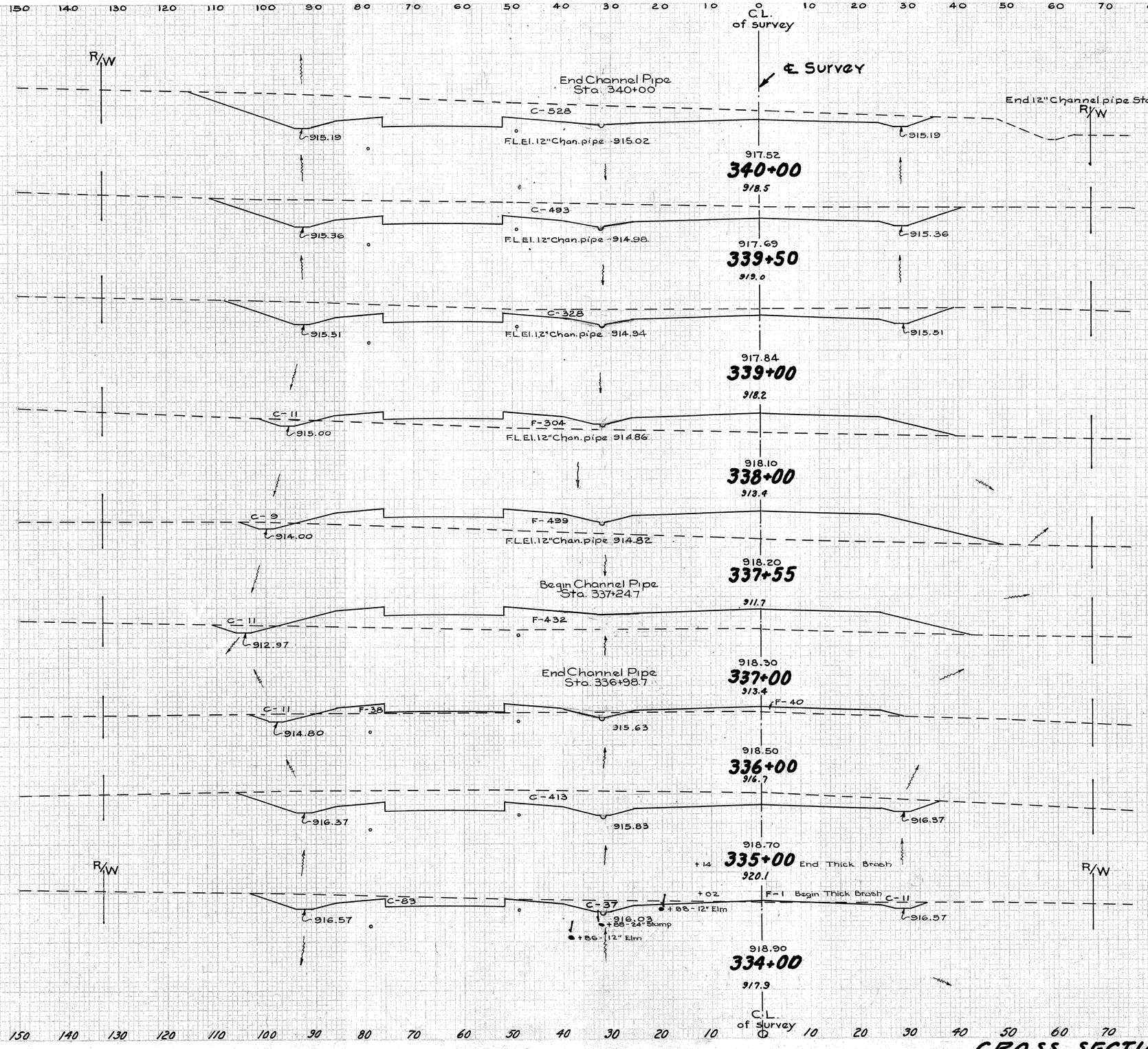
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

SEEDING		END AREA		CU. YDS.	
L.F.	Sq.Yds.	CUT	FILL	EXC.	EMB.
86		11	264		
	1033			46	1343
100		14	461		
	1189			41	1894
114		8	562		
	661			12	1576
124		5	1140		
	944			18	3048
126		9	1280		
	1139			21	3780
124		5	1209		
	667			9	2078
116		4	1035		
	1333			22	3739
124		8	984		
	520			11	1096
110		7	496		
	700			624	580
90		528	0		

CROSS SECTIONS STA. 327+10 TO 333+00

DIVISION 2 | STATE OHIO | PROJECT F-41-(4) | FISCAL YEAR 1947 | 103 / 150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D (PT.)



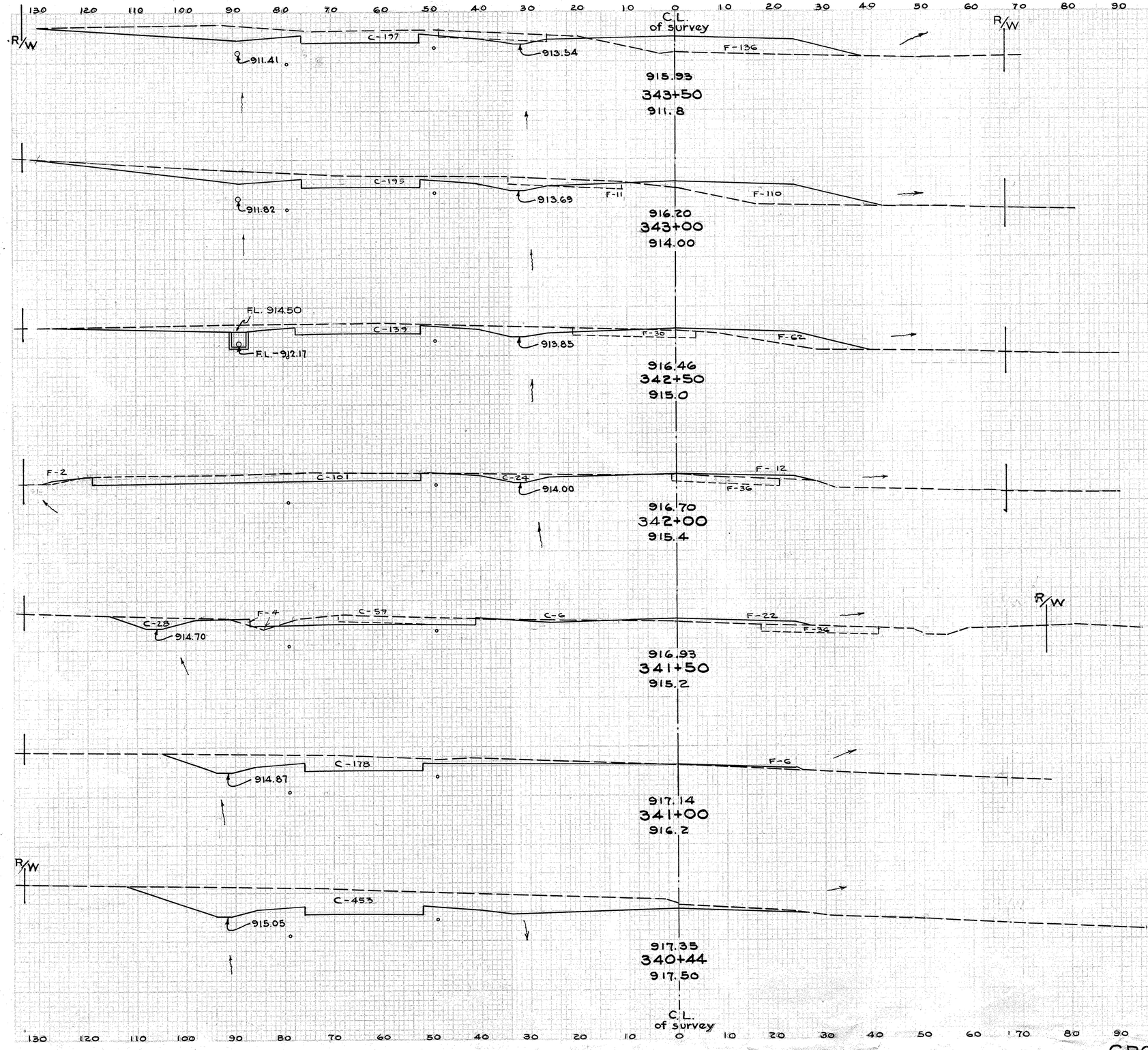
SEEDING		END AREA		CU. YDS.	
L.F.	Sq.Yds.	CUT	FILL	EXC.	EMB.
102		528	0		
	572			946	0
104		493	0		
	561			760	0
98		328	0		
	1044			628	563
90		11	304		
	485			17	669
104		9	499		
	629			20	948
102		11	432		
	1011			48	944
80		15	78		
	944			793	144
90		413	0		
	978			1007	2
86		131	1		
	956			263	491
86		11	264		

Excavation 9146 cu. Yds.
Embankment 23319 cu. Yds.
Seeding 23502 sq. Yds.

CROSS SECTIONS STA. 334+00 to 340+00

DIVISION	STATE	PROJECT	FISCAL YEAR	SHEET NO.
2	OHIO	F-41-(4)	1947	104 150

TRUMBULL COUNTY
S.H.325 SEC. B(PT.) C, D(PT.)



Intersection Sta. 340.+85.58

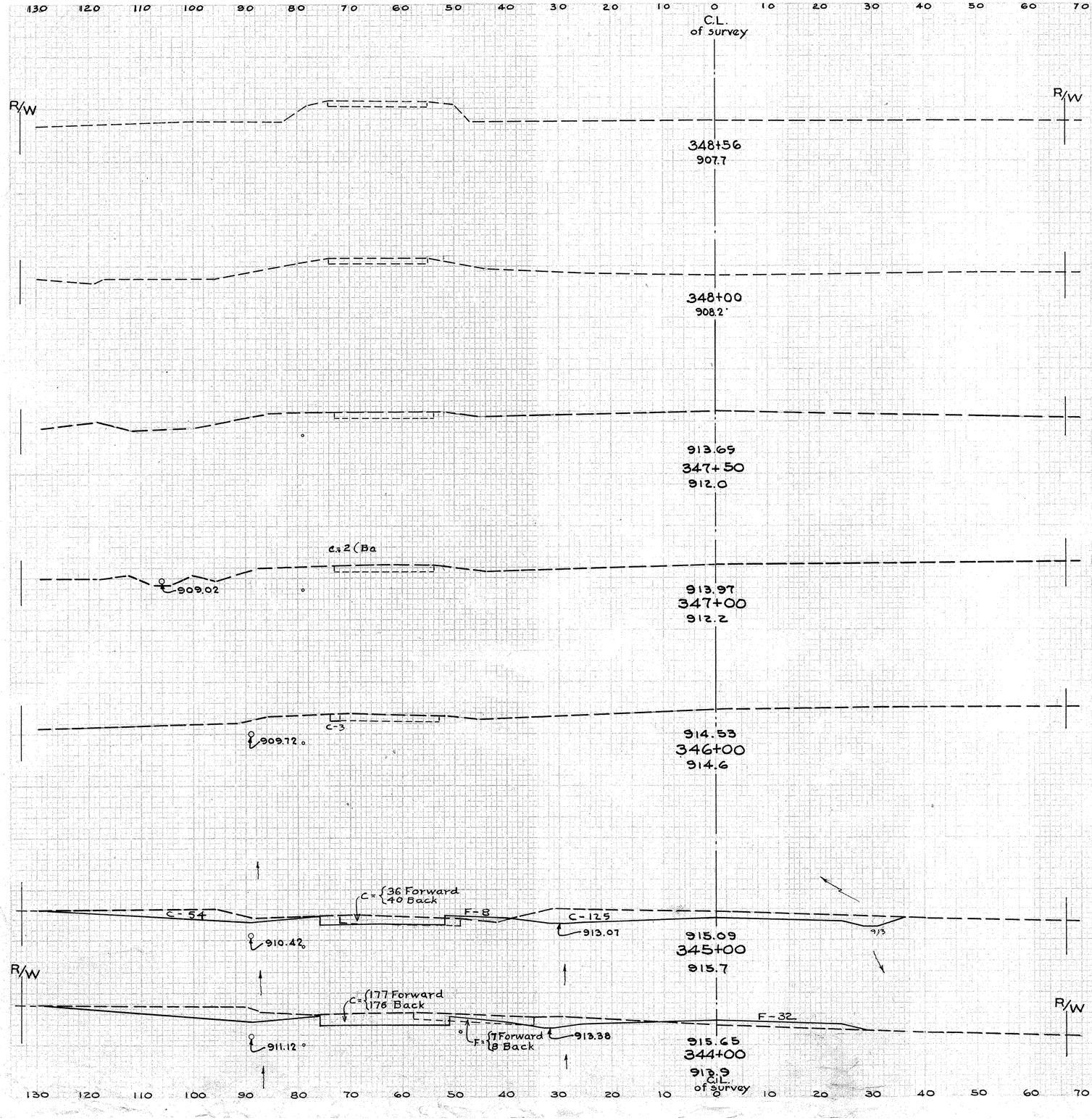
Seeding		End Area		Cu. Yd.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
160		197	136		
	900			363	238
164		195	121		
	900			309	197
160		139	92		
	739			244	131
106		125	50		
	628			202	104
120		93	62		
	694			251	63
130		178	6		
	840			655	6
				172	
140		453	0		
	592			800	0
102		528	0		

CROSS SECTIO , STA. 340+44 TO 343+50

DIVISION 2 OHIO F-41-(4) 1947

105
150

TRUMBULL COUNTY
S.H.325 SEC. B(PT.) C, D(PT.)



STA. 348+00 END OF WORK

END EARTHWORK STA. 346+60

STA. 345+00 ℄ END F-41(4)
℄ End 9" gran. slag base.

Seeding		End Area		Cu. Yd.	
L.F.	S.Y.	Cut	Fill	Exc	Emb
		11	2	0	
	77			5	0
		12	3	0	
	933			404	15
		156	215/219	8	
	1700			733	87
		150	177/176 39/40		
	833			346	163
		160	197 136		

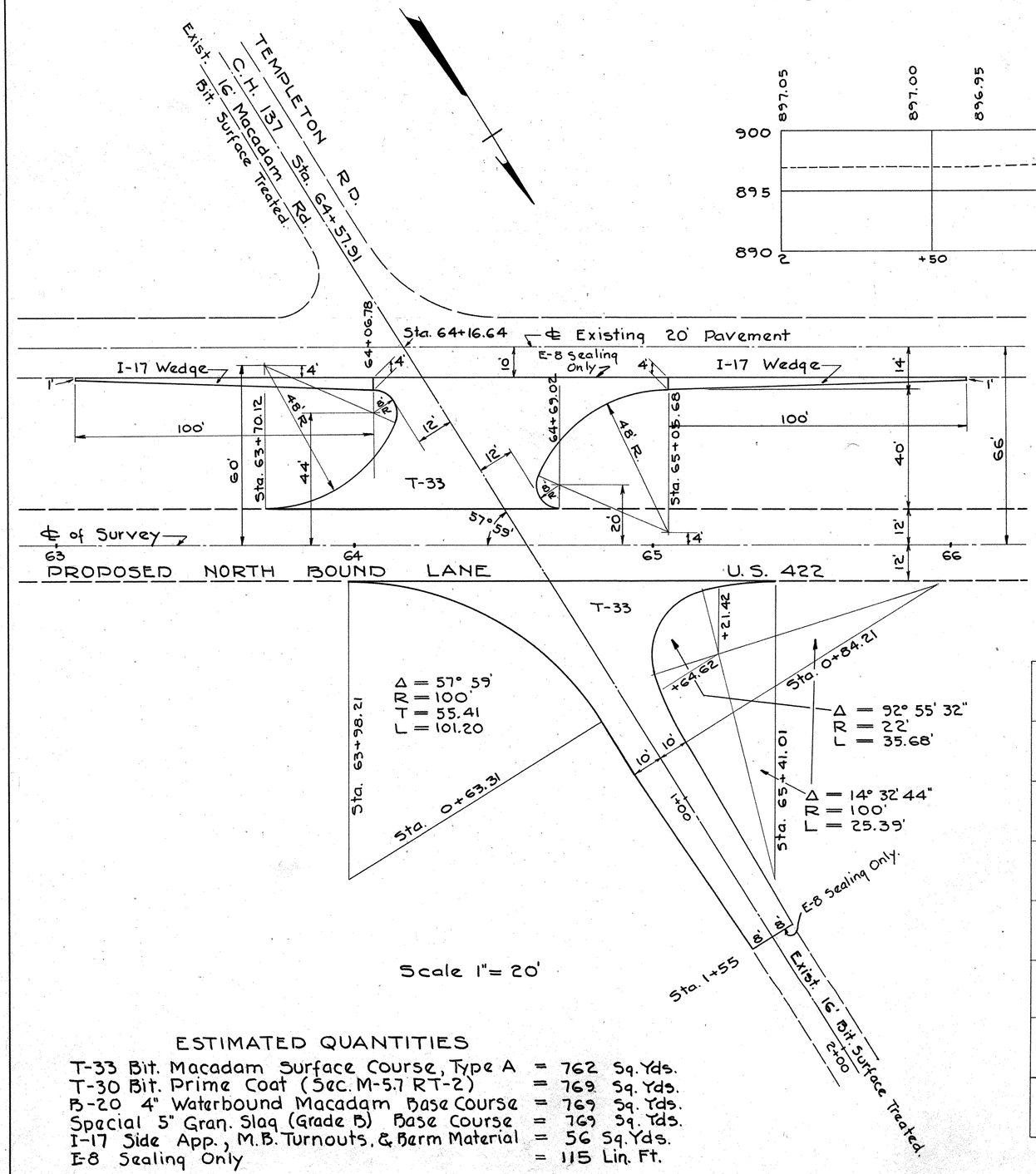
CROSS SECTIONS STA. 344+00 TO STA. 348+56

INTERSECTION STA. 64+57.91

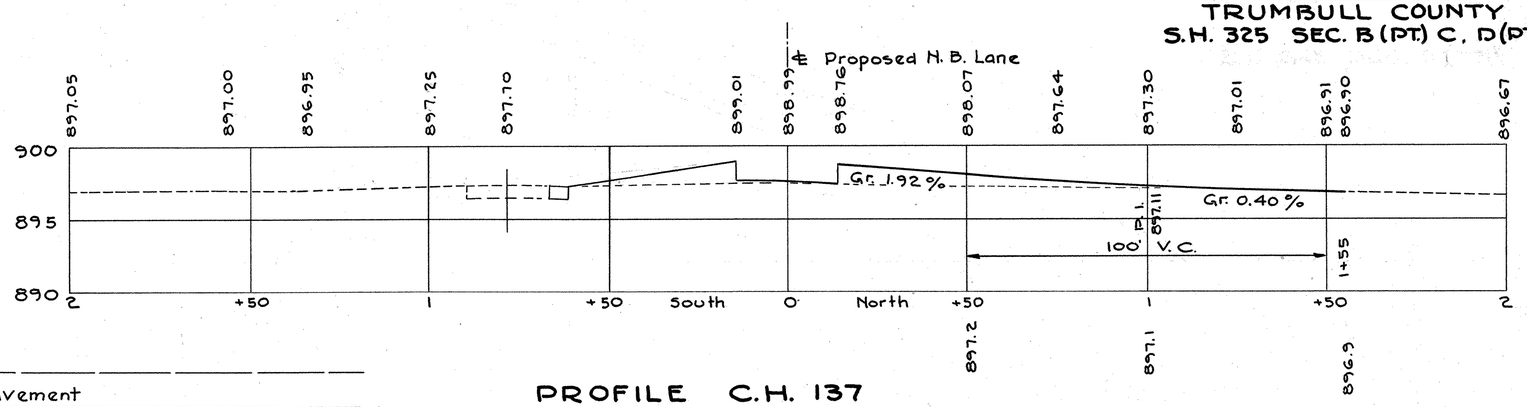
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

106/150

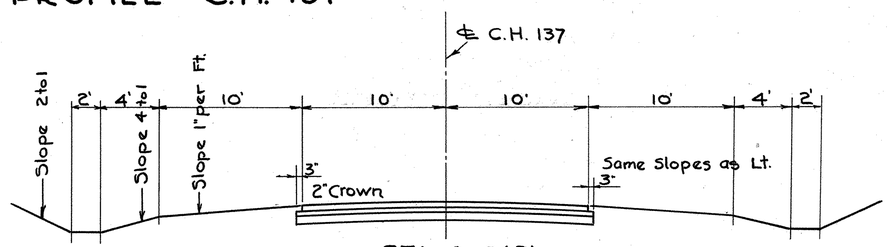
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C, D (PT.)



Scale 1"= 20'



PROFILE C.H. 137

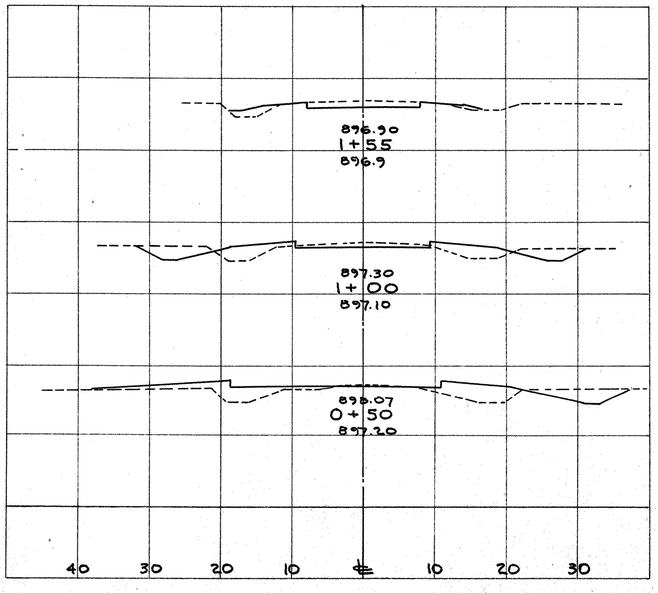


STA. 0+84.21

T-33 Bituminous Macadam Surface Course, Type A.
T-30 Bituminous Prime Coat (Sec. M-5.7 RT-2) 0.35 Gal. per S.Y.
B-20 4" Waterbound Macadam Base Course.
Special 5" Granulated Slag (Grade B) Base Course.

ESTIMATED QUANTITIES

T-33 Bit. Macadam Surface Course, Type A	=	762 Sq. Yds.
T-30 Bit. Prime Coat (Sec. M-5.7 RT-2)	=	769 Sq. Yds.
B-20 4" Waterbound Macadam Base Course	=	769 Sq. Yds.
Special 5" Gran. Slag (Grade B) Base Course	=	769 Sq. Yds.
I-17 Side App., M.B. Turnouts, & Berm Material	=	56 Sq. Yds.
E-8 Sealing Only	=	115 Lin. Ft.



CROSS SECTIONS C.H. 137

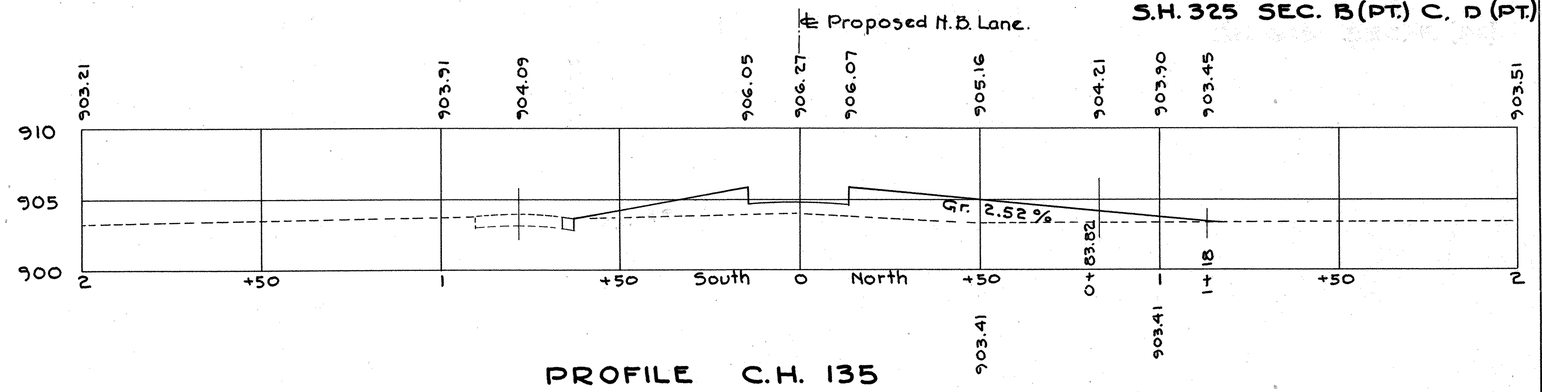
	End Area		Cu. Yds.	
	Cut	Fill	Exc.	Emb.
	16	7		
			55	38
	38	30		
			53	80
	19	56		
			14	54
0+30	20	90		
Total			122	172

INTER SECTION STA. 122+35.23

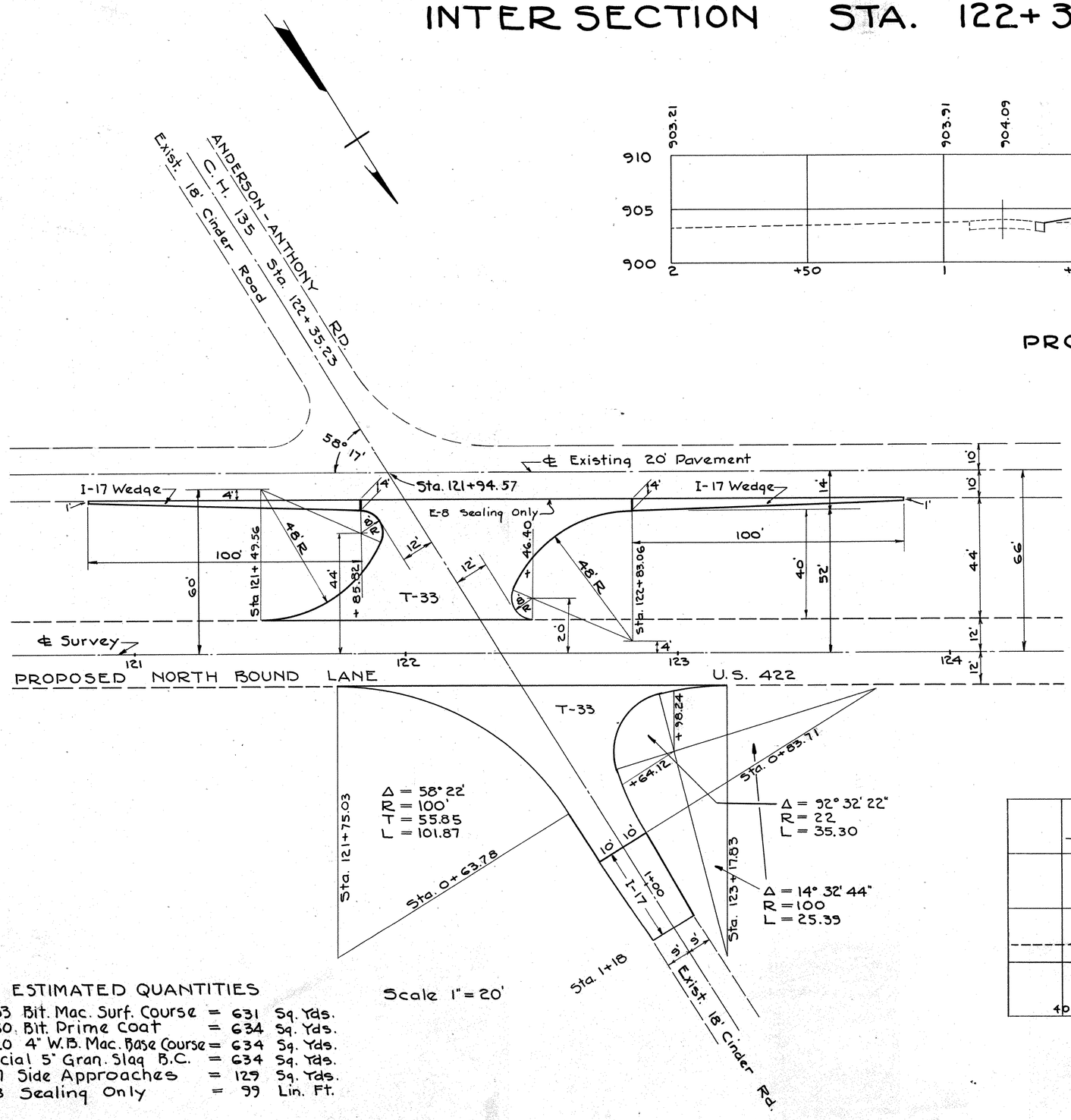
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

107/150

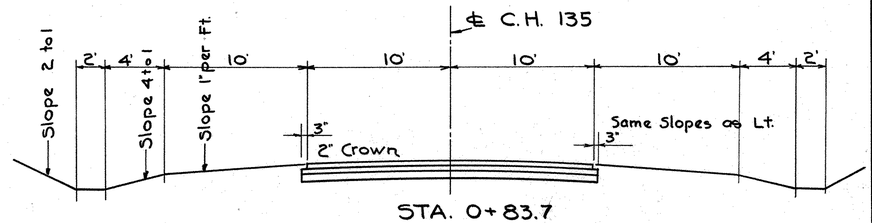
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D (PT.)



PROFILE C.H. 135

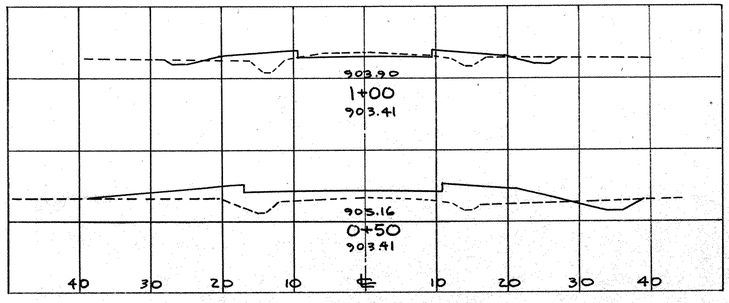


Scale 1" = 20'



STA. 0+83.7

T-33 Bituminous Macadam Surface Course, Type A.
T-30 Bituminous Prime Coat (Sec. M-5.7 RT-2) 0.35 Gal. per S.Y.
B-20 4" Waterbound Macadam Base Course.
Special 5" Granulated Slag (Grade B) Base Course.

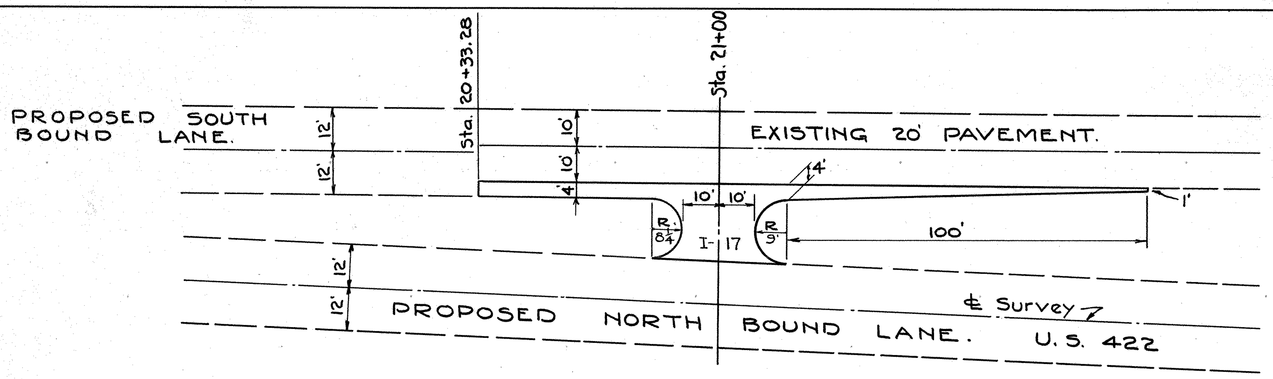


CROSS SECTIONS C.H. 135

	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
1+18	0	0		
			3	8
	3	24		
			16	107
	8	91		
			4	106
0+28	0	170		
Total			23	221

ESTIMATED QUANTITIES

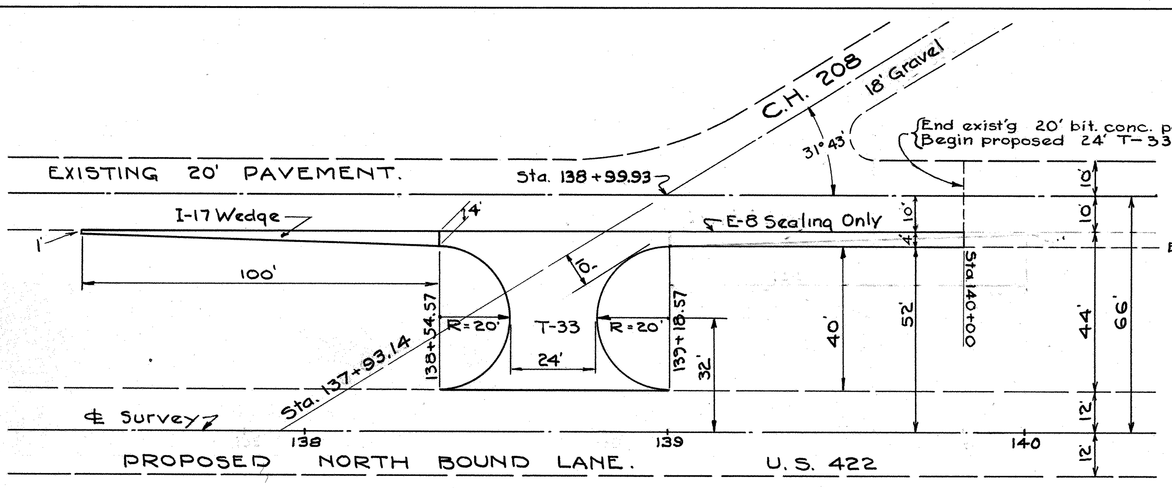
T-33 Bit. Mac. Surf. Course	= 631	Sq. Yds.
T-30. Bit. Prime Coat	= 634	Sq. Yds.
B-20 4" W.B. Mac. Base Course	= 634	Sq. Yds.
Special 5" Gran. Slag B.C.	= 634	Sq. Yds.
I-17 Side Approaches	= 129	Sq. Yds.
E-8 Sealing Only	= 99	Lin. Ft.



PROPOSED I-17 CROSSOVER STA. 21+00
Scale 1"=20'

Estimated Quantity
I-17 Side Approaches, Mail Box Turnouts, & Berm Material = 111 Sq. Yds.

CROSSOVER STA. 21+00

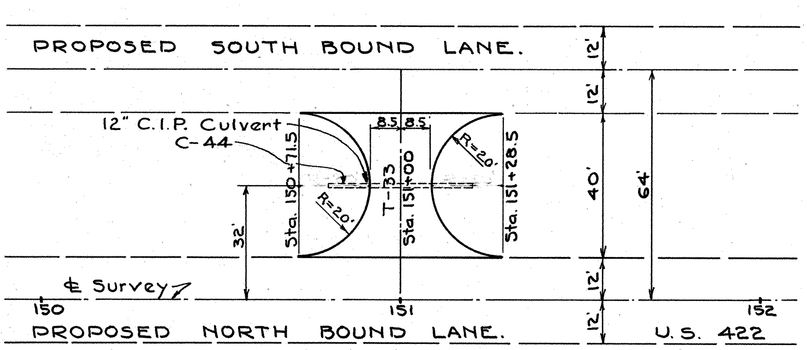


PLAN
Scale 1"=20'
See Sheet No for Profile.

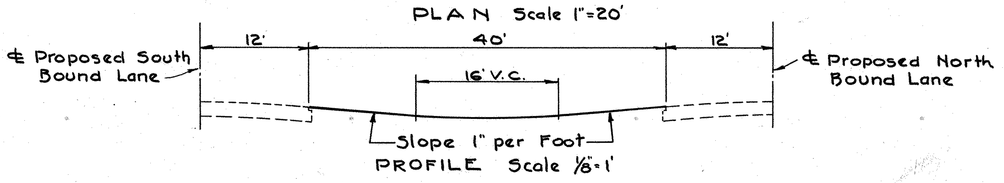
Estimated Quantities

E-8	Sealing Only	= 147 Lin. Ft.
T-33	Bituminous Macadam Surface Course, Type A	= 209 Sq. Yds.
T-30	Bituminous Prime Coat (Sec. M-5.7 RT-2) 0.35 Gal./S.Y.	= 213 Sq. Yds.
B-20	4" Waterbound Macadam Base Course.	= 213 Sq. Yds.
Special	3" Granulated Slag (Grade B) Base Course.	= 213 Sq. Yds.
I-17	Side Approaches, Mail Box Turnouts, & Berm Material	= 28 Sq. Yds.

CROSSOVER STA. 137+93.14



PLAN Scale 1"=20'



PROFILE Scale 1/8"=1'

Estimated Quantities

T-33	Bituminous Macadam Surface Course, Type A	= 114 Sq. Yds.
T-30	Bituminous Prime Coat (Sec. M-5.7 RT-2) 0.35/S.Y.	= 114 Sq. Yds.
B-20	4" Water bound Macadam Base Course.	= 114 Sq. Yds.
Special	5" Granulated Slag (Grade B) Base Course	= 114 Sq. Yds.

CROSSOVER STA. 151+00

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C. & D(PT.)

FED. AID DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

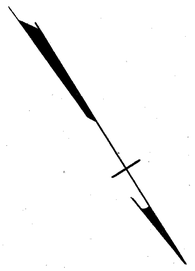
108/150

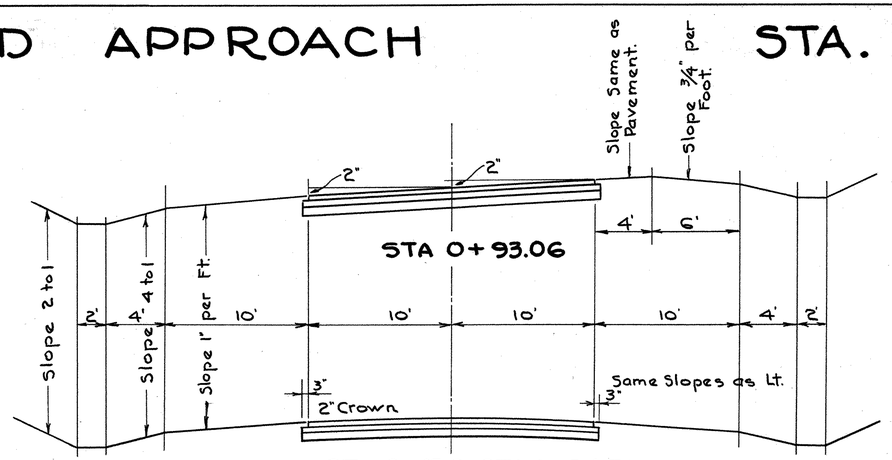
CROSSOVERS - STA. 21+00 - STA. 138+09.73 - STA. 151+00

SIDE ROAD APPROACH STA. 165+50

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR	109 / 150
2	OHIO	F-41-(4)	1747	

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

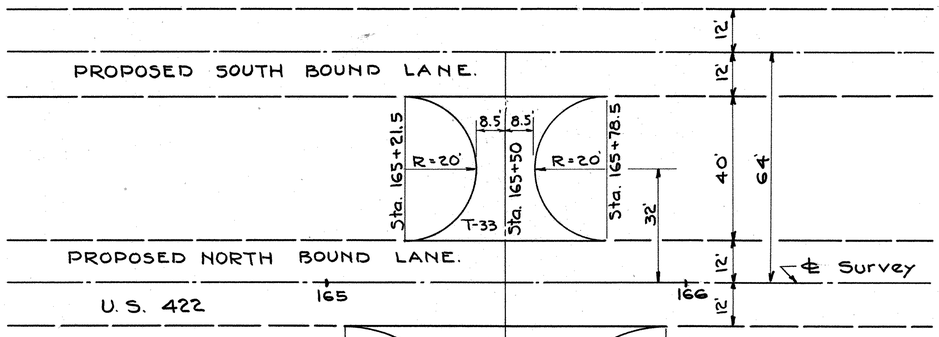


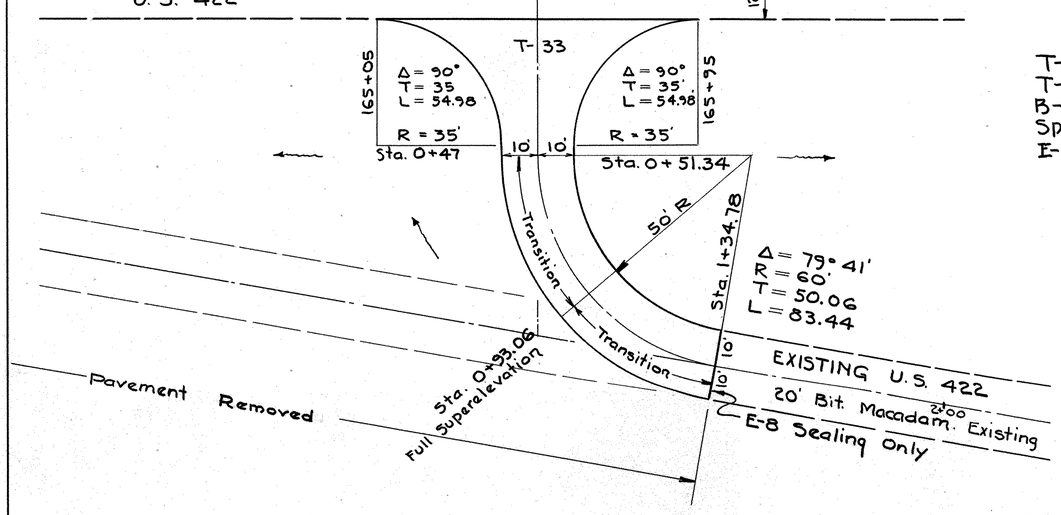


STA 0+47 & STA 1+34.78

T-33 Bituminous Macadam Surface Course, Type A.
T-30 Bituminous Prime Coat (Sec. M-5.7 RT-2) 0.35 Gal per S.Y.
B-20 4" Waterbound Macadam Base Course.
Special 5" Granulated Slag (Grade B) Base Course.

ROAD SECTIONS



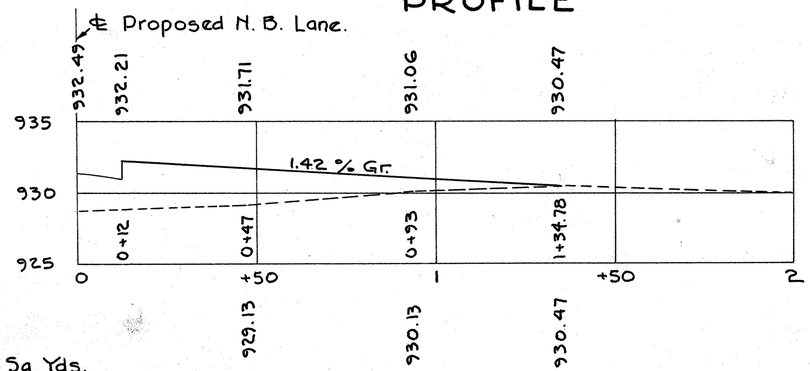


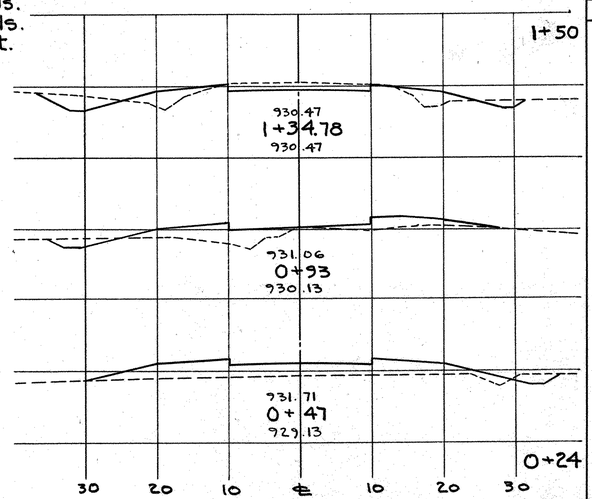
Scale 1"=20'

ESTIMATED QUANTITIES

T-33 Bit. Mac. Surf. Course	=	445	Sq. Yds.
T-30 Bit. Prime Coat	=	448	Sq. Yds.
B-20 4" W.B. Mac. Base Course	=	448	Sq. Yds.
Special 5" Gran. Slag B.C.	=	448	Sq. Yds.
E-8 Sealing Only	=	20	Lin. Ft.

PROFILE





CROSS SECTIONS

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
0	0		
		11	7
38	26		
		34	67
6	60		
		9	133
5	96		
		2	118
0	180		
Total		56	325

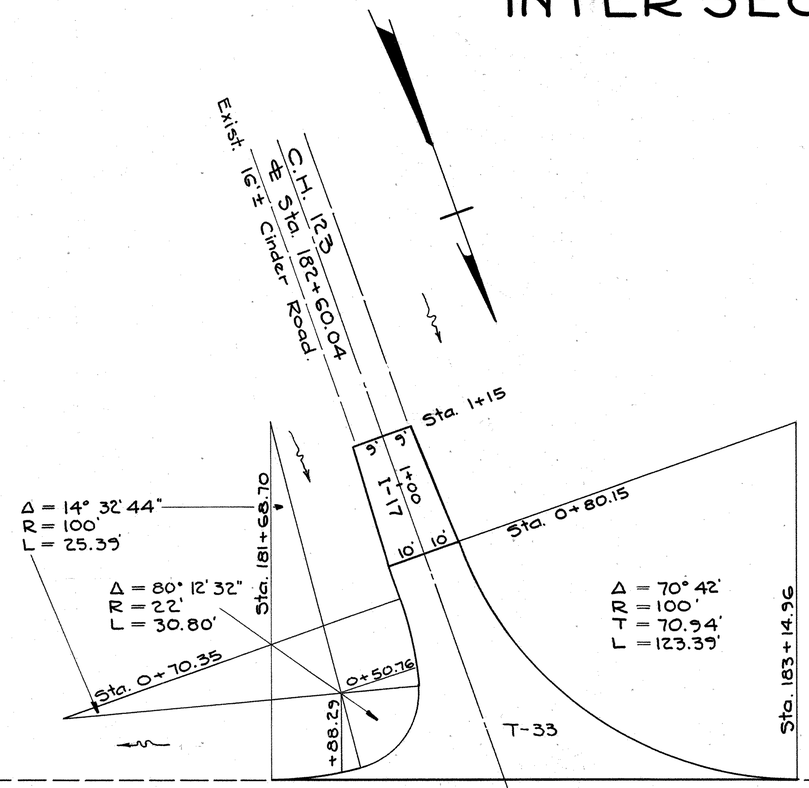
INTERSECTION STA. 165+50

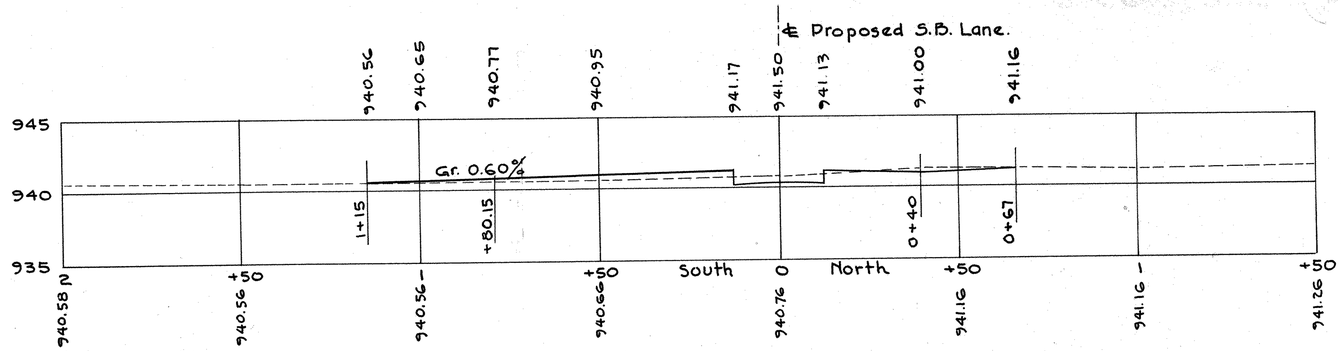
INTER SECTION STA. 182+60.04

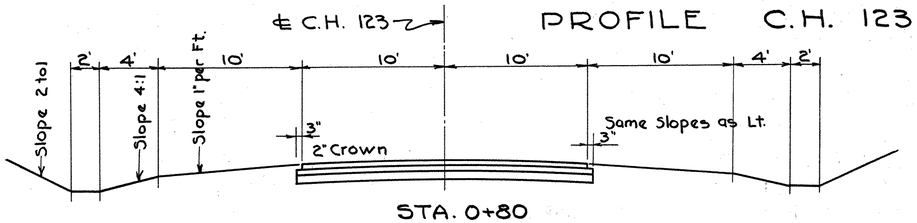
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

110
150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT) C, D(PT.)

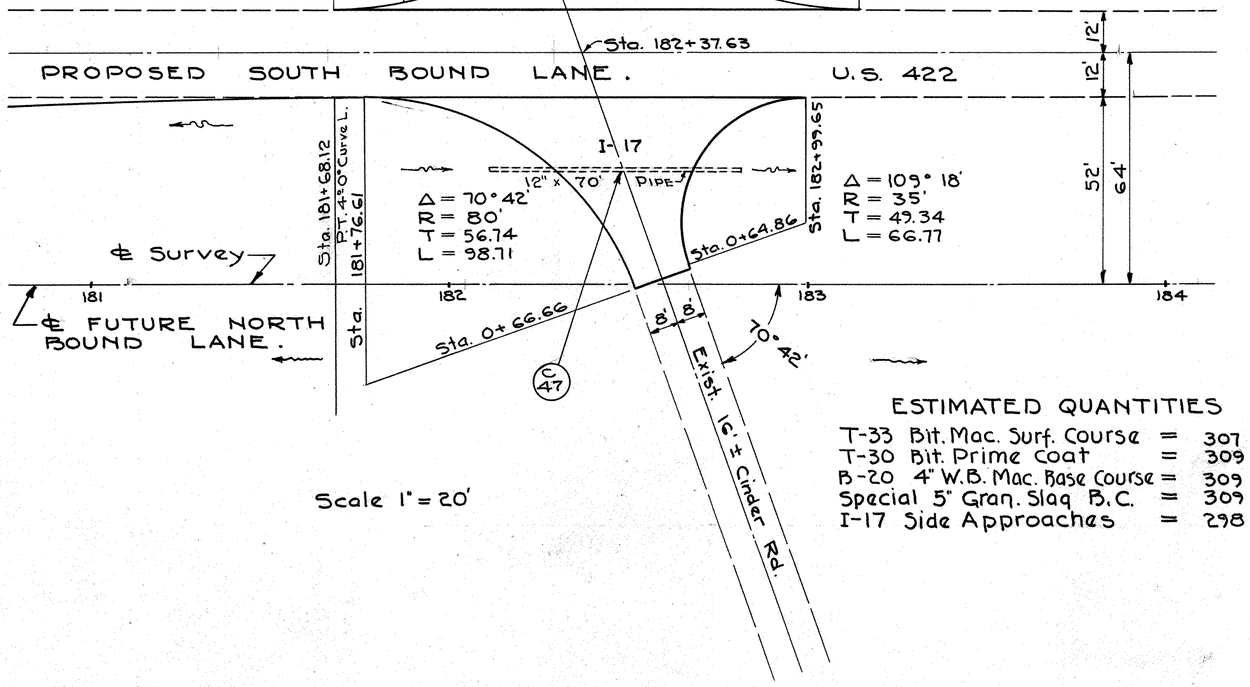






STA. 0+80

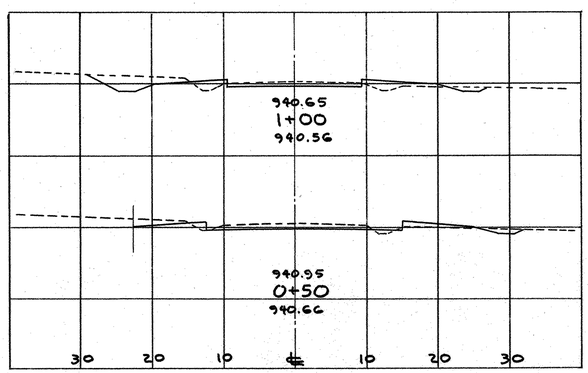
T-33 Bituminous Macadam Surface Course, Type A.
T-30 Bituminous Prime Coat (Sec. M-5.7 RT-2) 0.35 Gal. per S.Y.
B-20 4" Waterbound Macadam Base Course.
Special 5" Granulated Slag (Grade B) Base Course.



Scale 1" = 20'

ESTIMATED QUANTITIES

T-33 Bit. Mac. Surf. Course	=	307	Sq. Yds.
T-30 Bit. Prime Coat	=	309	Sq. Yds.
B-20 4" W.B. Mac. Base Course	=	309	Sq. Yds.
Special 5" Gran. Slag B.C.	=	309	Sq. Yds.
I-17 Side Approaches	=	298	Sq. Yds.



CROSS SECTIONS C. H. 123

	End Area		Cu. Yds.	
	Cut	Fill	Exc.	Emb.
1+15	0	0		
			9	4
	33	14		
			54	20
	25	7		
			23	7
0+27	30	10		
Total			86	31

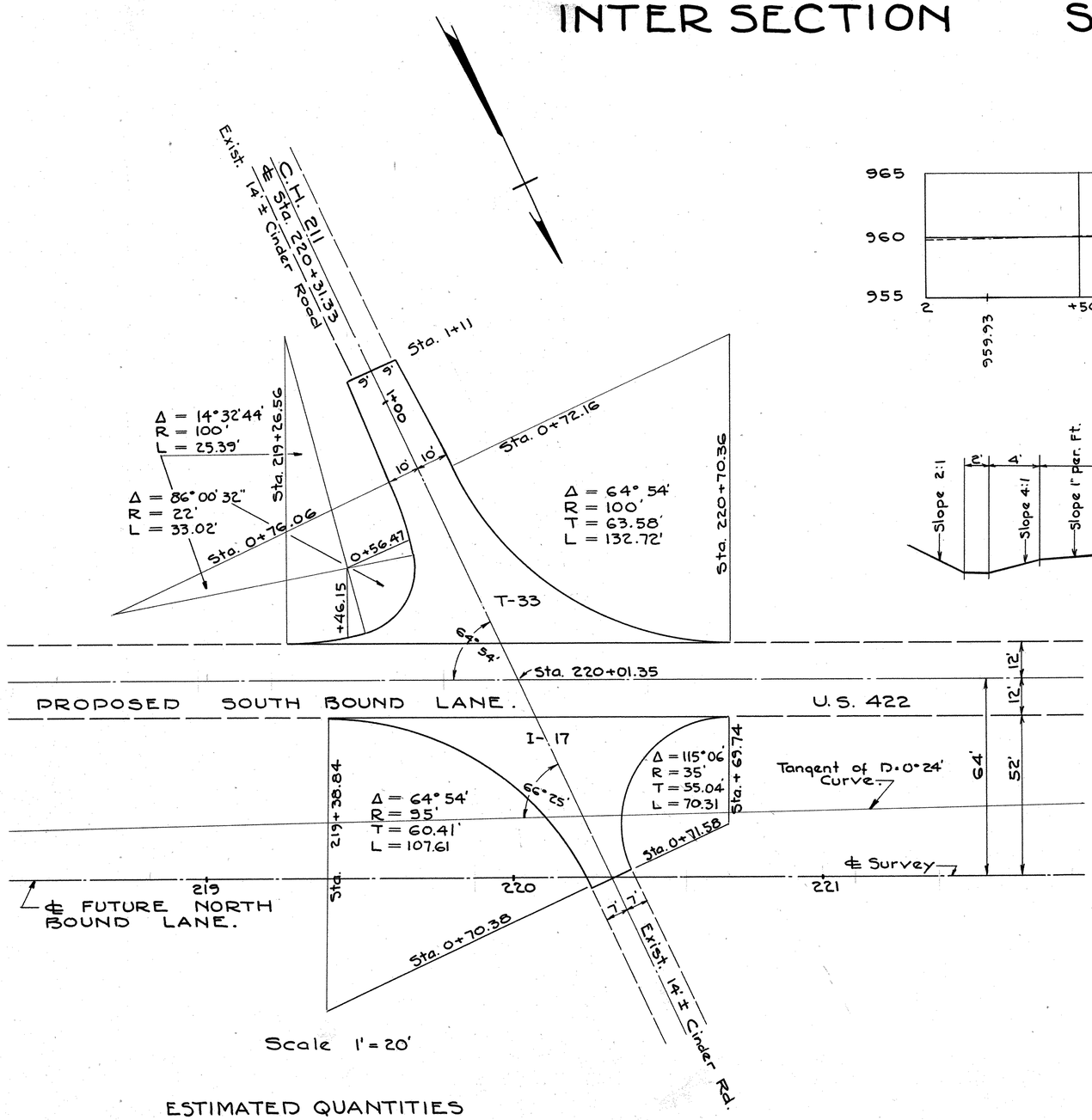
INTERSECTION STA. 182+60.04

INTER SECTION STA. 220+31.33

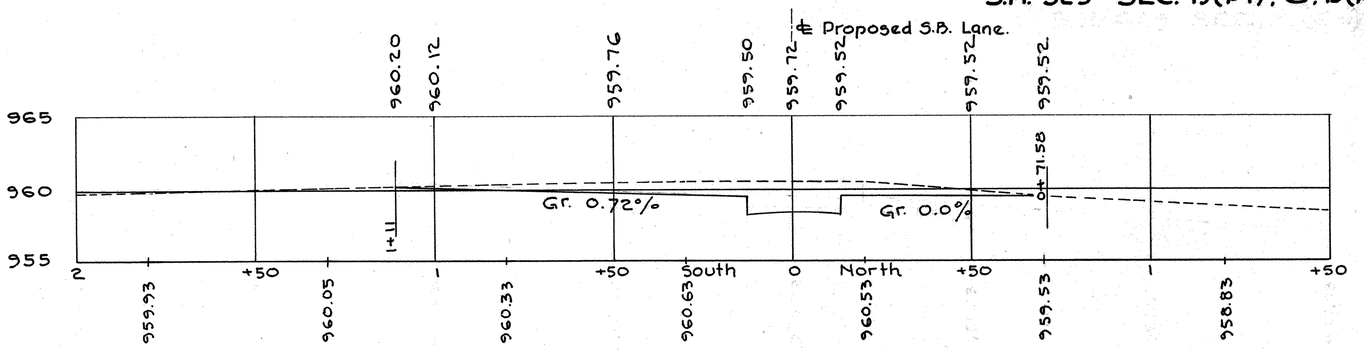
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

111
150

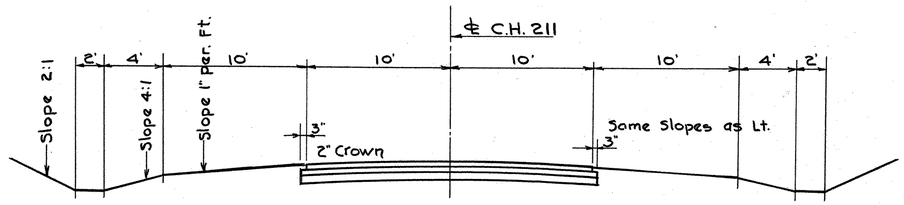
TRUMBULL COUNTY
S.H. 325 SEC. B(PT), C, D(PT.)



Scale 1" = 20'



PROFILE C.H. 211

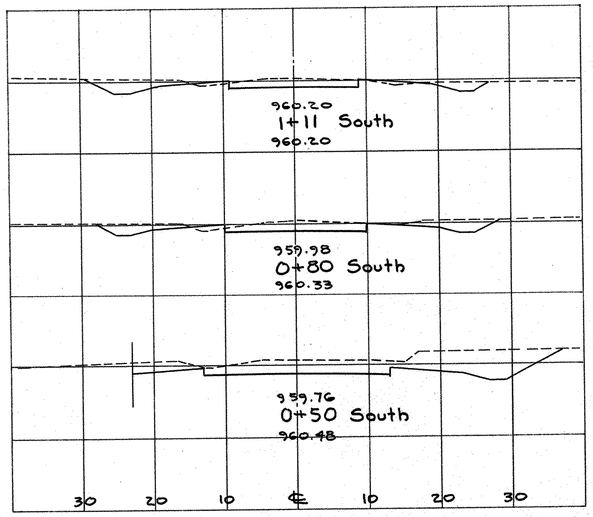


STA 0+76

T-33 Bituminous Macadam Surface Course, Type A.
T-30 Bituminous Prime Coat (Sec. M-5.7 RT-2) 0.35 Gal. per S.Y.
B-20 4" Waterbound Macadam Base Course.
Special 5" Granulated Slag (Grade B) Base Course.

ESTIMATED QUANTITIES

T-33 Bit. Macadam Surface Course, Type A	=	351	Sq. Yds.
T-30 Bit. Prime Coat (Sec. M-5.7 RT-2)	=	355	Sq. Yds.
B-20 4" Waterbound Macadam Base Course	=	355	Sq. Yds
Special 5" Gran. Slag (Grade B) Base Course	=	355	Sq. Yds.
I-17 Side App., M.B. Turnouts, & Berm Material	=	243	Sq. Yds.



CROSS SECTIONS C.H. 211

	End Area		Cu. Yds.	
	Cut	Fill	Exc.	Emb.
1+40	0	0		
			25	1
	46	2		
			59	3
	57	3		
			102	2
	126	0		
			130	0
0+27	180	0		
	Total		316	6

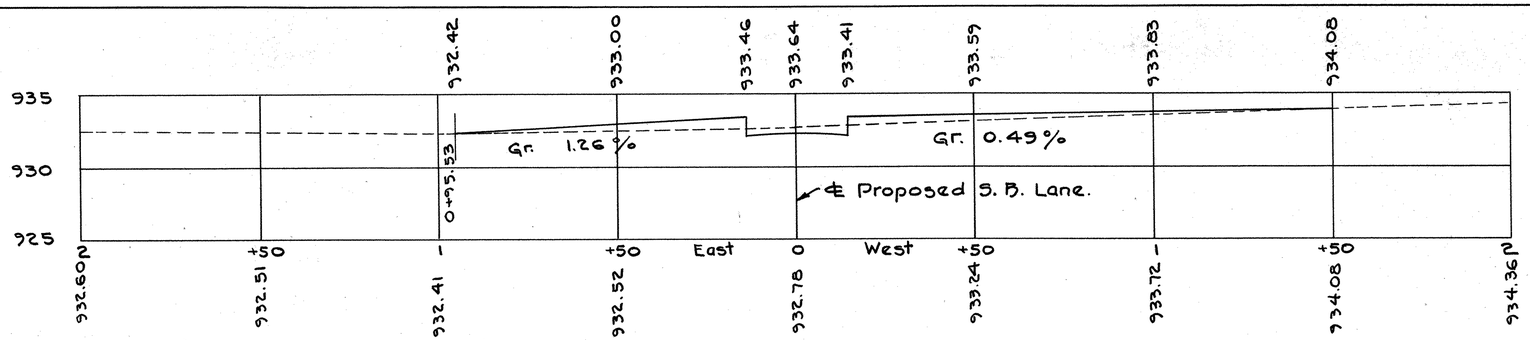
INTERSECTION STA. 220+31.33

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

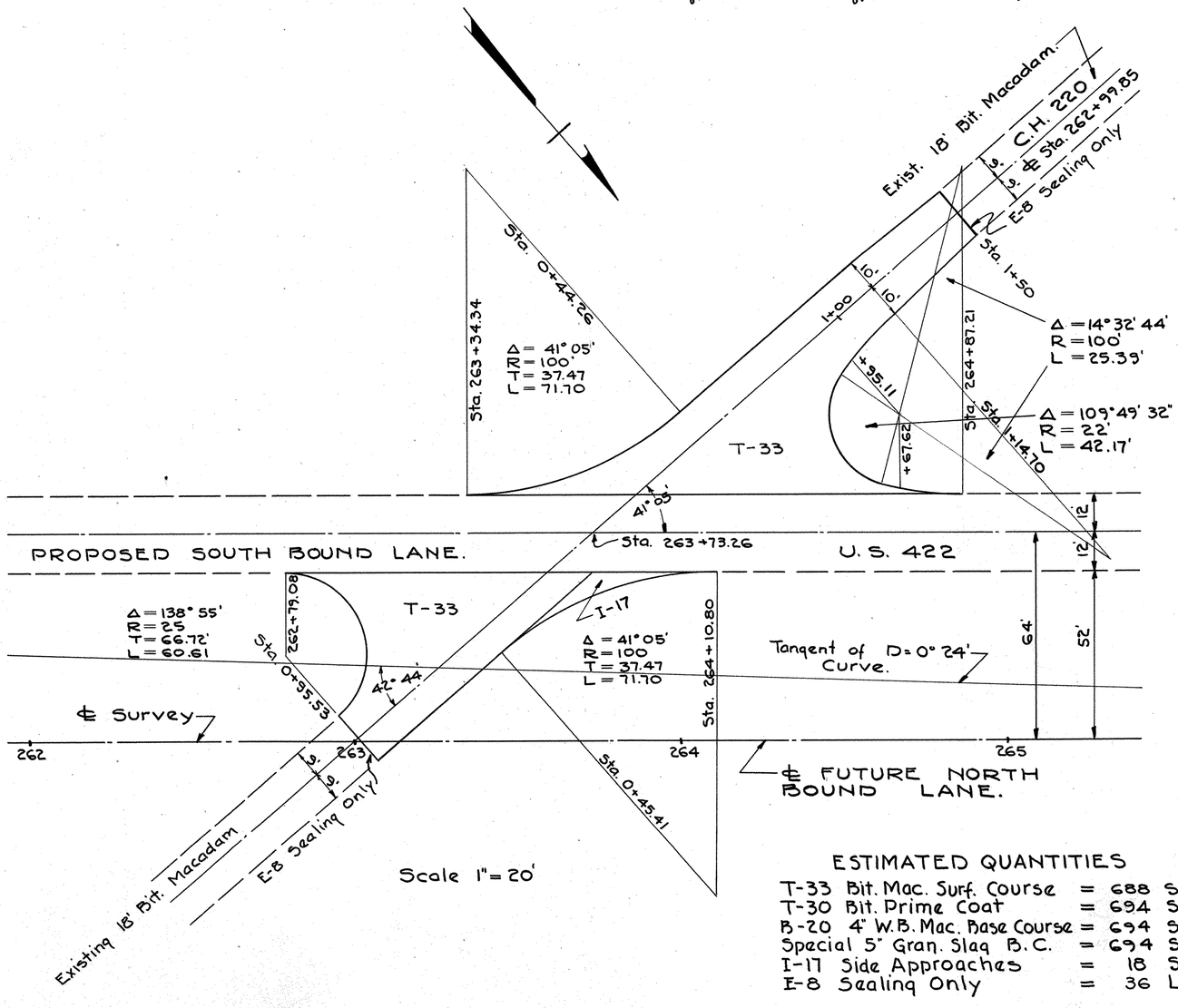
112
150

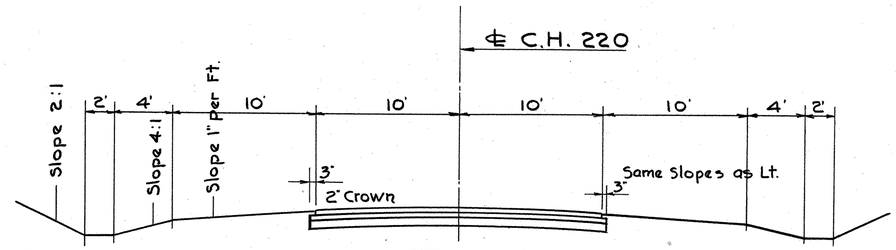
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C. D(PT.)

INTER SECTION STA. 262+99.85



PROFILE C.H. 220



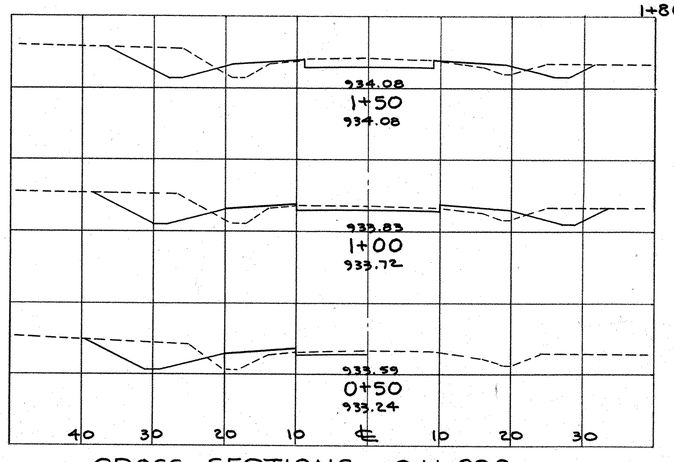


STA. 1+14.7

T-33 Bituminous Macadam Surface Course, Type A.
T-30 Bituminous Prime Coat (Sec. M-5.7 RT-2) 0.35 Gal. per S.Y.
B-20 4" Waterbound Macadam Base Course.
Special 5" Granulated Slag (Grade B) Base Course.

ESTIMATED QUANTITIES

T-33 Bit. Mac. Surf. Course	= 688	Sq. Yds.
T-30 Bit. Prime Coat	= 694	Sq. Yds.
B-20 4" W.B. Mac. Base Course	= 694	Sq. Yds.
Special 5" Gran. Slag B.C.	= 694	Sq. Yds.
I-17 Side Approaches	= 18	Sq. Yds.
E-8 Sealing Only	= 36	Lin. Ft.



CROSS SECTIONS C.H. 220

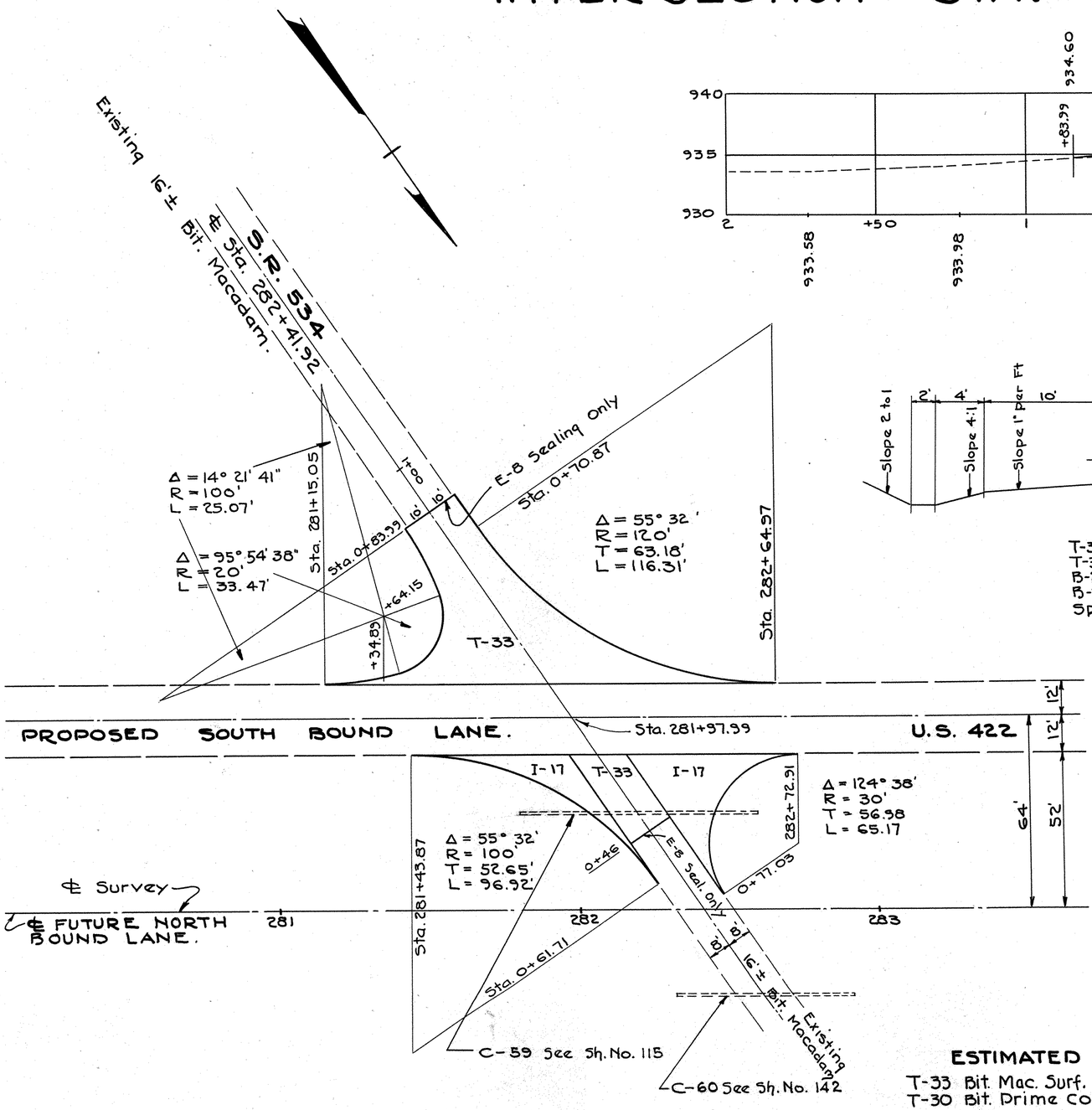
End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.
0	0		
		38	12
68	21		
		122	42
64	24		
		104	35
48	13		
Total		264	89

INTERSECTION STA. 282+41.92

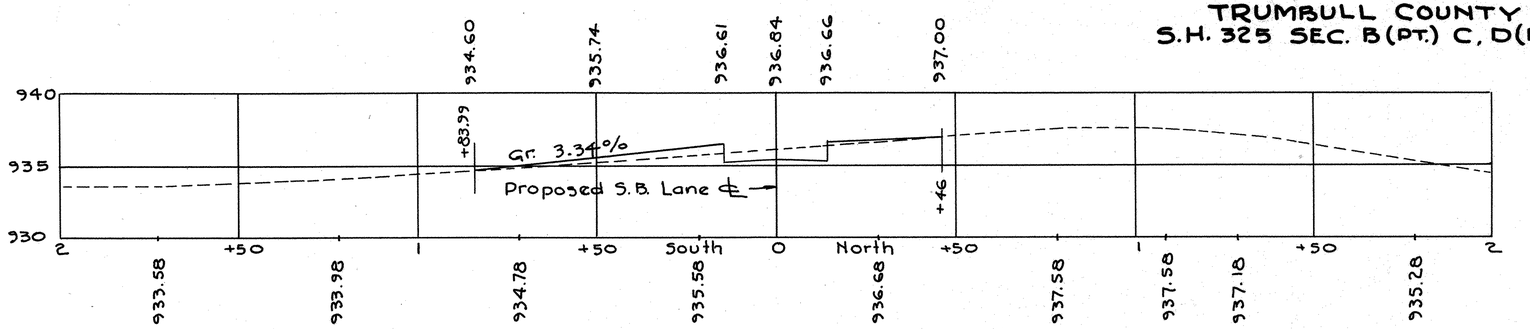
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

113
150

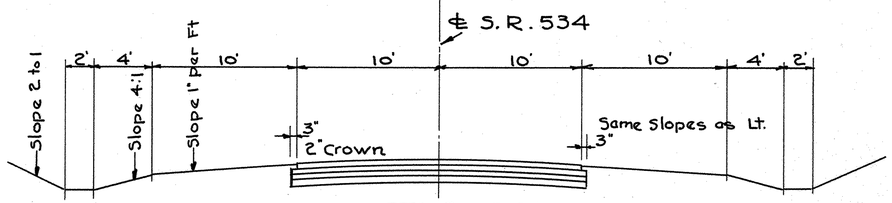
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)



Scale 1" = 20'

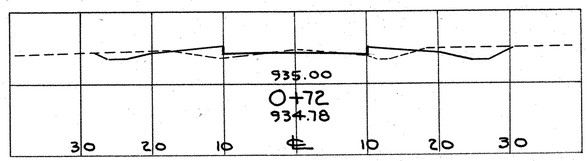


PROFILE S.R. 534



STA. 0+83.9

T-33 Bituminous Macadam Surface Course, Type A.
T-30 Bituminous Prime Coat (Sec. M-5.1 RT-2) 0.35 Gal. per S.Y.
B-20 4" Waterbound Macadam Base Course.
B-20 4" Waterbound Macadam Base Course.
Special 5" Granulated Slag (Grade B) Base Course.



CROSS SECTION S.R. 534

	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
0+83.99	27	0		
			9	2
	12	10		
			21	8
0+30	15	0		
Total			30	10

ESTIMATED QUANTITIES

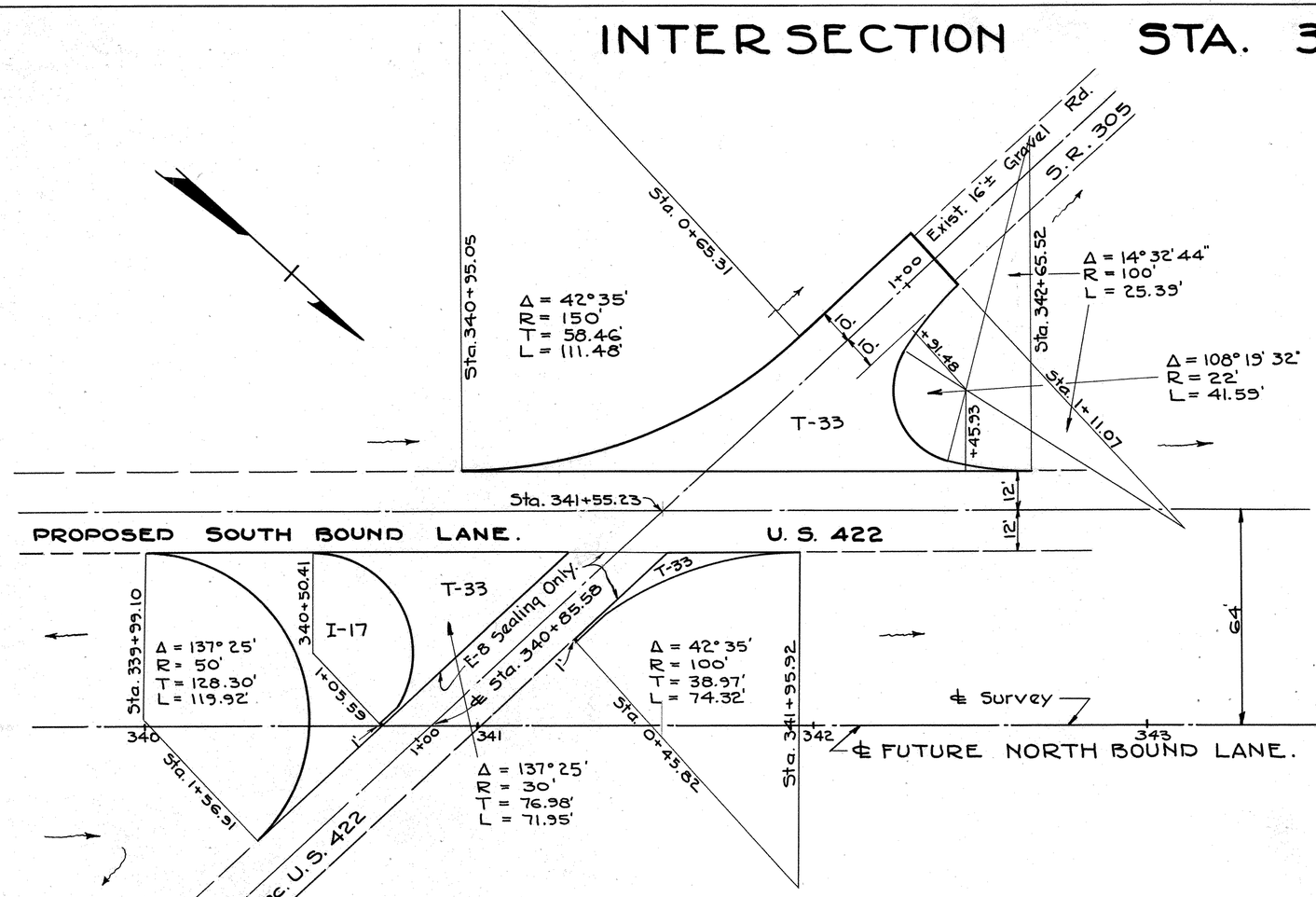
T-33 Bit. Mac. Surf. Course	= 348	Sq. Yds.
T-30 Bit. Prime Coat	= 350	Sq. Yds.
B-20 4" W.B. Mac. Base Course	= 350	Sq. Yds.
B-20 4" W.B. Mac. Base Course	= 350	Sq. Yds.
Special 5" Gran. Slag B.C.	= 350	Sq. Yds.
I-17 Side Approaches	= 128	Sq. Yds.
E-8 Sealing Only	= 33	Lin. Ft.

INTERSECTION STA. 340 + 85.58

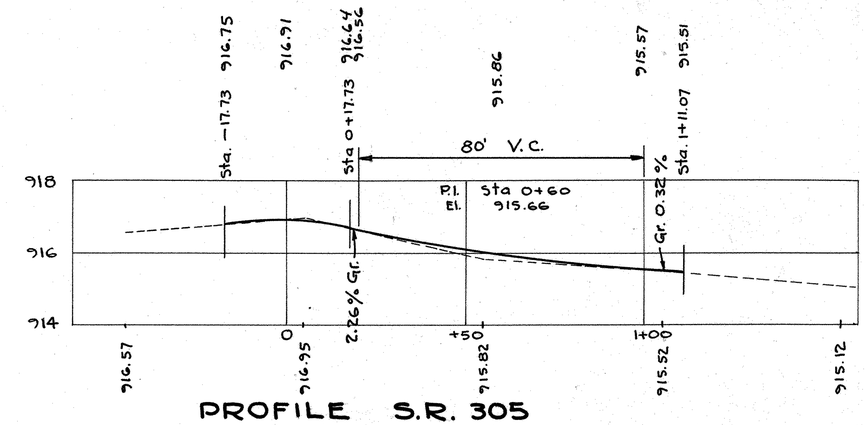
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

114 / 150

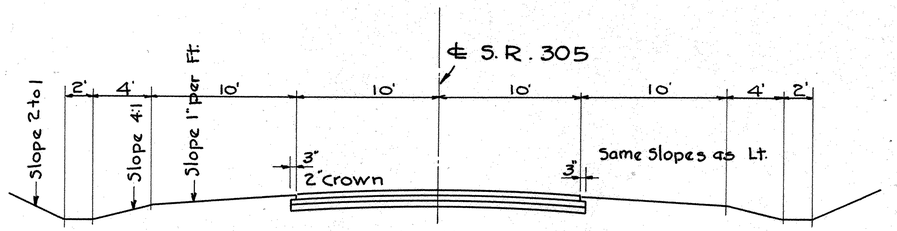
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C.D (PT.)



Scale 1" = 20'



PROFILE S.R. 305



STA. 1+11

T-33 Bituminous Macadam Surface Course, Type A.
T-30 Bituminous Prime Coat (Sec. M-5.1 RT-2) 0.35 Gal. per S.Y.
B-20 4" Waterbound Macadam Base Course.
Special 5" Granulated Slag (Grade B) Base Course.

ESTIMATED QUANTITIES

T-33 Bit. Mac. Surf. Course.	=	544 Sq. Yds.
T-30 Bit. Prime Coat.	=	547 Sq. Yds.
B-20 4" W. B. Mac. Base Course.	=	547 Sq. Yds.
Special 5" Gran. Slag Base Course.	=	547 Sq. Yds.
I-17 Side Approaches	=	243 Sq. Yds.
E-8 Sealing Only	=	146 Lin. Ft.
E-1 Excavation	=	172 Cu. Yds.

FED. RD. DIVISION	STATE	FED.AID	FISCAL YEAR	115 / 150
2	OHIO	F-41-(4)	1947	

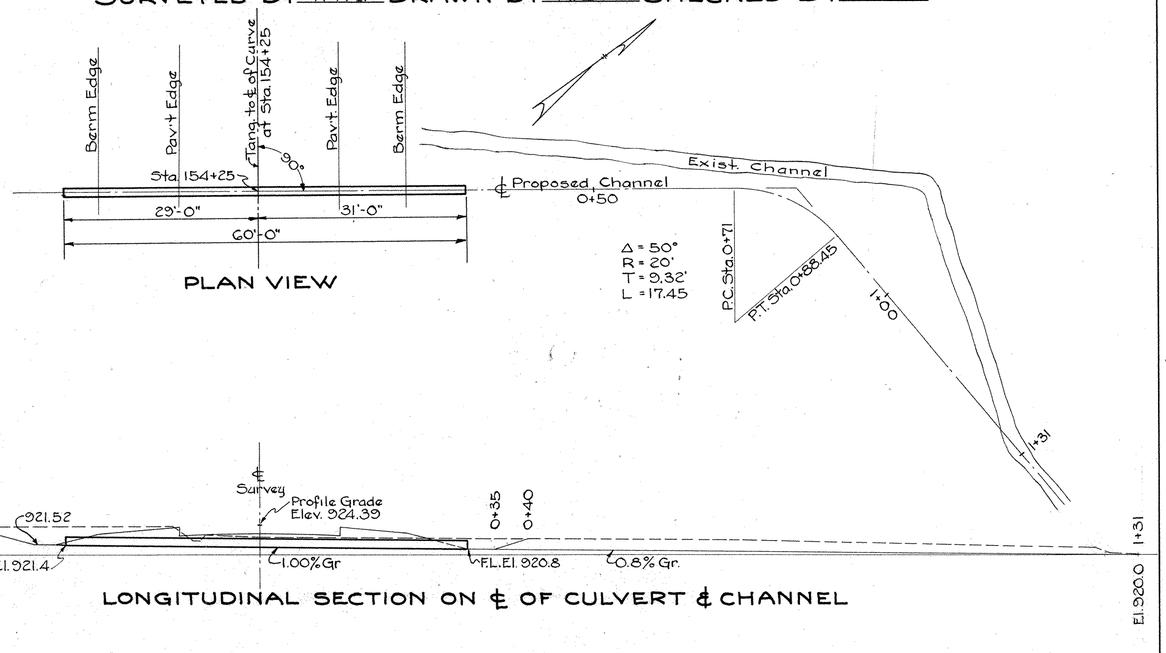
TRUMBULL COUNTY
S.H. 325 SEC. B(Pt.)C, D(Pt.)

DRAINAGE STRUCTURE C-45-CULV. No. TR. 422-58

STATION 154+25 DRAINAGE AREA 2 Ac.

SCALE 3/32"=1'-0"

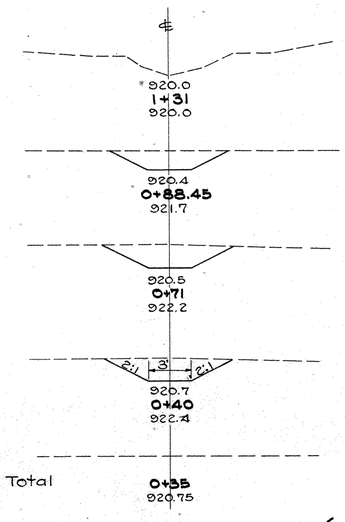
SURVEYED BY F.P.I. DRAWN BY R.L.M. CHECKED BY WWM



PLAN VIEW

LONGITUDINAL SECTION ON ℄ OF CULVERT & CHANNEL

Excavation	
E.A.	C.Y.
0	
	7
8	
	6
9	
	11
10	
	1
0	
	25 Total



CHANNEL EXCAVATION (Rt.)
Scale 1"=5'

CULVERT DATA

TYPE: Standard Cast Iron Culvert Pipe

SIZE: 15" × 60'-0"

WORK REQ'D: Lay 60 Lin. Ft. 15" Culvert Pipe. Excavate Channel on Rt. 96' as shown. Fill existing channel with earth from new channel.

ESTIMATED QUANTITIES

E-2 Excavation for Structures	9 C.Y.
E-3 Channel Excavation	25 C.Y.
S-27 Standard Culvert Pipe ⊗	60 L.F.

⊗ This quantity included in table on right.

TRANSVERSE CULVERTS

STRUCTURE NO.	CULVERT NO.	SIZE	LEFT LANE ELEV. F.L.	LEFT LANE L.F.	LEFT LANE ℄ STATION	RIGHT LANE L.F.	RIGHT LANE ELEV. F.L.	RIGHT LANE ELEV. F.L.	RIGHT LANE L.F.	RIGHT LANE ℄ STATION	RIGHT LANE L.F.	RIGHT LANE ELEV. F.L.
TR-422-83	C- 3	12"						905.90	26	**24+00	27	905.40
TR-422-82A	C- 4	12"						905.60	26	**27+00	26	905.00
TR-422-81	C- 6	12"						903.90	27	**33+00	26	903.50
TR-422-80A	C- 7	12"						901.80	22	* 37+00	23	898.60
TR-422-80	C- 8	12"						898.30	33	* 41+00	34	896.60
TR-422-79	C- 9	12"						896.80	36	* 44+00	36	895.50
TR-422-78A	C-10	12"						895.90	36	* 48+00	38	895.10
TR-422-75	C-19	12"						895.70	31	**67+00	31	894.70
TR-422-74	C-20	12"						895.60	28	**71+00	26	895.00
TR-422-73	C-21	12"						896.70	25	**77+00	27	895.80
TR-422-71A	C-23	12"						897.50	32	* 86+00	34	896.50
TR-422-71	C-24	12"						897.90	32	* 88+00	35	896.50
TR-422-70	C-25	12"						898.40	34	* 92+00	35	897.00
TR-422-69A	C-26	12"						898.90	32.5	**95+00	34.5	897.80
TR-422-68A	C-28	12"						900.10	33	*102+00	34	899.00
TR-422-68	C-29	12"						899.70	31	*104+00	35	899.00
TR-422-67	C-30	12"						900.00	34	*107+00	35	899.50
TR-422-65	C-32	12"						901.00	33	*118+00	38	900.50
TR-422-64	C-35	12"						901.90	33	*124+00	38	901.50
TR-422-63A	C-36	12"						902.95	32	*127+00	32	902.60
TR-422-62A	C-38	15"						906.50	27	**133+00	26	906.10
TR-422-60A	C-42	12"	911.60	35	*143+67	27	913.76					
TR-422-58	C-45	12"						921.40	29	**154+25	31	920.80
TR-422-50	C-49	12"	931.20	42	*190+00	28	935.00					
TR-422-49	C-50	15"	933.00	39	*194+00	27	935.10					
Total 12" R.C.P. =		938 L.F.										
Total 12" C.M.P. =		515 L.F.										
Total 15" C.M.P. =		119 L.F.										

* R.C.P.
** C.M.P.

LONGITUDINAL C.M.P. CULVERTS

STRUCTURE NO.	CULVERT NO.	SIZE	DISTANCE FROM ℄ SURVEY	STATION	ELEV. F.L.		STATION	ELEV. F.L.	LENGTH L.F. 12"	LENGTH L.F. 15"
TR-422-62	C-39	15"	33' Lt.	133+04	906.63	To	133+46	906.99		42
TR-422-61	C-41	12"	33.5 Lt.	142+00	912.50	To	142+40	912.80	40	
TR-422-59	C-44	12"	32' Lt.	150+80	919.04	To	151+20	919.33	40	
TR-422-51	C-47	12"	32' Lt.	182+11	938.60	To	182+81	938.30	70	
TR-422-33	C-59	15"	32' Lt.	281+80	933.92	To	282+60	934.17		80
TR-422-33B	C-1A	12"	0	20+87.5	906.80	To	21+12.5	906.70	25	
TR-422-76A	C-14	12"	37' Lt.	60+20.7	896.05	To	60+80.7	895.93	60	
							Total		235	122

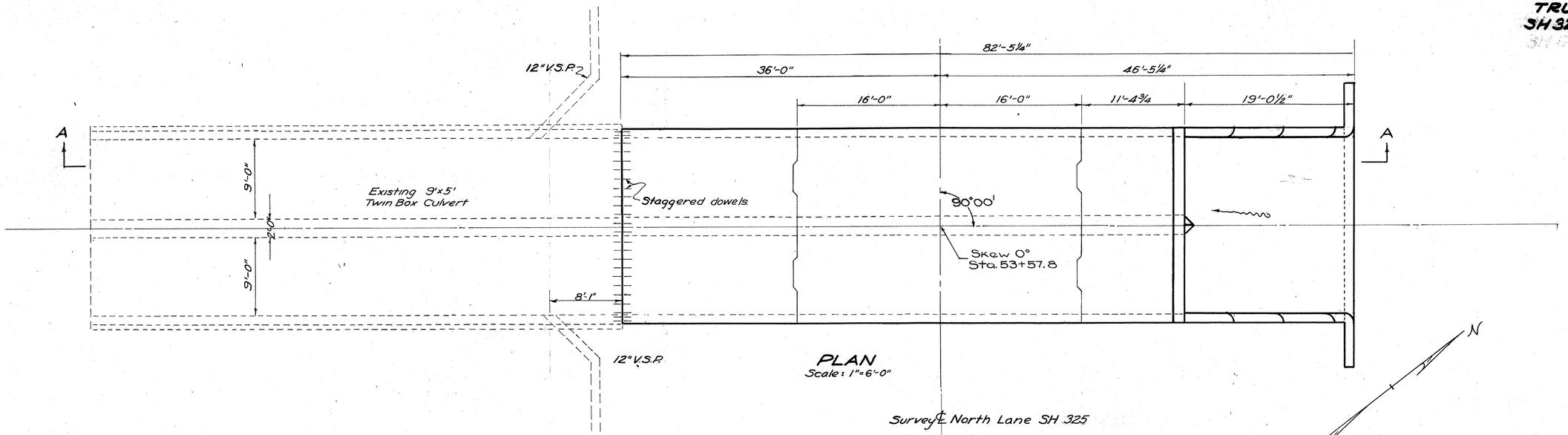
ESTIMATED QUANTITIES

E-2	Excavation for structures.	198 C.Y.
S-27	12" C.M.P. for roadway culverts.	750 L.F.
S-27	15" C.M.P. for roadway culverts.	241 L.F.
S-27	12" R.C.P. for roadway culverts	938 L.F.

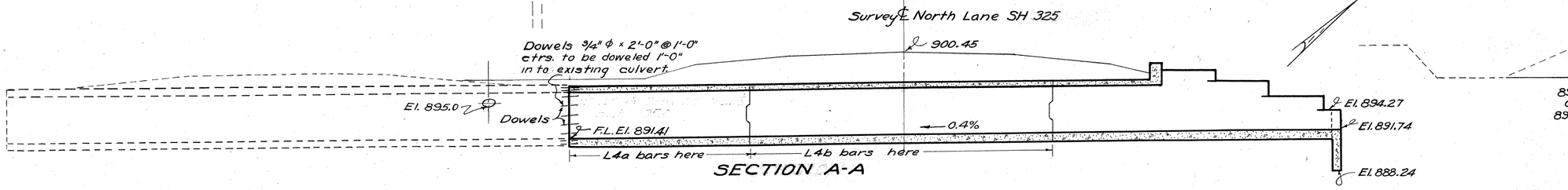
FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

116
150

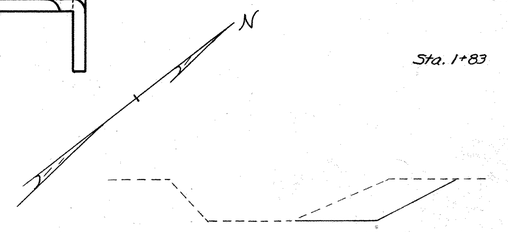
TRUMBULL COUNTY
SH 325 SEC. B(PT), C, D(PT)



PLAN
Scale: 1"=6'-0"

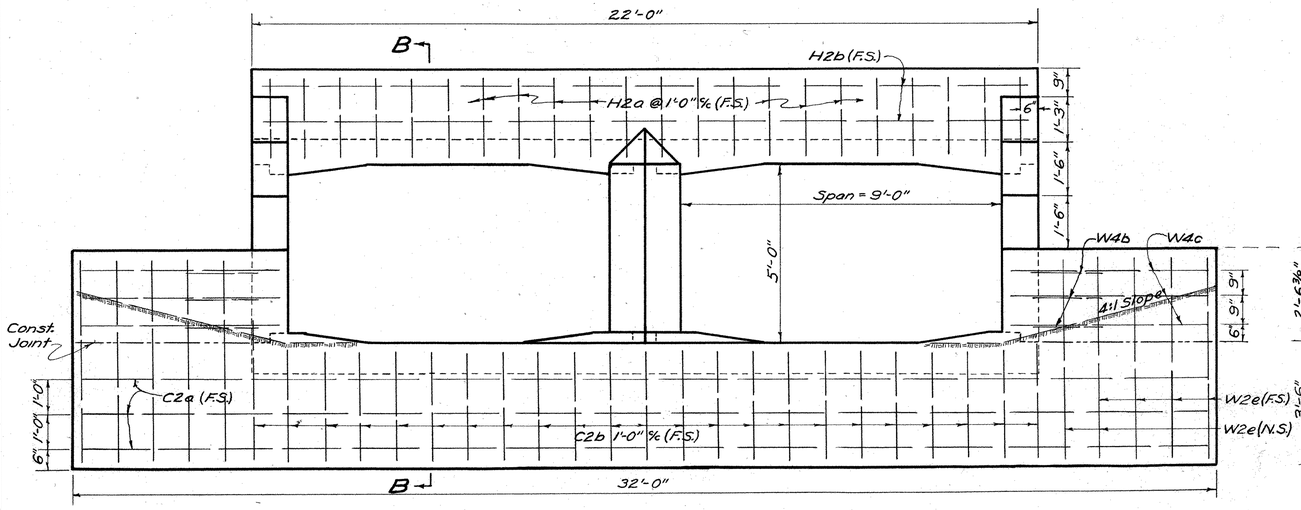


SECTION A-A

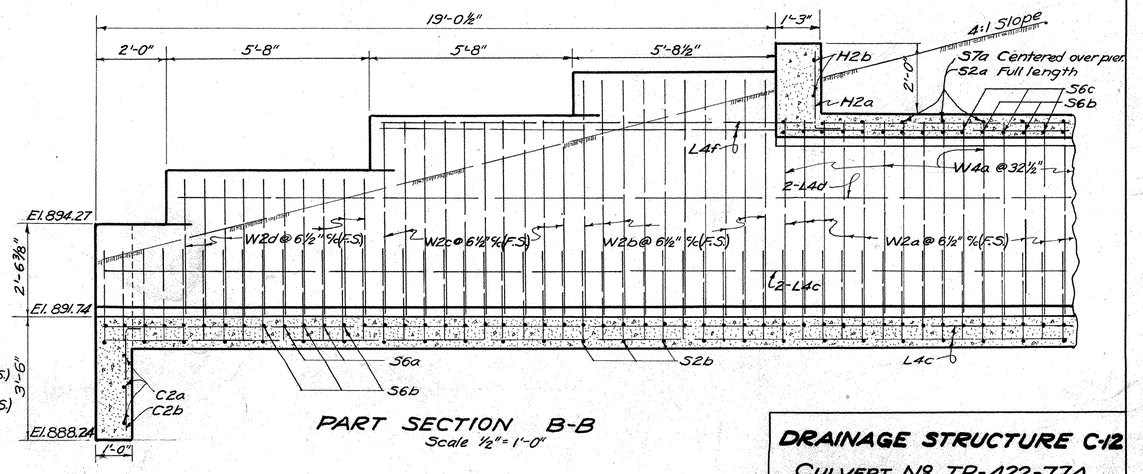


Channel Excavation

Sta. 1+83	E.A	C.Y
	0	
		111
	60	



END ELEVATION
Scale: ½"= 1'-0"



PART SECTION B-B
Scale ½"= 1'-0"

DRAINAGE STRUCTURE C-12
CULVERT Nº TR-422-77A
TWIN 9'x5'-82'-5¼" LARGE BOX CULVERT

Drainage Area: 1.8 Sq. Mi.
Std. Drwg. LBC-45
Sta. 53+57.8 Sheet 1 of 2

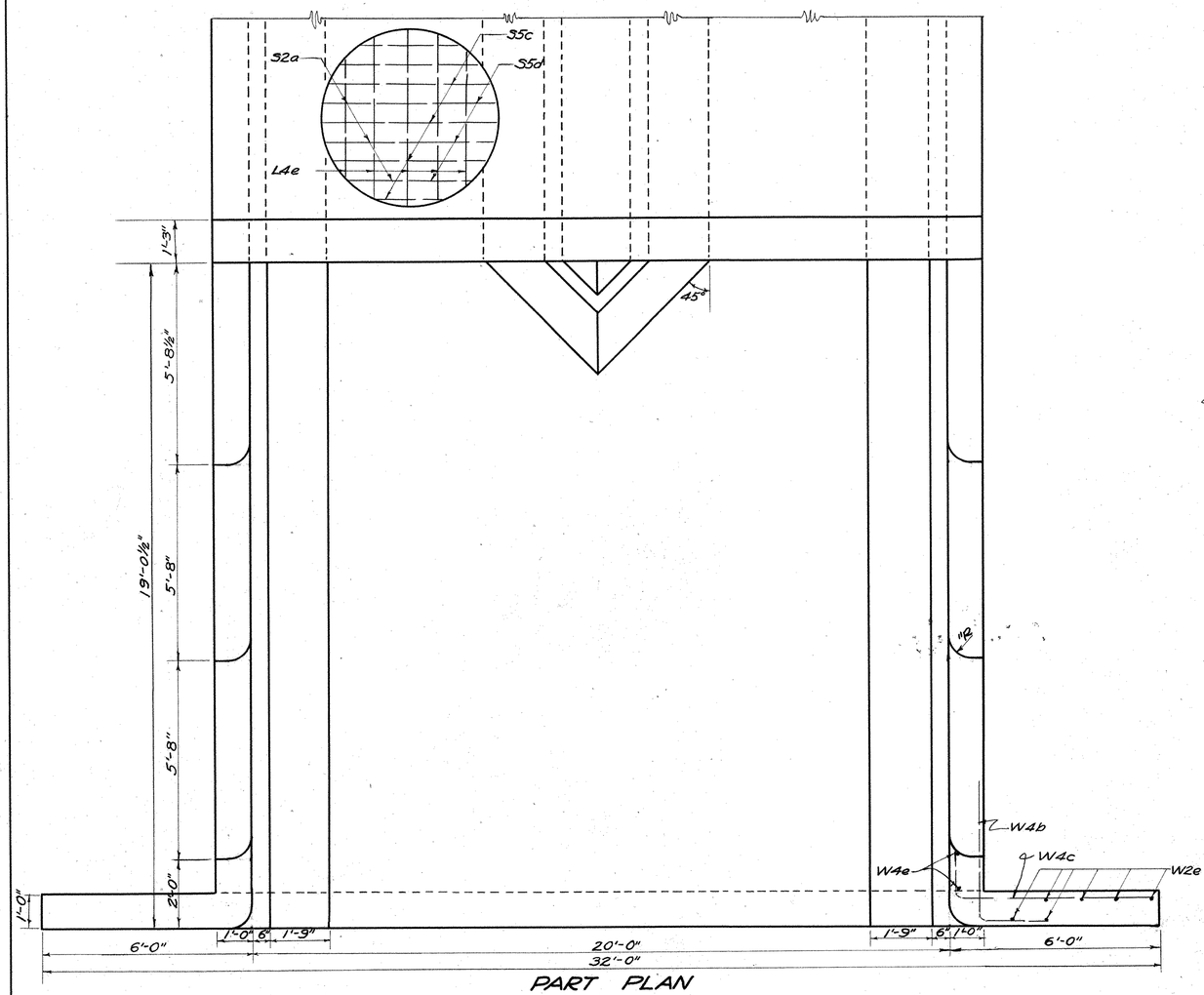
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
M.E.P.	M.E.P.	B.J.L.	B.J.L.	J.W.C.

DRAINAGE STRUCTURE C-12

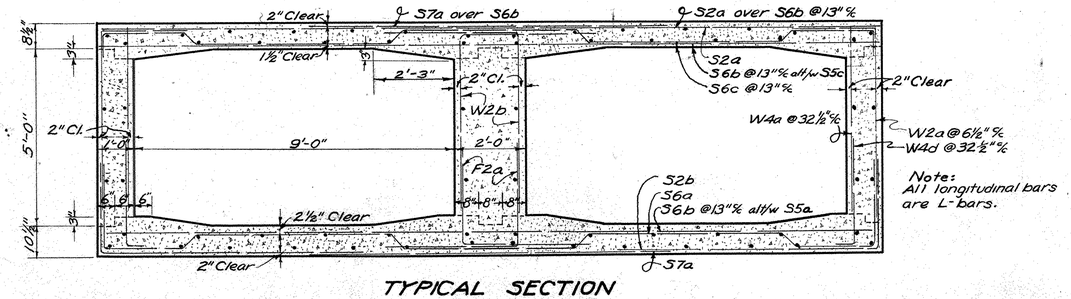
FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

117
150

TRUMBULL COUNTY
SH 325 SEC. B(PT), C, D(PT)

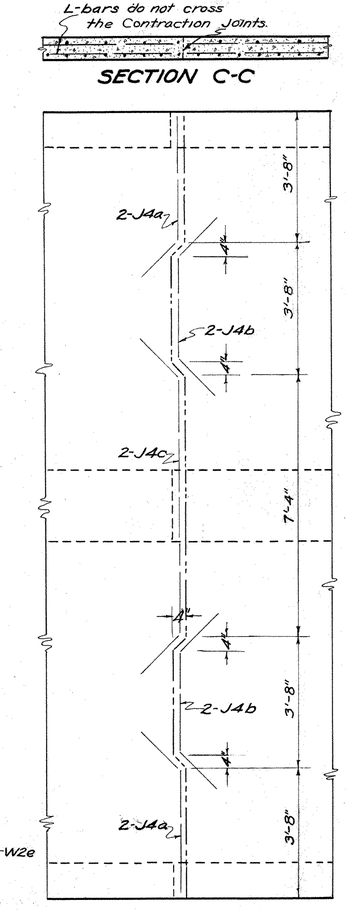


PART PLAN



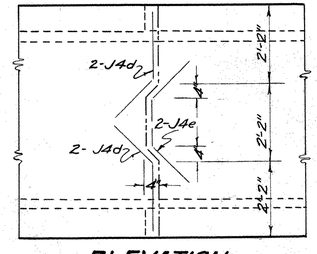
Note:
All longitudinal bars are L-bars.

TYPICAL SECTION
Scale: ½"=1'-0"

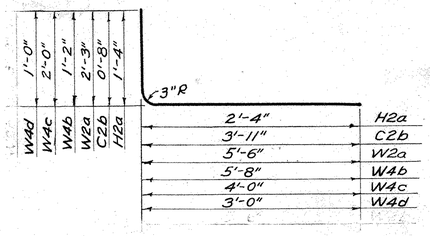


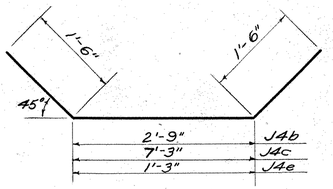
SECTION C-C

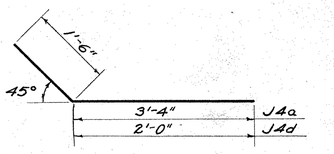
PLAN
Scale: ½"=1'-0"

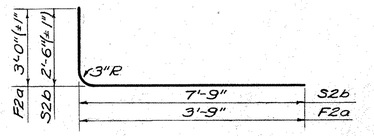


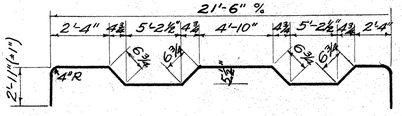
ELEVATION
Contraction Joint Detail
Walls & Pier



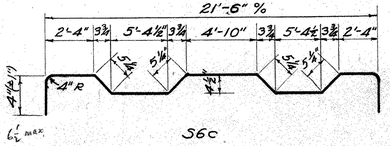








S6a



S6c

REINFORCING STEEL							
Mark	Spacing	Location	Shape	Size	No.	Length	Weight
C2a	1'-0"	Cut-off	Str.	½"ø	3	31'-6"	63
C2b	1'-0"	Cut-off	Bt	½"ø	23	4'-6"	69
H2a	1'-0"	Hdwall	Bt.	½ø	22	3'-6"	51
H2b	1'-0"	Hdwall	Str.	½ø	2	21'-6"	29
L4a	As shown	Barrel	Str.	⅝"ø	64	19'-6"	1300
L4b	As shown	Barrel	Str.	⅝"ø	64	31'-6	2101
L4c	As shown	Bot. Slab, Wl.	Str.	⅝"ø	30	30'-0"	939
L4d	As shown	Walls	Str.	⅝"ø	4	28'-0"	117
L4e	As shown	Top Slb, Pier	Str.	⅝"ø	26	11'-0"	300
L4f	As shown	Top Slb, Wll.	Str.	⅝"ø	4	22'-0"	92
S2a	1'-1'	Top Slab	Str.	½"ø	120	8'-0"	640
S2b	1'-1'	Bot Slab	Bt.	½"ø	154	10'-3"	1054
S6a	1'-1"	Bot. Slab	Bt.	⅞"ø	77	27'-9"	4370
S6b	1'-1"	Slabs	Str.	⅞"ø	135	21'-6"	5933
S6c	1'-1"	Top Slab	Bt.	⅞"ø	60	22'-6"	2759
S7a	1'-1"	Slabs	Str.	1"ø	135	10'-0"	3605
W2a	6½"	Walls	Bt.	½"ø	232	7'-9"	1199
W2b	6½"	Wings	Str.	½"ø	20	6'-6"	87
W2c	6½"	Wings	Str.	½"ø	20	5'-3"	70
W2d	6½"	Wings	Str.	½"ø	20	3'-6"	47
W2e	1'-0"	Wings	Str.	½"ø	12	5'-6"	44
W4a	2'-8½"	Walls	Str.	⅝"ø	48	5'-0"	250
W4b	9"	Wings	Bt.	⅝"ø	6	6'-9"	43
W4c	9"	Wings	Bt.	⅝"ø	6	6'-0"	38
W4d	2'-8½"	Wings	Bt.	⅝"ø	48	4'-0"	200
W4e	1'-0"	Wings	Str.	⅝"ø	4	2'-3"	10
J4a	As shown	Contr. Jt.	Bt.	⅝"ø	16	4'-10"	79
J4b	As shown	Contr. Jt.	Bt.	⅝"ø	16	5'-9"	96
J4c	As shown	Contr. Jt.	Bt.	⅝"ø	8	10'-3"	85
J4d	As shown	Contr. Jt.	Bt.	⅝"ø	24	3'-6"	88
J4e	As shown	Contr. Jt.	Bt.	⅝"ø	12	4'-3"	53
F2a	6½"	Pier	Bt.	½"ø	154	6'-9"	693
Dowel	12"±	Constr. Jt.	Str.	¾"ø	54	2'-0"	162
R2E		Rpl.	Str.	½"ø	2	4'-0"	5
R4E		Rpl.	Str.	⅝"ø	2	4'-6"	10
R5E		Rpl.	Str.	¾"ø	2	5'-0"	15
R6E		Rpl.	Str.	⅞"ø	2	5'-6"	22
R7E		Rpl.	Str.	1"ø	2	6'-0	32
						TOTAL	26750

CULVERT DATA
TYPE: Std. Concrete Box Culvert (Modified)
SIZE: Twin 9'x5'x82'-5¼"
STD. DRWG: LBC-45
WORK REQ'D: Extend existing culvert with modified standard twin box culvert. Excavate channel 100' right.
LOADING: S-20-46

ESTIMATED QUANTITIES

E-2	Excavation for Structures	196 C.Y.
E-3	Channel Excavation	111 C.Y.
S-1	Concrete for Structures Class "C"	159.5 C.Y.
S-4	Reinforcing Steel	26750 pounds
S-23	Dowel Holes	54 Each

DRAINAGE STRUCTURE C-12
CULVERT Nº TR-422-77A
TWIN 9'x5'x82'-5¼" LARGE BOX CULVERT

Drainage Area: 1.8 Sq. Mi.
Std. Drwg. LBC-45
Sta. 53+57.8 Sheet 2 of 2

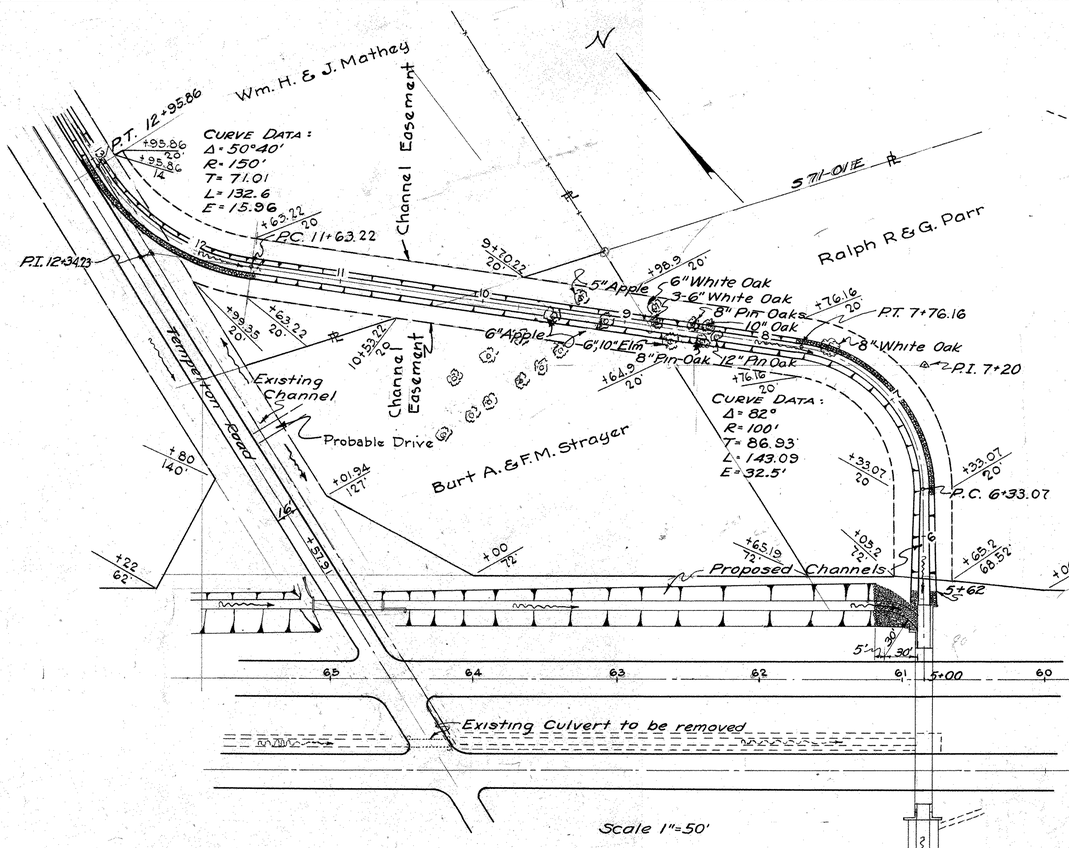
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
M.E.P	M.E.P	B.J.L.	B.J.L.	A.H.O.

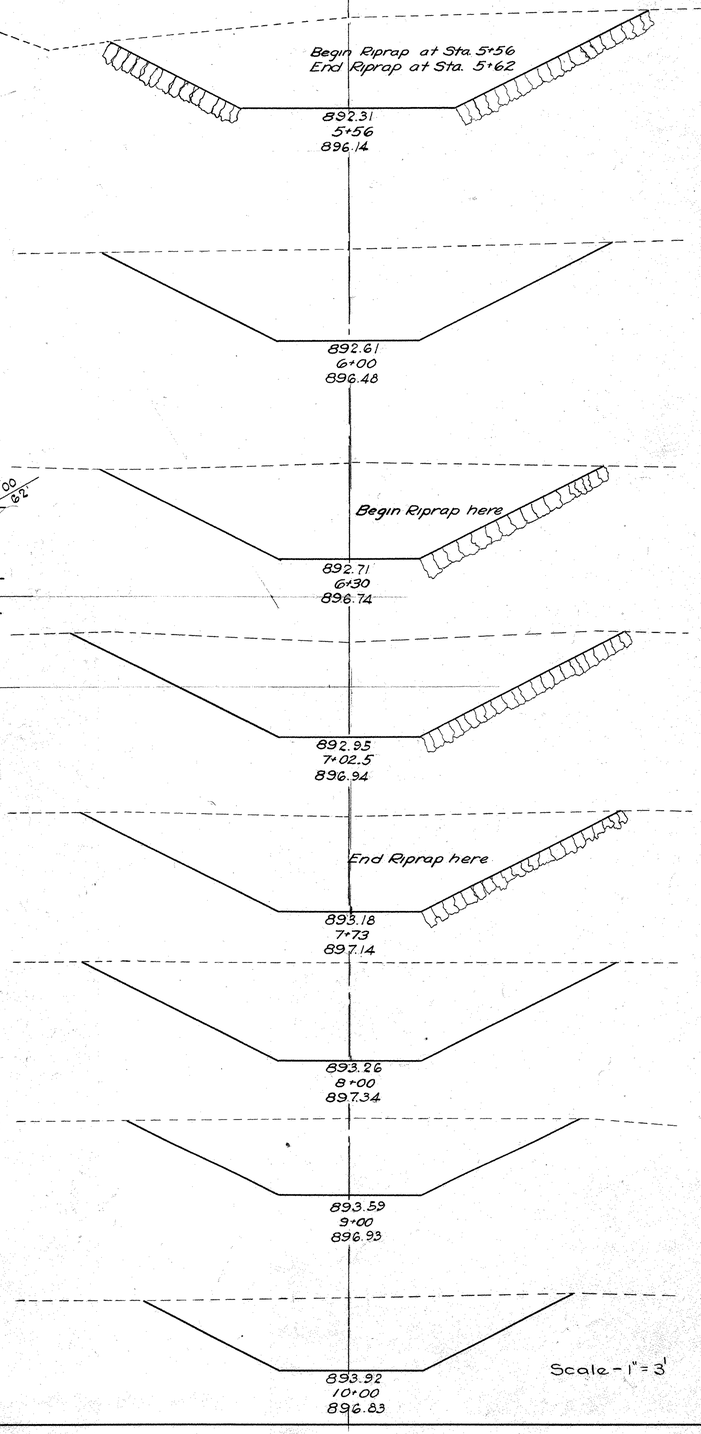
DRAINAGE STRUCTURE C-12

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

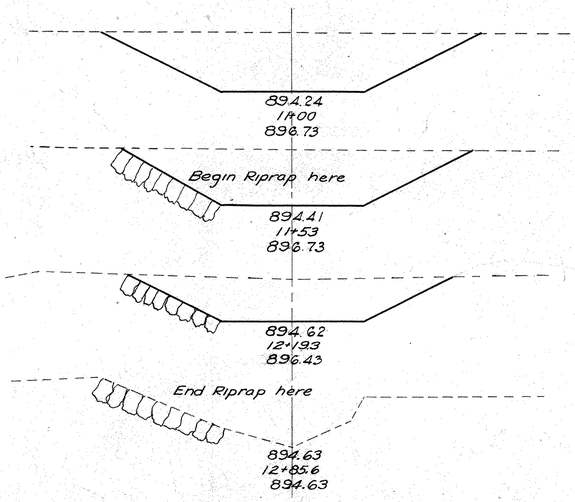
118
150

TRUMBULL COUNTY
SH 325 SEC. B(PT), C, D(PT)



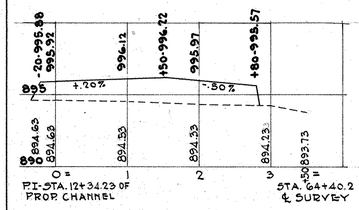


CHAN. EXC. E.A.	CHAN. EXC. C.Y.	RIPRAP S.Y.
65.8		
	98	54.0
53.9		
	59	
53.0		
	157	80.0
62.0		
	154.	78.3
58.2		
	58.	
58.3		
	184	
41.3		
	143	
36.0		
	118	

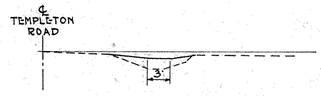


CHAN. EXC. E.A.	CHAN. EXC. C.Y.	RIPRAP S.Y.
27.5		
	52	
25.2		
	54	45.0
18.6		
	23	44.2
0.0		
TOTAL	1100	301.5

EXISTING CHANNEL ON EAST SIDE OF TEMPLETON ROAD TO BE BACKFILLED.



PROFILE OF EXISTING CHANNEL ON EAST SIDE OF TEMPLETON ROAD.
SCALE 1" = 100' HOR. 1" = 5' VERT.



X-SECTION OF EXISTING CHANNEL ON EAST SIDE OF TEMPLETON ROAD.
SCALE 1" = 10'

ESTIMATED QUANTITIES

E-3 - Channel Excavation - 1100.0 C.Y.
E-1 - Embankment - 93.0 C.Y.
I-10 - Rip Rap Type "A" - 301.5 S.Y.

CHANNEL EXCAVATION
DRAINAGE STRUCTURE C-15
CULVERT Nº TR-422-76A

9'x5'-9"x132'-7⅝" LARGE BOX CULVERT
DRAINAGE AREA: 4.1 SQ. MI.
Sta. 60+85.2 Sheet 1 of 4

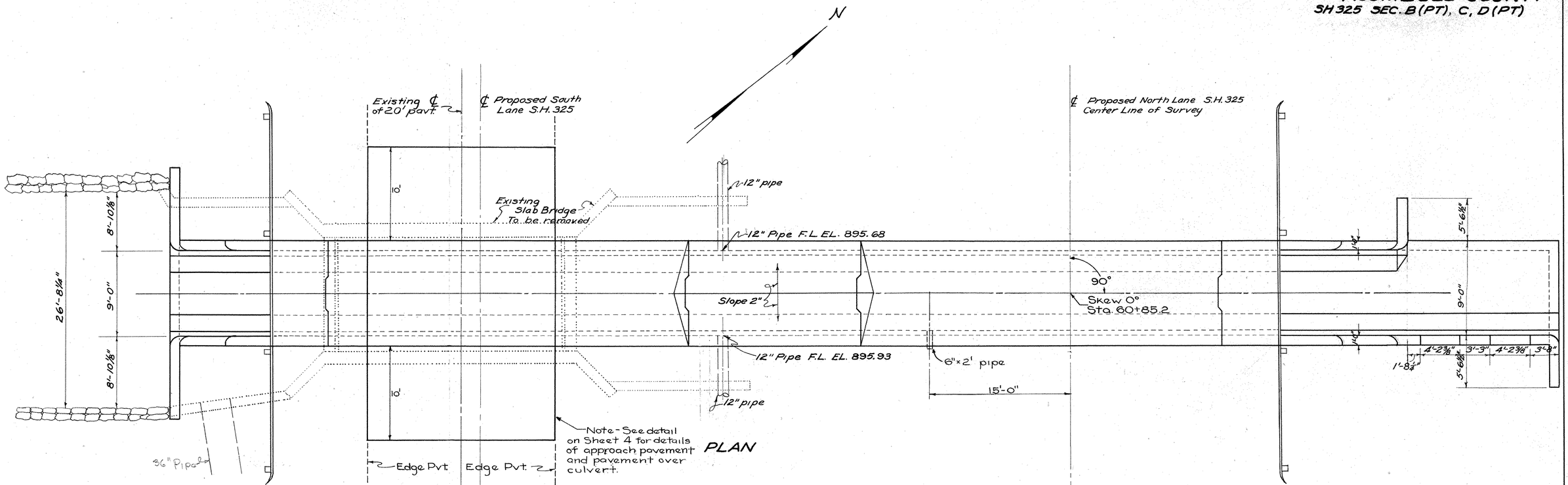
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
M.E.P.	M.E.P.	D.D.L.		

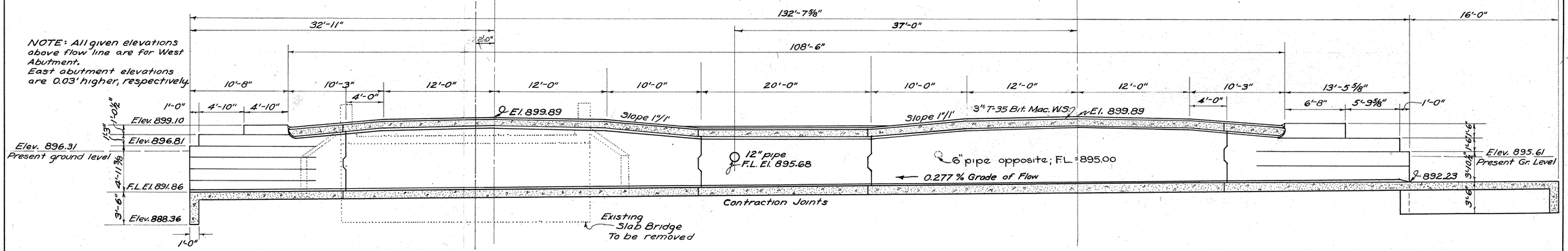
DRAINAGE STRUCTURE C-15

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

119
150

TRUMBULL COUNTY
SH 325 SEC. B(PT), C, D(PT)





ELEVATION

Scale: 1"=5'-0"

6.75

DRAINAGE STRUCTURE C-15

CULVERT Nº TR-422-76 A

9'x5'-9"x132'-7⅝" LARGE BOX CULVERT

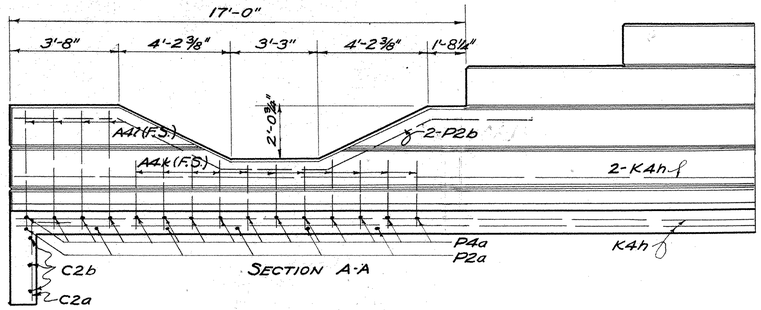
DRAINAGE AREA 4.1 Sq. Mi.
Std. Drwg. LBC-45
Sta. 60+85.2 Sheet 2 of 4

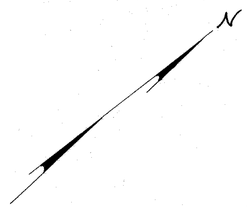
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
M.E.P.	M.E.P.	BAL	BJL 9/1/50	J.H.B.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

120
150

TRUMBULL COUNTY
SH 325 SEC. B(PT), C, D(PT)





PART ELEVATION
Scale: 3/8" = 1'-0"

DRAINAGE STRUCTURE C-15
CULVERT Nº TR-422-76A
9 × 5'-9" × 132'-7 5/8" LARGE BOX CULVERT
DRAINAGE AREA: 4.1 SQ.MI.
Std. Drwg. LBC-45
Sta. 60+85.2 Sheet 3 of 4

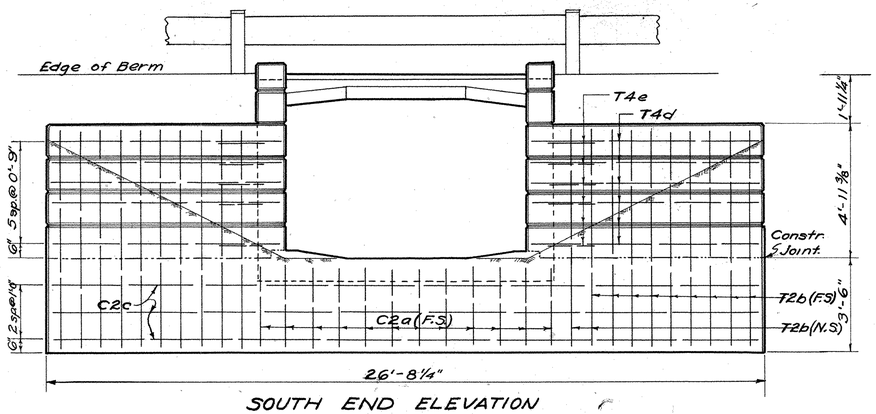
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
M.E.P.	M.E.P.	B.J.L.	M.R.A.	J.H.B.

DRAINAGE STRUCTURE C-1.

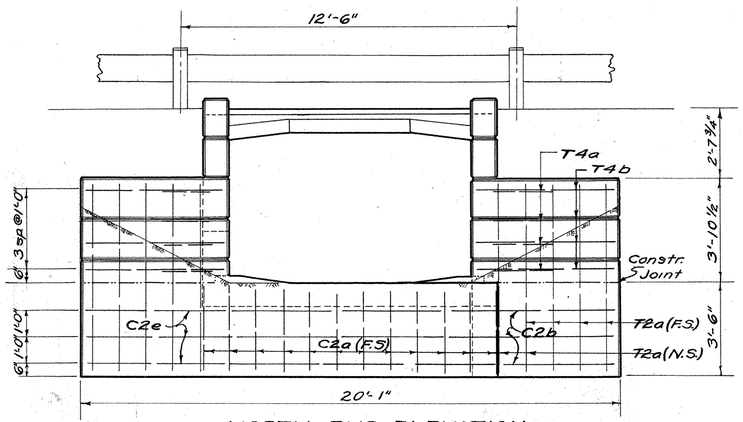
FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

121
150

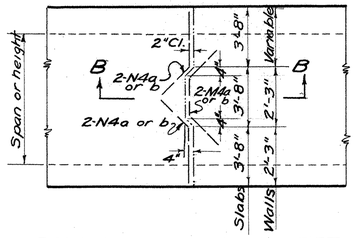
TRUMBULL COUNTY
SH 325 SEC. B(PT), C, D(PT)



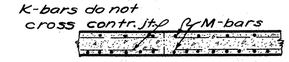
SOUTH END ELEVATION
Scale: 3/8"=1'-0"



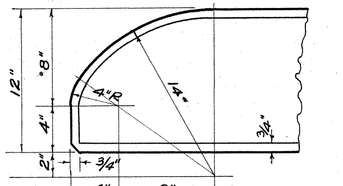
NORTH END ELEVATION



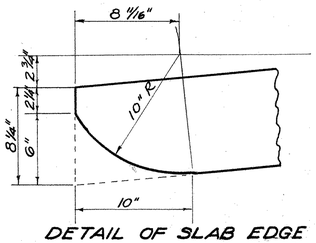
CONTRACTION JOINT DETAIL



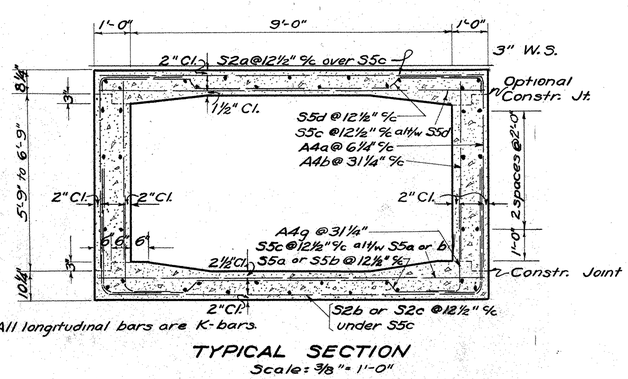
SECTION B-B



DETAIL OF WING STEP END
Scale: 2"=1'-0"

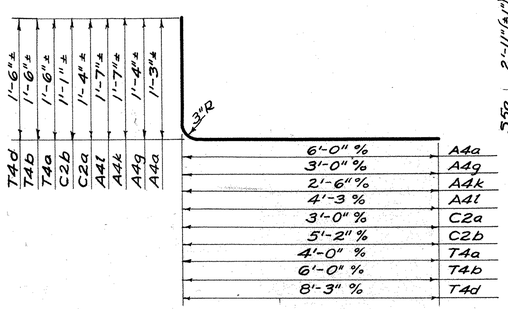


DETAIL OF SLAB EDGE
Scale: 2"=1'-0"



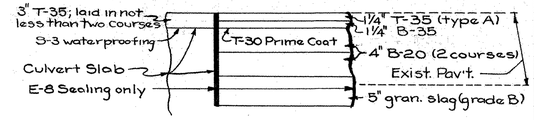
All longitudinal bars are K-bars.

TYPICAL SECTION
Scale: 3/8"=1'-0"

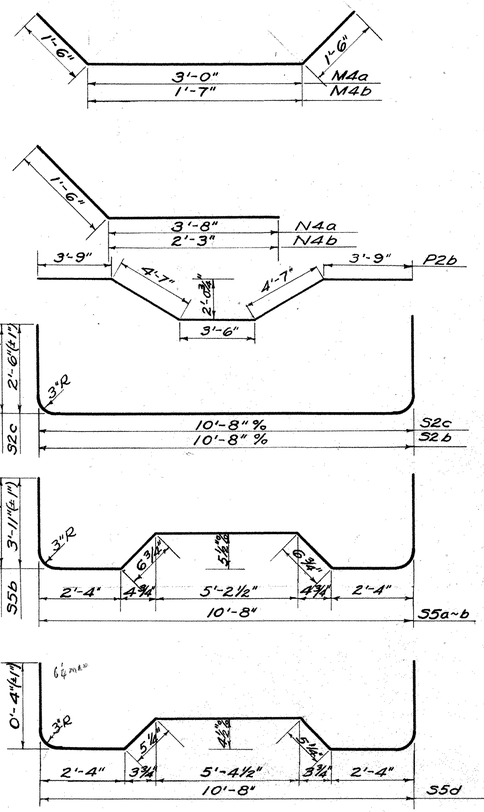


ESTIMATED QUANTITIES

E-2	Excavation for Structures	90 C.Y.
E-3	Channel Excavation	993 C.Y.
S-1	Concrete for Structures, Class "C"	1623 C.Y.
S-4	Reinforcing Steel	22,205 pounds
I-10	12" grout filled type 'A' riprap	300.5 S.Y.
S-24	Removal of Existing Structures	1 Lump
I-4	6" Pipe Underdrain	2 L.F.
T-35	1¼" Asph. conc. surf. course (type A)	6.0 C.Y.
S-3	Type 'C' waterproofing	24.4 S.Y.
B-35	Asphaltic concrete leveling course	1.5 C.Y.
B-20	8" waterbound macadam base (2) courses	44.4 S.Y.
T-30	Bitum. prime coat, Sec. M-57, RT-2	44.4 S.Y.
E-8	Sealing only	80 L.F.
Spec.	5" gran. slag (grade B) base course	44.4 S.Y.
E-1	Roadway Excavation	14 C.Y.



APPROACH PAVEMENT DETAIL
Scale - 1" = 1'



REINFORCING STEEL

Mark	Location	Shape	Size	Spacing	Number	Length	Weight
A4a	Abut.	B	5/8 ϕ	6¼"	414	7'-3"	3190
A4b	Abut.	S	5/8" ϕ	2'-7¼"	84	6'-0"	526
A4c	Wings	S	5/8" ϕ	6¼"	4	4'-6"	19
A4d	Wings	S	5/8" ϕ	6¼"	18	5'-9"	110
A4e	Wings	S	5/8" ϕ	6¼"	44	6'-9"	310
A4f	Rt. Wng.	S	5/8" ϕ	6¼"	22	5'-0"	115
A4g	Abut.	B	5/8" ϕ	2'-7¼"	84	4'-3"	372
A4h	Wings	S	5/8" ϕ	6¼"	4	3'-9"	16
A4k	Rt. Wing	B	5/8" ϕ	1'-0½"	11	4'-0"	45
A4l	Rt. Wing	B	5/8" ϕ	1'-0½"	4	5'-9"	25
C2a	Cut-off	B	½" ϕ	1'-0"	41	4'-3"	116
C2b	Cut-off	B	½" ϕ	1'-0"	3	6'-3"	13
C2c	Cut-off	S	½" ϕ	1'-0"	3	26'-3"	53
C2d	Cut-off	S	½" ϕ	1'-0"	3	16'-0"	50
C2e	Cut-off	S	½" ϕ	1'-0"	3	15'-0"	47
K4a	Bot. Slab	S	5/8" ϕ	as shown	21	16'-0"	350
K4b	Abut.	S	5/8" ϕ	as shown	4	15'-6"	65
K4c	Barrel	S	5/8" ϕ	as shown	76	37'-6"	2973
K4d	Bot. Slab	S	5/8" ϕ	as shown	8	19'-0"	159
K4e	Abut.	S	5/8" ϕ	as shown	4	18'-0"	75
K4f	Barrel	S	5/8" ϕ	as shown	38	19'-6"	773
K4g	Top Slab	S	5/8" ϕ	as shown	26	5'-3"	142
K4h	Bot. Slab	S	5/8" ϕ	as shown	15	35'-3"	551
M4a	Contr. Jt.	B	5/8" ϕ	as shown	16	6'-0"	100
M4b	Contr. Jt.	B	5/8" ϕ	as shown	16	4'-9"	79
N4a	Contr. Jt.	B	5/8" ϕ	as shown	32	5'-0"	167
N4b	Contr. Jt.	B	5/8" ϕ	as shown	32	3'-9"	125
P2a	Pan	S	½" ϕ	2'-7¼"	6	10'-6"	42
P2b	Rt. Wing	B	½" ϕ		2	20'-2"	27
P4a	Pan	S	5/8" ϕ	1'-0½"	15	10'-6"	169
S2a	Top Slab	S	½" ϕ	1'-0½"	103	10'-6"	715
S2b	Bot. Slab	B	½" ϕ	1'-0½"	102	17'-9"	1207
S2c	Bot. Slab	B	½" ϕ	1'-0½"	24	15'-9"	252
S5a	Bot. Slab	B	¾" ϕ	1'-0½"	23	16'-6"	570
S5b	Bot. Slab	B	¾" ϕ	1'-0½"	103	18'-6"	2862
S5c	Slabs	S	¾" ϕ	1'-0½"	228	10'-6"	3596
S5d	Top Slab	B	¾" ϕ	1'-0½"	102	11'-3"	1723
T2a	Turn back	S	½" ϕ	1'-0"	12	7'-0"	55
T2b	Tn bk	S	½" ϕ	9"	22	8'-0"	120
T4a	Tn bk.	B	5/8" ϕ	1'-0"	8	5'-6"	46
T4b	Tn bk.	B	5/8" ϕ	1'-0"	8	7'-3"	54
T4c	Tn bk.	S	5/8" ϕ	1'-0"	4	3'-3"	15
T4d	Tn bk.	B	5/8" ϕ	9"	12	9'-6"	100
T4e	Tn bk	S	5/8" ϕ	9"	12	4'-6"	56
RE2	Rpl.	S	½" ϕ		2	4'-0"	5
RE4	Rpl.	S	5/8" ϕ		2	4'-6"	10
RE5	Rpl.	S	¾" ϕ		2	5'-0"	15
					TOTAL	22205	

DRAINAGE STRUCTURE C-15
CULVERT Nº TR-422-76A
9'-5'-9" × 132'-7⅞" LARGE BOX CULVERT
DRAINAGE AREA: 4.1 SQ. MI.
Std. Drwg LBC-45
Sta. 60+85.2 Sheet 4 of 4

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
M.E.P.	M.E.P.	B.J.L.	M.A.	J.H.B.

DRAINAGE STRUCTURES C-16, C-17, C-18

STATION 64+47.82

CULVERT NO. TR.-422-75-B, C, & A

DRAINAGE AREA 220 A

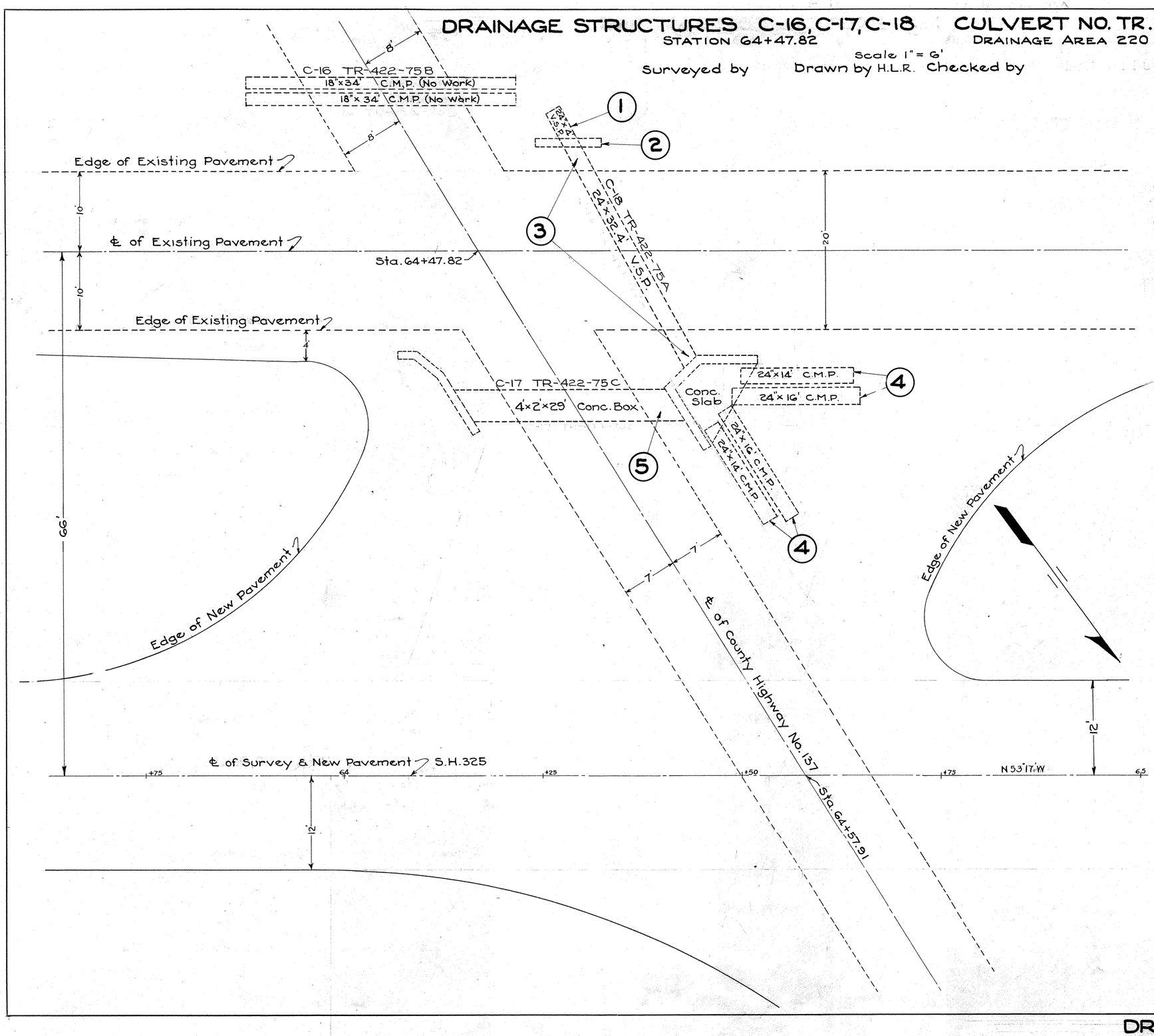
Scale 1" = 6'

Surveyed by Drawn by H.L.R. Checked by

FED. RD. DIVISION	STATE	FEDERAL AID PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

122
150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D (PT.)



1. Existing 24"x 4' V.S.P. to be removed and stored.
2. Remove existing concrete headwall down to top of pipe.
3. Plug both ends of existing 24" V.S.P. Culvt. according to item I-2.04.
4. Remove and store existing 24" C.M.P.
5. Remove existing concrete box culvert, headwalls on both ends and concrete slab. Cost is included in the lump sum bid for item S-24, Removal of Existing Structure

CULVERT DATA :-

EXISTING STRUCTURE – Concrete box 4'x 2'x 29' with concrete headwalls on both ends and concrete slab on northwest end, 60 lin.ft. 24" pipe culvert extensions as shown; 24"x32.4' pipe culvert with concrete headwall and 24"x4' V.S.P. extension on left end.

WORK REQUIRED :-

Remove existing 4'x2'x29' concrete box culvert and concrete headwalls on both ends and concrete slab on northwest end. Remove and store 60 lin.ft. of 24" culvert extensions as shown. Remove and store 4 lin.ft. of 24" V.S.P. shown. Remove existing concrete headwall on south end of 24"x32.4' pipe culvert down to top of pipe. Plug both ends of existing 24"x 32.4' pipe culvert according to item I-2.04, cost to be included in price per linear foot for E-12, 24" pipe removed and stored.

ESTIMATED QUANTITIES :-

S-24 Removal of existing structure	(1) Lump
E-12 24" pipe removed and stored	64 Lin.ft.
S-22 Removal of portion of existing structure	0.5 Cu.Yds.

DRAINAGE STRUCTURE C-17 CULVERT NO. TR-422-75 C

STATION 64+86.54 — DRAINAGE AREA 220 Ac.

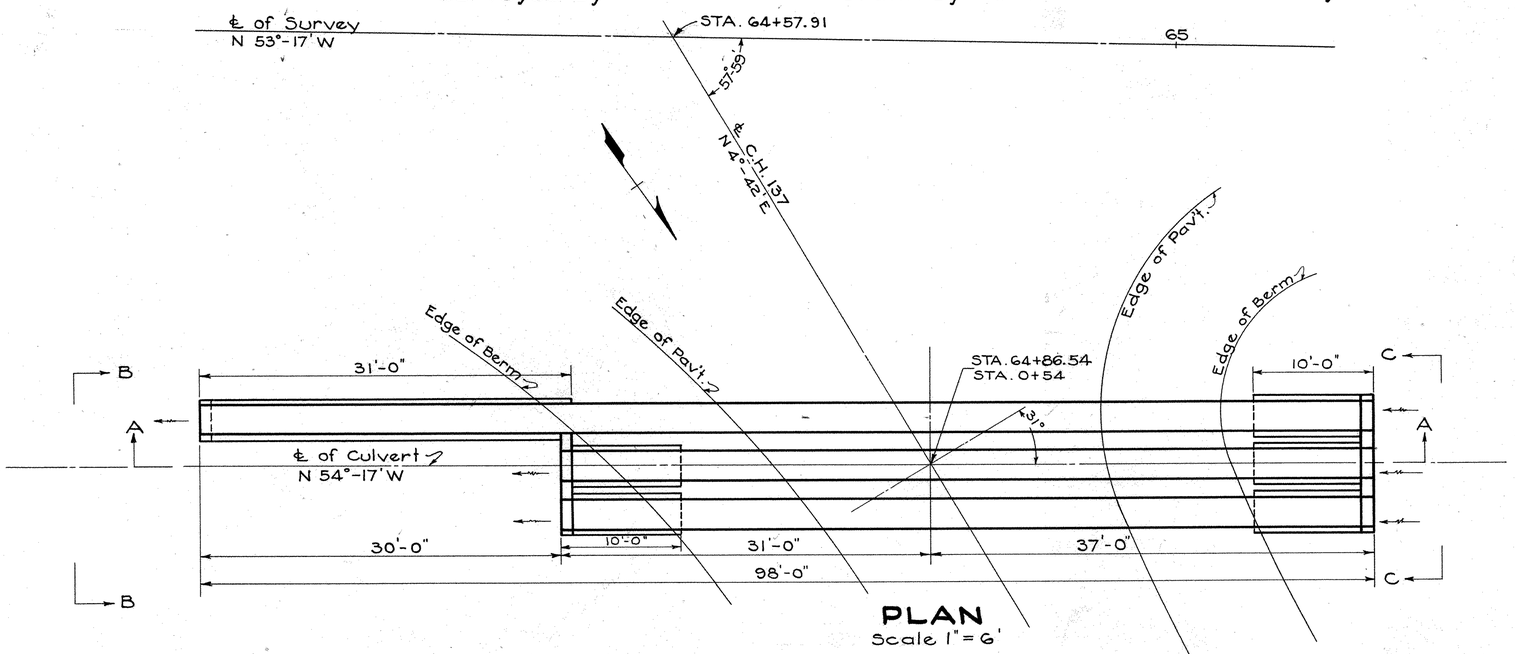
Scales - as shown

Surveyed by — Drawn by H.L.R. — Checked by H.L.R.

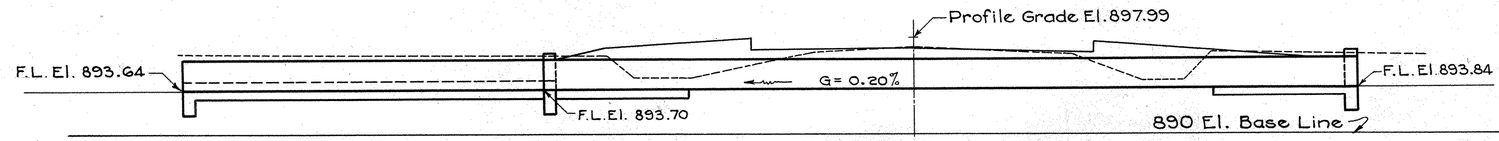
FED. RD. DIVISION	STATE	FEDERAL AID PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

123/150

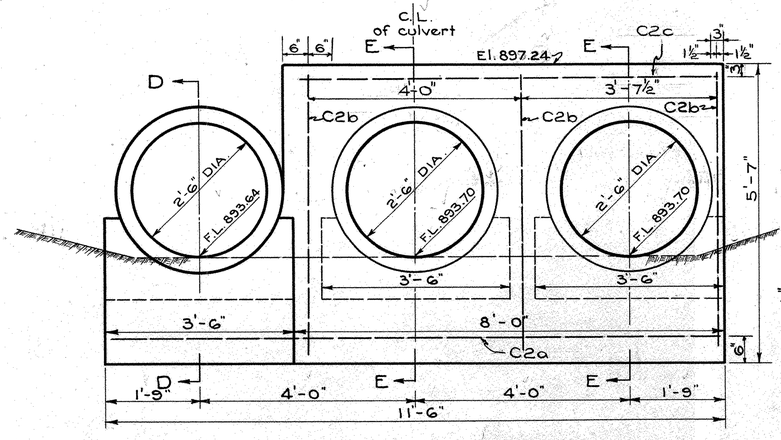
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D (PT.)



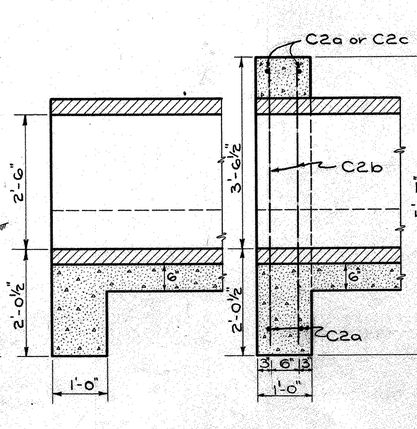
PLAN
Scale 1" = 6'



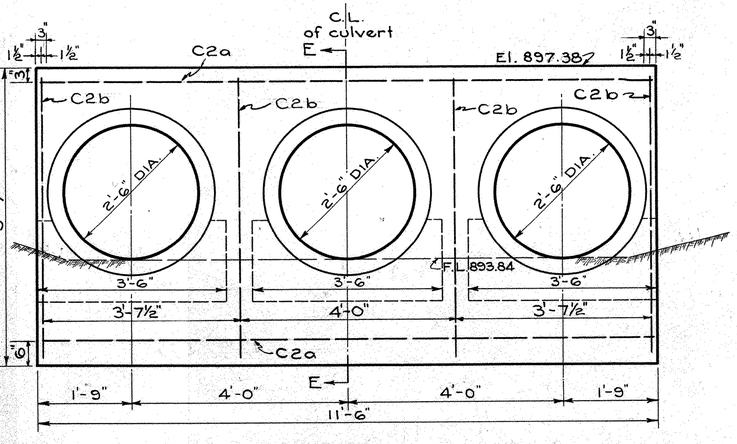
SECTION AA



SECTION BB
Scale 3/4" = 1'-0"



SECTION DD SECTION EE



SECTION CC
Scale 3/4" = 1'-0"

CULVERT DATA

TYPE - Standard pipe culvert with standard cradles and special cut of walls on both ends.
SIZE - 3-30" dia. pipes. 2 @ 68' long and 1 @ 98' long
STANDARD DRWGS. S-27 P.C.2 & 3
WORK REQUIRED
Build standard pipe culvert with standard cradles and special cut-off walls on both ends as shown.

ESTIMATED QUANTITIES

E-2	Excavation for structures	116 Cu.Yds.
S-1	Concrete for structures, class "E"	12.4 Cu.Yds.
S-27	30" pipe for roadway culverts	234 Lin.Ft.
S-4	Reinforcing Steel	110 Lbs.

STEEL LIST

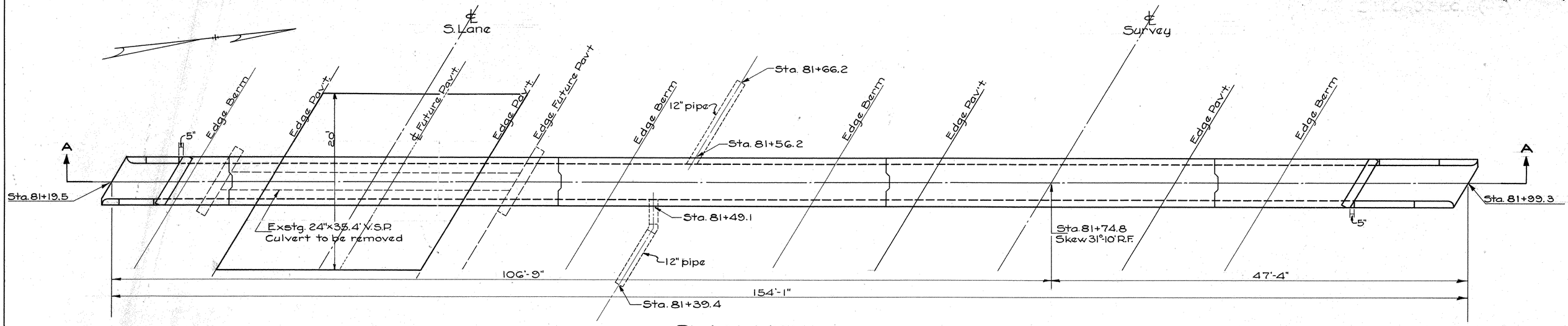
Mark	Location	Shape	Size	Number	Length	Weight
C2a	Head Wall	S	½" Φ	6	11'-3"	46
C2b	Head Wall	S	½" Φ	14	5'-4"	49
C2c	Head Wall	S	½" Φ	2	7'-10"	10
R2e	Replacement	S	½" Φ	2	4'-0"	5
				Total		110

CULVERT C-17

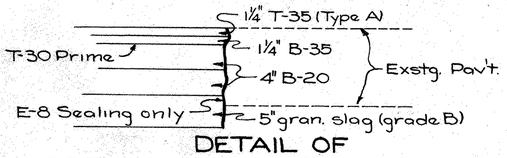
FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

124
150

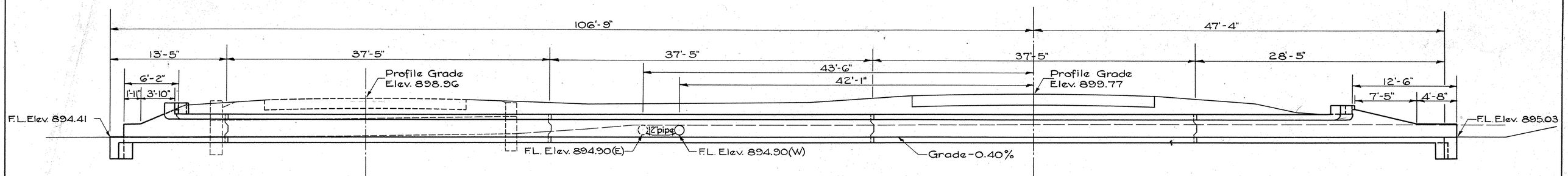
TRUMBULL COUNTY
S.H. 325 SEC. B(P.T.), C, D(P.T.)



PLAN VIEW
Scale - 3/16" = 1'



DETAIL OF REPLACEMENT PAVEMENT
Scale - 1" = 1'



SECTION A-A
Scale 3/16" = 1'

CULVERT DATA

TYPE : Standard Small Box Culvert

SIZE : 4'×2'×154'-1" @ 31°-10' R.F. Skew

STD. DRWGS.: SBC-45

WORK REQ'D.: Remove existing 24"×35.4' V.S.P. culvert. Build 4'×2'×154'-1" standard concrete box culvert as shown. Replace pavement as shown.

ESTIMATED QUANTITIES

B-20	8" Waterbound Macadam Base Course (2 courses)	44.4 S.Y.
E-2	Excavation for Structures	89 C.Y.
S-1	Class "E" Concrete for Structures	53 C.Y.
S-4	Reinforcing Steel	7317 Lbs.
S-24	Removal of Existing Structure	(1) Lump
T-35	1¼" Asphaltic concrete surface course (type A)	1.5 C.Y.
Spec.	5" Granulated Slag (grade B) Base Course	44.4 S.Y.
B-35	1¼" Asphaltic concrete leveling course	1.5 C.Y.
T-30	Bituminous prime coat, Sec. M-5.7, RT-2	44.4 S.Y.
E-8	Sealing only	47 L.F.
E-1	Roadway Excavation	11 C.Y.

DRAINAGE STRUCTURE C-22
STA. 81+74.8 CULV. NO. TR-422-72

STD. DRWG. NO. SBC-45

DRAINAGE AREA = 80 Ac.

SCALE - as indicated

Sheet 1 of 2 Sheets

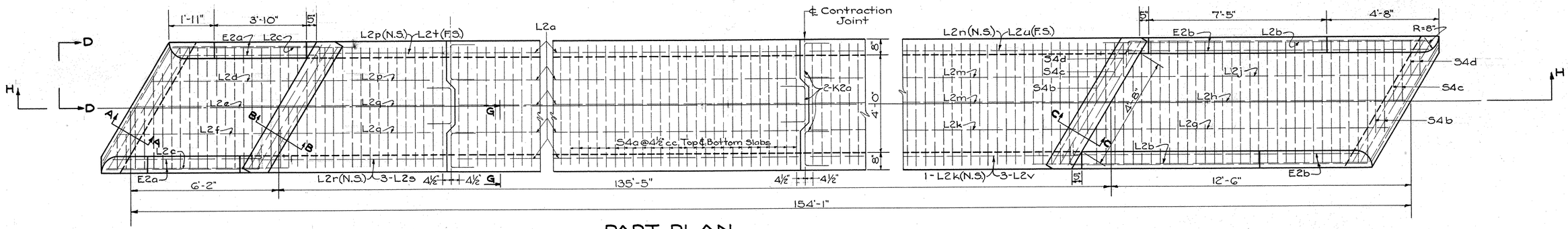
DRAWN BY	CHECKED BY	REVIEWED BY	REVISED BY
W.W.M.	T.R.P.		

DRAINAGE STRUCTURE C-22

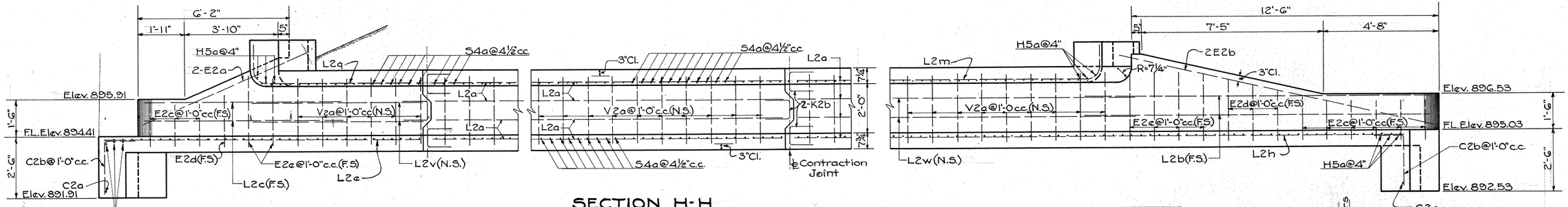
FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

125
150

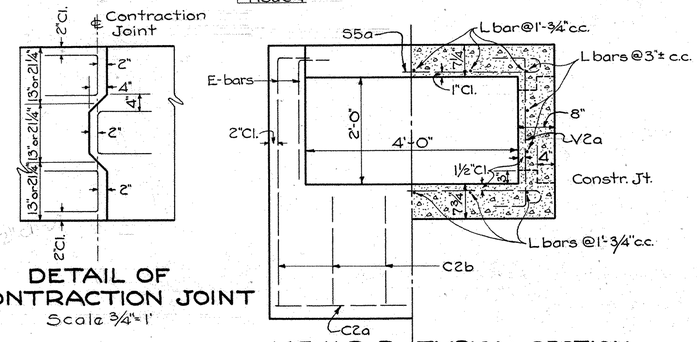
TRUMBULL COUNTY
S.H.325 SEC. B(Pt.),C,D(Pt.)



PART PLAN
Scale - ½"=1'

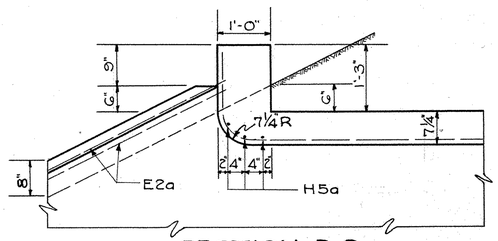


SECTION H-H
Scale-½"=1'

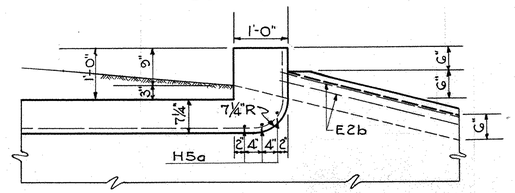


DETAIL OF CONTRACTION JOINT
Scale ¾"=1'

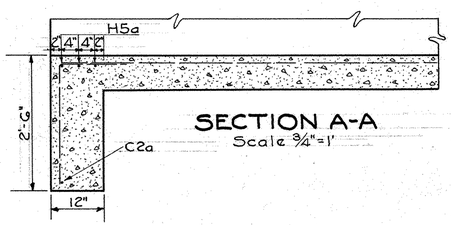
VIEW D-D TYPICAL SECTION G-G
Scale ¾"=1'



SECTION B-B
Scale - ¾"=1'



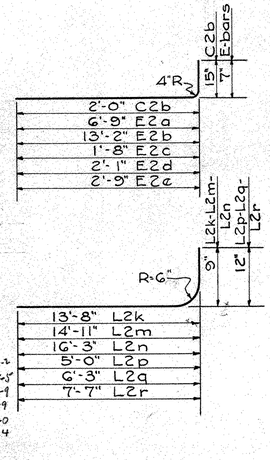
SECTION C-C
Scale ¾"=1'

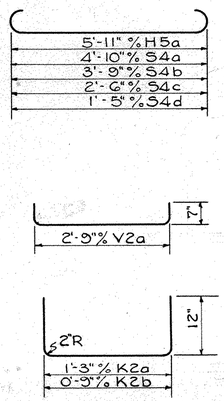


SECTION A-A
Scale ¾"=1'

STEEL LIST

Mark	Location	Shape	Size	Number	Length	Weight	
C2a	Cut-off Wall	S	½" ϕ	2	6'-0"	8	
C2b	Cut-off Wall	B	½" ϕ	12	3'-3"	26	
E2a	Left Wings	B	½" ϕ	4	7'-3"	19	
E2b	Right Wings	B	½" ϕ	4	13'-8"	37	
E2c	Wings	B	½" ϕ	18	2'-2"	26	
E2d	Wings	B	½" ϕ	8	2'-7"	14	
E2e	Wings	B	½" ϕ	12	3'-3"	26	
H5a	Cut-Off & Headwalls	B	¾" ϕ	12	7'-3"	131	
K2a	Contr. Joints	B	½" ϕ	48	3'-2"	101	
K2b	Contr. Joints	B	½" ϕ	48	2'-8"	86	
L2a	Barrel	S	½" ϕ	42	36'-11"	1036	
L2b	Right Wings	S	½" ϕ	6	13'-11"	56	
L2c	Left Wings	S	½" ϕ	6	7'-7"	30	
L2d	Bott. Slab(Lt)	S	½" ϕ	1	12'-1	8	
L2e	Bott. Slab(Lt)	S	½" ϕ	1	13'-0"	9	
L2f	Bott. Slab(Rt)	S	½" ϕ	1	13'-4"	9	
L2g	Bott. Slab(Rt)	S	½" ϕ	1	27'-2"	18	
L2h	Bott. Slab(Rt)	S	½" ϕ	1	27'-9"	19	
L2j	Bott. Slab(Rt)	S	½" ϕ	1	28'-5"	19	
L2k	Top Slab(Rt)	B	½" ϕ	2	15'-1"	20	14-2
L2m	Top Slab(Rt)	B	½" ϕ	2	16'-4"	22	15-5
L2n	Top Slab(Rt)	B	½" ϕ	1	17'-11"	12	16-9
L2p	Top Slab(Lt)	B	½" ϕ	2	7'-0"	9	5-9
L2q	Top Slab(Lt)	B	½" ϕ	2	7'-11	11	7-0
L2r	Top Slab(Lt)	B	½" ϕ	1	9'-3"	6	8-4
L2s	Left Walls	S	½" ϕ	3	8'-3"	17	
L2t	Left Walls	S	½" ϕ	3	5'-9"	12	
L2u	Right Walls	S	½" ϕ	3	17'-0"	34	
L2v	Right Walls	S	½" ϕ	3	14'-3"	29	
S4a	Barrel	B	⅝" ϕ	741	6'-0"	4637	
V2a	Walls	B	½" ϕ	270	3'-11"	707	
R2E	Replacement	S	½" ϕ	2	4'-0"	5	
R4E	Replacement	S	⅝" ϕ	2	4'-6"	9	
R5E	Replacement	S	¾" ϕ	2	5'-0"	15	
S4b	Slabs(Rt & Lt)	B	⅝" ϕ	8	4'-11"	41	
S4c	Slabs(Rt & Lt)	B	⅝" ϕ	8	3'-8"	31	
S4d	Slabs(Rt & Lt)	B	⅝" ϕ	8	2'-7"	22	
				Total		7317	





DRAINAGE STRUCTURE C-22
STA. 81+74.8 CULV. NO. TR-422-72
STD. DRWG. NO. SBC-45
DRAINAGE AREA = 80Ac.
SCALE - as indicated
Sheet 2 of 2 Sheets

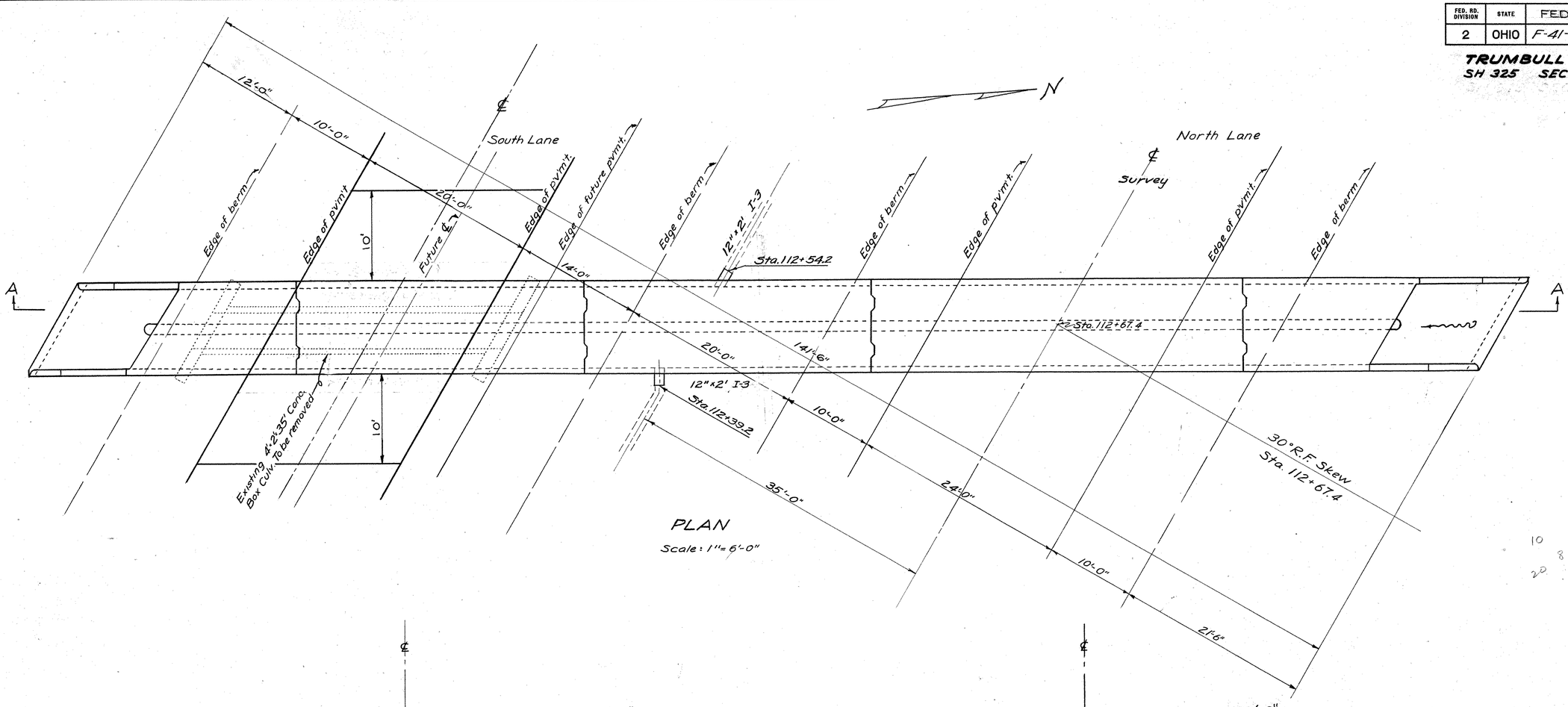
DRAWN BY	CHECKED BY	REVIEWED BY	REVISED BY

DRAINAGE STRUCTURE C-22

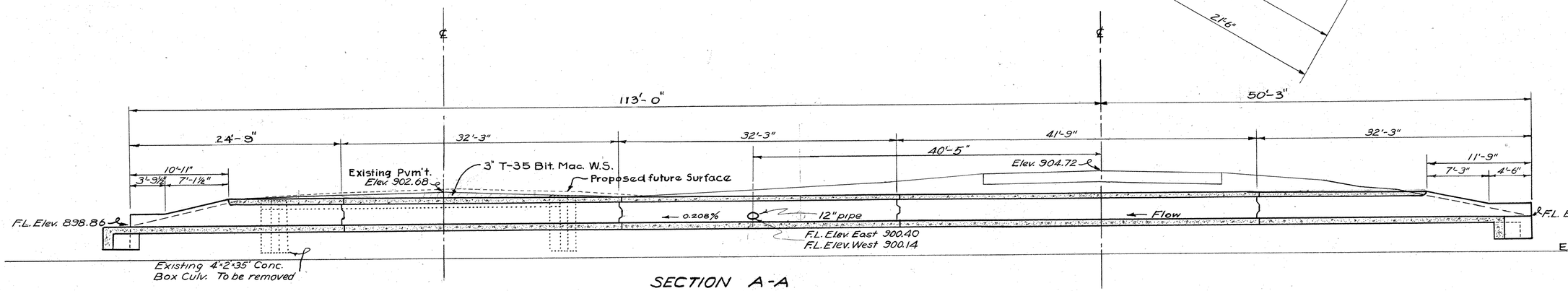
FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

126
150

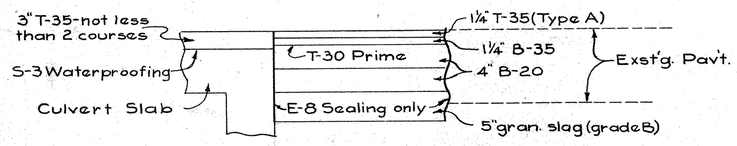
TRUMBULL COUNTY
SH 325 SEC. B (PT), C, D(PT)



PLAN
Scale: 1"= 6'-0"



SECTION A-A



DETAIL OF REPLACEMENT PAVEMENT
Scale - 1" = 1'

DRAINAGE STRUCTURE C-31
STA 112+67 TR-422-66
Std. Drwg. No. SBC 45
DRAINAGE AREA: 390 ACRES
Sheet 1 of 2 Sheets

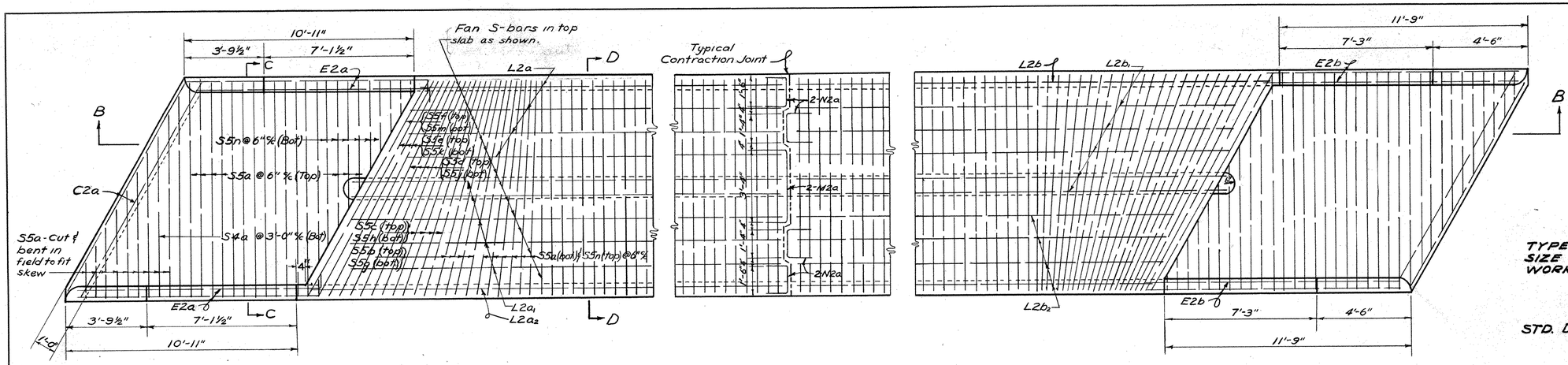
Designed	Drawn	Traced	Checked	Reviewed
M.E.P.	M.E.P.	B.J.L.	B.J.L.	J.H.V.S.

DRAINAGE STRUCTURE C-3

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

127
150

TRUMBULL COUNTY
SH 325 SEC. B(PT), C, D(PT)



PART PLAN

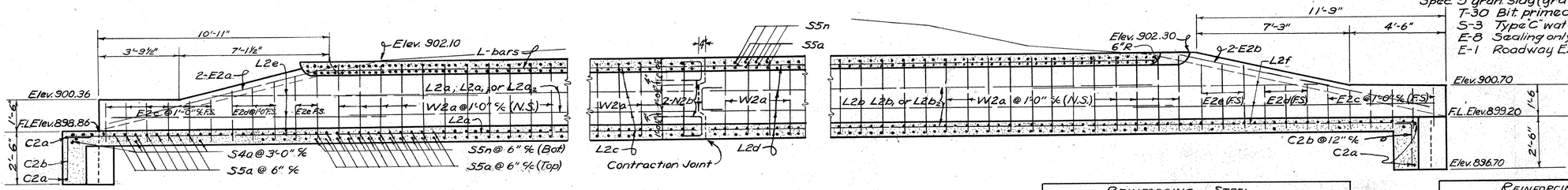
Scale: 3/8" = 1'-0"

CULVERT DATA

TYPE : Special Box Culvert H-20 Loading
SIZE : Twin 4' × 2½' × 162'-10" at 30° R.F. Skew
WORK REQ'D : Remove existing 4 × 2 × 35' Concrete Box Culvert. Build new twin 4 × 2½ × 162'-10" Concrete Box Culvert as shown. Replace pavement as shown.
STD. DRWG. : SBC-45 (Modified)

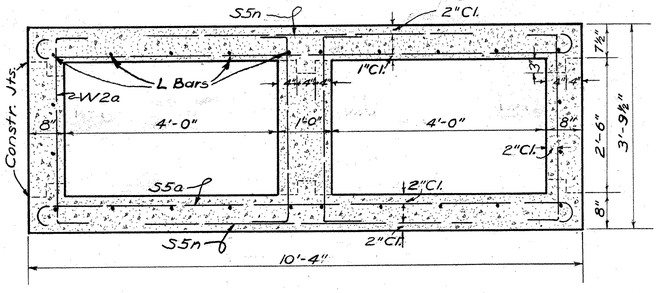
ESTIMATED QUANTITIES

E-2 Excavation for Structures	75 C.Y.
S-1 Class "C" Concrete for structures	110 C.Y.
S-4 Reinforcing Steel	20155 pounds
S-24 Removal of Existing Structures	(1) Lump
I-3 12" Pipe for roadway drainage	4 L.F.
B-20 8" Waterbound mac. base 12 courses	444.4 S.Y.
B-35 1½" Asph. conc. levelling course	1.5 C.Y.
T-35 Asph. concrete surface course	3.5 C.Y.
Spec. 5" gran. slag (grade B) base course	444.4 S.Y.
T-30 Bit primecoat, Sec. M-5.7, RT-2	444.4 S.Y.
S-3 Type C waterproofing	23 S.Y.
E-8 Sealing only	92 L.F.
E-1 Roadway Excavation	16 C.Y.



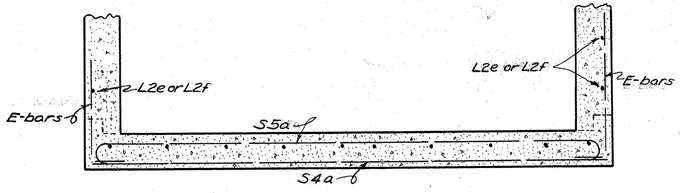
SECTION B-B

Scale: 3/8" = 1'-0"



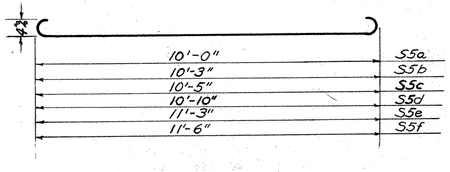
SECTION D-D

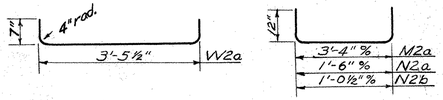
Scale: 3/4" = 1'-0"

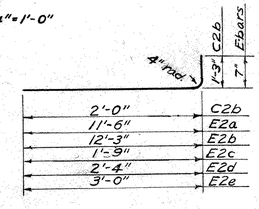


SECTION C-C

Scale: 3/4" = 1'-0"







REINFORCING STEEL						
Mark	Location	Shape	Size	No.	Length	Weight
C2a	Cut-off	St.	½"ϕ	6	11'-0"	45
C2b	Cut-off	Bt.	½"ϕ	24	3'-3"	50
E2a	Lt. Wing	Bt.	½"ϕ	4	11'-6"	30
E2b	Rt. Wing	Bt.	½"ϕ	4	12'-6"	35
E2c	Wings	Bt.	½"ϕ	24	2'-0"	35
E2d	Wings	Bt.	½"ϕ	14	2'-3"	20
E2e	Wings	Bt.	½"ϕ	10	3'-0"	20
L2a	Bbl. Lt.	Str.	½"ϕ	10	13'-3"	90
L2a1	Bbl. Lt.	Str.	½"ϕ	14	15'-6"	155
L2a2	Bbl. Lt.	Str.	½"ϕ	4	17'-9"	50
L2b	Bbl. Rt.	Str.	½"ϕ	4	20'-0"	55
L2b1	Bbl. Rt.	Str.	½"ϕ	14	17'-6"	175
L2b2	Bbl. Rt.	Str.	½"ϕ	10	14'-6"	95
L2c	Bbl.	Str.	½"ϕ	56	31'-9"	1185
L2d	Bbl.	Str.	½"ϕ	28	41'-3"	770
L2e	Lt. Wing	Str.	½"ϕ	14	13'-0"	120
L2f	Rt. Wing	Str.	½"ϕ	14	14'-0"	130
M2a	Ctr. Jts.	Bt.	½"ϕ	16	5'-4"	55
N2a	Ctr. Jts.	Bt.	½"ϕ	64	3'-6"	150
N2b	Ctr. Jts.	Bt.	½"ϕ	48	3'-0"	95
S4a	Pans	Str.	⅝"ϕ	7	9'-9"	70
S5a	Slabs	Bt.	¾"ϕ	592	11'-0"	9855
S5b	Top Slab	Bt.	¾"ϕ	8	11'-3"	135
S5c	Top Slab	Bt.	¾"ϕ	8	11'-6"	140
S5d	Top Slab	Bt.	¾"ϕ	8	11'-9"	140
S5e	Top Slab	Bt.	¾"ϕ	6	12'-3"	110
S5f	Top Slab	Bt.	¾"ϕ	2	12'-6"	40
S5g	Top Slab	Str.	¾"ϕ	8	10'-3"	125

11-11
12-8
2-2
7-9
3-5

REINFORCING STEEL						
Mark	Location	Shape	Size	No.	Length	Weight
S5h	Top Slab	Str.	¾"ϕ	8	10'-6"	125
S5j	Top Slab	Str.	¾"ϕ	8	10'-9	130
S5k	Top Slab	Str.	¾"ϕ	6	11'-3"	100
S5m	Top Slab	Str.	¾"ϕ	2	11'-6"	35
S5n	Bbl.	Str.	¾"ϕ	592	6'-0"	4890
W2a	Walls	Bt.	½"ϕ	274	4'-9"	870
RE2	Rpl.	Str.	½"ϕ	2	4'-0"	5
RE4	Rpl.	Str.	⅝"ϕ	2	4'-6"	10
RE5	Rpl.	Str.	¾"ϕ	2	5'-0"	15
TOTAL						20155

DRAINAGE STRUCTURE C-31
STA. 112+67 TR-422-66
Std. Drwg. No. SBC 45
DRAINAGE AREA : 390 ACRES
Sheet 2 of 2 Sheets

Designed M.E.P.	Drawn M.E.P.	Traced B.J.L.	Checked B.J.L.	Reviewed J.W.B.

DRAINAGE STRUCTURE C-31

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR	128 / 150
2	OHIO	F-41-(4)	1947	

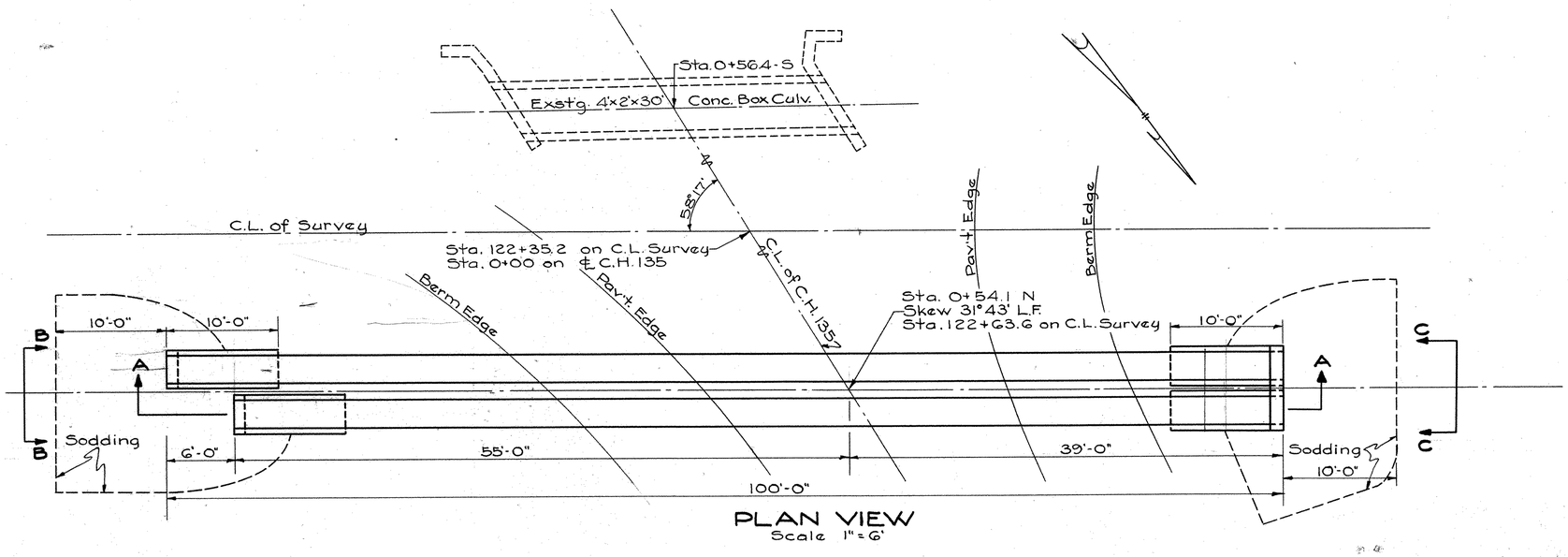
TRUMBULL COUNTY
S.H. 325 SEC. B(Pt.), C, D, (Pt.)

DRAINAGE STRUCTURE C-34 CULV. No. TR-422-64A

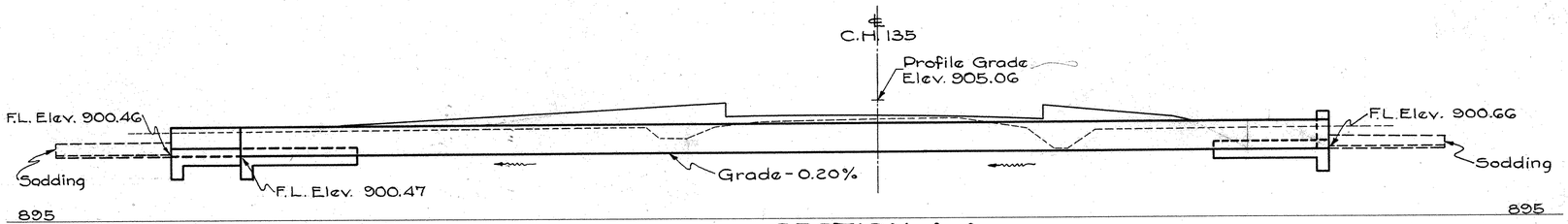
STATION 122+63.6 DRAINAGE AREA = 85 Ac.

SCALE AS INDICATED

SURVEYED BY _____ DRAWN BY W.W.M. CHECKED BY W.D.M.



PLAN VIEW
Scale 1"=6'



SECTION A-A
Scale 1"=6'

CULVERT DATA

TYPE: Standard pipe culvert with special cut-off wall on rt. end

SIZE: 2-30" dia. pipes 1@94' and 1@100' Skew 31°43' R.F.

STD. DRWGS: S-27-P.C. 1, 2, & 3.

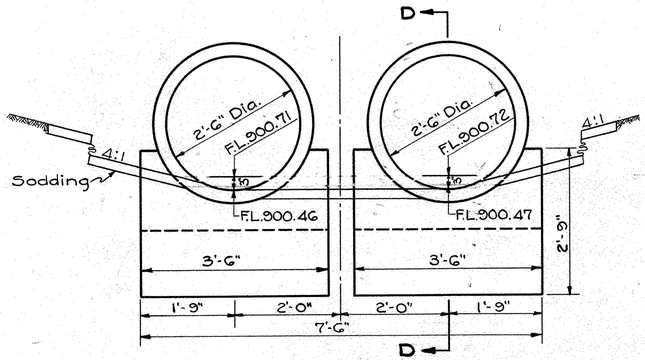
WORK REQ'D: Build standard pipe culvert as shown with standard cradles on both ends, standard cut-off walls on So. end. Build special cut-off wall on N end as shown. Submerge inlet and outlet of culvert 0.25' as indicated. Place sod 10' beyond ends of pipe on left and right at the direction of the Engineer. Remove existing 4'x2'x30' concrete box culvert and headwalls at Sta. 0+56.4 S.

ESTIMATED QUANTITIES

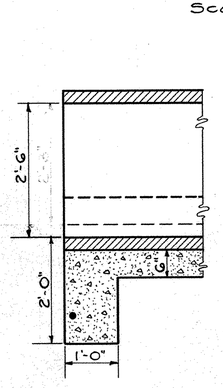
E-2	Excavation for Structures	84	C.Y.
S-1	Class "E" Concrete for Structures.	6.1	C.Y.
S-27	30" Pipe for Roadway Culverts	194	L.F.
S-24	Removal of existing Structure	(1)	Lump
L-10	Sodding	53	S.Y.
S-4	Reinforcing Steel	44	Lbs.

STEEL LIST

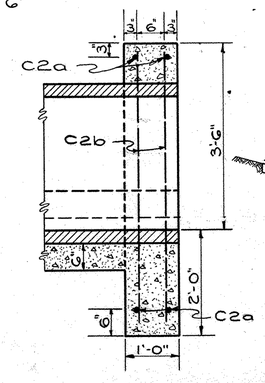
Mark	Location	Shape	Size	Number	Length	Weight
C2a	Head Wall	S	½" ϕ	4	7'-3"	19
C2b	Head Wall	S	½" ϕ	6	5'-0"	20
R2a	Replacement	S	½" ϕ	2	4'-0"	5
				Total		44



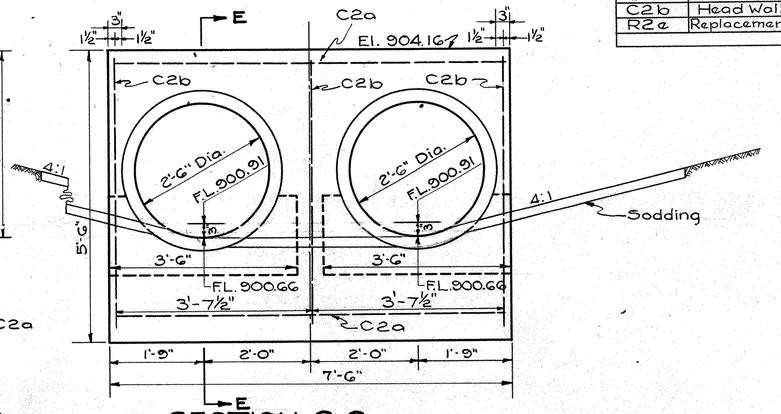
SECTION B-B
Scale - ¾"=1'



SECTION D-D
Scale - ¾"=1'



SECTION E-E
Scale - ¾"=1'



SECTION C-C
Scale - ¾"=1'

FED. RD. DIVISION	STATE	FED. AID.	FISCAL YEAR
2	OHIO	F-41 (4)	1947

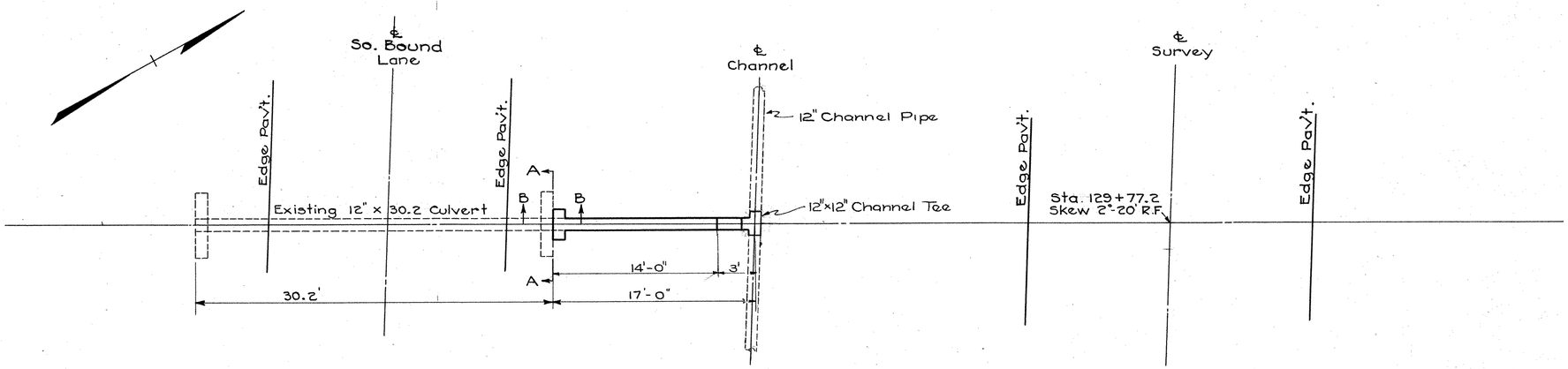
129
150

DRAINAGE STRUCTURE C-37 CULV'T. NO. TR-422-63

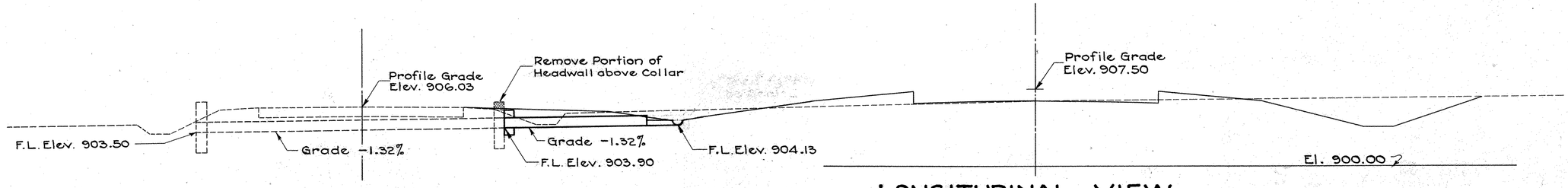
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

STATION 129 + 77.2 DRAINAGE AREA = 1 Ac.

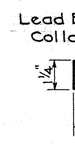
Surveyed by ____ Drawn by R.W. Checked by W.D.M.



PLAN VIEW
Scale 3/16" = 1'

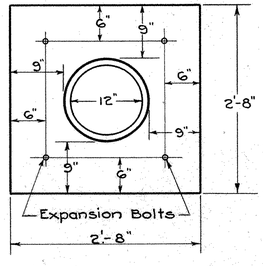


LONGITUDINAL VIEW
Scale 3/16" = 1'

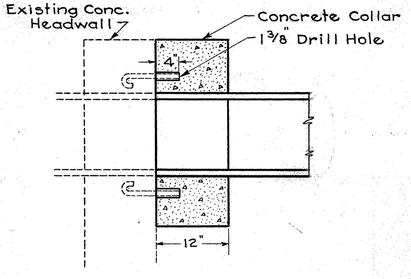


EXPANSION BOLT DETAIL
Scale-4" = 1'

Cost of Expansion Bolts to be included in price bid per cubic yard of concrete.



DETAIL A-A
Scale-1" = 1'



DETAIL B-B
Scale-1" = 1'

CULVERT DATA

TYPE Standard pipe culvert extension.

SIZE 12" x 17'-0" @ 2°-20' R.F. Skew

STD. DRWG'S. S-27 P.C. 3

WORK REQ'D. Extend existing 12" x 30.2' V.S.P. culvert as shown with a 12' standard pipe culv't., connecting to channel pipe with a 12" x 12" Channel Tee pipe. Use a concrete collar to connect the existing pipe to the extension. Remove portion of existing North Headwall above collar.

ESTIMATED QUANTITIES

E-2	Channel Excavation	2 Cu.Yds.
S-1	Class "E" Concrete for Structures	0.2 C.Y.
S-22	Removal of Portions of Existing Structures	0.1 C.Y.
S-27	12" Pipe for Roadway Culverts	14 Lin.Ft.

DETAIL OF CONCRETE COLLAR FOR CULVERT EXTENSION

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

130
150

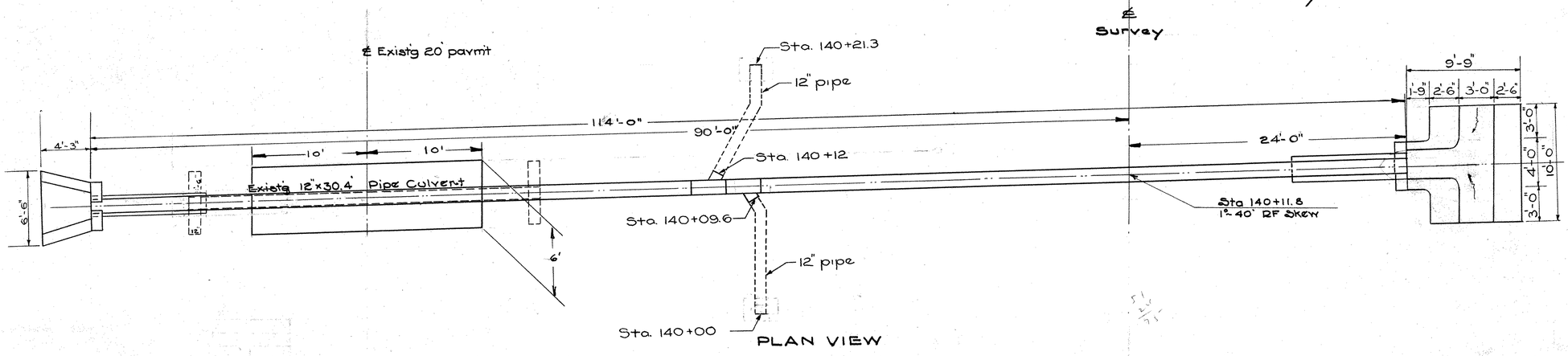
TRUMBULL COUNTY
SH 325 SEC B(PT)~C,D(PT.)

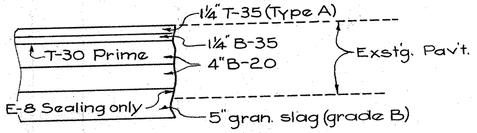
DRAINAGE STRUCTURE C-40
STATION 140+11.8

CULV. NO. TR-422-61A
DRAINAGE AREA 6 A.

Scale 1"=5'

SURVEYED BY. _____ DRAWN BY. R.W. CHECKED BY. W.D.M.





DETAIL OF
PAVEMENT REPLACEMENT
Scale ~ 1" = 1'

CULVERT DATA

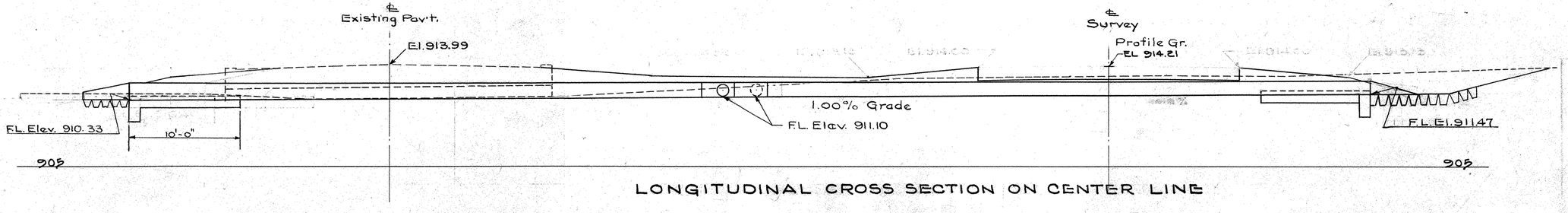
TYPE Std. pipe culvert with cradles, cutoff walls and rip rap on right

SIZE 15"x 114'-0" Skew 1°-40' R.F.

WORK REQ'D. Remove existing culvert. Build standard pipe culvert with cradles, cutoff walls and rip rap on right. Warp rip rap to conform to side ditches. Replace pavement as shown. Clean channel 16' left.

ESTIMATED QUANTITIES

E-2	Excavation for structures	22	C.Y.
E-3	Channel excavation (estimated)	2	C.Y.
S-27	15" pipe for roadway culvert	106	L.F.
I-5	15" pipe spec. 15"x 12" Wye	2	EA.
I-10	12" Type A Grout Filled Riprap.	13	S.Y.
S-1	Class E concrete for structures	1.4	C.Y.
S-24	Removal of existing structure	(1)	Lump
Spec.	3" gran. slag (grade B) base course	13.3	S.Y.
B-20	8" waterbound macadam base (2) courses	13.3	S.Y.
T-35	1¼" Asphaltic concrete surface course (Type A)	0.5	C.Y.
B-35	1¼" Asphaltic concrete leveling course	0.5	C.Y.
T-30	Bit. prime coat, Sec. M-5.7, RT-2	13.3	S.Y.
E-8	Sealing only	40.	L.F.
E-1	Roadway Excavation	3	C.Y.



LONGITUDINAL CROSS SECTION ON CENTER LINE

DRAINAGE STRUCTURE C-43 CULV'T. NO. TR-422-60

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

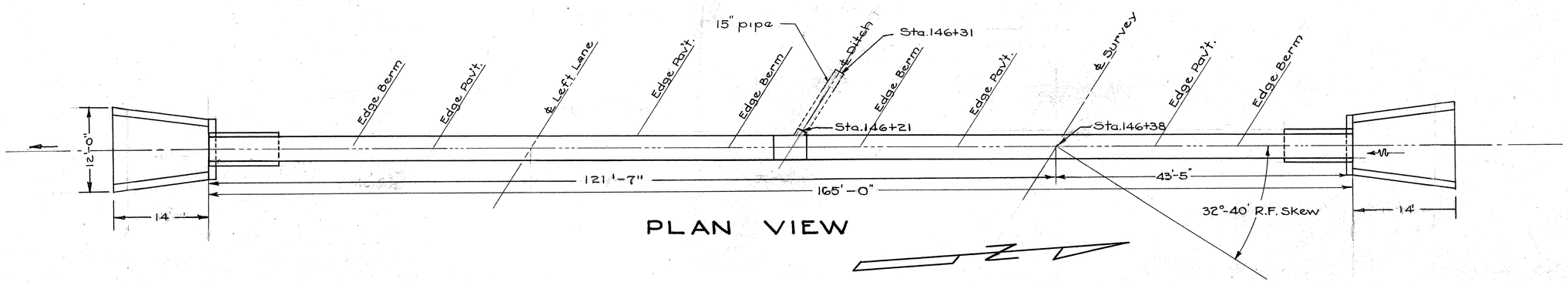
131
150

STATION 146+38 DRAINAGE AREA 95 Ac.

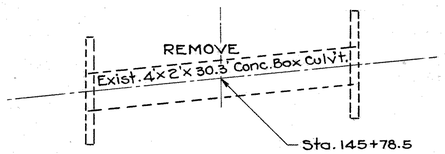
Scale 1" = 8'

Surveyed by _____ Checked by W. D. M. Drawn by R. W.

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C, D (PT.)



PLAN VIEW



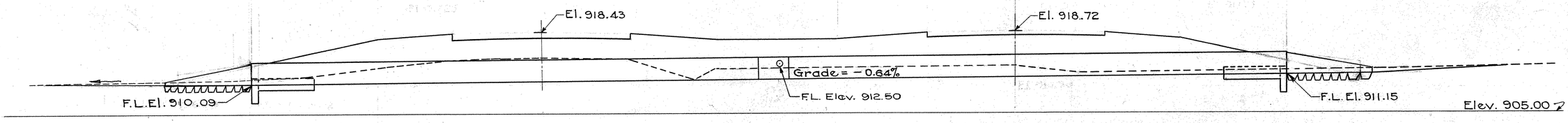
Note: Skew angle is turned from tangent at Sta. 146+38

CULVERT DATA

TYPE:- Standard pipe culv't. with standard cradles, cut-off walls and riprap (both ends).
SIZE:- 42" x 165'-0" @ 32°-40' R.F. Skew
STD. DRWGS. S-27 P.C. 2, 3
WORK REQ'D. Build standard pipe culvert with concrete cradles and cut-off walls as shown. Riprap pipe ends as shown. Remove existing 4' x 2' x 30.3 concrete box culvert at Sta. 145+78.5 Clean channel 28' left and 35' right.

ESTIMATED QUANTITIES

E-2	Excavation for structures	78 C.Y.
S-1	Class "E" Conc. for structures	4.2 C.Y.
S-24	Removal of existing structure	(1) Lump
S-27	42" pipe for roadway culvert	161 L.F.
I-10	12" grout filled type A rip rap	30 S.Y.
I-5	42" x 15" wye pipe special	1 each
E-3	Channel excavation (est)	3 C.Y.



LONGITUDINAL CROSS SECTION ON CENTER LINE

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

132
150

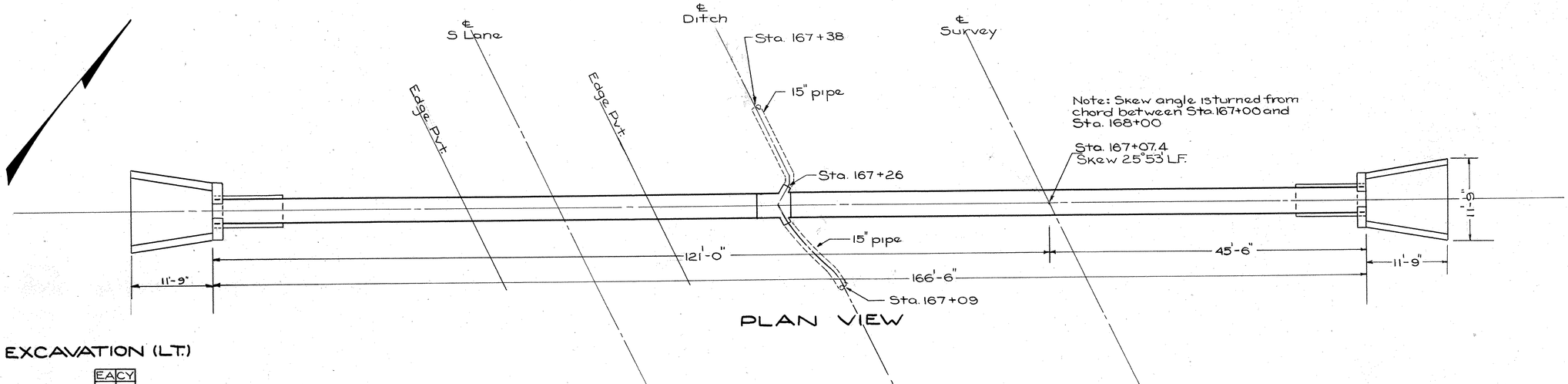
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.),C,D(PT)

DRAINAGE STRUCTURE C-46 CULV. NO. TR-422-54

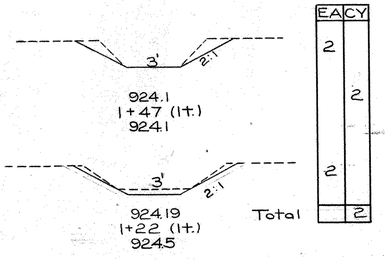
STATION 167+07.4 DRAINAGE AREA = 110 ACRES

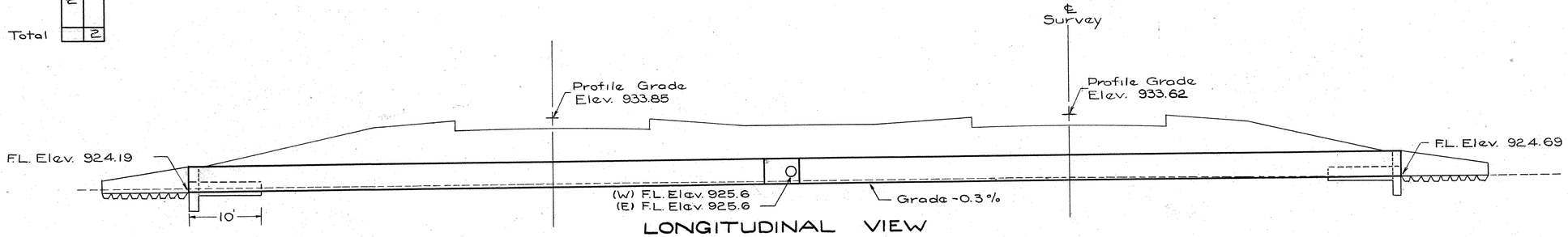
SCALE - 1/8" = 1'

SURVEYED BY_____ DRAWN BY W.W.M. CHECKED BY W.D.M.



CHANNEL EXCAVATION (LT.)





CULVERT DATA

TYPE Standard pipe culvert, with cradles, cutoffwalls & rip rap.
SIZE 42" x 166'-6" @ 25° 53' LF Skew
STD. DRWGS. S-27 P.C. 2 & 3
WORK REQ'D. Build 42" x 166'-6" pipe culvert as shown with cradles, cutoffwalls, and rip rap on both ends. Excavate channel left 25'.

ESTIMATED QUANTITIES

E-2	Excavation for structures	33	C.Y.
E-3	Channel excavation	2	C.Y.
I-5	42" x 15" Wye pipe special for roadway culverts	1	Each
I-10	12" grout filled Type "A" rip rap	30	S.Y.
S-1	Class "E" concrete for structures	4.2	C.Y.
S-27	42" pipe for roadway culverts.	162	L.F.

DRAINAGE STRUCTURE C-46

DRAINAGE STRUCTURE C-48 CULV. NO. TR-422-50A

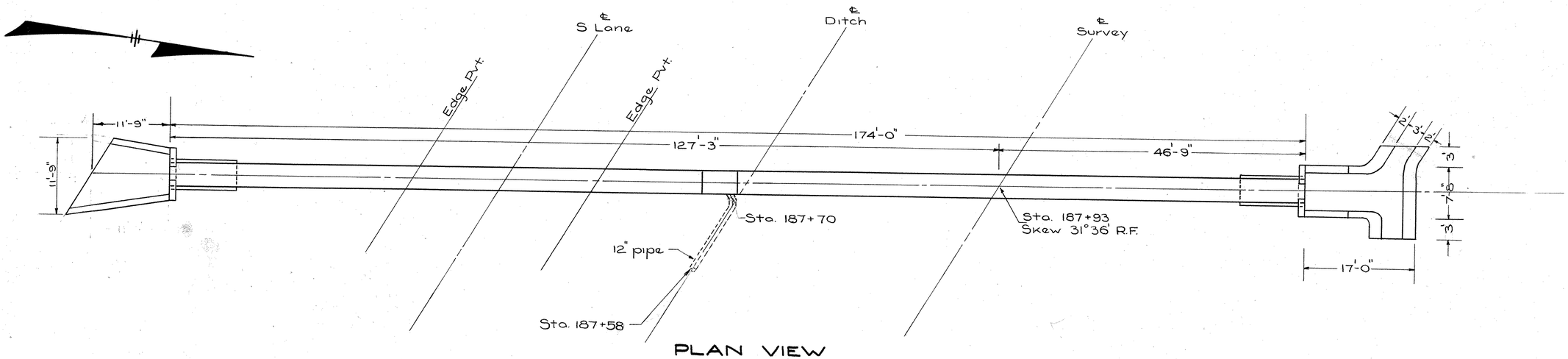
FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR	133 / 150
2	OHIO	F-41-(4)	1947	

STATION 187+93 DRAINAGE AREA = 125 ACRES

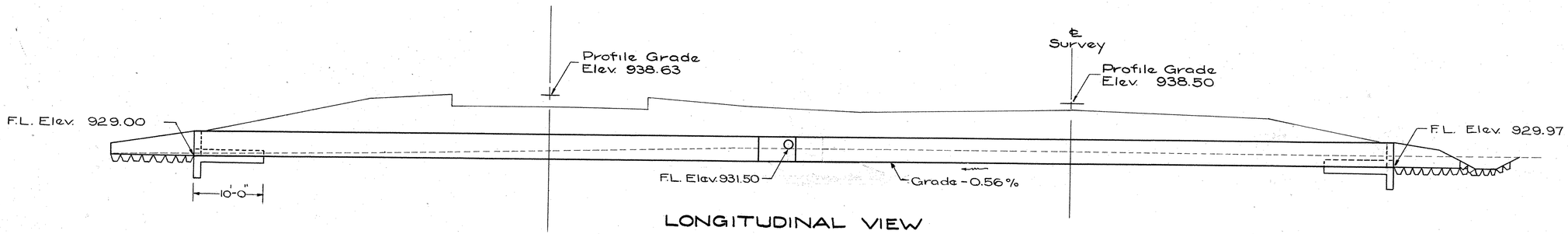
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)

SCALE 1/8" = 1'

SURVEYED BY ____ DRAWN BY W.W.M. CHECKED BY W.D.M.



PLAN VIEW



LONGITUDINAL VIEW

CULVERT DATA

TYPE Standard pipe culvert with cradles, cutoff walls and rip rap.
SIZE 42" × 174'-0" @ 31°36' RF Skew
STD. DRWGS. S-27 P.C. 2 & 3
WORK REQ'D. Build 42" × 174' pipe culvert as shown with cradles, cutoff walls, and rip rap on both ends. Warp rip rap on N end to conform to side ditches.

ESTIMATED QUANTITIES

E-2	Excavation for structures	60 C.Y.
I-5	42" × 12" Wye pipe special for roadway culverts	1 Each
I-10	12" Type 'A' grouted rip rap	35 S.Y.
S-1	Class "E" concrete for structures	4.2 C.Y.
S-27	42" pipe for roadway culverts	169 L.F.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

134
150

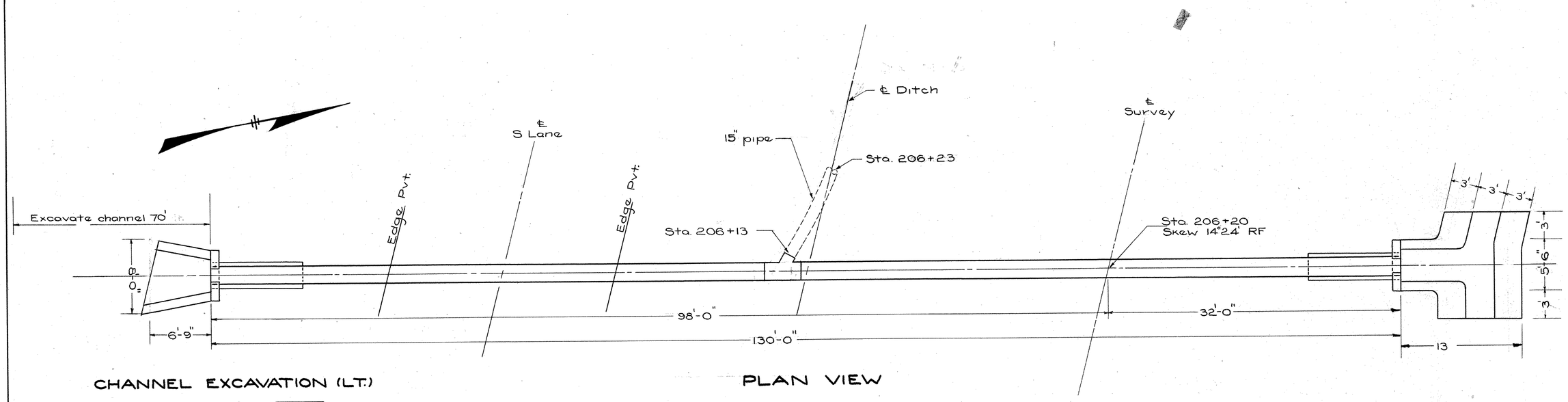
DRAINAGE STRUCTURE C-51 CULV. NO. TR-422-47

STATION 206+20 DRAINAGE AREA=20 A.

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)

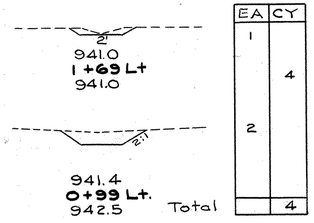
SCALE 3/16" = 1'

SURVEYED BY F.P.I. DRAWN BY W.W.M. CHECKED BY W.D.M.



PLAN VIEW

CHANNEL EXCAVATION (LT.)



EA	CY
1	
	4
2	
Total	4

LONGITUDINAL VIEW

CULVERT DATA

TYPE Std. pipe culvert with cradles, cutoff walls and rip rap.

SIZE 24" x 130'-0" @ 14°24' RF Skew

STD. DRWGS. S-27 P.C. 2 & 3

WORK REQD. Build 24"x130' pipe culvert as shown with cradles, cut off walls and rip rap on both ends. Warp rip rap on N end to conform to side ditches. Excavate channel left 70' as shown.

ESTIMATED QUANTITIES

E-2	Excavation for structures	53	C.Y.
E-3	Channel excavation	4	C.Y.
I-5	24"x15" Wye pipe special for roadway culverts	1	Each
I-10	12" grout filled Type 'A' rip rap	20	S.Y.
S-1	Class "E" concrete for structures	2.1	C.Y.
S-27	24" pipe for roadway culverts	126	L.F.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

135
150

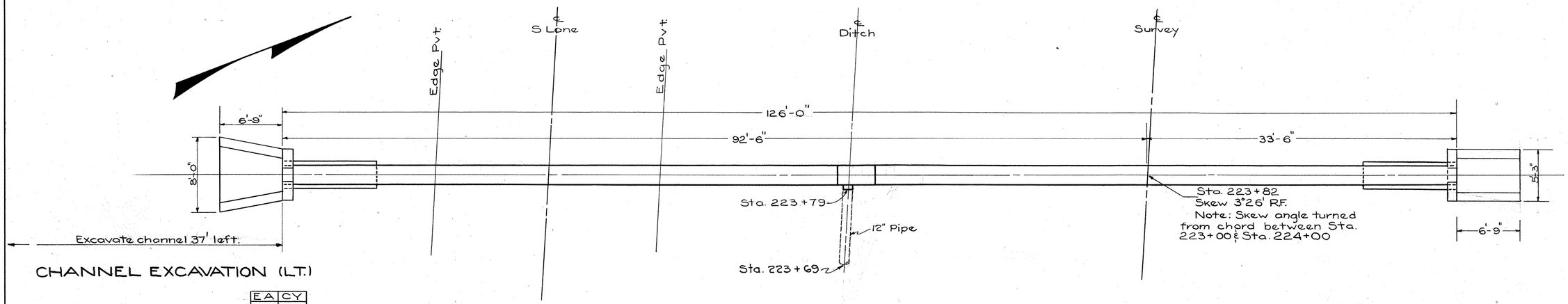
DRAINAGE STRUCTURE C-52 CUL. NO. TR-422-44

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)

STATION 223+82 DRAINAGE AREA = 18 A

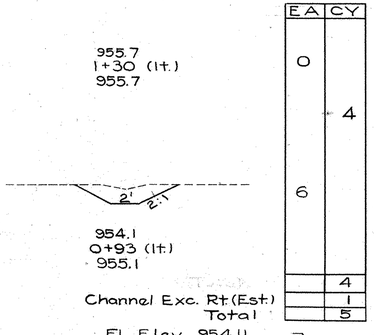
SCALE – 3/16" = 1'

Surveyed by F.P.I. Drawn by W.W.M. Checked by W.D.M.

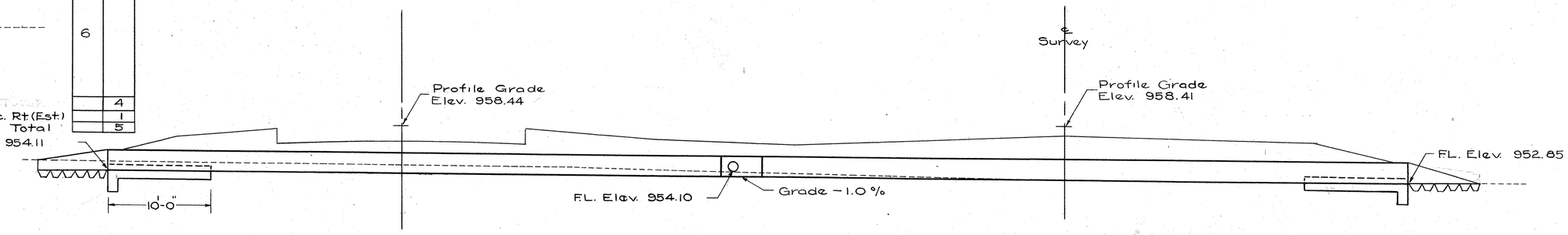


PLAN VIEW

CHANNEL EXCAVATION (LT.)



EA	CY
0	
	4
6	
	4
	1
	5



LONGITUDINAL VIEW

CULVERT DATA

TYPE Std. pipe culvert with cradles, cut-off walls & rip rap.
SIZE 24" × 126'-0" @ 3°26' RF Skew
STD. DRWGS. S-27 R.C. 2 & 3
WORK REQ'D. Build standard pipe culvert as shown with cradle, cut off walls, and rip rap on both ends. Excavate channel lt. 37.' Clean channel 10' rt.

ESTIMATED QUANTITIES

E-2	Excavation for structures	15	C.Y.
E-3	Channel excavation	5	C.Y.
I-5	24"×12" Tee pipe special for roadway culverts	1	Each
I-10	12" grout filled Type "A" rip rap	10	S.Y.
S-1	Class "E" concrete for structures	2.1	C.Y.
S-27	24" pipe for roadway culverts.	122	L.F.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

136
150

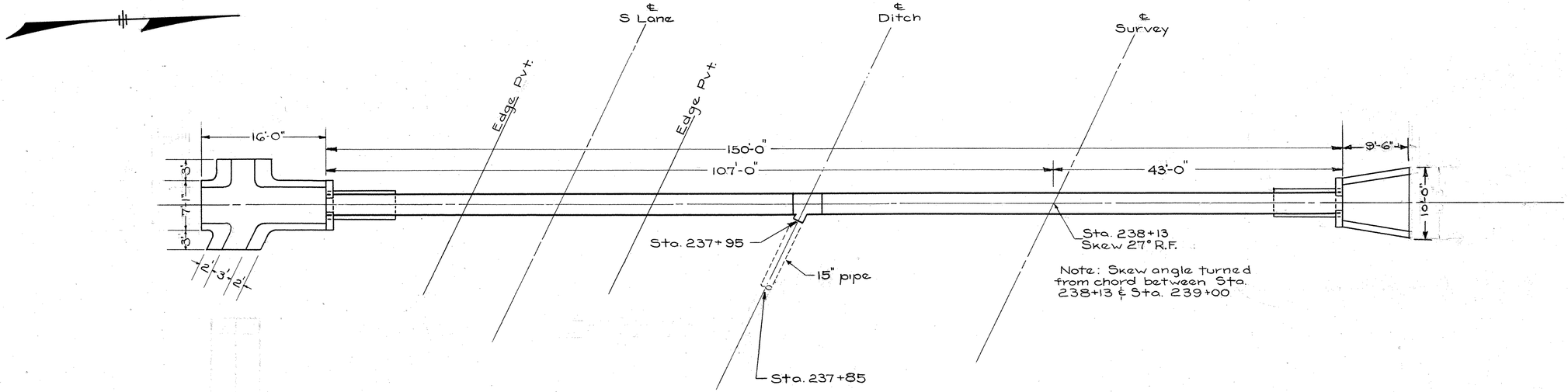
DRAINAGE STRUCTURE C-53 CULV. NO. TR-422-41

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

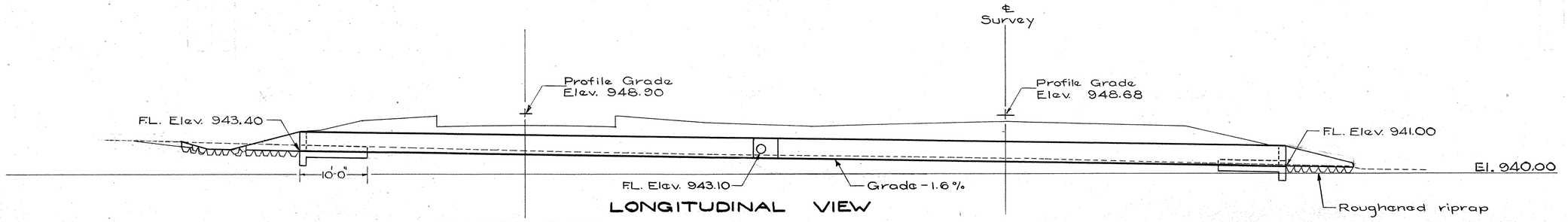
STATION 238+13 DRAINAGE AREA 25 Ac.

SCALE 1/8"=1'-0

SURVEYED BY F.P.I. DRAWN BY W.W.M. CHECKED BY W.D.M.



PLAN VIEW



LONGITUDINAL VIEW

CULVERT DATA

TYPE: Standard Pipe Culvert with cradles cut-off walls and rip rap on both ends.

SIZE: 30" x 150'-0" @ 27°-00' R.F. Skew

STD. DRWGS.: S-27 P.C. 2 & 3

WORK REQ'D.: Build 30" x 150' pipe culvert as shown with cradles, cut off walls, and rip rap on both ends. Warp rip rap on S end to conform to side ditches and channel. Provide roughened riprap on right end.

ESTIMATED QUANTITIES

E-2	Excavation for structures	23	C.Y.
I-10	12" grout filled Type "A" riprap (roughened)	7	S.Y.
I-5	30" x 15" Wye pipe special for roadway culverts	1	Each
I-10	12" grout filled Type "A" rip rap	22	S.Y.
S-1	Class "E" concrete for structures	2.7	C.Y.
S-27	30" pipe for roadway culverts	146	L.F.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

137
150

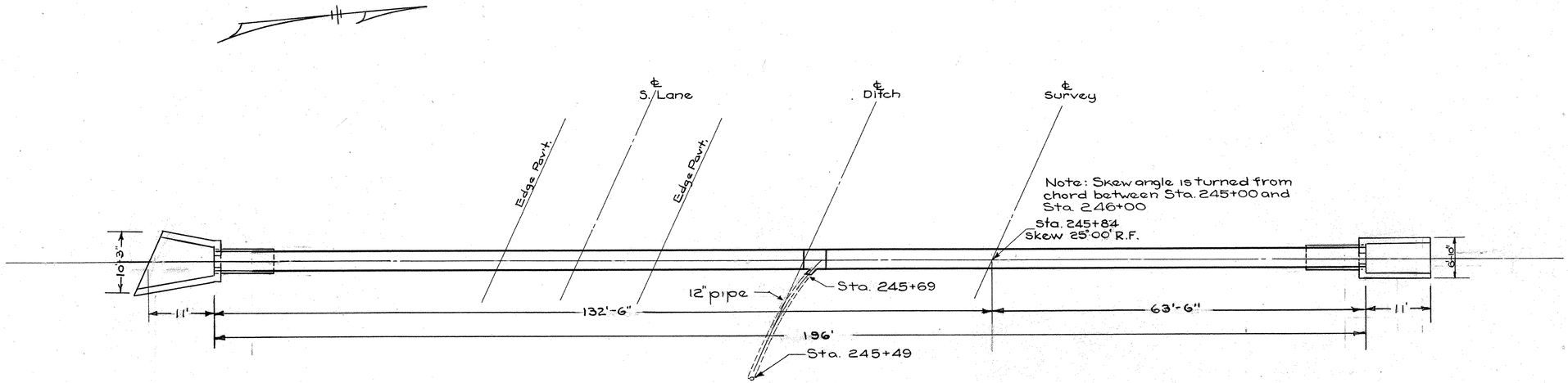
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)

DRAINAGE STRUCTURE C-54 CULVERT NO. TR-422-39

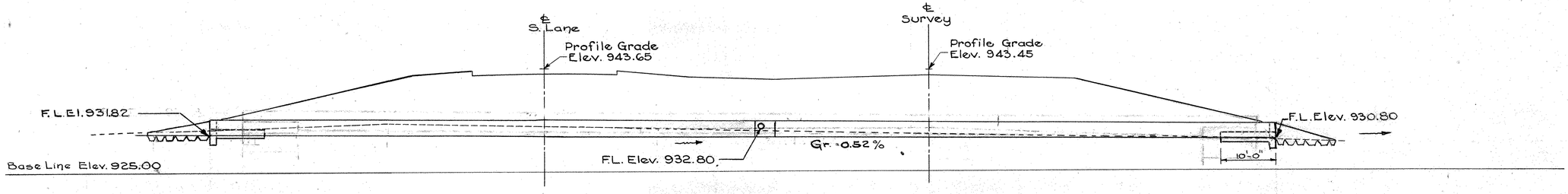
STATION 245+84 DRAINAGE AREA 70 ACRES

Scale 1" = 10'

SURVEYED BY: F.P.I. DRAWN BY: T.R.P. CHECKED BY: W.D.M.



PLAN VIEW



LONGITUDINAL SECTION ON C.L.

CULVERT DATA

TYPE	Standard pipe culvert with cradles, cutoff walls, and rip rap.
SIZE	36" x 196' Skew 25°-00" R.F.
STD. DRWGS.	S-27 P.C. 2, and 3.
WORK REQ'D.	Build 36" x 196' pipe culvert with cradles, cutoff walls and rip rap as shown. Clean channel 10' rt and 10' left.

ESTIMATED QUANTITIES

E-2	Excavation for structures	58	C.Y.
S-1	Class E concrete for structures	3.3	C.Y.
S-27	36" pipe for roadway culvert.	192	L.F.
I-5	36" x 12" Wye special for roadway culvert.	1	EA.
I-10	12" grout filled type A rip rap	21	S.Y.
E-3	Channel excavation (estimated)	2	C.Y.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

138
150

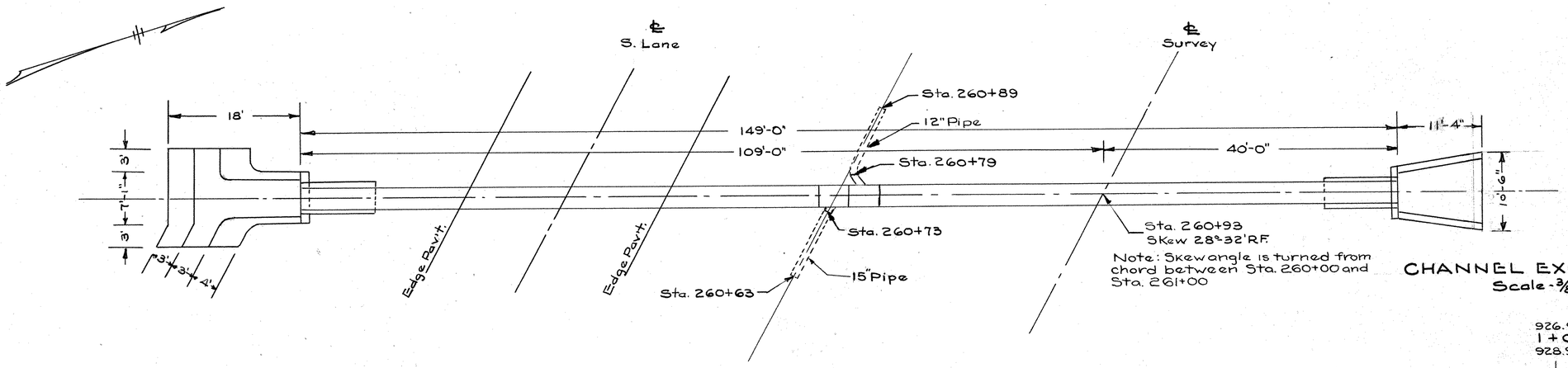
TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C, D (PT.)

DRAINAGE STRUCTURE C-55 CULV. NO TR-422-36

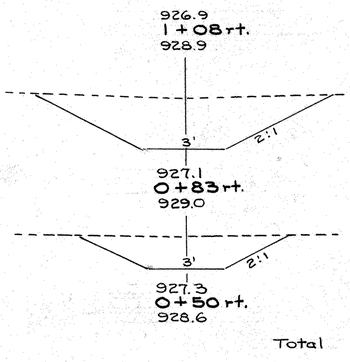
STATION 260+93 DRAINAGE AREA 90 A

SCALE 1/8" = 1'

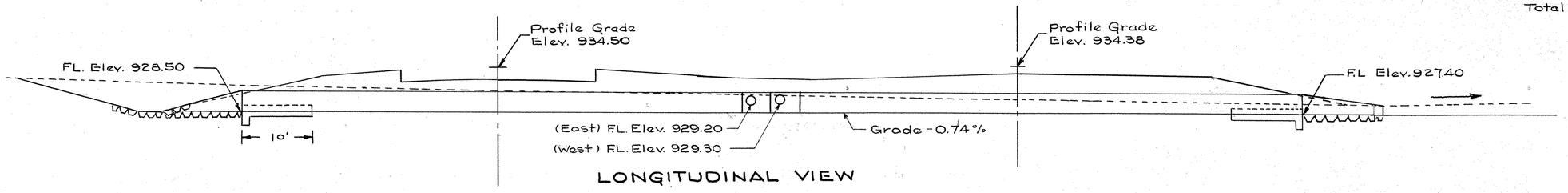
SURVEYED BY F.P.I. DRAWN BY W.W.M. CHECKED BY W.D.M.



CHANNEL EXCAVATION (RT.)
Scale - 3/8" = 1'



EA.	C.Y.
0	6
13	12
7	
Total	18



LONGITUDINAL VIEW

CULVERT DATA

TYPE	Standard pipe culvert with cradles, cutoff walls and rip rap
SIZE	36" x 149' Skew 28° 32' RF.
STD. DRWGS.	S-27 P.C. 2, and 3.
WORK REQ'D.	Build 36" x 149' pipe culvert with cradles cutoff walls and rip rap. Warp rip rap on south end to conform to side ditch. Excavate channel 68' right.

ESTIMATED QUANTITIES

E-2	Excavation for structure	90	C.Y.
E-3	Channel excavation	18	C.Y.
S-1	Class E concrete for structures	3.3	C.Y.
S-27	36" pipe for roadway culverts	141	L.F.
H-5	36" x 12" Wye special for roadway culvert	2	EA.
H-10	12" grout filled type 'A' rip rap	33	S.Y.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41 (4)	1947

139
150

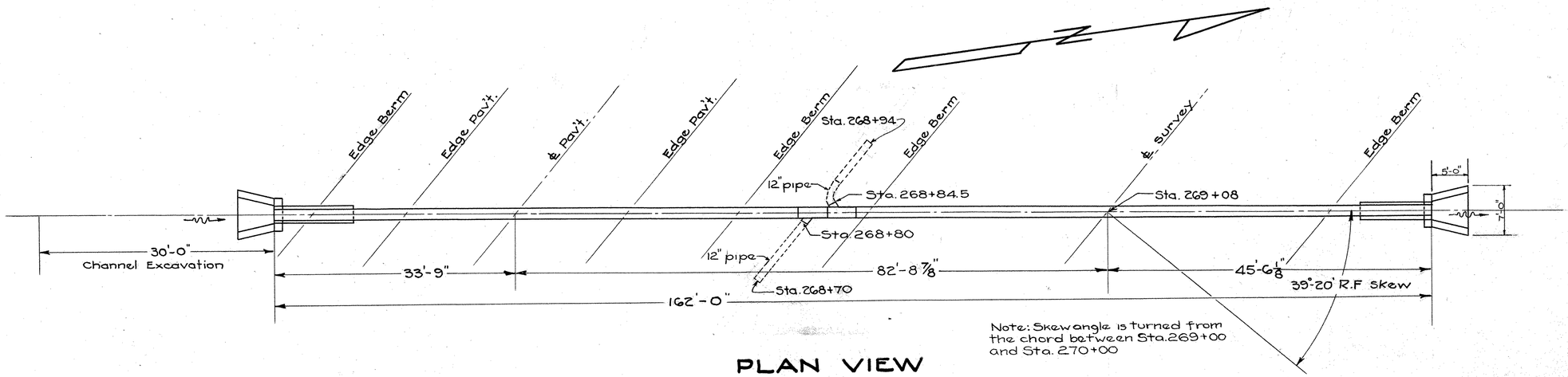
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)

DRAINAGE STRUCTURE C-56 CULV'T. NO. TR-422-35

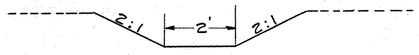
STATION 269+08 DRAINAGE AREA 9-A

Scale 1"=8'-0"

Surveyed by F.P.I. Drawn by R.W. Checked by W.D.M.



PLAN VIEW



TYPICAL CROSS SECTION OF CHANNEL TO LEFT

ESTIMATED QUANTITIES

E-2	Excavation for structures	11 C.Y.
E-3	Channel Excavation (estimated)	2 C.Y.
I-5	18" x 12" Wye special for Roadway culverts	2 each
I-10	12" Grout filled type A riprap	6 S.Y.
S-1	Class E concrete for structures	1.8 C.Y.
S-27	18" Pipe for roadway culverts	154 L.F.

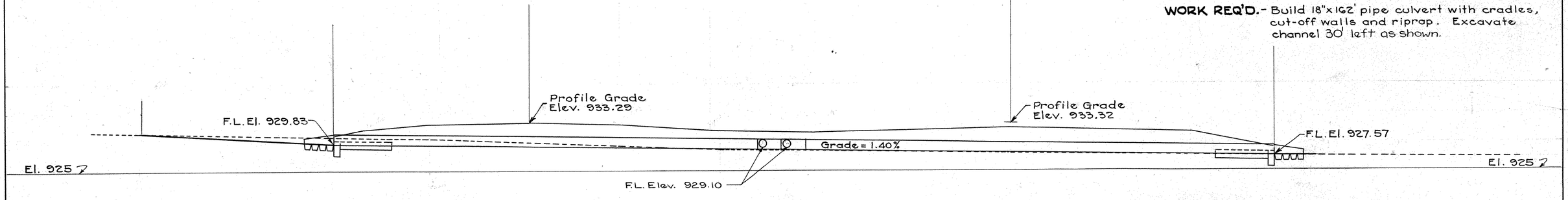
CULVERT DATA

TYPE – Standard pipe culvert with cradles, cut-off walls and riprap (both ends)

SIZE – 18" x 162'-0" @ 39°-20' R.F. skew

STD. DRWG'S. – S-27 P.C. 2, 3

WORK REQ'D. – Build 18"x162' pipe culvert with cradles, cut-off walls and riprap. Excavate channel 30' left as shown.



LONGITUDINAL CROSS SECTION ON CENTER LINE

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

140
150

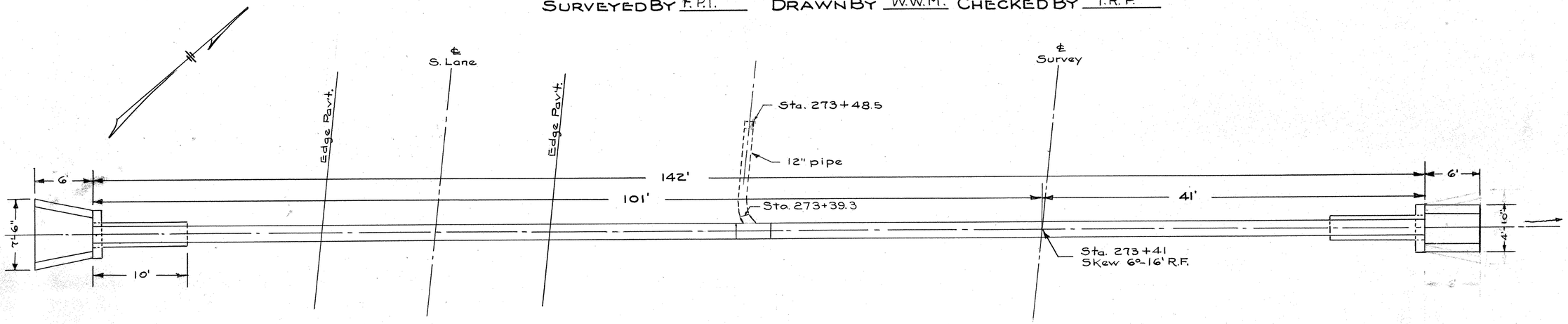
TRUMBULL COUNTY
S.H.325 SEC. B(PT.) C, D(PT.)

DRAINAGE STRUCTURE C-57 CULV. NO. TR-422-34

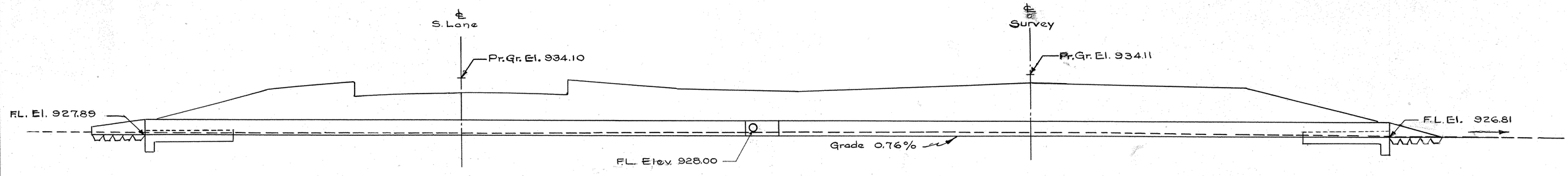
STATION 273+41 DRAINAGE AREA 8 A.

SCALE 3/16" = 1'

SURVEYED BY F.P.I. DRAWN BY W.W.M. CHECKED BY T.R.P.



PLAN VIEW



LONGITUDINAL SECTION ON C.L.

CULVERT DATA

TYPE	Standard pipe culvert with cradles, cutoff walls and rip rap
SIZE	21"x142' Skew 6°-16' R.F.
STD. DRWGS.	S-27 P.C. 2, and 3
WORK REQ'D.	Build 21"x142' standard pipe culvert with cradles, cutoff walls and rip rap.

ESTIMATED QUANTITIES

E-2	Excavation for structure	12	C.Y.
S-1	Class E concrete for structure	2	C.Y.
S-27	21" pipe for roadway culvert	138	L.F.
I-5	21"x12" Wye pipe special for roadway culvert	1	EA.
I-10	12" grout filled type A rip rap.	8	S.Y.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

141
150

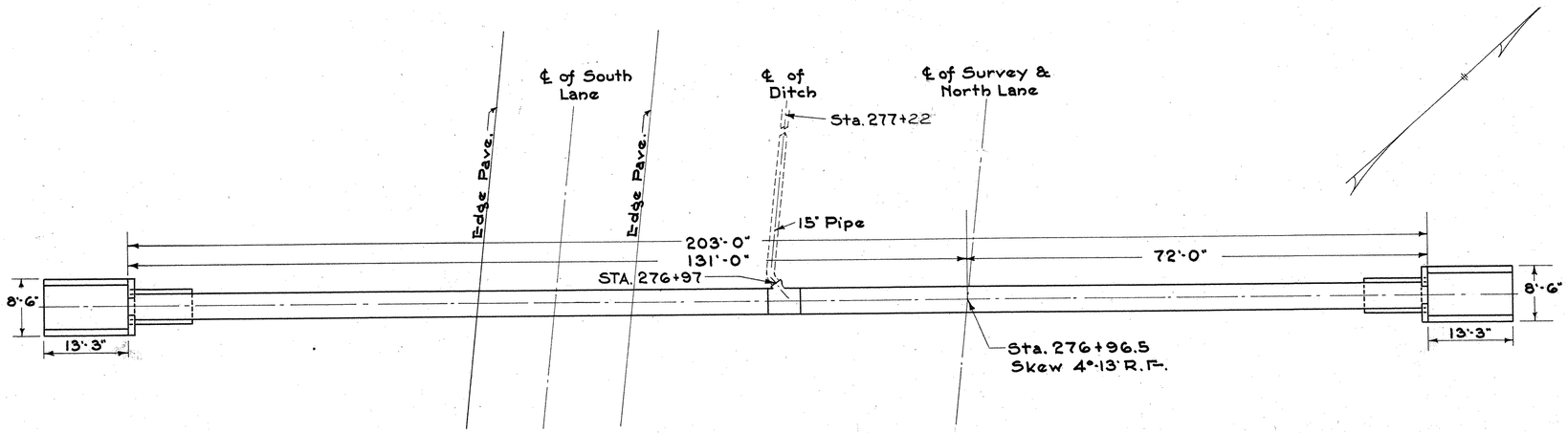
TRUMBULL COUNTY
S.H. 325 Sec. B(PT.) C. D(PT.)

DRAINAGE STRUCTURE C-58 CULV. NO. TR-422-33A

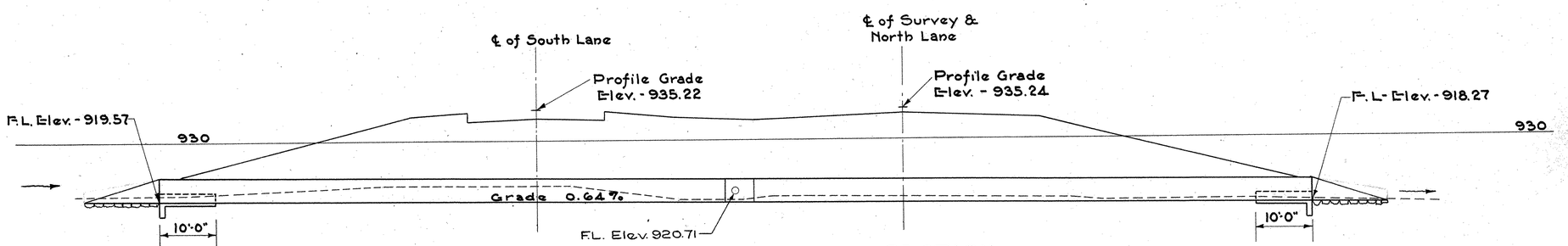
STATION 276+96.5 DRAINAGE AREA = 120 Ac.

SCALE 3/32" = 1'-0"

SURVEYED BY F.P.I. DRAWN BY W.W.M. CHECKED BY W.D.M.



PLAN VIEW



LONGITUDINAL SECTION

CULVERT DATA

TYPE — Standard pipe culvert with cut-off walls, cradles and riprap on both ends.
SIZE — 48" × 203'-0" @ 4°-13' R.F. Skew.
STANDARD DRAWING — S-27 P.C. 2 & 3
WORK REQUIRED — Build new Std. pipe culvert with cut-off walls, cradles and riprap on both ends.

ESTIMATED QUANTITIES

E-2 – Excavation for Structures	—	98 C.Y.
I-5 – 48" × 15" Wye Pipe Special for Roadway Culverts	—	1 Ea.
I-10 – 12" Grout Filled Type "A" Riprap	—	30 S.Y.
S-1 – Class "E" Concrete for Structures	—	5.0 C.Y.
S-27 – 48" Pipe for Roadway Culverts	—	199 L.F.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

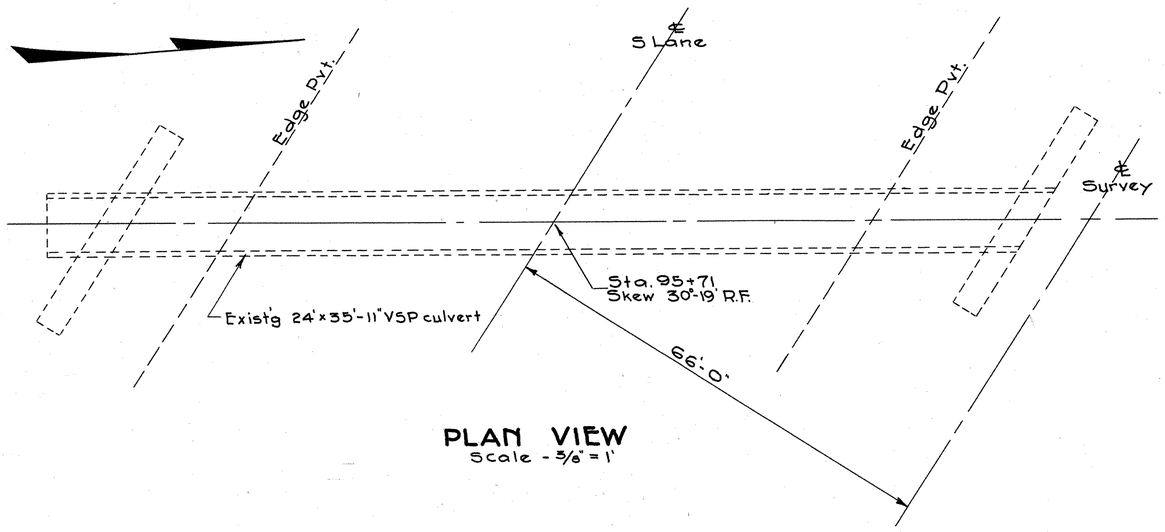
142
150

DRAINAGE STRUCTURE C-27 CULV. NO TR-422-69

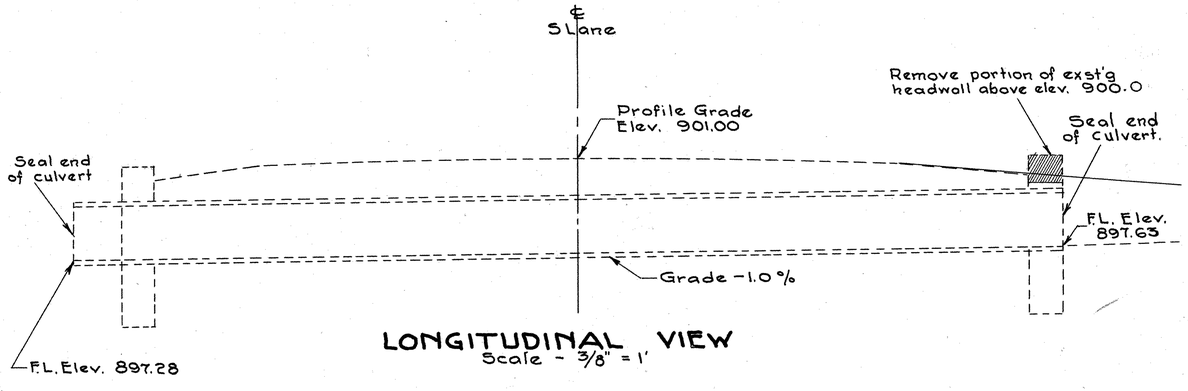
STATION 95+71 DRAINAGE AREA = 70 A.

Scale - 3/8" = 1'

SURVEYED BY F.P.I. DRAWN BY W.W.M. CHECKED BY W.D.M.



PLAN VIEW
Scale - 3/8" = 1'



LONGITUDINAL VIEW
Scale - 3/8" = 1'

CULVERT DATA

TYPE Exst'g structure - V.S.P. culvert with concrete headwalls on both ends.

SIZE 24'x35'-11" @ 30°-19' RF. Skew.

STD. DRWGS. None.

WORK REQD. Seal both ends of existing culvert in accordance with item I-204 of construction and material specifications; the cost is to be included in the price bid per cubic yard for item S-22

ESTIMATED QUANTITIES

S-22	Removal of portions of existing structures	0.3 C.Y.

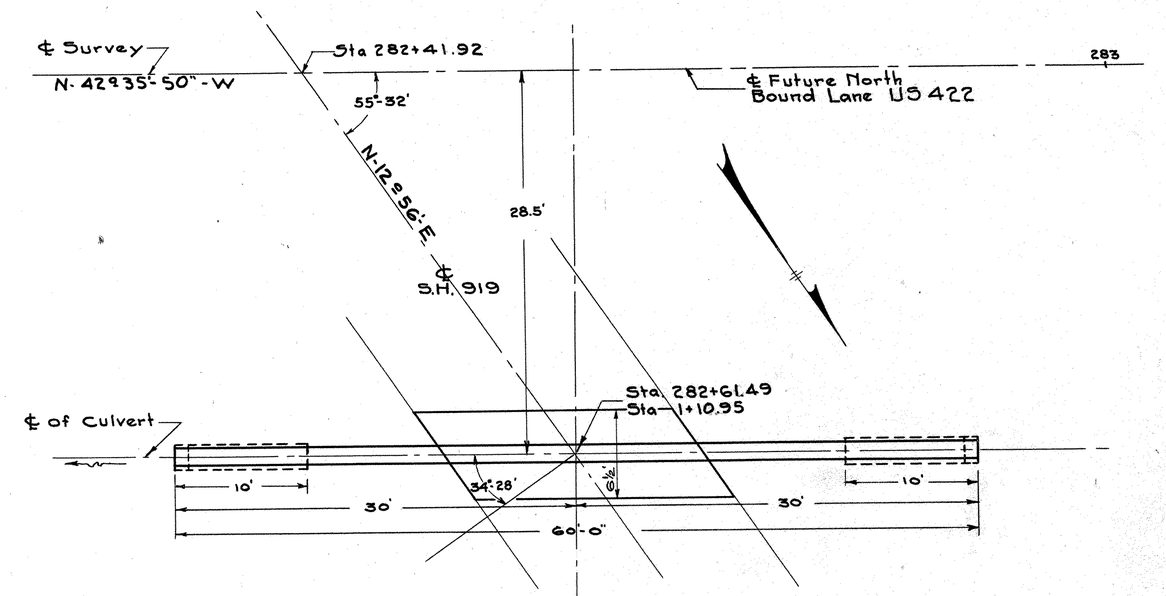
DRAINAGE STRUCTURE C-60 CULVERT NO TR-422-32

TRUMBULL COUNTY
S.H. 325 SEC. B(PT), C, D (PT.)

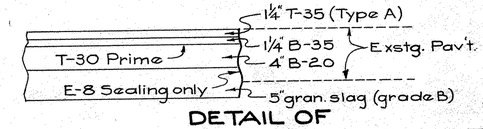
RT. OF STA. 282+61.49 DRAINAGE AREA = 1 Ac.

Scale - 3/16" = 1'

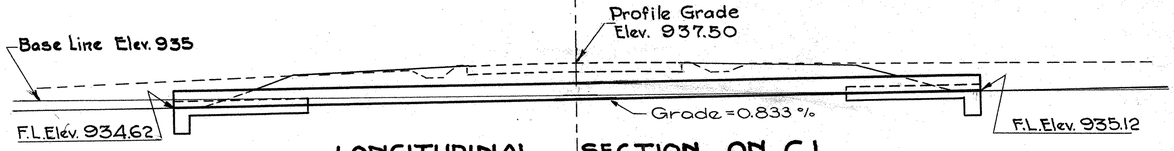
SURVEYED BY ___ DRAWN BY TRP CHECKED BY WDM



PLAN VIEW
Scale - 3/16" = 1'



DETAIL OF PAVEMENT REPLACEMENT
Scale - 1" = 1'



LONGITUDINAL SECTION ON C.L
Scale - 3/16" = 1'

CULVERT DATA

TYPE Std. pipe culvert with cradles and cut off walls

SIZE 15" x 60' Skew 34°-28'

WORK REQ'D. Build standard 15" pipe culvert 30 ft. rt. and lt. with cradles and cut off walls. Replace 14 sq. yds. of water bound macadam pavement.

ESTIMATED QUANTITIES

E-2	Excavation for structure	19 C.Y.
S-1	Class E concrete for structures.	1.4 C.Y.
S-27	15" pipe for roadway culvert	60 L.F.
T-30	Bit. prime coat Sec. M.5.7 Rt. 2.	14 S.Y.
T-35	1¼" Asp. concrete surface course (Type A)	0.5 C.Y.
B-20	4" waterbound macadam base course	14 S.Y.
Spec.	5" gran. slag (grade B) base course	14 S.Y.
E-8	Sealing only	39 L.F.
B-35	1¼" asphaltic concrete leveling course	0.5 C.Y.
E-1	Roadway Excavation	2 C.Y.

DRAINAGE STRUCTURE C-27

DRAINAGE STRUCTURE C-60

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

143
150

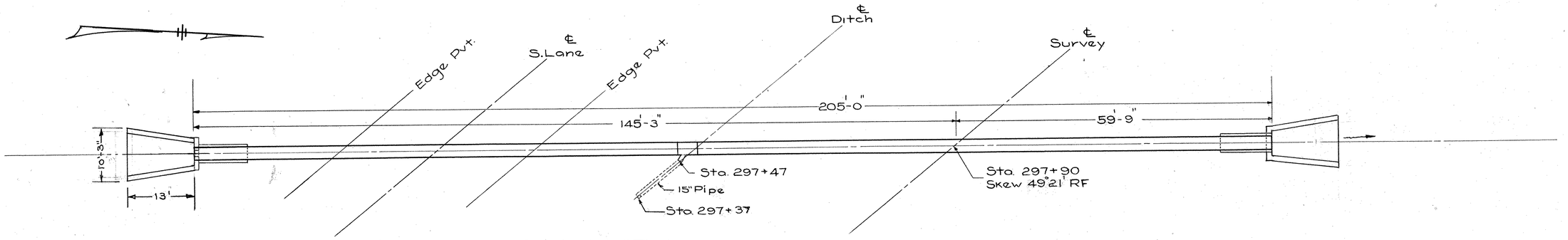
DRAINAGE STRUCTURE C-61 CULV. NO. TR-422-29

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.),C,D(PT.)

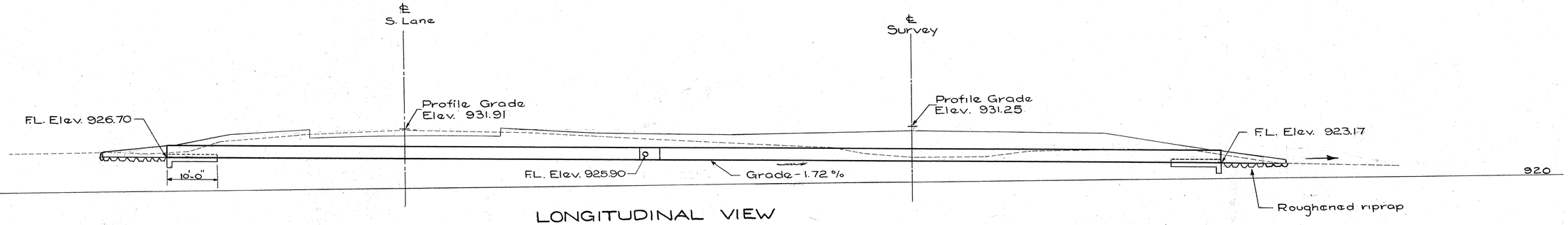
STATION 297+90 DRAINAGE AREA=35 ACRES

SCALE — 1"=10'

SURVEYED BY F.P.I. DRAWN BY W.W.M. CHECKED BY W.D.M.



PLAN VIEW



LONGITUDINAL VIEW

CULVERT DATA

TYPE Standard pipe culvert with cradles, cutoff walls and rip rap

SIZE 30"x205'-0" @ 49°21' RF Skew

STD. DRWGS. S-27 PC. 2 & 3

WORK REQ'D. Build 30"x205' pipe culvert as shown with cradles, cut-off walls, and rip rap on both ends. Clean channel left and right. Provide roughened riprap on right end.

ESTIMATED QUANTITIES

E-2	Excavation for structures	145	C.Y.
E-3	Channel excavation (estimated)	4	C.Y.
I-5	30"x15" Wye pipe special for roadway culverts.	1	EA.
I-10	12" grout filled type "A" rip rap	8	S.Y.
S-1	Class "E" concrete for structures.	2.7	C.Y.
S-27	30" pipe for roadway culverts.	201	L.F.
I-10	12" grout filled type "A" rip rap (roughened)	8	S.Y.

DRAINAGE STRUCTURE C-61

FED. RD. DIVISION	STATE	FED. AID PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

144
150

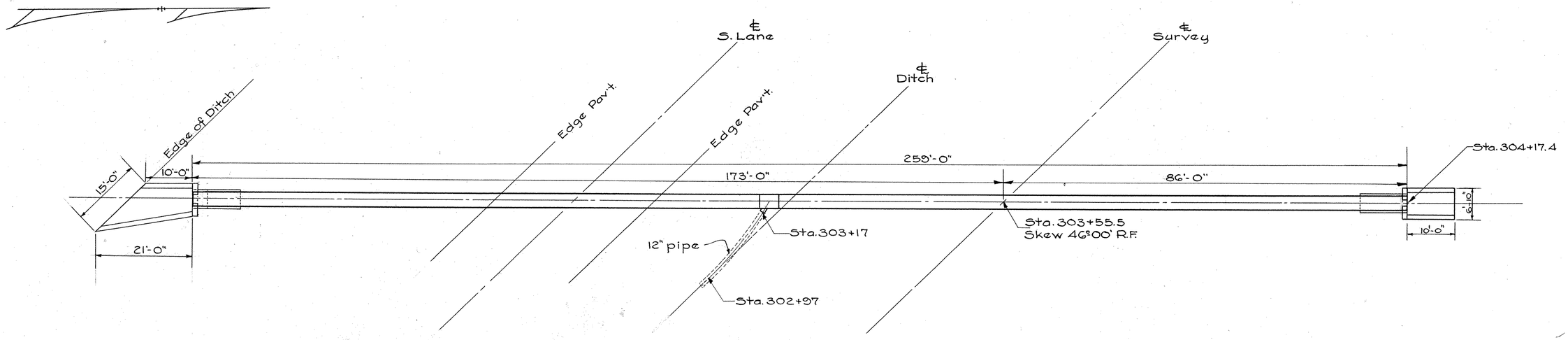
TRUMBULL COUNTY
S.H.325 SEC. B(Pt.)C, D(Pt.)

DRAINAGE STRUCTURE C-62 CULV. NO. TR-422-28

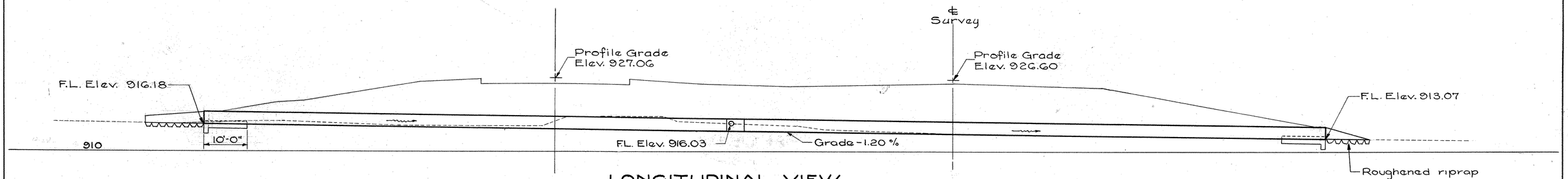
STATION 303+55.5 DRAINAGE AREA = 70 Ac.

SCALE 3/32"=1'-0"

SURVEYED BY F.P.I. DRAWN BY W.W.M. CHECKED BY W.D.M.



PLAN VIEW



LONGITUDINAL VIEW

CULVERT DATA

TYPE : Standard Pipe Culvert with cradles, cut-off walls and riprap on both ends.

SIZE : 36" x 259'-0" @ 46°-00' R.F. Skew

STD. DRWGS: S-27 P.C. 2&3

WORK REQ'D: Build 36"x259' Pipe Culvert as shown with cradles, cut-off walls and rip-rap on both ends. Provide roughened riprap on right end.

ESTIMATED QUANTITIES

E-2	Excavation for Structures	63	C.Y.
I-5	36"x12" Wye Pipe Special for Roadway Culverts	1	Ea.
I-10	12" Grout Filled Type "A" Rip Rap	15	S.Y.
S-1	Class "E" Concrete for Structures	3.3	C.Y.
S-27	36" Pipe for Roadway Culverts	255	L.F.
I-10	12" Grout Filled Type "A" RipRap (roughened)	9	S.Y.

DRAINAGE STRUCTURE C-62

FED. RD. DIVISION	STATE	FED. AID PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

145
150

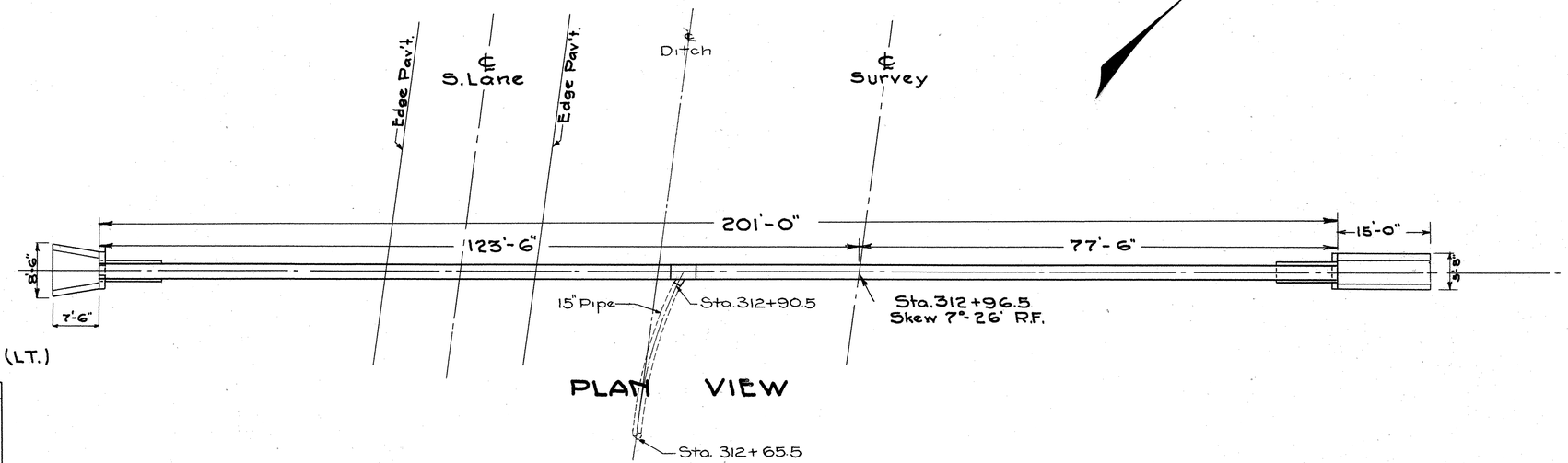
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)

DRAINAGE STRUCTURE C-63 CULV. NO. TR-422-27

STATION 312+96.5 DRAINAGE AREA = 30 Ac.

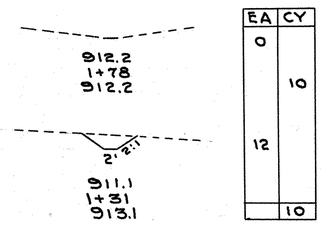
SCALE 3/32" = 1'-0"

SURVEYED BY F.R.I. DRAWN BY W.W.M. CHECKED BY W.D.M.



PLAN VIEW

CHANNEL EXCAVATION (LT.)



EA	CY
0	
	10
12	
	10

LONGITUDINAL VIEW

CULVERT DATA

TYPE - Standard pipe culvert with cut-off walls, cradles and riprap on both ends.

SIZE - 27" × 201'-0" @ 7°-26' R.F. Skew.

STD. DRWGS - S-27 P.C. 2 & 3

WORK REQ'D - Build new Std. pipe culvert as shown, with cut-off walls, cradles and rip rap on both ends. Extend riprap on right end to 15 ft. and excavate channel left end 47 ft. Provide roughened riprap on right end.

ESTIMATED QUANTITIES

E-2 -	Excavation for Structures	106	C.Y.
E-3 -	Channel Excavation	10	C.Y.
I-10 -	12" Grout filled Type "A" Riprap	10	S.Y.
S-1 -	Class "E" Concrete for Structures	2.4	C.Y.
S-27 -	27" Pipe for Roadway Culverts	197	L.F.
I-5 -	27" × 15" Wye Pipe Special for Roadway Culvert	1	Ea.
I-10 -	12" Grout filled Type "A" Riprap (roughened)	7	S.Y.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

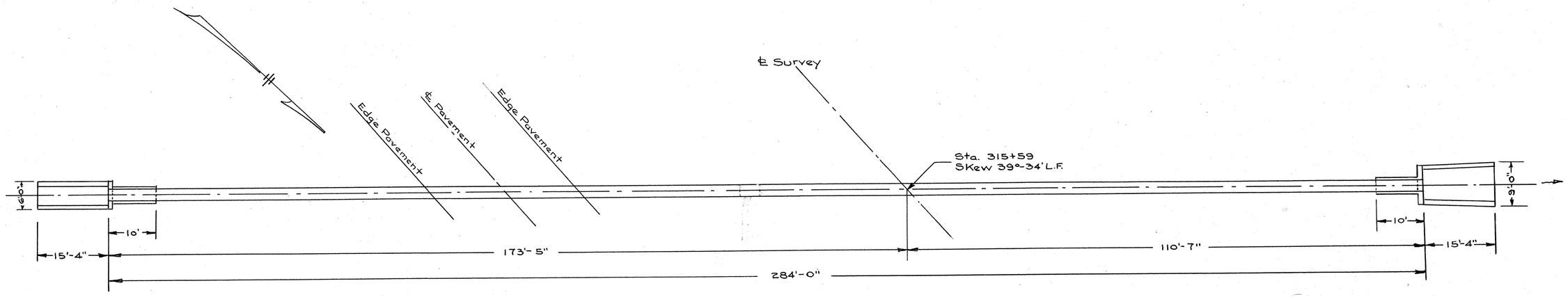
146
150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.)C, D(PT.)

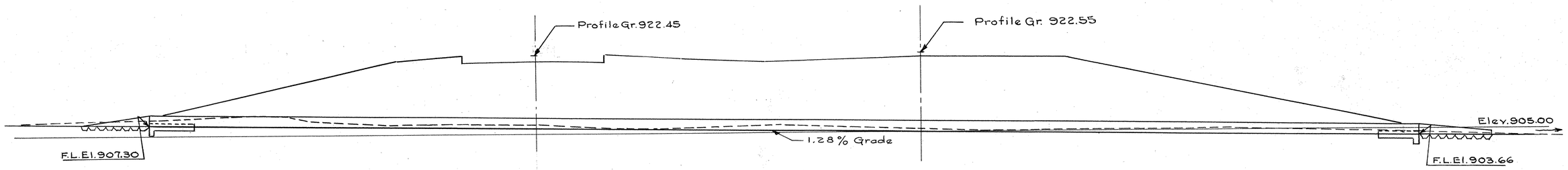
DRAINAGE STRUCTURE C-64 CULV. NO. TR-422-26

STATION 315+59 DRAINAGE AREA 35 A

SURVEYED BY F.P.I. DRAWN BY. T.R.P. CHECKED BY WWM



PLAN VIEW
Scale 3/32"=1'



LONGITUDINAL SECTION ON ℄ OF CULVERT

CULVERT DATA

TYPE	Standard pipe culvert with cradles, cutoff walls and riprap
SIZE	30"x 284' Skew 39° 34' L.F.
STD. DRWGS.	S-27 P.C. 2 and 3
WORK REQ'D.	Build standard culvert with cradles and cutoff walls. Place riprap 15'-4" right and left. Clean channel right.

ESTIMATED QUANTITIES

E-2	Excavation for structures	72	C.Y.
E-3	Channel excavation (Est.)	2	C.Y.
S-1	Class E concrete for structure	2.7	C.Y.
S-27	30" pipe for roadway culvert	284	L.F.
I-10	12" grout filled type A riprap	26	S.Y.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

147
150

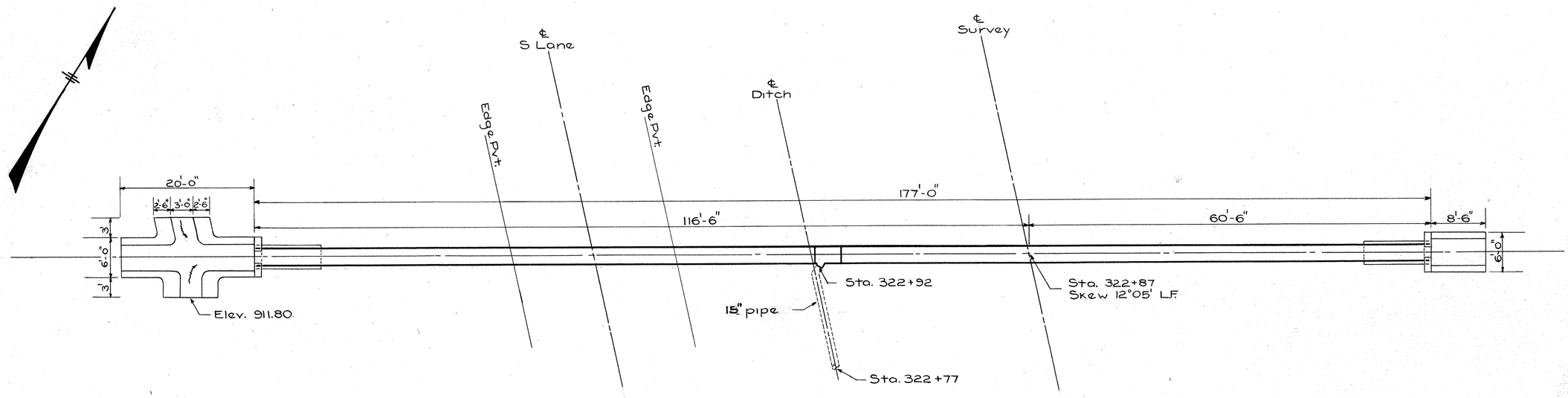
DRAINAGE STRUCTURE C-65 CULV. NO. TR-422-25

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.), C, D(PT.)

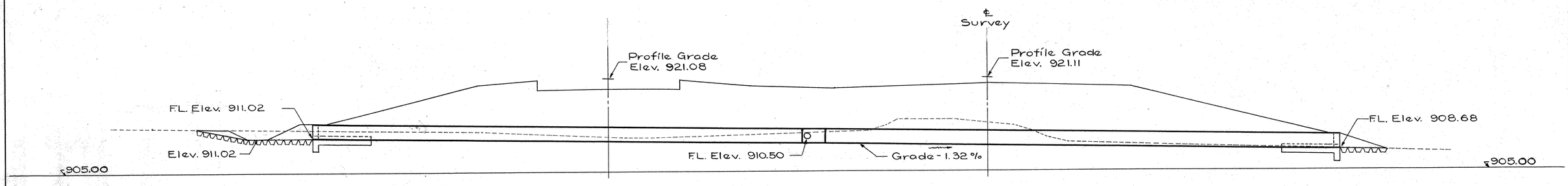
STATION 322+87 DRAINAGE AREA = 40 ACRES

SCALE — 1/8" = 1'

SURVEYED BY F.P.I. DRAWN BY W.W.M. CHECKED BY T.R.P.



PLAN VIEW



CROSS-SECTION ON CENTER LINE

CULVERT DATA

TYPE	Std. pipe culvert with cradles, cutoff walls and rip rap
SIZE	30" x 177'-0" @ 12°05 RF Skew
STD. DRWGS.	S-27 P.C. 2 & 3
WORK REQD	Build 30" x 177'-0" pipe culvert as shown with cradles, cut-off walls, and rip rap on both ends. Place special rip rap on left end as indicated.

ESTIMATED QUANTITIES

E-2	Excavation for structures	67 C.Y.
I-5	30" x 15" Wye pipe special	1 Each
I-10	12" grout filled type "A" rip rap	28 S.Y.
S-1	Class "E" concrete for structures.	2.7 C.Y.
S-27	30" pipe for roadway culverts.	173 L.F.

DRAINAGE STRUCTURE C-65

DRAINAGE STRUCTURE C-66 CULVERT NO. TR-422-23

STATION 329+83 **DRAINAGE AREA 52 A**

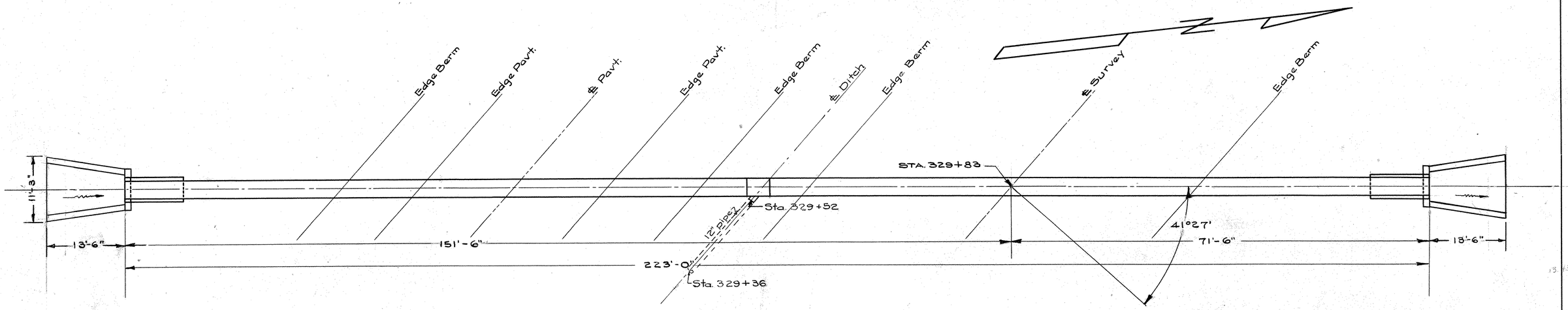
SCALE 1"=8'

SURVEYED BY F.P.I. DRAWN BY W.W.M. CHECKED BY T.R.R.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

148
150

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C, D (PT.)



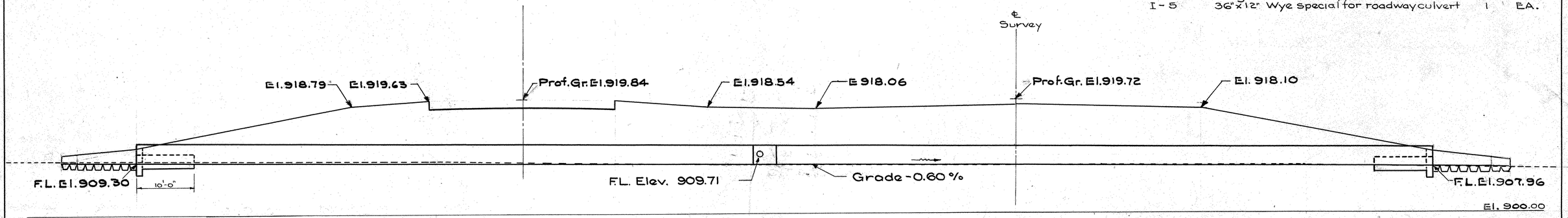
PLAN VIEW

CULVERT DATA

TYPE	Standard Pipe Culvert with cradles cutoff walls and riprap
SIZE	36"x 223'-0" SKew 41°-27' R.F.
STD. DRWGS.	S-27 P.C. 2, 3.
WORK REQ'D.	Build 36"x223'-0" pipe culvert with cradles cutoff walls and riprap

ESTIMATED QUANTITIES

E-2	Excavation for structures	23	C.Y.
S-1	Class "E" concrete for structures	3.3	C.Y.
S-27	36" pipe for roadway culvert	219	L.F.
I-10	12" grout filled type A rip rap	24	S.Y.
I-5	36"x12" Wye special for roadway culvert	1	EA.



LONGITUDINAL CROSS SECTION ON C.L.

FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41 (4)	1947

149
150

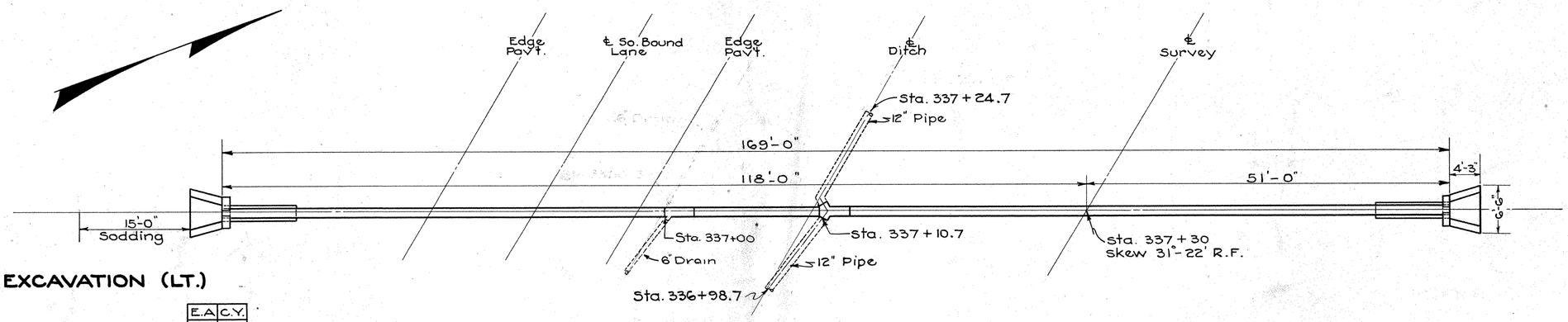
DRAINAGE STRUCTURE C-67 CULV'T NO. TR-422-22

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.), C, D (PT.)

STATION 337+30 DRAINAGE AREA 5 A

Scale 1/8" = 1'-0"

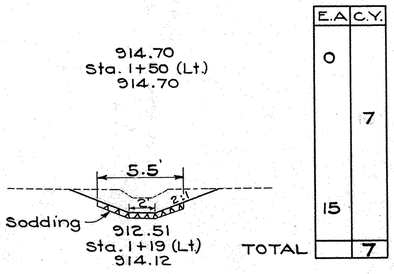
Surveyed by F.P.I. Drawn by W.W.M. Checked by W.D.M.



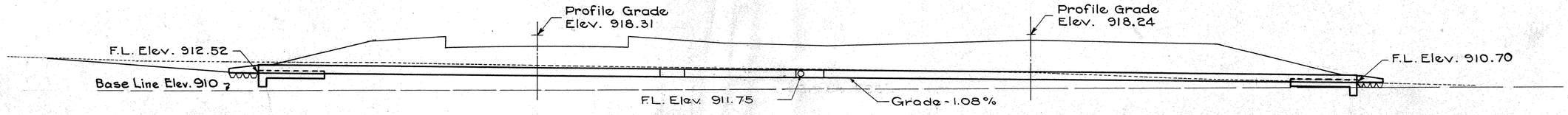
PLAN VIEW

Scale - 1/8" = 1'

CHANNEL EXCAVATION (LT.)



	E.A.	C.Y.
	0	
		7
	15	
TOTAL		7



LONGITUDINAL VIEW

Scale - 1/8" = 1'

CULVERT DATA

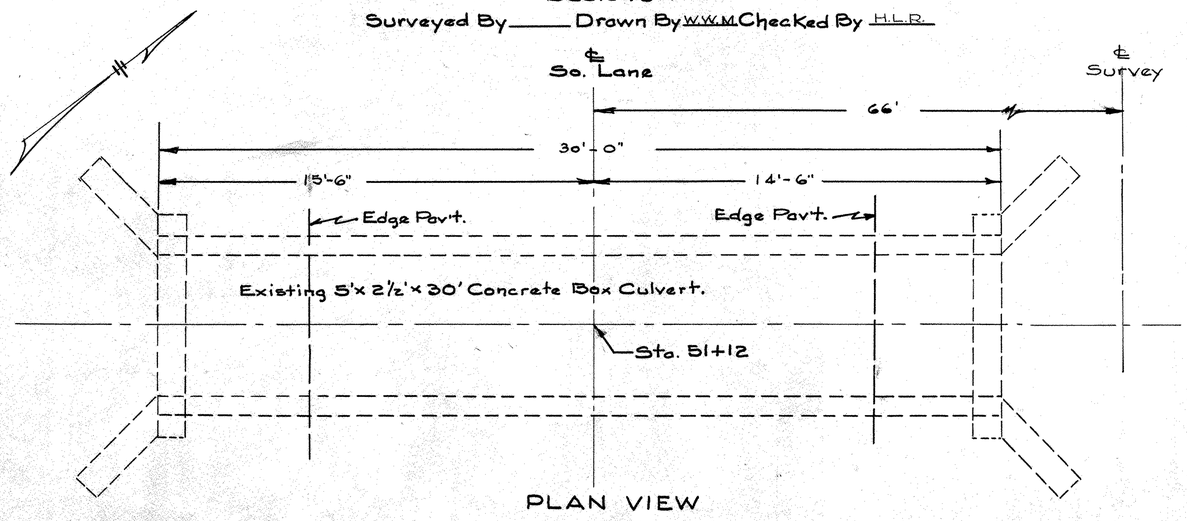
TYPE	Standard pipe culvert with cradles, cut-off walls and riprap. (both ends)
SIZE	15" x 169'-0" @ 31°-22' R.F. skew
STD DRWG'S.	S-27 P.C. 2, 3
WORK REQ'D	Build 15" x 169'-0" pipe culvert as shown, with cradles, cut-off walls and riprap both ends. Excavate channel 29' left. Sod channel left as shown

ESTIMATED QUANTITIES

E-2	Excavation for structure	26 C.Y.
E-3	Channel excavation	7 C.Y.
I-5	15" x 12" Wye pipe specials for Rd-way culv't.	1 Each
I-10	12" Grout filled type A riprap	5 S.Y.
S-1	Class E concrete for structure	1.4 C.Y.
S-27	15" Pipe for roadway culvert	161 L.F.
L-10	Sodding	9 S.Y.
I-5	15" x 6" Wye pipe specials for Rd-way culv't.	1 Each

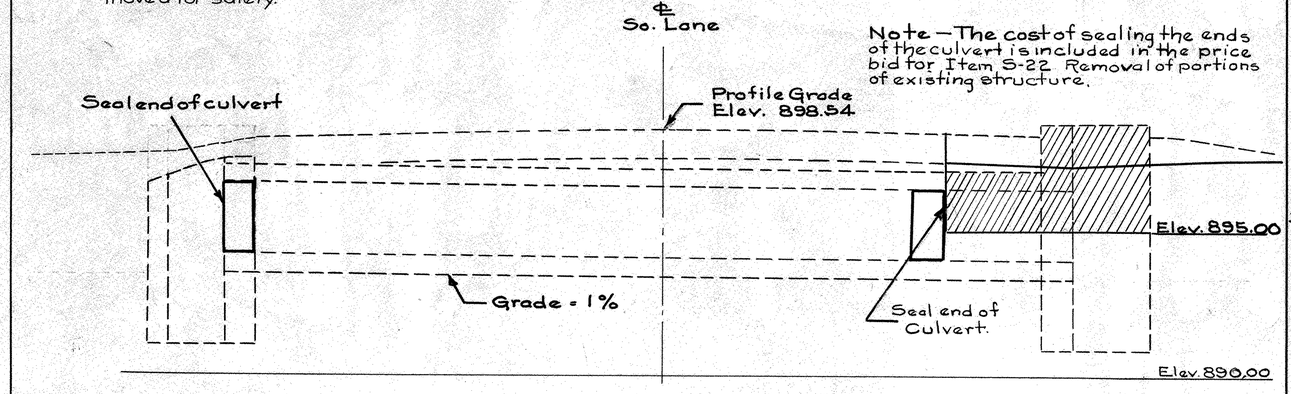
DRAINAGE STRUCTURE C-11 CULV. NO. TR-422-78

STATION 51+12
DRAINAGE AREA – None
Scale 3/8"-1
Surveyed By ____ Drawn By W.W.M. Checked By H.L.R.



PLAN VIEW

Note: This structure has been abandoned and is no longer used for drainage purposes. The existing headwall on the right will be removed for safety.



Note – The cost of sealing the ends of the culvert is included in the price bid for Item S-22 Removal of portions of existing structure.

LONGITUDINAL SECTION

CULVERT DATA

TYPE	Standard box culvert with headwalls
SIZE	5'x 2½' x 30'
STD. DRWGS.	None
WORK REQ'D.	Remove portion of existing structure to a point 56' lt. of ℄ survey and to elevation 895.00; as indicated by cross hatching. Seal both ends of culvert in accordance with Item I-204 of the construction and material specifications, the cost is included in the price bid for Item S-22 Removal of portions of existing structure.

ESTIMATED QUANTITIES

S-22	Removal of portions of existing structure	2.6 C.Y.

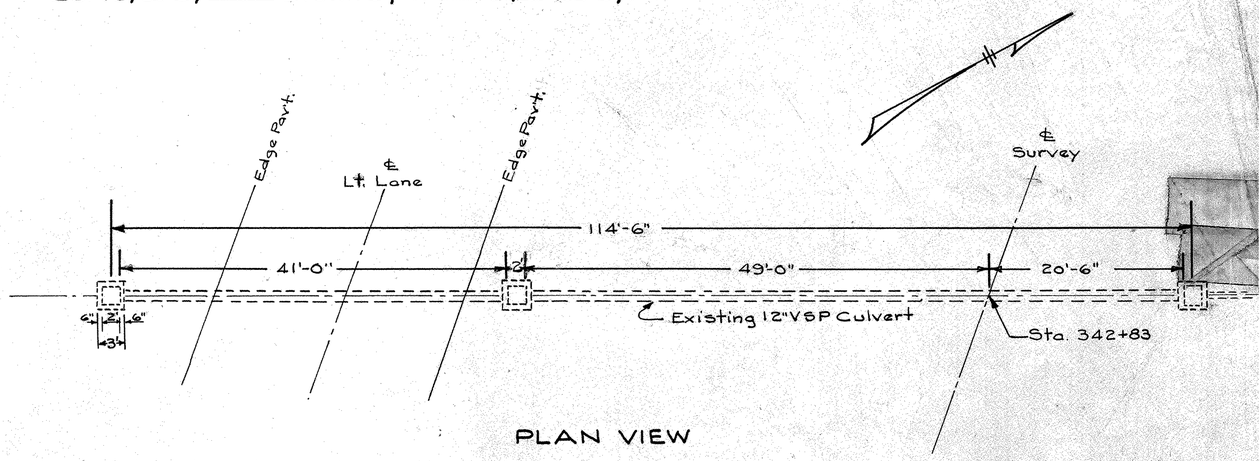
DRAINAGE STRUCTURE C-68 CULV. NO. TR 422-21

STATION 342+83 SCALE 1/8"-1'
Surveyed By ____ Drawn By W.W.M. Checked By HLR

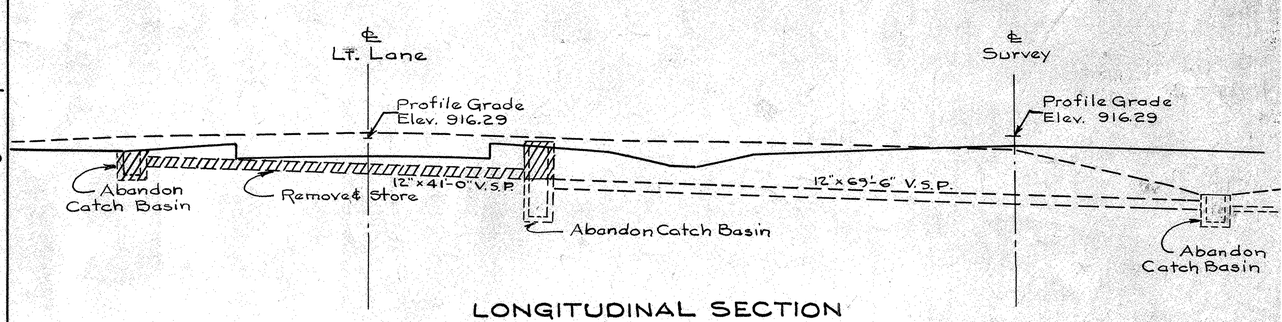
FED. RD. DIVISION	STATE	FED. AID	FISCAL YEAR
2	OHIO	F-41-(4)	1947

150
150

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.)C,D(PT.)



PLAN VIEW



LONGITUDINAL SECTION

CULVERT DATA

TYPE	Standard V.S.P culvert with 3 No. 2 Catch basins.
SIZE	12"x 41'-0" and 12"x 69'-6"
STD. DRWGS.	None
WORK REQ'D.	Remove and store 41' of pipe as indicated in drawing by cross hatching. Abandon catch basins as indicated and seal existing inlet and outlet pipes

ESTIMATED QUANTITIES

I-16	Catch basins abandoned	3 Each
E-12	15" and under pipe removed and stored.	41 L.F.

422 - TRU -

SHEET	STATE	PROJECT	SHEET NO.
2	OHIO		

RELOCATION PLAN
WARREN - BURTON ROAD
S.H. 325 U.S. 422
SEC. B (PT.), C D (PT.)
TRUMBULL COUNTY
1947

0 500 1000 2000 3000 4000 5000

END OF PROJECT STA. 345+00

℄ S.R. 305 S.H. 649 340+85.58 2316.70 N 85°-10'-50"E SOUTHINGTON

END OF RELOCATION S.H. 325 SEC. B(PT.) C D(PT.) STA 340+85.58

S.H. 325 N 42°-35'-50"W 856.32 309+44.57 U.S. 422 282+41.92 P.T. 271+26.75 S.E. 5.34 C.H.=220 262+99.85 I.P.

Δ = 23°-24'-10"
D = 0°-24'
T = 2966.83'
L = 5850.70'
R = 14323.95'
E = 304.03'
P.I. 242+42.83

N 5°-20'-04"E 1245.05 N 5°-20'-04"W 1172.15 I.P. 220+31.29 C.H.=211 P.C. 212+76.05

BEGIN RELOCATION S.H. 325 SEC. B(PT.) C D(PT.) STA. 157+41.5

DELIGHTFUL

℄ Survey & North Bound Lane

N 66°-00'-W 1773.37 182+60.04 C.H.=123 P.T. 175+63.96 P.C. 143+66.96 138+93.70

Δ = 12°-48'
D = 0°-24'
T = 1606.75
L = 3200.00
R = 14323.95
E = 89.8
P.I. = 159+72.68

S 85°-03"E 1325.55 122+35.23 Deflection Sta 122+00.67 0°05' Rt.

SOUTHINGTON TWP. C.H.=135 Δ = 4°-58'-30"W 1842.62 S 5°-06'W 789.30 S 0°-50'W

CHAMPION TWP. WARREN TWP. 87+28.30 C.H. 137 Temperleton

U.S. 422 N 53°-17'W

30+75.86 ℄ of Curve 44' Rt. Deflection Sta 25+27.39 0°-08' Rt.

N 33°-22'W C.H. 83 0-62.03

BEGIN PROJECT STA 0+00

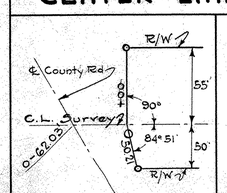
C.L. of Survey 44' STA. 30+75.86 C.L. of Survey

I HEREBY CERTIFY THIS PLAT TO BE CORRECT
Signed by W.A. Wilcox
Division Deputy Director

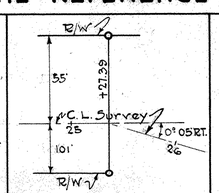
333992

Received for record 1947
Recorded 1947 Vol. 16 Page 3
11:00 A.M.
Trumbull County Records
Edward C. Foley
RECORDER

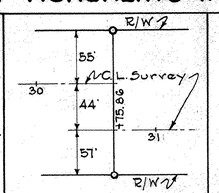
CENTER LINE REFERENCE MONUMENTS WILL BE SET BEFORE OR AFTER CONSTRUCTION



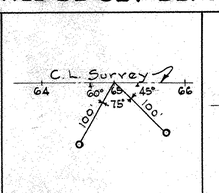
STA. 0+00



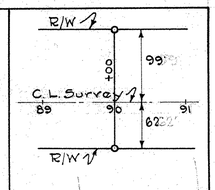
STA. 25+27.39



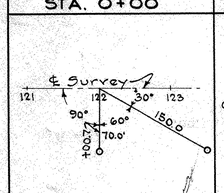
STA. 30+75.86



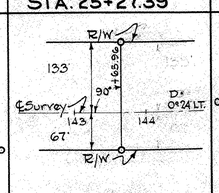
STA. 65+00



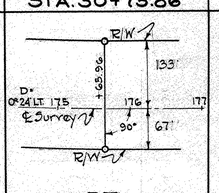
STA. 90+00



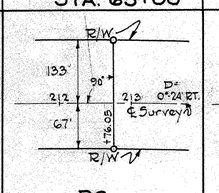
STA. 122+00.7



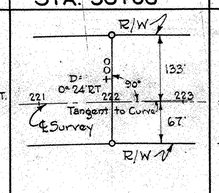
P.C.- STA. 143+65.96



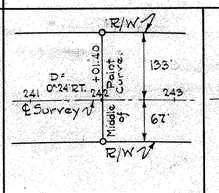
P.T- STA. 175+65.96



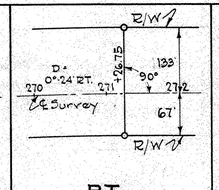
P.C.- STA. 212+76.05



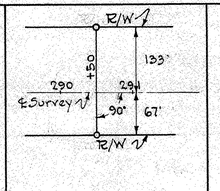
STA. 222+00



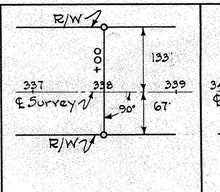
STA. 242+01.40



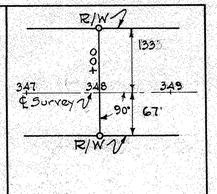
P.T. STA. 271+26.75



STA. 290+50



STA. 338+00



STA. 348+00

No transfer necessary
Entered for Transfer
Dec. 3 1947
Wm C. Trumbull
AUDITOR

U.S. Rt. 422 S.R. 224 Sec. 17

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
2	Ohio	F-41-(4)	1947

1/11

TRUMBULL COUNTY
S.H.- 325 Sec. B(Pt)-C; D(Pt)

Warren Twp.
Lot 10

Geo. H. Pilhorn

C.L. Shaw

Roadside Stand

Δ = 6°-22' LT.
D = 1°
R = 5729.58
T = 318.66'
L = 636.67'
E = 8.85'

BEGIN SHEET STA. - 3+00

END SHEET STA. 9+00

Existing 48' Brick Pav't. ℄

EXIST. 12" ϕ PIPE UNDER PAVT.

EXISTING 16' CONCRETE

P.T. Sta. 0-85.76

P.I. Sta. 0-89.11
100 Δ

B.M.

+00 EXISTING 9"x 34" CONC. HEADER

End Sec. "A"

Begin Sec. "B"

Michael & Nellie E. Martin

① 0.063 Ac.

② 0.063 Ac.

2A

Geo. J. & Veronica A. Bodor

James E. & Clara Warner

③ 0.095 Ac.

④ 0.115 Ac.

Quincy & Thalin Redmand

Clarence J. & Jennie Herman

⑤ 0.179 Ac.

Austa & Willis Winans & Chas Hedstrom

⑥ 0.179 Ac.

Warren Twp.
Lot 10

O-14 Warren Tele. Co M.H.

Warren Twp
Lot 10

Chas. F. Masters

BEGIN SHEET STA. 9+00

END SHEET STA. 21+00

Road Side Stand

Irwin H. & M.R. Zell

⑦ 0.459 Ac.

Austa & Willis Winans & Chas Hedstrom

Fr. Cabins

Res.

Blk. Cabins

Lot 10

Don E. & M.E. Bronson

⑧

Warren Twp.

Lot 3

Lot 10

Lot 9

Rows of Evergreens

Barn

Corn Crib

Well

C.C.

RIGHT OF WAY STA. -300 TO 21+00

22#57 K

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

2 / 11

TRUMBULL COUNTY
S.H. 325 Sec. B(Pt) C, D(Pt)

S.R. 422

NOTE
C.L. of survey is offset
44' to right of Sta. 30+75.86

NOTE:- Sta. 30+75.86 Survey Line offsets 44' to Right.

Warren Twp.
Lot 3

BEGIN SHEET STA. 21+00

END SHEET STA. 33+00

℄ of Survey

℄ DEF - 0°-05' RT STA 25+27.39

Don E. & M.E. Bronson
(8)
1.615 Ac.

Warren Twp
Lot 3

William K. & C.D. White
(9)
0.071 Ac.

Sally Ann Kintner
(10)
0.167 Ac.

James E. & Maryn D. Larson
(11)
0.120 AC.

Wm. K. & Clara D. White
(12)
0.639 Ac.

Merle Lee Vasbinder
(13)
0.335 Ac.

Algey & Nellie Widdowson

Warren Twp.
Lot 3

BEGIN SHEET STA. 33+00

END SHEET STA. 45+00

Algey & Nellie Widdowson
(14)
0.954A.

Theodore R. & Mildred Vasbinder
(16)
0.144 Acres

Perry H. & Ida Morris
(17)
0.144 Acres

Earl J. & Daisy Harrison
(18)
0.185 Acres

Evan R. & F. Engle
(19)
0.506 Ac.

Warren C. & H.M. Montgomery
(20)
0.202 Ac.

John T. Anderson
(21)
1.028 Ac.

Warren Twp. — Lot 3

Rev. 11/24/47

RIGHT OF WAY STA. 21+00 TO 45+00

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

3
11

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
~~S.R. 168~~
S.R. 422

Warren Twp.
Lot 2

BEGIN SHEET STA. 45+00

END SHEET STA. 57+00

TR-422-77A

12" V.S.P.

18" V.S.P.

N-53°-17'-W

℄ of Survey

14" Pin Oak

18" hickory

Luella Baldwin

Lot 2 / Lot 3

Emery J. & A. Shaffer
(22)
2.313 Ac.

Warren Twp.
Lot 2

Margaretta Mc Fetrich

BEGIN SHEET STA. 57+00

END SHEET STA. 69+00

TR-422-76A

TEMPLETON ROAD

C.H. 1127

Res.

Inn

Wood Br.

Well

Margaretta Mc Fetrich
(23)
0.560 Ac.

Ralph R & G. Parr
(24)
0.761 Ac.

Warren Twp.
Lot 2

Burt A. & F.M. Strayer.
(25)
0.790 Ac.

Wm. H. & J. Mathey

Frank & M. Mc Fetrich
(26)
0.933 Ac.

(25-X)
1.192 Ac.

(24-X)
0.285 Ac.

(80-X)
.207 Ac.
Wm. H. & J. Athey

FOR CHANNEL R/W
SEE DETAIL AT RT.

PROP. CHANNEL

Scale 1" = 100'

CURVE DATA
Δ = 82°
R = 100'
T = 86.93'
L = 143.09'
E = 32.5'

CURVE DATA
Δ = 50°40'
R = 150'
T = 71.01
L = 132.6
E = 15.96

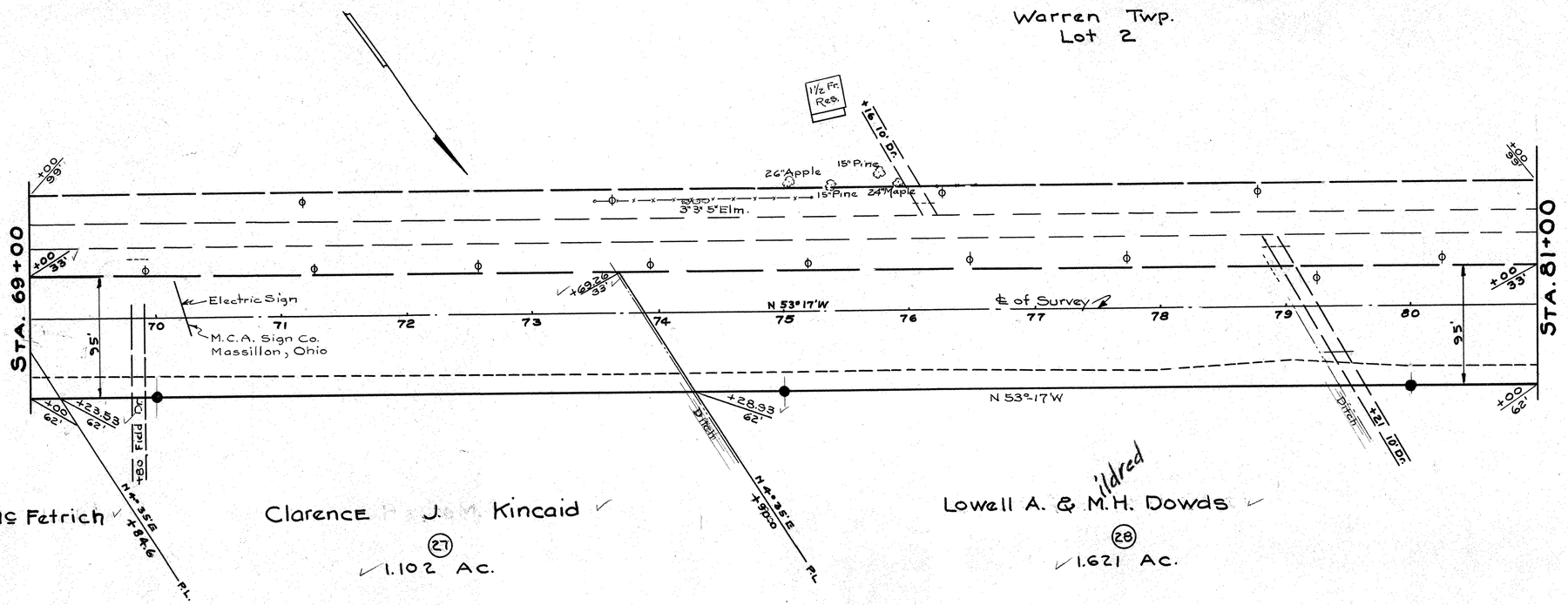
RIGHT OF WAY STA. 45+00 TO 69+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

4/11

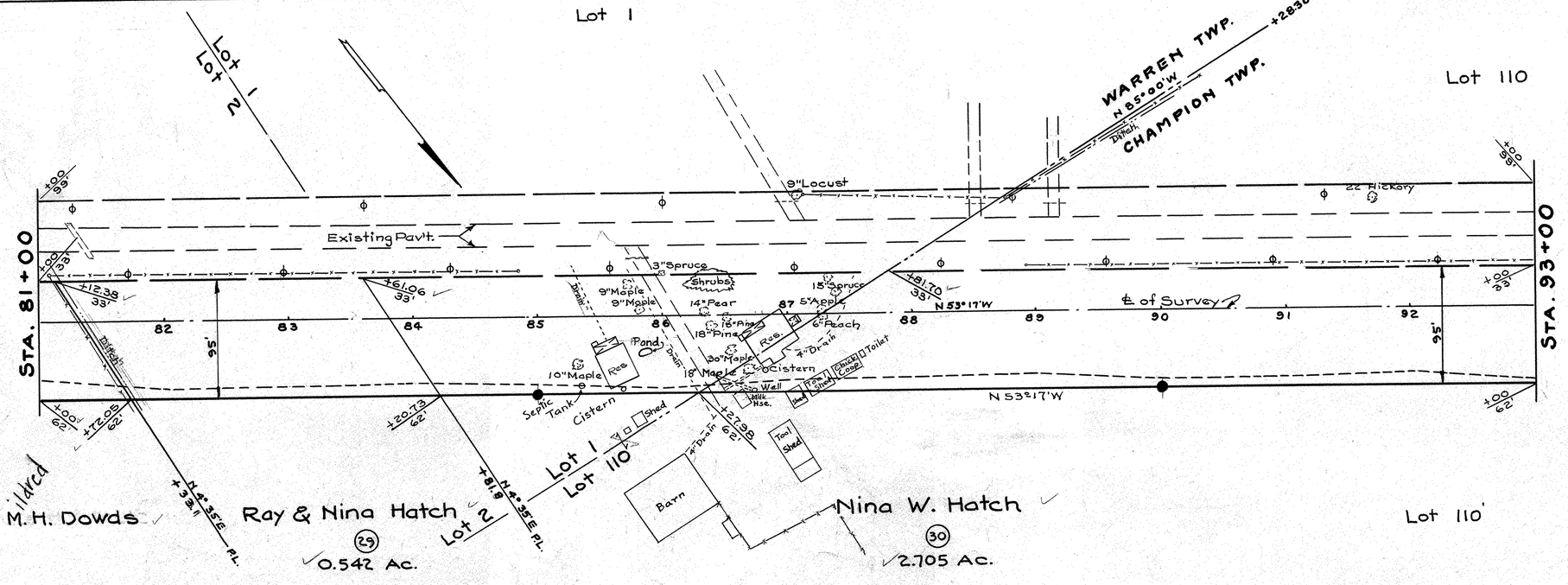
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
~~S.R. 168~~
S.R. 422

Warren Twp.
Lot 2



Warren Twp – Lot 2

Lot 1



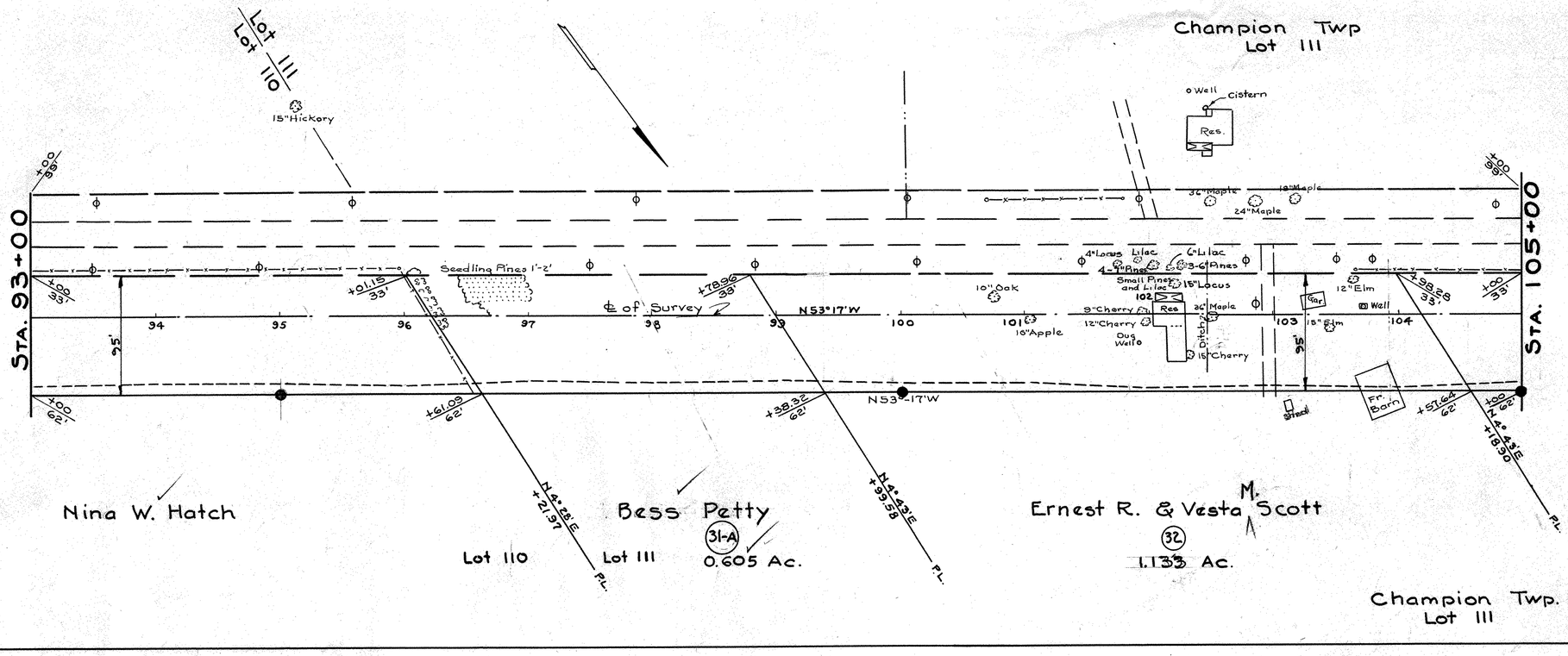
RIGHT OF WAY STA. 69+00 TO 93+00

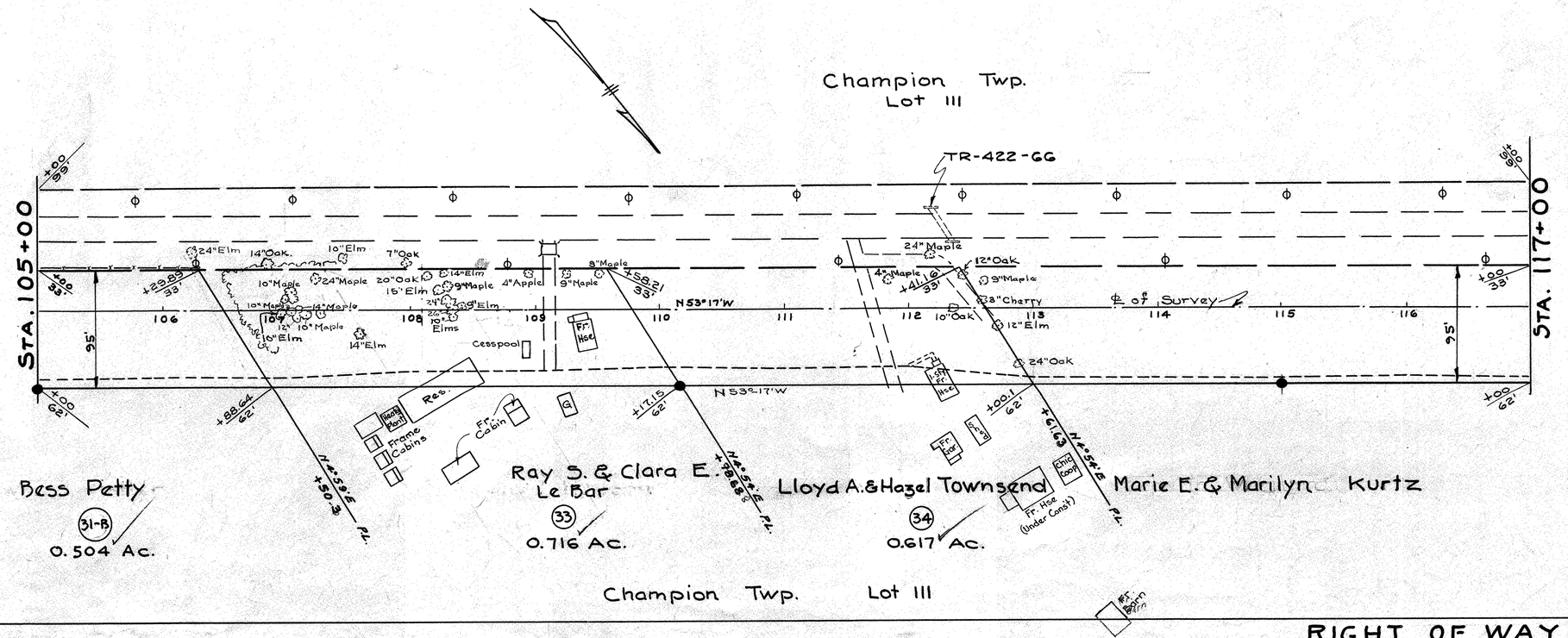
R.O.W.

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

5
11

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.)C, D(PT.)
~~S.R. 168~~
S.R. 422





Champion Twp. Lot 111

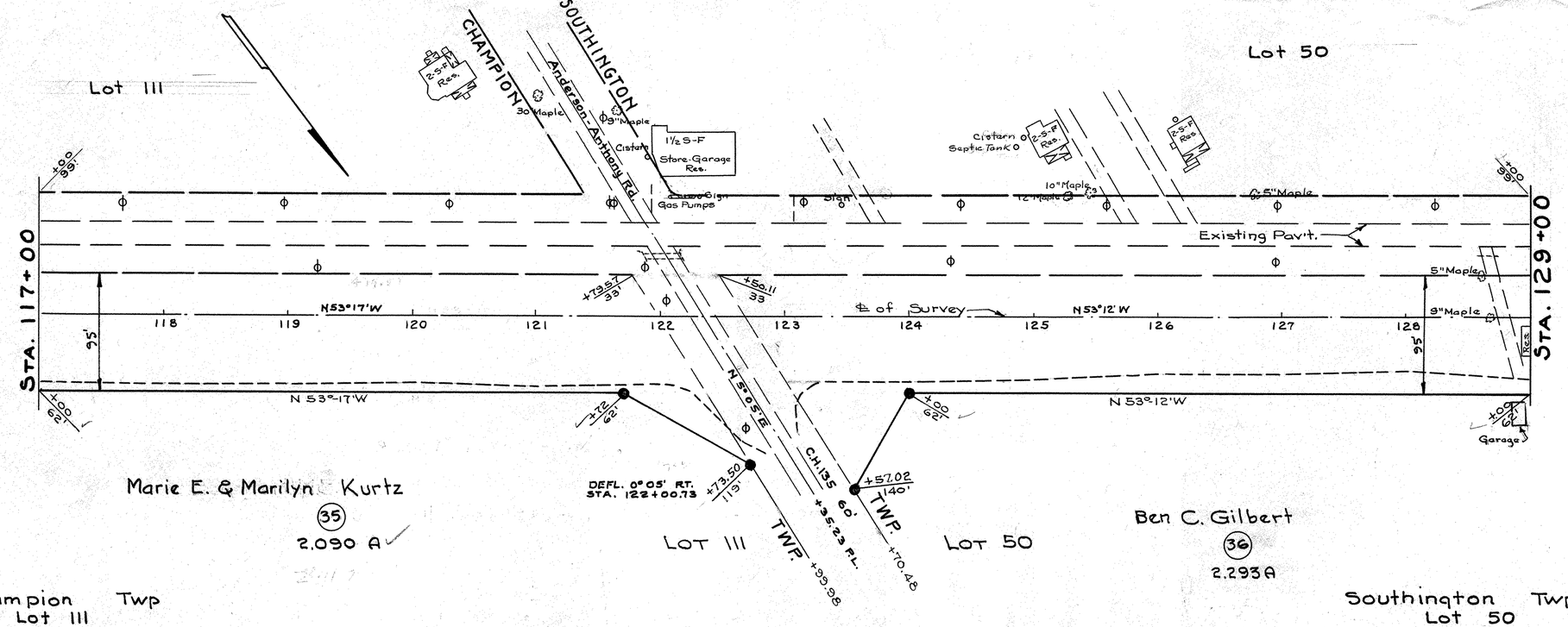
RIGHT OF WAY STA. 93+00 to 117+00

R.O.W.

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

6 / 11

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
~~S.R. 193~~
S.R. - 422



RIGHT OF WAY STA. 117+00 TO 141+00

224 ST

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

7/11

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
~~S.R. 168~~
S.R. 422

Hollis A. & Hirst D. Fieldhouse
(40) 0.245 Ac.

Southington Twp.
Lot 49

Frame barn 28'x 30' 300'ft. left of sta. 150+13

Coop, Tool Shed, Gar., Well, Hay Shed

P.I. 159+72.68
Δ 12° 48' LT.
D 0° 24'
T 1606.72
E 89.8
L 3200.00
R 14323.95

Charles A. & Pearl Fenkell
(41) 1.010 Ac.

STA. 141+00 — STA. 153+00

Existing R/W Line
℄ of Left Lane
℄ of Survey
P.C. 143+65.96
S4°45'W +58.6 133'
N 4°45'E P.I. +39.40
S4°45'W P.I. +97.64
N53° 12' W

Cistern, Septic Tank, Res., Stone Trough, Walk, Well, Tool Shed, Coop, Barn, Cistern, Septic Tank, Res., Cistern, Cr., Septic Tank, Res., Cistern, Garage, Corn Crib, Granary, Coop

R.A & B.M. Roberts
(42) 1.408 Ac.

Southington Twp.
Lot 49

H.A, H.D. & R.I. Fieldhouse
(43) 1.582 Ac.

Charles A. & Pearl Fenkell

Wm. W & Verla Franklin
(15) 0.182 Ac.

Southington Twp.
Lot 49

Wm. H. & N.P. Burnside
(44) 1.357 Ac.

Geo B. Appleby
(45) 1.516 Ac.

Chas E. Criqler

STA. 153+00 — STA. 165+00

℄ of Left Lane
Existing R/W Line
℄ of Survey
TR-422-58
Existing ℄ N 53° 24' 10" W
P.I. 159+72.68 N 66°00' W
N 5°46'E P.I. +66.6
N 5°46'E P.I. +27.8
N 5°46'E P.I. +39.40
Channel
1 Story Store
Rising

H.A., H.D. & R.L. Fieldhouse
(48-X) 0.093 Ac.

Geo W. & Lillian Druschel
(46) 0.218 Ac.

Arnold L. & Emma E.J. Cooper
(47) 0.060 Ac.

Southington Twp. Lot 49

RIGHT OF WAY STA. 141+00 TO 165+00

22+87

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

8
11

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C, D (PT.)
~~S.R. 168~~
S.R. -422

Southington Twp.
Lot 49

Howard E. Simpson
52
3.997 Ac.

Chas. E. Crigler
48
0.688 Ac.

Blanch I. Crossland
49
0.849 Ac.

Calvin H. & Althea Leiby
50
0.948 Ac.

J.E. & E. Fenton
51
0.105 Ac.

Geo. B. Appleby

STA. 165+00

STA. 177+00

℄ Left Lane

℄ of Survey

℄ Existing Road

Howard E. Simpson

Southington Twp.
Lot 49

SCALE 1" = 50'

Lot 49

Lana D. Fowler

Leo & Ruth Robinson
54
1.129 Ac.

Lot 47
Ida. Pinter
55
0.043 Ac.

Southington Twp.
Lot 47

B. & Ann Kovach

SCALE 1" = 100'

Laurel C., C.C. & Harold E. Leiby

STA. 177+00

STA. 202+00

℄ Left Lane

℄ of Survey

N 66° 00' W

Howard E. Simpson

Lana D. Fowler
53
0.728 Ac.

Russel Bonnell & Ruby
56
0.051 Ac.

Lot 49

Lot 47

Laurel C., C.C. & Harold E. Leiby
57
8.517 Ac.

Southington Twp.
Lot 47

RIGHT OF WAY STA. 165+00 TO 202+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

9
11

TRUMBULL COUNTY.
S.H. 325 SEC. B (PT.) C, D (PT.)

S.R. 168
S.R. - 422

Southington Twp.
Lot 47

B. & Ann Kovach
58-X
.025 Ac.
58
3.666 Ac.

TR-422-47

Wooded Area

24" Pipe Culv. (Proposed)

STA. 202+00

N 66° 00' W

℄ of Survey

N 82° 17' W

N 83° 04' W

C.H. 211

Lot 47
Lot 38

Lot 47
Lot 38

Charles Platt
59
1.682 Ac.

P.C. 212+76.05

John & M. Wajnaski
60
3.261 Ac.

Henry I. & O.W. Hurd

STA. 227+00

Southington Twp.
Lot 38

Lot 36
Lot 38

N 66° 00' W — P.I. — N 42° 35' 50" W

Wooded Area

℄ of Survey

STA. 227+00

STA. 252+00

Henry I. & O.W. Hurd
61
8.950 Ac.

Hallie J. Hardman
62
0.149 Ac.

Carl & F. Konold
63
3.475 Ac.

Agnes Klancher
64
3.618 Ac.

P.I. 242 + 42.83
Δ = 23° 24' 10" RT.
D = 0° 24'
T = 5850.70'
L = 2966.83'
R = 14323.95'
E = 303.95

Southington Twp.
Lot 38

Southington Twp.
Lot 36

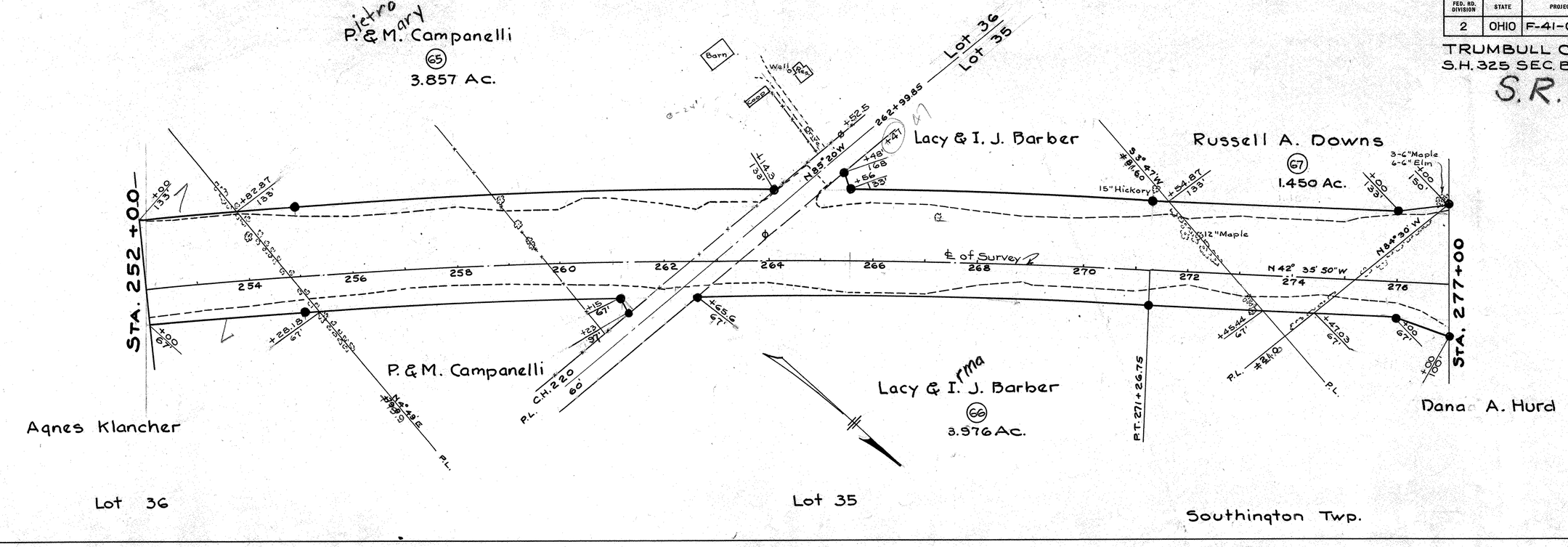
RIGHT OF WAY STA. 202+00 TO 252+00

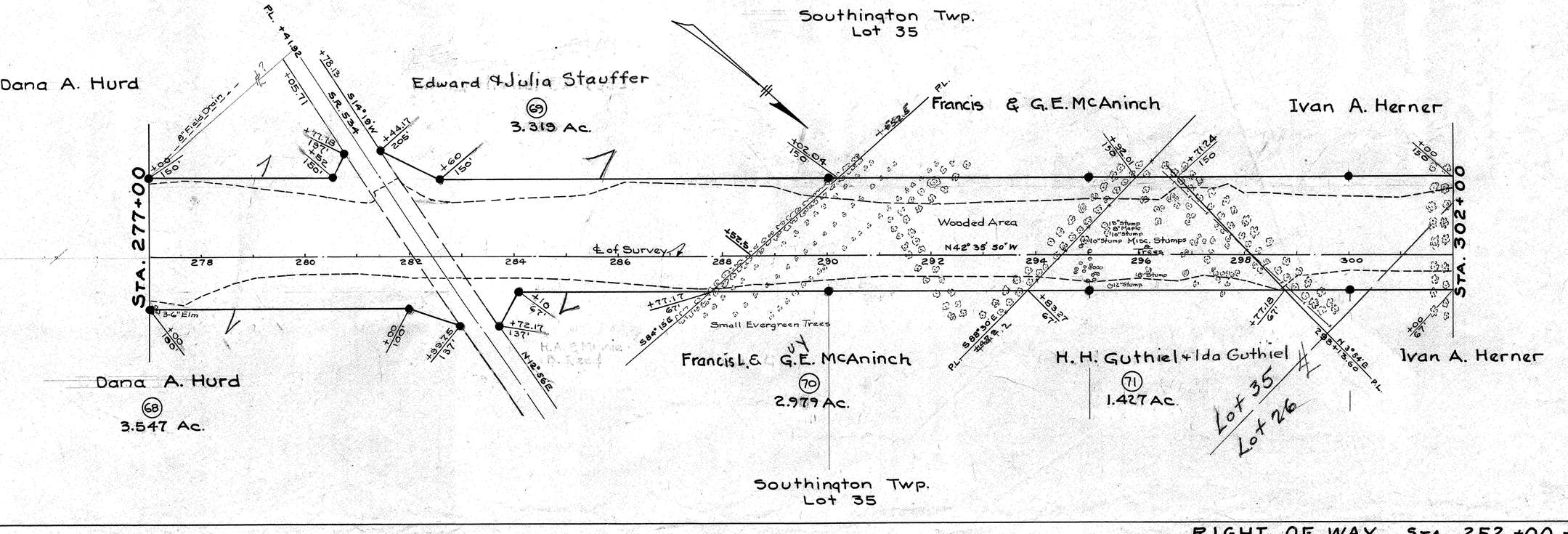
23 th. SR

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	194.7

10/11

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
S.R. 422





RIGHT OF WAY STA. 252+00 TO 302+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
S. R. 422

SOUTHINGTON TOWNSHIP
LOT 24

Ivan A. Herner — Lot 35 — Lot 26 — James E. Guthrie — Lot 24 — Lot 26 — Harrison J. Chalker

309+44.5 PL. — +06.31 — 322+98.2 PL. — +66.10

STA. 302+00 — STA. 327+00

12" Oak — 15" Hickory — 18" Elm — 24" Maple — 8" Oak — 18" Hickory — 15" Maple — 24" Maples — 18" Maple — Misc. Small Trees — 4" Elm — 8" Elm — 10" Wild Cherry — 18" Hickory — 18" Hickory — 18" Hickory — 18" Stub — 18" Maple — 48" Elm — 18" Hickory — 18" Hickory — 18" Ironwood — 20" Hickory — 12" Hickory — 24" Hickory — Brush — 5-6" Elms — Brush

N 42° 35' 50" W — ℄ of Survey

304 — 306 — 308 — 310 — 312 — 314 — 316 — 318 — 320 — 322 — 324 — 326

+00 — +00 — +08.99 — +00 — +00 — +00 — +00 — +00 — +59.85 — +00 — +00

N 4° 45' E PL. 309+44.50 — N 6° 02' E PL. 322+98.2

Ivan A. Herner
72
5.688 A.

James E. Guthrie
73
7.247 A.

Harrison J. Chalker

SOUTHINGTON TOWNSHIP
LOT 24

Harrison J. Chalker — 334+15.8 PL. — Thad G. Babcock
75
3.235 A.

SR. 305 340+85.58 — N 85° 10' 50" W — S.H. 649 — 60' — Ethel Ramunna — Palmina Ramunna — Angela Romeo — Dorothy Touart — 0.415 A — LOT 23

76 — 52° 38' 40" W 844.50' — 77 — 0.130 A

STA. 327+00 — STA. 351+00

20" Elm — 10" Oak — 12-5" Elms — 10" Elm — 12" Elm — 16" Elm — 24" Stump — 12" Elm — Twin 6" Aspen — 20" Oak — N 42° 35' 50" W

℄ of Survey

328 — 330 — 332 — 334 — 336 — 338 N 42° 35' 50" W 340 — 342 — 344 — 346 — 348 — 350

2-5" Pines — 3" Pine — 4" Maple — 5" Maple — 3" Maple — 4" Willow — 20" Maple — 9" Peach — 6" Cherry — 8" Willow — 4" Maple — 10" Elm — 6" Iron Wood — 3" Willow — Shrubs — 12" Catalpa — 6" Peach — Pine

+00 — +00 — +00 — +93.29 — +47.72 — +77.52 — +23.14 — +51.88 — +22.29 — +56.9 — +00 — +00 — +00 — +15.04 — +75.34 — +18.00 — +00 — +43.0

Harrison J. Chalker
74
5.503 A.

Thad G. Babcock

N 44° 45' E PL. 334+15.8 — N 44° 45' E 333+86 PL.

R/W R = 1105.92

Ruby Long
78
0.190 A

N 15° 01' 10" E PL. 344+56.9

Wm. K & Violet J. Mecker
79
0.353 A

N 47° 13' E 345+75.13 PL. — John E & L.M. Popadak — N 47° 13' E 347+75.13 — A. Holland — N 47° 13' E 348+91.13 — R.G. Mayhew — N 47° 13' E 349+51.13 — A. Holland

LOT 24 — LOT 23

RIGHT OF WAY Sta. 302+00 - 351+00

U.S. Rt. 422 S.R. 224 Sec. 17

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
2	Ohio	F-41-(4)	1947

1/11

TRUMBULL COUNTY
S.H.- 325 Sec. B(Pt)-C; D(Pt)

Warren Twp.
Lot 10

Geo. H. Pilhorn

C.L. Shaw

Roadside Stand

Δ = 6°-22' LT.
D = 1°
R = 5729.58
T = 318.66'
L = 636.67'
E = 8.85'

BEGIN SHEET STA. - 3+00

END SHEET STA. 9+00

Existing 48' Brick Pav't. ℄

EXIST. 12" ϕ PIPE UNDER PAVT.

EXISTING 16' CONCRETE

P.T. Sta. 0-85.76

P.I. Sta. 0-89.11
100 Δ

B.M.

+00 EXISTING 9"x 34" CONC. HEADER

End Sec. "A"

Begin Sec. "B"

O-14 Warren Tele. Co M.H.

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① 0.063 Ac.

② 0.063 Ac.

P.L. 2+66.4

Geo. J. & Veronica A. Bodor

2A

James E. & Clara Warner

③ 0.0.98 Ac.

④ 0.115 Ac.

Quincy & Thalin Redmand

Clarence J. & Jennie

⑤ 0.179 Ac.

Herman

Austa & Willis Winans & Chas Hedstrom

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Warren Twp.
Lot 10

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Fr. Cabins

Res.

Blk. Cabins

Don E. & M.E. Bronson

⑧

Warren Twp.

Lot 10

Lot 3

Route of Evergreens

Barn

Corn Crib

Well

C.C.

RIGHT OF WAY STA. -300 TO 21+00

22#57 K

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

2 / 11

TRUMBULL COUNTY
S.H. 325 Sec. B(Pt) C, D(Pt)

S.R. 422

NOTE
C.L. of survey is offset
44' to right of Sta. 30+75.86

NOTE:- Sta. 30+75.86 Survey Line offsets 44' to Right.

Warren Twp.
Lot 3

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END SHEET STA. 33+00

℄ of Survey

℄ DEF - 0°-05' RT STA 25+27.39

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1.615 Ac.

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END SHEET STA. 45+00

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0.144 Acres

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0.144 Acres

Earl J. & Daisy Harrison
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0.185 Acres

Evan R. & F. Engle
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0.506 Ac.

Warren C. & H.M. Montgomery
(20)
0.202 Ac.

John T. Anderson
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1.028 Ac.

Warren Twp. — Lot 3

Rev. 11/24/47

RIGHT OF WAY STA. 21+00 TO 45+00

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

3
11

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
~~S.R. 168~~
S.R. 422

Warren Twp.
Lot 2

BEGIN SHEET STA. 45+00

END SHEET STA. 57+00

TR-422-77A

12" V.S.P.

18" V.S.P.

N-53°-17'-W

℄ of Survey

14" Pin Oak

18" hickory

Luella Baldwin

Lot 2 / Lot 3

Emery J. & A. Shaffer
(22)
2.313 Ac.

Warren Twp.
Lot 2

Margaretta Mc Fetrich

BEGIN SHEET STA. 57+00

END SHEET STA. 69+00

TR-422-76A

TEMPLETON ROAD

C.H. 1127

Res.

Inn

Wood Br.

Well

Margaretta Mc Fetrich
(23)
0.560 Ac.

Ralph R & G. Parr
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0.761 Ac.

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1.192 Ac.

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.207 Ac.
Wm. H. & J. Athey

FOR CHANNEL R/W
SEE DETAIL AT RT.

PROP. CHANNEL

Scale 1" = 100'

CURVE DATA
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R = 100'
T = 86.93'
L = 143.09'
E = 32.5'

CURVE DATA
Δ = 50°40'
R = 150'
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L = 132.6
E = 15.96

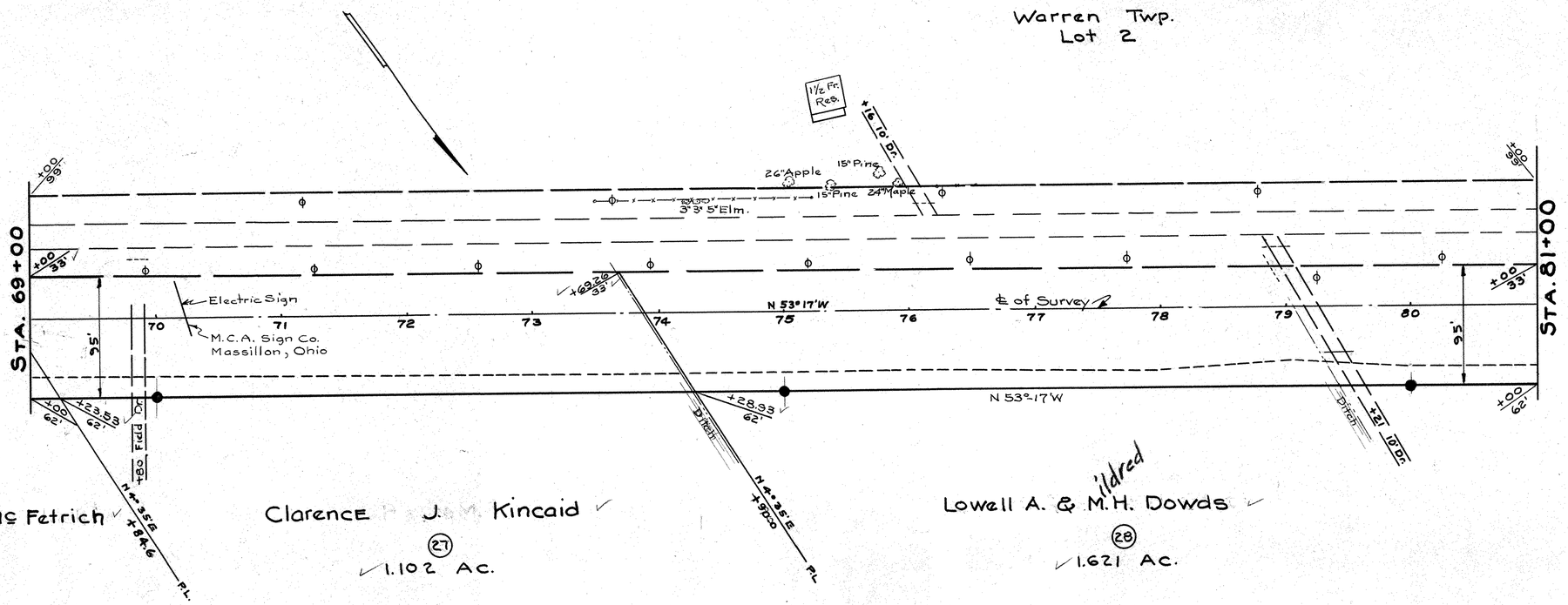
RIGHT OF WAY STA. 45+00 TO 69+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

4/11

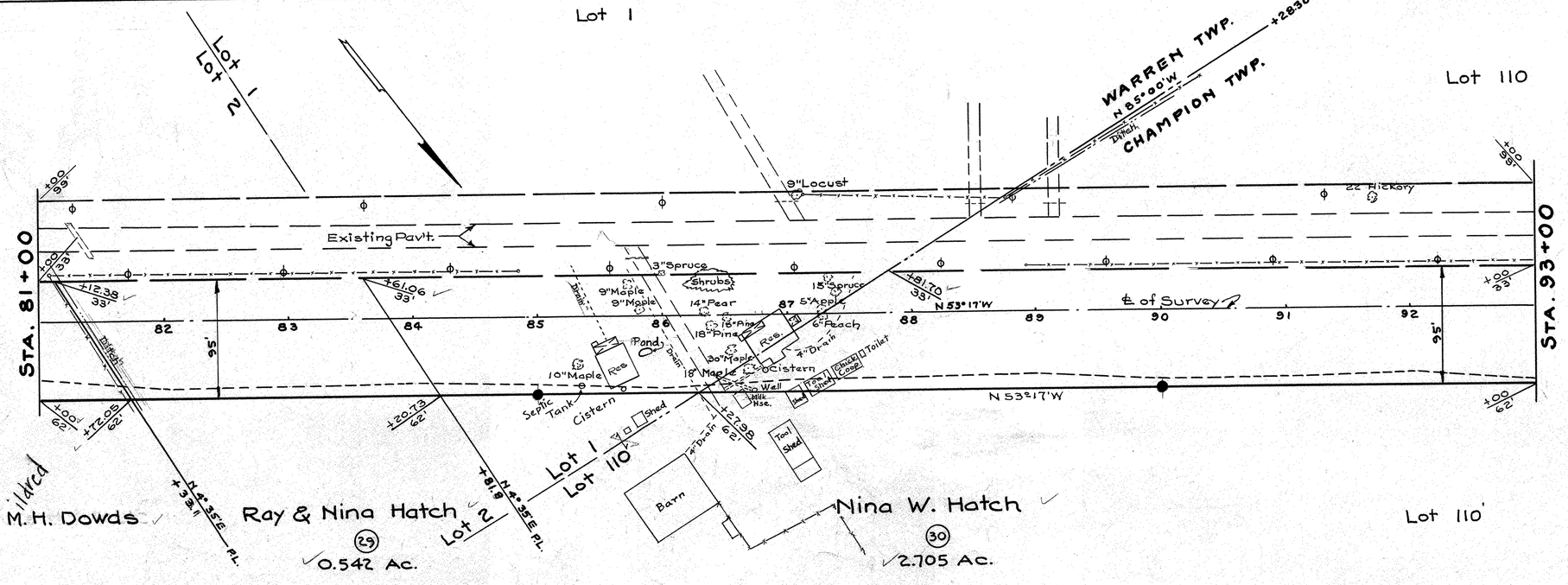
TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
~~S.R. 168~~
S.R. 422

Warren Twp.
Lot 2



Warren Twp – Lot 2

Lot 1



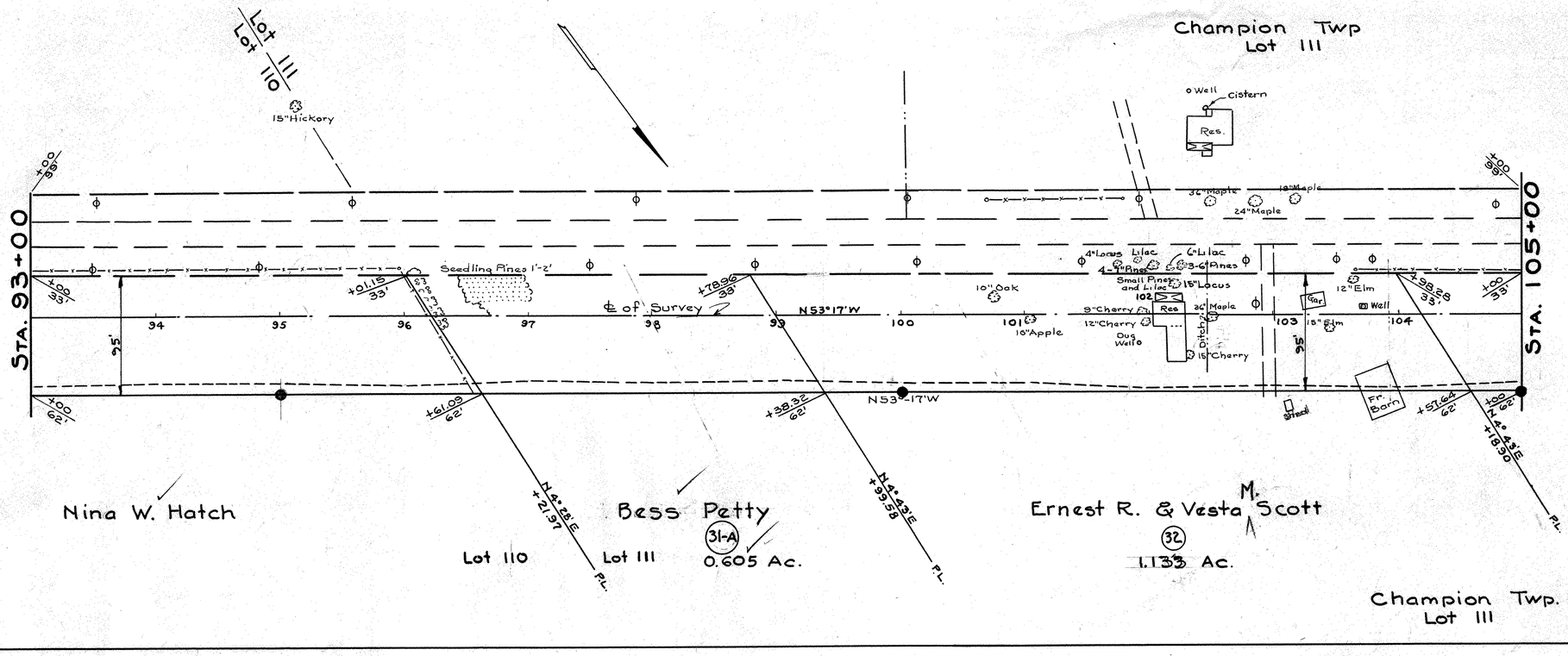
RIGHT OF WAY STA. 69+00 TO 93+00

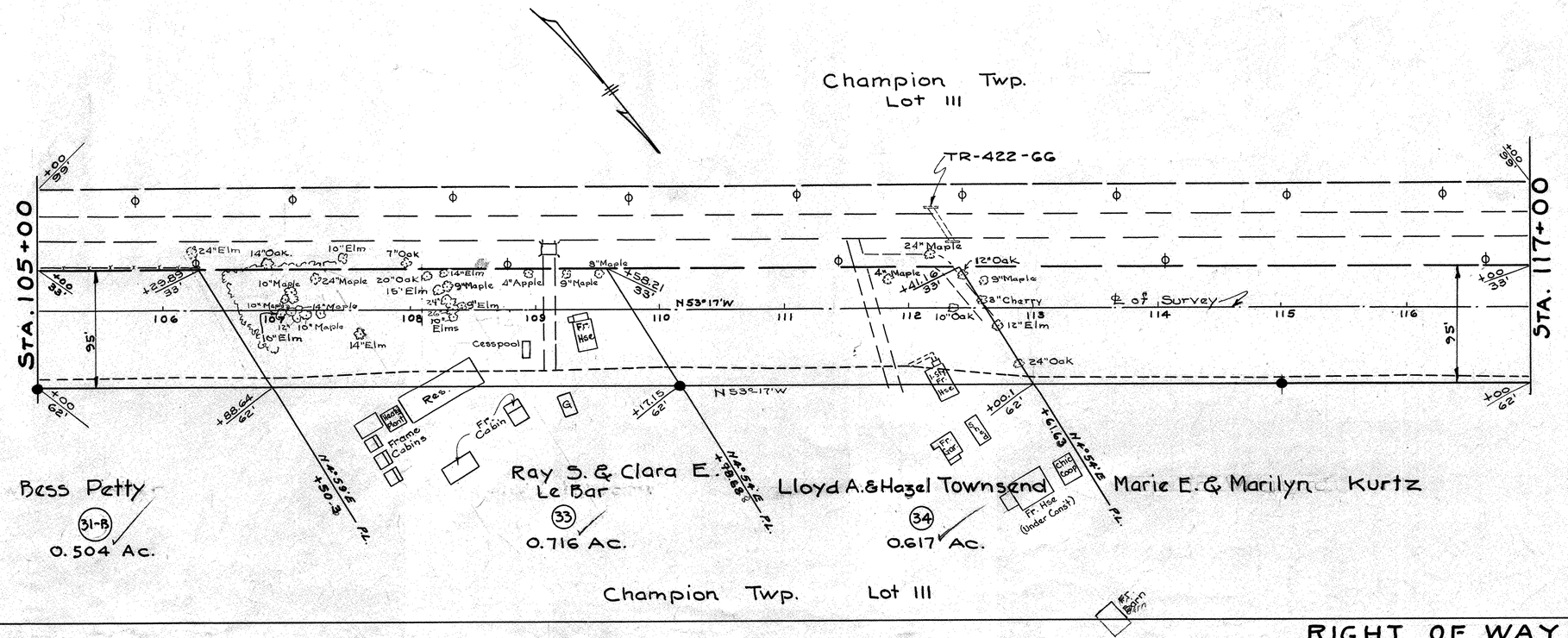
R.O.W.

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

5
11

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.)C, D(PT.)
~~S.R. 168~~
S.R. 422





Champion Twp. Lot 111

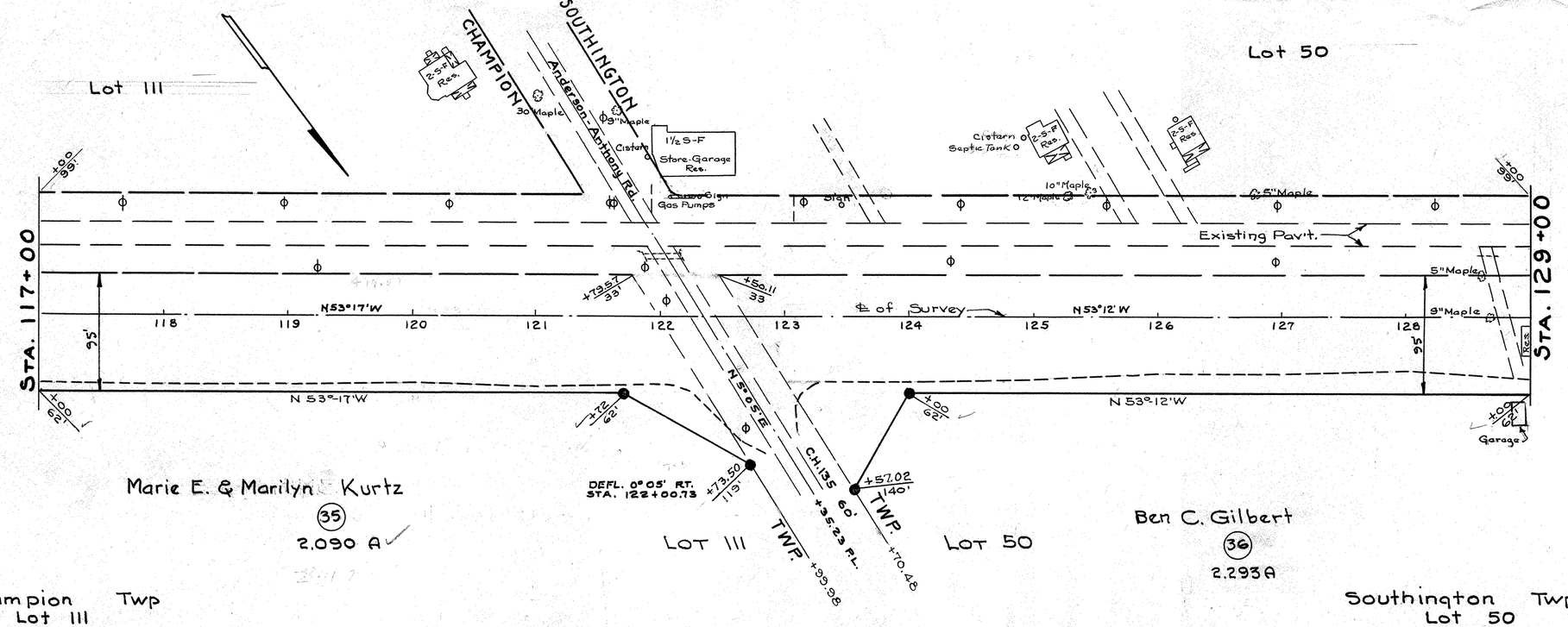
RIGHT OF WAY STA. 93+00 to 117+00

R.O.W.

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

6 / 11

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
~~S.R. 193~~
S.R. - 422



RIGHT OF WAY STA. 117+00 TO 141+00

224 ST

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

7/11

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
~~S.R. 168~~
S.R. 422

Hollis A. & Hirst D. Fieldhouse
(40) 0.245 Ac.

Southington Twp.
Lot 49

Frame barn 28'x 30' 300'ft. left of sta. 150+13

Coop, Tool Shed, Gar., Well, Hay Shed

P.I. 159+72.68
Δ 12° 48' LT.
D 0° 24'
T 1606.72
E 89.8
L 3200.00
R 14323.95

Charles A. & Pearl Fenkell
(41) 1.010 Ac.

STA. 141+00 — STA. 153+00

Existing R/W Line
℄ of Left Lane
℄ of Survey
P.C. 143+65.96
S4°45'W +58.6 133'
N 4°45'E P.I. +39.40
S4°45'W P.I. +97.64
N53° 12' W

Cistern, Septic Tank, Res., Stone Trough, Walk, Well, Tool Shed, Coop, Barn, Cistern, Septic Tank, Res., Cistern, Cr., Septic Tank, Res., Cistern, Garage, Corn Crib, Granary, Coop

R.A & B.M. Roberts
(42) 1.408 Ac.

Southington Twp.
Lot 49

H.A, H.D. & R.I. Fieldhouse
(43) 1.582 Ac.

Charles A. & Pearl Fenkell

Wm. W & Verla Franklin
(15) 0.182 Ac.

Southington Twp.
Lot 49

Wm. H. & N.P. Burnside
(44) 1.357 Ac.

Geo B. Appleby
(45) 1.516 Ac.

Chas E. Criqler

STA. 153+00 — STA. 165+00

℄ of Left Lane
Existing R/W Line
℄ of Survey
TR-422-58
Existing ℄ N 53° 24' 10" W
P.I. 159+72.68 N 66°00' W
N 5°46'E P.I. +66.6
N 5°46'E P.I. +27.8
N 5°46'E P.I. +39.40
Channel
1 Story Store
Rising

H.A., H.D. & R.L. Fieldhouse
(48-X) 0.093 Ac.

Geo W. & Lillian Druschel
(46) 0.218 Ac.

Arnold L. & Emma E.J. Cooper
(47) 0.060 Ac.

Southington Twp. Lot 49

RIGHT OF WAY STA. 141+00 TO 165+00

22+87

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

8
11

TRUMBULL COUNTY
S.H. 325 SEC. B (PT.) C, D (PT.)
~~S.R. 168~~
S.R. -422

Southington Twp.
Lot 49

Howard E. Simpson
52
3.997 Ac.

Chas. E. Crigler
48
0.688 Ac.

Blanch I. Crossland
49
0.849 Ac.

Calvin H. & Althea Leiby
50
0.948 Ac.

J.E. & E. Fenton
51
0.105 Ac.

Geo. B. Appleby

STA. 165+00

STA. 177+00

℄ Left Lane

℄ of Survey

℄ Existing Road

Howard E. Simpson

Southington Twp.
Lot 49

SCALE 1" = 50'

Lot 49

Lana D. Fowler

Leo & Ruth Robinson
54
1.129 Ac.

Lot 47
Ida. Pinter
55
0.043 Ac.

Southington Twp.
Lot 47

B. & Ann Kovach

SCALE 1" = 100'

Laurel C., C.C. & Harold E. Leiby

STA. 177+00

STA. 202+00

℄ Left Lane

℄ of Survey

N 66° 00' W

Howard E. Simpson

Lana D. Fowler
53
0.728 Ac.

Russel Bonnell & Ruby
56
0.051 Ac.

Lot 49

Lot 47

Laurel C., C.C. & Harold E. Leiby
57
8.517 Ac.

Southington Twp.
Lot 47

RIGHT OF WAY STA. 165+00 TO 202+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

9
11

TRUMBULL COUNTY.
S.H. 325 SEC. B (PT.) C, D (PT.)

S.R. 168
S.R. - 422

Southington Twp.
Lot 47

B. & Ann Kovach
58-X
.025 Ac.
58
3.666 Ac.

TR-422-47

Wooded Area

24" Pipe Culv. (Proposed)

STA. 202+00

N 66° 00' W

℄ of Survey

N 82° 17' W

N 83° 04' W

C.H. 211

Lot 47
Lot 38

Lot 47
Lot 38

Charles Platt
59
1.682 Ac.

P.C. 212+76.05

John & M. Wajnaski
60
3.261 Ac.

Henry I. & O.W. Hurd

STA. 227+00

Southington Twp.
Lot 38

Lot 36
Lot 38

N 66° 00' W — P.I. — N 42° 35' 50" W

Wooded Area

℄ of Survey

STA. 227+00

STA. 252+00

Henry I. & O.W. Hurd
61
8.950 Ac.

Hallie J. Hardman
62
0.149 Ac.

Carl & F. Konold
63
3.475 Ac.

Agnes Klancher
64
3.618 Ac.

P.I. 242 + 42.83
Δ = 23° 24' 10" RT.
D = 0° 24'
T = 5850.70'
L = 2966.83'
R = 14323.95'
E = 303.95

Southington Twp.
Lot 38

Southington Twp.
Lot 36

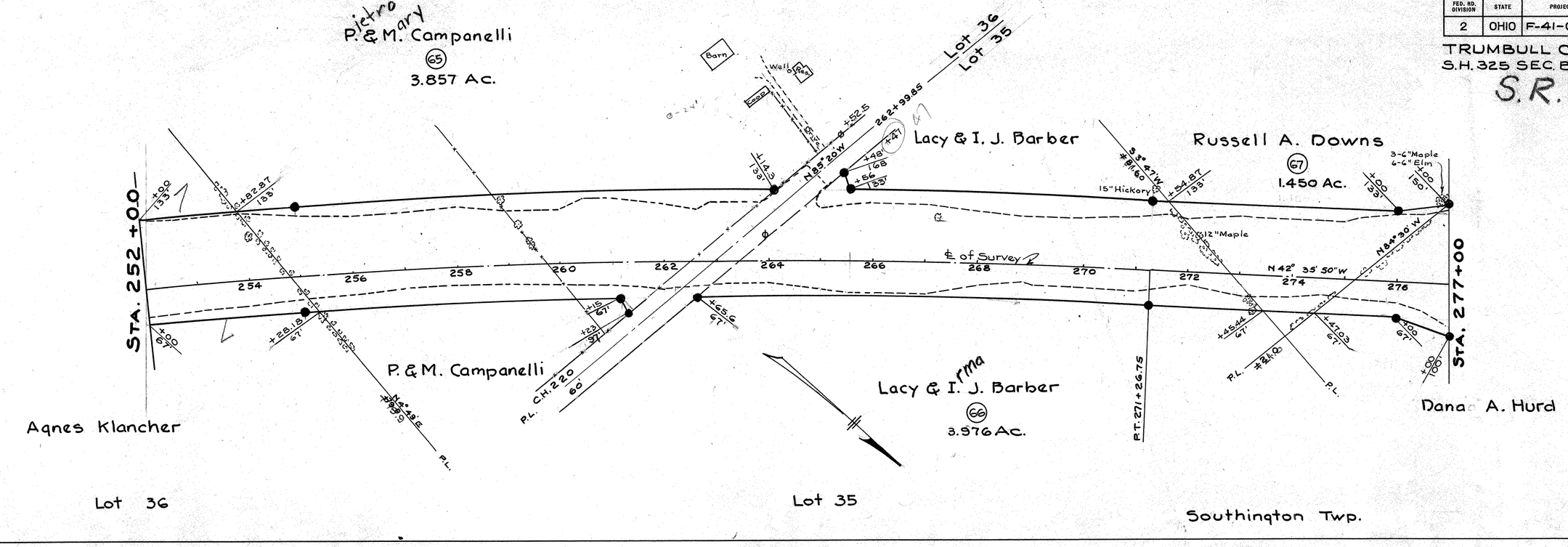
RIGHT OF WAY STA. 202+00 TO 252+00

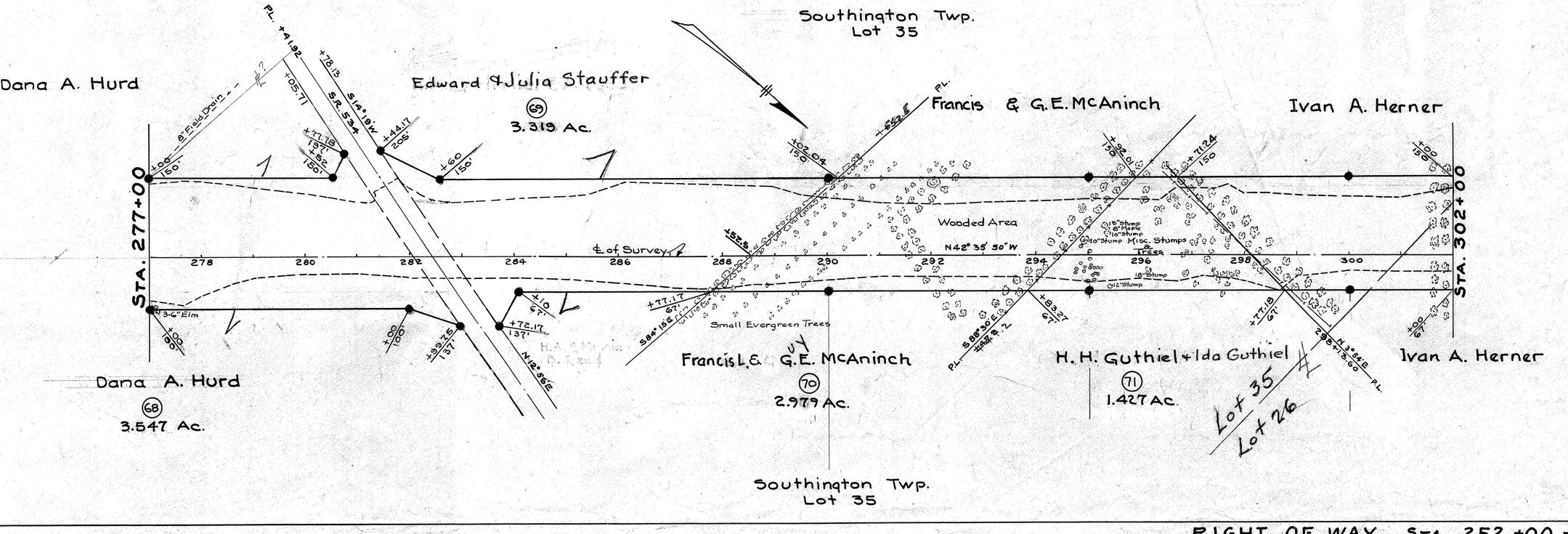
23 th. SR

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	194.7

10/11

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
S.R. 422





RIGHT OF WAY STA. 252+00 TO 302+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	F-41-(4)	1947

TRUMBULL COUNTY
S.H. 325 SEC. B(PT.) C, D(PT.)
S. R. 422

SOUTHINGTON TOWNSHIP
LOT 24

Ivan A. Herner — Lot 35 — Lot 26 — James E. Guthrie — Lot 24 — Lot 26 — Harrison J. Chalker

309+44.5 PL. — +06.31 — 322+98.2 PL. — +66.10

STA. 302+00 — STA. 327+00

12" Oak — 15" Hickory — 18" Elm — 24" Maple — 8" Oak — 18" Hickory — 15" Maple — 24" Maples — 18" Maple — Misc. Small Trees — 4" Elm — 8" Elm — 10" Wild Cherry — 18" Hickory — 18" Hickory — 18" Hickory — 18" Stub — 18" Maple — 48" Elm — 18" Hickory — 18" Hickory — 18" Ironwood — 20" Hickory — 12" Hickory — 24" Hickory — Brush — 5-6" Elms — Brush

N 42° 35' 50" W — ℄ of Survey

304 — 306 — 308 — 310 — 312 — 314 — 316 — 318 — 320 — 322 — 324 — 326

+00 — +00 — +08.99 — +00 — +00 — +00 — +00 — +00 — +59.85 — +00 — +00

N 4° 45' E PL. 309+44.50 — N 6° 02' E PL. 322+98.2

Ivan A. Herner
72
5.688 A.

James E. Guthrie
73
7.247 A.

Harrison J. Chalker

SOUTHINGTON TOWNSHIP
LOT 24

Harrison J. Chalker — 334+15.8 PL. — Thad G. Babcock
75
3.235 A.

SR. 305 340+85.58 — N 85° 10' 50" W — S.H. 649 — 60' — Ethel Ramunna — Palmina Ramunna — Angela Romeo — Dorothy Touart — 0.415 A — LOT 23

76 — 52° 38' 40" W 844.50' — 77 — 0.130 A

STA. 327+00 — STA. 351+00

20" Elm — 10" Oak — 12-5" Elms — 10" Elm — 12" Elm — 16" Elm — 24" Stump — 12" Elm — Twin 6" Aspen — 20" Oak — N 42° 35' 50" W

℄ of Survey

328 — 330 — 332 — 334 — 336 — 338 N 42° 35' 50" W 340 — 342 — 344 — 346 — 348 — 350

2-5" Pines — 3" Pine — 4" Maple — 5" Maple — 3" Maple — 4" Willow — 20" Maple — 9" Peach — 6" Cherry — 8" Willow — 4" Maple — 10" Elm — 6" Iron Wood — 3" Willow — Shrubs — 12" Catalpa — 6" Peach — Pine

+00 — +00 — +00 — +93.29 — +47.72 — +77.52 — +23.14 — +51.88 — +22.29 — +56.9 — +00 — +00 — +00 — +15.04 — +75.34 — +18.00 — +00 — +43.0

Harrison J. Chalker
74
5.503 A.

Thad G. Babcock

N 44° 45' E PL. 334+15.8 — N 44° 45' E 333+86 PL.

R/W R = 1105.92

Ruby Long
78
0.190 A

N 15° 01' 10" E PL. 344+56.9

Wm. K & Violet J. Mecker
79
0.353 A

N 47° 13' E 345+75.13 PL. — John E & L.M. Popadak — N 47° 13' E 347+75.13 — A. Holland — N 47° 13' E 348+91.13 — R.G. Mayhew — N 47° 13' E 349+51.13 — A. Holland

LOT 24 — LOT 23

RIGHT OF WAY Sta. 302+00 - 351+00

422 - TRU -

SHEET	STATE	PROJECT	SHEET NO.
2	OHIO		

RELOCATION PLAN
WARREN - BURTON ROAD
S.H. 325 U.S. 422
SEC. B (PT.), C D (PT.)
TRUMBULL COUNTY
1947

0 500 1000 2000 3000 4000 5000

END OF PROJECT STA. 345+00

℄ S.R. 305 S.H. 649 340+85.58 2316.70 N 85°-10'-50"E SOUTHINGTON

END OF RELOCATION S.H. 325 SEC. B(PT.) C D(PT.) STA 340+85.58

S.H. 325 N 42°-35'-50"W 856.32 309+44.57 U.S. 422 282+41.92 P.T. 271+26.75 S.E. 5.34 C.H.=220 262+99.85 I.P.

Δ = 23°-24'-10"
D = 0°-24'
T = 2966.83'
L = 5850.70'
R = 14323.95'
E = 304.03'
P.I. 242+42.83

N 5°-20'-04"E 1245.05 N 5°-20'-04"W 1172.15 I.P. 220+31.29 C.H.=211 P.C. 212+76.05

BEGIN RELOCATION S.H. 325 SEC. B(PT.) C D(PT.) STA. 157+41.5

DELIGHTFUL

℄ Survey & North Bound Lane

N 66°-00'-W 1773.37 182+60.04 C.H.=123 P.T. 175+63.96 P.C. 143+66.96 138+93.70

Δ = 12°-48'
D = 0°-24'
T = 1606.75
L = 3200.00
R = 14323.95
E = 89.8
P.I. = 159+72.68

S 85°-03"E 1325.55 122+35.23 Deflection Sta 122+00.67 0°05' Rt.

SOUTHINGTON TWP. C.H.=135 Δ = 4°-58'-30"W 1842.62 S 5°-06'W 789.30 S 0°-50'W

CHAMPION TWP. WARREN TWP. 87+28.30 C.H. 137 Temperleton

U.S. 422 N 53°-17'W

30+75.86 ℄ of Curve 44' Rt. Deflection Sta 25+27.39 0°-08' Rt.

N 33°-22'W C.H. 83 0-62.03

BEGIN PROJECT STA 0+00

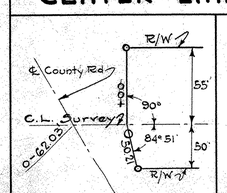
C.L. of Survey 44' STA. 30+75.86 C.L. of Survey

I HEREBY CERTIFY THIS PLAT TO BE CORRECT
Signed by W.A. Wilcox
Division Deputy Director

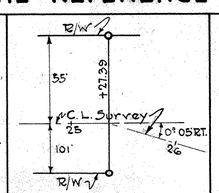
333992

Received for record 1947
Recorded 1947 Vol. 16 Page 3
11:00 A.M.
Trumbull County Records
Edward C. Foley
RECORDER

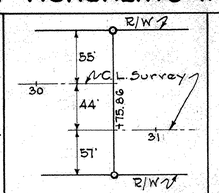
CENTER LINE REFERENCE MONUMENTS WILL BE SET BEFORE OR AFTER CONSTRUCTION



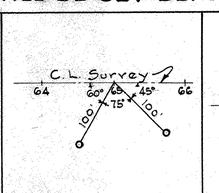
STA. 0+00



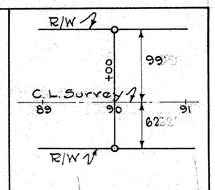
STA. 25+27.39



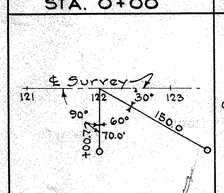
STA. 30+75.86



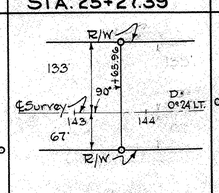
STA. 65+00



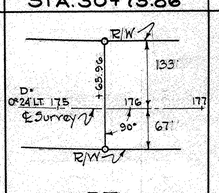
STA. 90+00



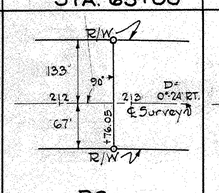
STA. 122+00.7



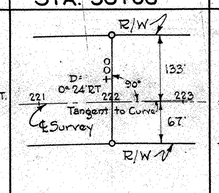
P.C.- STA. 143+65.96



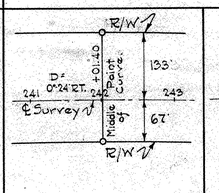
P.T- STA. 175+65.96



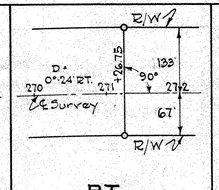
P.C.- STA. 212+76.05



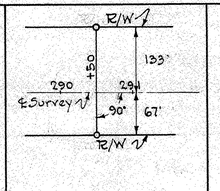
STA. 222+00



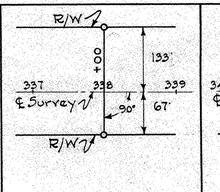
STA. 242+01.40



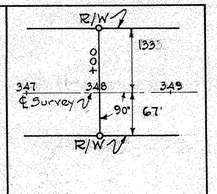
P.T. STA. 271+26.75



STA. 290+50



STA. 338+00



STA. 348+00

No transfer necessary
Entered for Transfer
Dec. 3 1947
Wm C. Trumbull
AUDITOR