FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	STATE	

POR-80-2.48

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
POR - 80 - 2.48
PORTAGE COUNTY
ATWATER TOWNSHIP

CONVENTIONAL SIGNS

State Line
County Line
Township Line
Section Line
Center Line
Corporation Line
Fence Line
Guard Rail (existing)
Guard Rail (proposed)
Steam Railroad
Power Poles
Telephone Poles
Trees (existing)
Trees (to be removed)

INDEX OF SHEETS

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Cross Sections	11-19
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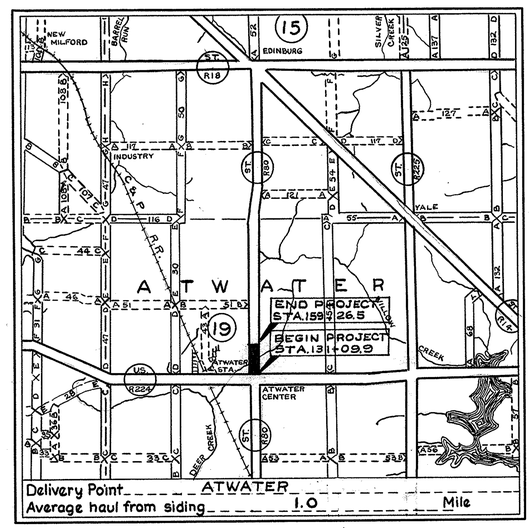
LINE DATA

Begin Project	Sta. 131+09.9
End Project	Sta. 159+26.5
Gross Length of Project	2816.6 L.F.
Net Length of Project	2816.6 L.F. or 0.533 Mi.
Begin Work	Sta. 131+00
End Work	Sta. 160+00
Gross Length of Work	2900.0 L.F.
Net Length of Work	2900.0 L.F. or 0.549 Mi.



LOCATION MAP

SCALE OF MILES

0 1/2 1 2 3 4 5

Portion to be improved
State Roads
Other Roads

SCALE

Plan	1" = 50'
Profile: Horizontal	1" = 50'
Profile: Vertical	1" = 5'
Cross Sections	1" = 5'

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

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

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

Approved Carl L. Campbell
Date 3-14-57 Division Deputy Director

Approved C. H. Makeever
Date 4-23-57 Deputy Director of Planning & Programming

OK BFG 4/10/57
Approved J. H. Overman
Date 4-10-57 Engineer of Bridges

Approved R. E. Shultz
Date 4-16-57 Engineer of Location & Design

Approved R. C. Mackstedt
Date 4-17-57 Deputy Director of Design & Construction

Approved
Date First Assistant Director

Approved Charles E. Thrasher
Date 4/23/57 Acting Director of Highways.

Supplemental Prints of Standard Construction Drawings					
L-1	4-1-50	S-27 P.C.4	1-4-54	I-15 No.2-A	7-2-56
L-3	4-1-50	I-8 C.B. 2-2A&B	8-1-56	I-15 No.1	8-1-55
L-3A	4-1-50	I-8 C.B. 2-3&2-4	3-1-52	SB-1-47	1-20-48
DR-1	1-3-55	I-1, 2, 3, 4, & 5	2-20-45		
R1-1	1-3-55	I-14G	1-22-52		
T-35	1-2-56	G-7.07	6-1-56		
S-27 P.C.3	2-20-45	I-15 No.2	12-1-54		

Supplemental Specifications
B-119 Rev. 6-30-56

CONSTRUCTION BUREAU AUG 1959 GROUND PHOTOLAB

File No.	PORTAGE COUNTY POR-80-2.48
	Date of Letting 19
	Contract No.

FED. RD. DIVISION	STATE	PROJECT	
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~ UTILITIES ~

OHIO BELL TELEPHONE CO., CANTON, OHIO
OHIO EDISON CO., AKRON, OHIO

Field Book No. P-432

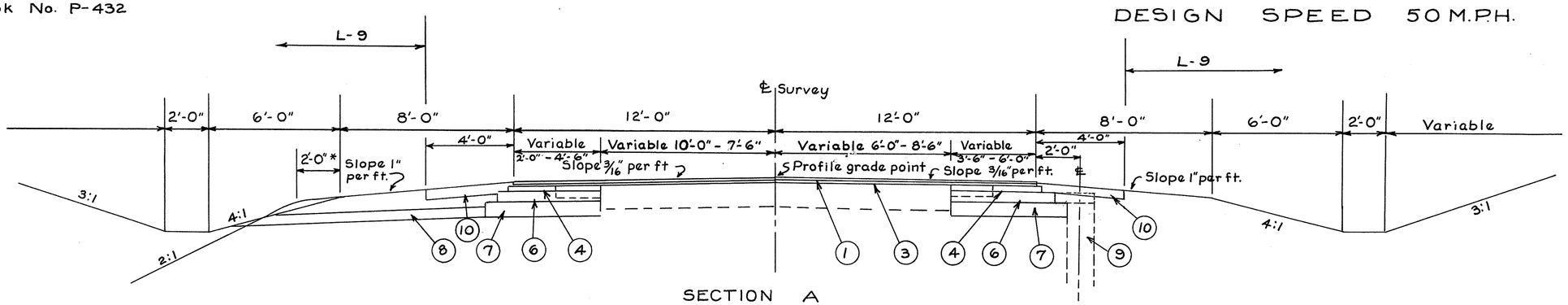
TYPICAL SECTIONS

TYPE T-35

Scale 3/8" = 1'-0"

For details not shown See STD. DWG. RI-1

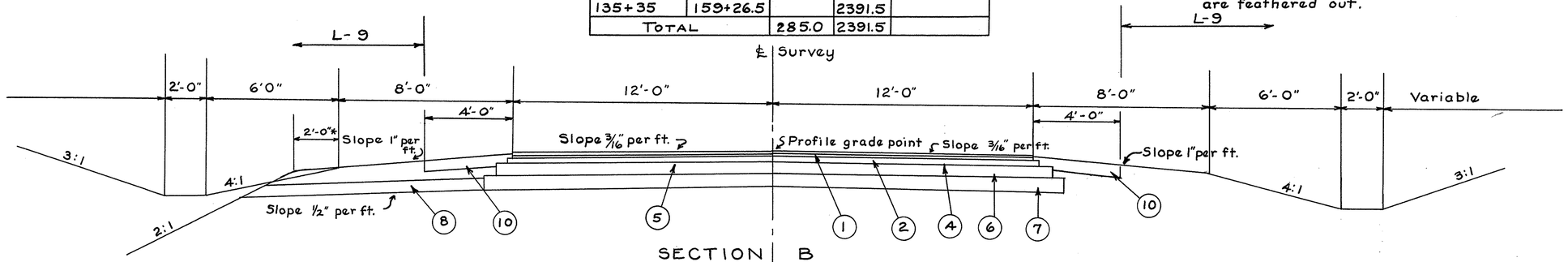
DESIGN SPEED 50 M.P.H.



SECTION A

FROM	TO	L.F.	L.F.	DESCRIPTION
132+50	135+35	285.0		TRANSITION
135+35	159+26.5		2391.5	
TOTAL		285.0	2391.5	

Note: This section is transitional in that as the proposed pavement grade nears the existing pavement grade, the various pavement courses are feathered out.



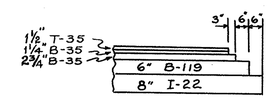
SECTION B

FROM	TO	L.F.	L.F.	DESCRIPTION
131+09.9	132+00	90.1		INTERSECTION
132+00	132+50		50.00	
TOTAL		90.1	50.00	

* Note: Shoulders shall be constructed 2' wider than the normal section where guard rail is required. Angle at change of slope shall be rounded as shown.

(1) T-35 1½" Asphaltic Concrete Surface Course Type A (70-85)
(2) B-35 1¼" Asphaltic Concrete Leveling Course (70-85)
(3) B-35 1¼" Min. Asphaltic Concrete Leveling Course (70-85)
(4) B-35 2¾" Asphaltic Concrete Base Course (70-85)
(5) T-30 Bituminous Prime Coat; Sec. M-5.2, RC-1 or RC-2; or Sec. M-5.3, MC-0 or MC-1 Applied at 0.35 gal. per Sq. Yd.
(6) B-119 - 6" Crushed Aggregate Base Course.
(7) I-22 - 8" Subbase (Granulated Slag Sec. M-3.13 may be used for this item)
(8) I-9 - Stone Underdrains, No. 2
(9) I-4 - 6" Pipe Underdrains
(10) I-18 - 6" Stabilized Crushed Aggregate Shoulders & Approaches

Existing Pavement 9" Coarse Granulated Slag - 3" ± Bituminous Surface



PAVEMENT EDGE DETAIL

P.F. # 291 W.G.S.

GENERAL NOTES

FIELD OFFICE:

The contractor shall provide a suitable "field office" in accordance with section S-0.01 having a minimum floor area of 150 sq.ft. The contractor shall have a telephone installed and maintained during the construction of this project.

UTILITY ADJUSTMENT:

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

BERMS AND SLOPES:

Berms and slopes shall be finished in accordance with the Standard Drawing RI-1 except where otherwise shown on the cross sections.

All transitions from cut to fill slopes shall be blended with the surrounding terrain as directed by the Engineer.

PROPERTY MARKERS:

All iron pins or markers within the limits of the project shall be saved and adjusted to the new grade by the contractor as directed by the Engineer. Cost of adjusting or resetting markers shall be included in the price bid for E-1 Roadway Excavation.

SMALL DRAINS:

Where drains from downspouts, field drains, etc., are encountered and not shown on the plans, they shall be given an unobstructed outlet at the direction of the Engineer. Estimated additions of pipe, as listed below, are provided for in the General Summary.

I-3 6" Roadway drainage 100 L.F.

MAIL BOXES:

The protection, moving, adjusting, etc. of all mail boxes to secure satisfactory delivery of United States Mail shall be considered a part of item G-7.09 "Preservation and Restoration of Property".

PROFILE:

The profile of the proposed surface in the salvage sections shall be approximately 2¾ inches above that of existing pavement, unless otherwise shown on the plans.

TRENCH ROLLER

In narrow base widening areas inaccessible to the standard width roller, the necessary compaction will be obtained with a roller meeting the requirements of Section C.E.-1.08.

SCALPING:

Top soil from the scalping operation shall be salvaged and placed on all areas to be seeded and sodded as per E-1.03(a) and E-1.05(d).

TREE AND STUMP REMOVAL

All trees and stumps within the construction limits which are 12" or more as measured per Sec. E-9.01, shall be removed and paid for under Item E-9 Lump if marked for removal by the Engineer. This number may vary from those trees so marked on the plan.

ITEM L-9 SEEDING AND PROTECTING, L-9 10-6-4 COMMERCIAL FERTILIZER, L-9 AGRICULTURAL LIMING MATERIAL:

Quantities for these items are calculated for the soil areas between the outside edge of the stabilized berm and a line ten (10) feet outside of the work limits as shown on the cross sections or to the R/W line if such line is less than ten (10) feet from the work limits.

ITEM L-10 SODDING:

Areas to be sodded shall be loosened to a depth of 2 inches just prior to laying the sod. This work shall be included for payment in the price bid per sq.yd. of sodding.

COMPACTION FOR DRIVES

The subgrade for drives and mail box turn outs paved with T-35 on B-119 shall be compacted to a depth of six (6) inches to the density requirements of Table III Item E-1. Payment for subgrade compaction, as specified above, shall be included in the unit price bid for E-1 Roadway Excavation.

I-9 STONE UNDERDRAINS No. 2

These underdrains are to be placed as directed by the Engineer. Care should be taken that the outlet of the underdrain is not obstructed in the seeding operation.

Estimated Quantity of I-9 ---- 290 L.F.

Quantities are carried to Recapitulation.

I-4 UNDERDRAINS

Estimated Quantities of 300 Lin.Ft of 6" I-4 Underdrains and 20 Lin Ft of 8" Outlets for Underdrains have been included in the General Summary for use, as directed by the Engineer, in draining any wet areas encountered in the subgrade at the time of construction.

If I-4's are used, any necessary adjustment of the B-119 Quantity to cover extensions of the B-119 Course over the I-4, as shown on the Typical Section, shall be made at the time of final measurement.

TRAFFIC

Traffic shall be maintained at all times. During reconstruction of the bridge at Sta. 148+50, one-way traffic will be permitted, but the Contractor shall so arrange his operations that the one-way lane will be in operation a minimum period of time.

During paving operations the length of one-way traffic zones shall be kept to a minimum consistent with the specification requirements for Protection of pavt., except as noted below.

The following Quantities are provided for Maintenance of Traffic during construction of this project.

T-10	250 C.Y.
M-10	5 Tons

B-119 BASE COURSE

The provision in the specifications that the B-119 course shall not be used for maintenance of through traffic is hereby waived. Cost of additional work or material necessary to repair damage done to the base by traffic shall be included in the Lump Sum bid for Maintaining Traffic.

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RECAPITULATION

SHEET Nº	EARTHWORK Exc. C.Y.	EARTHWORK Emb. C.Y.	EARTHWORK L-9 S.Y.	ROADWAY I-15 L.F.	ROADWAY I-8 Mon. Assembly EA.	ROADWAY E-12 15" & Under L.F.	ROADWAY E-12 Over 15" L.F.	ROADWAY E-12 Remove & Store L.F.
3								
7	723	529	4311		1	631		37
8	1312	1159	6610	575	1	161	62	104
9	1118	137	4006			320	161	
20								
21								
22								
To Calc.			14927					
To Sum	3153	1825		57.5	2	1112	223	141

SHEET Nº	PAVEMENT T-30 Prime Coat Gal.	T-35 1½" C.Y.	T-35 2" C.Y.	B-35 1¼" Leveling C.Y.	B-35 2¾" Base C.Y.	B-119 5" C.Y.	B-119 6" C.Y.	I-22	I-18 6" C.Y.
3									
7			30.8			76.9			
8			26.0			80.9			
9			23.1			56.4			
20	127	18.0		14.8	31.6		61.3	70.1	11.0
21		2.4		2.4					
22									
To Calc.	127	20.4	79.9	17.2	31.6	214.2	61.3	70.1	11.0
To Sum									

SHEET Nº	DRAINAGE I-1 12" L.F.	I-1 15" L.F.	I-1 36x22 L.F.	I-2 Class "A" 12" L.F.	I-2 Class "A" 12" U.A. L.F.	I-2 Class "A" 15" L.F.	I-2 Class "A" 15" U.A. L.F.	I-2 Class "A" 24" L.F.	I-5 for I-2 12"x24" Wye EA.	I-8 No. 2-2A C.B. EA.	I-8 No. 2-3 C.B. EA.	I-9 Stone Underdrains L.F.	I-16 Abandon Exist. C.B. EA.	L-10 Sod 7' wide S.Y.	L-10 Sod 1' wide S.Y.	I-14 Pave Gutter Std. Type 1 L.F.	E-2 Structure Exc. C.Y.	E-3 Channel Exc. C.Y.	S-1 Class "C" Concrete C.Y.	S-1 Class "E" Concrete C.Y.	S-3 Waterproofing Type C S.Y.	S-4 Reinf. Steel Lbs.	S-9 Premolded Exp. Jt. Filler ¼" S.F.	S-3 Premolded Contr. Joint Sealing Strip ½" L.F.	S-14 Railing St. Beam G.R. L.F.	S-22 Rem. Part of Exist. Str. C.Y.	S-23 Dowel Holes EA.	S-24 Removal Exist. Str. Lump Sum	S-27 18" Pipe for Rdwy. Culvert L.F.	S-29 Porous Backfill C.Y.
3												290																		
7				606	228	88	14			5	2		1	138						0.41										
8	24			332	160		40	100			2			285	32	145														
9		30	58	226	108			102	1	3	1			40																
20																	6.0	3.0		0.60									Lump Sum	60	
21																	76.0	183.0	22.0	68.00	69	7707	8	4	30	24	90				22
22																															
To Calc.														463	32															
To Sum	24	30	58	1164	496	88	54	202	1	8	5	290	1	495		145	82.0	186.0	22.0	69.01	69	7707	8	4	30	24	90	Lump Sum	60	22

CALCULATIONS

T-35 1½" ASPHLATIC CONCRETE SURFACE COURSE

FROM: Typical Section "A" 2376.0 L.F. (Less 15'-6" at bridge)
Typical Section "B" 50.0 L.F.
TOTAL 2426.0 x 24 ÷ 9 x 1½" ÷ 36 = 269.55 C.Y.
Transition Typical Section "A" (Estimated) 26.00 C.Y.
Feathering (Est.) Sta. 159+26.5 to 159+51.5 1.11 C.Y.
From Recap. 100.30 C.Y.
TOTAL T-35 To Summary (397 C.Y.) 396.96 C.Y.

B-35 1¼" ASPHALTIC CONCRETE LEVELING COURSE

FROM: Typical Sections "A" & "B" (See T-35 Above) 224.60 C.Y.
Transition Section "A" & Feathering 27.00 C.Y.
Recap. 17.20 C.Y.
TOTAL B-35 (1¼") 268.80 C.Y.

B-35 EXTRA LEVELING COURSE (140 C.Y. Per Mi.)

FROM: Typical Section "A" 2376.0 L.F.
Transition Typical Section "A" 285.0 L.F.
TOTAL B-35 Extra 2661.0 L.F. ÷ 5280 x 140 = 70.56 C.Y.
TOTAL B-35 Leveling To Summary (340 C.Y.) 339.36 C.Y.

B-35 2¾" ASPHALTIC CONCRETE BASE COURSE

FROM: Typical Section "B" 50.0 x 24.5 ÷ 9 x 2¾" ÷ 36 = 10.39 C.Y.
Typical Section "A" 2376 x 8.5 ÷ 9 x 2¾" ÷ 36 = 171.41 C.Y.
Transition Typical Section "A" (Estimated) 60.0 C.Y.
Recap. 31.60 C.Y.
TOTAL B-35 3" To Summary (274 C.Y.) 273.40 C.Y.

B-119 6" CRUSHED AGGREGATE BASE

FROM: Typical Section "B" 50.0 x 25.5 ÷ 9 x 6 ÷ 36 23.61 C.Y.
Transition Typical Section A (Estimated) 102.0 C.Y.
Typical Section "A" 2376 x 9.5 ÷ 9 x 6 ÷ 36 418.0 C.Y.
Recap. 275.50 C.Y.
TOTAL B-119 6" To Summary (820 C.Y.) 819.11 C.Y.

I-22 8" SUBBASE

FROM: Typical Section "B" 50.00 x 26.5 ÷ 9 x 8 ÷ 36 = 32.72 C.Y.
Typical Section "A" 2376 x 10.5 ÷ 9 x 8 ÷ 36 = 616.0 C.Y.
Transition Typical Section "A" (Estimated) 89.0 C.Y.
Recap. 70.10 C.Y.
TOTAL I-22 To Summary (808 C.Y.) 807.82 C.Y.

E-11 WATER

Embankment 1825 x 5 gal./C.Y. ÷ 1000 = 9.13 M.Gal.
B-119 819.00 x 5 gal./C.Y. ÷ 1000 = 4.10 M.Gal.
I-18 3.37 x 10 gal./C.Y. ÷ 1000 = 3.37 M.Gal.
I-22 808.00 x 10 gal./C.Y. ÷ 1000 = 8.08 M.Gal.
TOTAL E-11 To Summary (25 M. Gal.) 24.68 M.Gal.

T-30 BITUMINOUS PRIME COAT

FROM: Typical Section "B" 50.0 x 25.5 ÷ 9 = 141.0 S.Y.
Transition Typical Section "A" (Estimated) 614.0 S.Y.
755.0 S.Y. x 0.35 = 264.0 Gal.
From Recap 127.0 Gal.
TOTAL T-30 To Summary (391 Gal.) 391.0 Gal.

L-9 SEEDING

Seeding from Recap. 14927 S.Y.
Deduct Sodding from Recap. 495 S.Y.
Deduct Pave Gutter from Recap. 66 S.Y.
TOTAL L-9 To Summary 14366 S.Y.

L-9 COMMERCIAL FERTILIZER

Fertilizer @ 20 lbs. per 1000 Sq.ft.
(L-9 + L-10) 14861 x 9 = 133,749 Sq.ft.
20 x 133,749 ÷ 1000 ÷ 2000 = 1.34 Tons
To Summary (1.34 Tons)

L-9 AGRICULTURAL LIMING MATERIAL

Lime @ 100 lbs. per 1000 Sq.ft.
100 x 133,749 ÷ 1000 ÷ 2000 = 6.69 Tons
To Summary (6.69 Tons)

I-18 STABILIZED CRUSHED AGGREGATE SHOULDER & APPROACHES

FROM: Typical Section "A" & "B" less drive etc. 284.00 C.Y.
Transition Typical Section "A" 285 x 4 ÷ 9 x 6 ÷ 36 = 42.20 C.Y.
Recap. 11.00 C.Y.
To Summary (337 C.Y.) 337.20 C.Y.

GENERAL SUMMARY

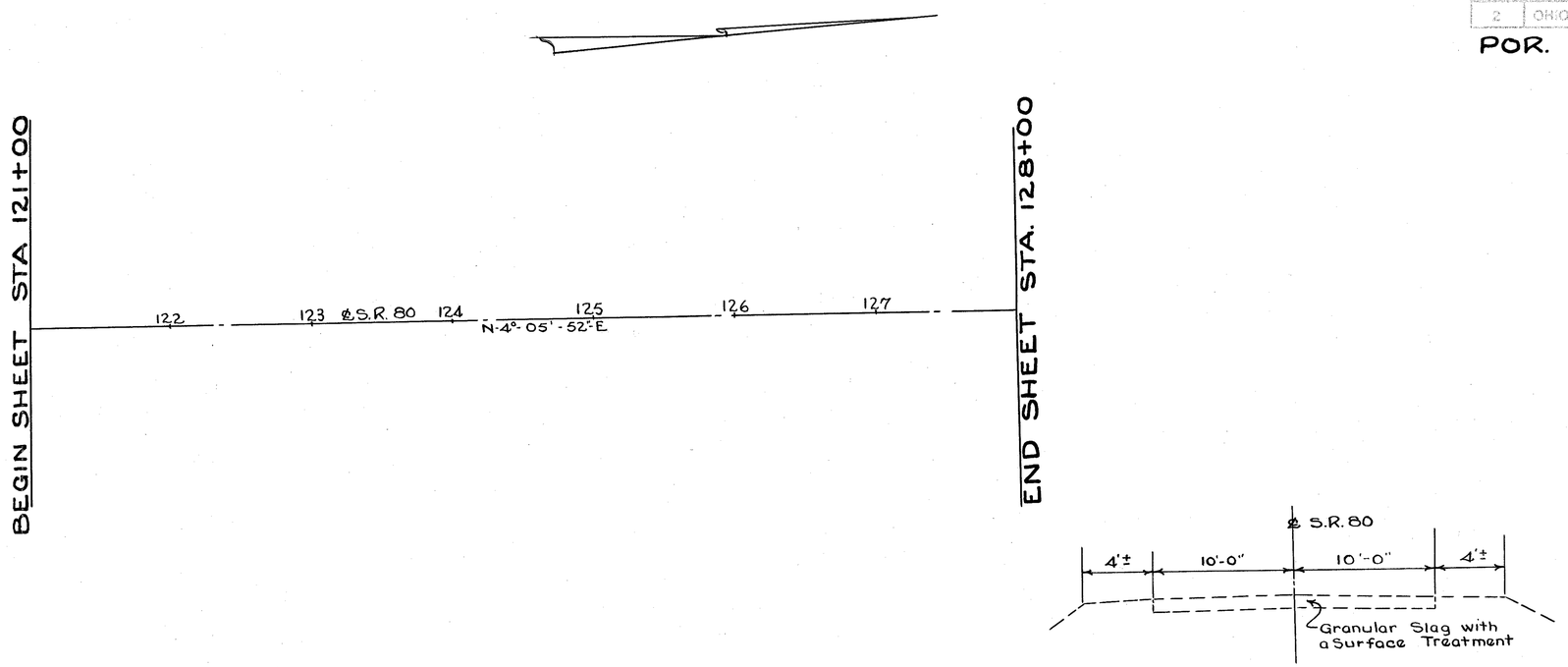
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
			ROADWAY
E-1	3153	Cu. Yds.	Roadway Excavation, as per plan
E-1	1825	Cu. Yds.	Embankment
E-9	Lump	Lump	Removal of Trees and Stumps
E-11	25	M. Gal.	Water
E-12	1112	Lin. Ft.	Pipe Removed, 15" & Under
E-12	223	Lin. Ft.	Pipe Removed, Over 15"
E-12	141	Lin. Ft.	Pipe Removed for Storage, 15" & Under
I-8	2	Each	Monument Assemblies, Standard
I-15	70.0	Lin. Ft.	Guard Rail, Steel Beam Type (Deep)
I-18	337	Cu. Yds.	Stabilized Crushed Aggregate Shoulders and Approaches.
L-9	14,366	Sq. Yds.	Seeding and Protecting
L-9	1.34	Tons	Commercial Fertilizer (10-6-4)
L-9	6.69	Tons	Agricultural Liming Material
L-10	495	Sq. Yds.	Sodding, as per plan
M-10	5	Tons	Calcium Chloride or Calcium Magnesium Chloride Furnished and Applied for Maintaining Traffic
T-10	250	Cu. Yds.	Traffic Compacted Surface Course for Maintaining Traffic
			DRAINAGE
E-2	82	Cu. Yds.	Excavation for Structures
E-3	186	Cu. Yds.	Channel Excavation
I-1	24	Lin. Ft.	12" Pipe for Driveways Sec. M-6.4 (a)
I-1	30	Lin. Ft.	15" Pipe for Driveways Sec. M-6.4 (a)
I-2	58	Lin. Ft.	36"×22" Storm Sewers, Sec. M-6.4 (i) (c)
I-2	1164	Lin. Ft.	12" Class "A" Storm Sewers
I-2	496	Lin. Ft.	12" Class "A" Storm Sewers Under Pavement or Approaches
I-2	88	Lin. Ft.	15" Class "A" Storm Sewers
I-2	54	Lin. Ft.	15" Class "A" Storm Sewers Under Pavement or Approaches
I-2	202	Lin. Ft.	24" Class "A" Storm Sewers
I-4	20	Lin. Ft.	8" Outlets for Underdrains, Sec. M-6.4 (a)
I-3	100	Lin. Ft.	6" Roadway Drainage
I-4	300	Lin. Ft.	6" Underdrains
I-5	1	Each	24" Pipe Special for Class "A" Storm Sewers
I-8	8	Each	Standard No. 2-2A Catch Basins.
I-8	5	Each	Standard No. 2-3 Catch Basins.
I-9	290	Lin. Ft.	Stone Underdrains, No. 2
I-14	145	Lin. Ft.	Standard Paved Gutter, Type 1
I-16	1	Each	Catch Basin Abandoned
S-1	22.0	Cu. Yds.	Concrete for Structures, Class "C"
S-1	69.0	Cu. Yds.	Concrete for Structures, Class "E"
S-3	69	Sq. Yds.	Waterproofing, Type "C"
S-4	7707	Lbs.	Reinforcing Steel
S-9	8	Sq. Ft.	1/4" Premolded Expansion Joint Filler, Sec. M-10.02
S-3	4	Lin. Ft.	Premolded Sealing Strip
S-14	30	Lin. Ft.	Railing, Type I-15.13 with Steel Posts.
S-22	24	Cu. Yds.	Removal of Portions of Existing Structures
S-23	90	Each	Dowel Holes
S-24	Lump	Lump	Removal of Existing Structures
S-27	60	Lin. Ft.	18" Pipe for Roadway Culverts
S-29	22	Cu. Yds.	Porous Backfill
			PAVEMENT
B-35	340	Cu. Yds.	Asphaltic Concrete Leveling Course (70-85)
B-35	274	Cu. Yds.	Asphaltic Concrete Base Course (70-85)
B-119	820	Cu. Yds.	Crushed Aggregate Base Course, as per plan.
T-30	391	Gals.	Bituminous Prime Coat, Sec. M-5.2, RC-1 or RC-2; or Sec. M-5.3, MC-0 or MC-1
T-35	397	Cu. Yds.	Asphaltic Concrete Surface Course Type "A" (70-85)
I-22	808	Cu. Yds.	Subbase, as per plan.

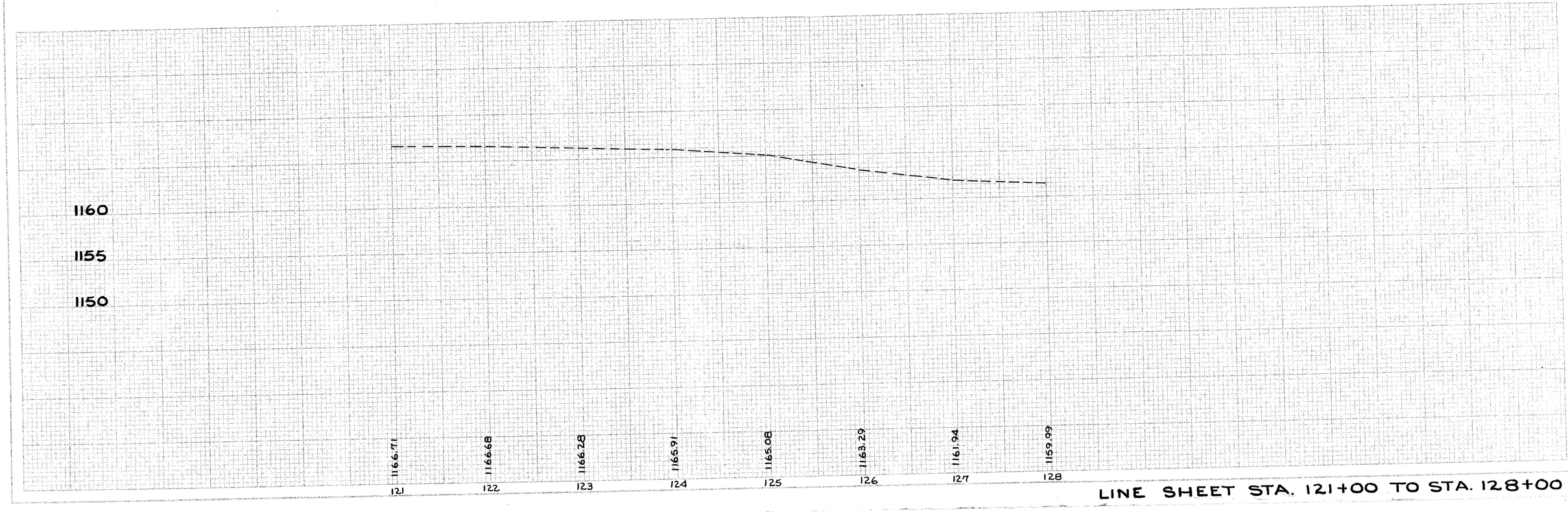
GENERAL SUMMARY

FED. RD. DIVISION 2 | STATE OHIO | PROJECT

PORTAGE COUNTY
POR-80-2.48

5
2.5





LINE SHEET STA. 121+00 TO STA. 128+00

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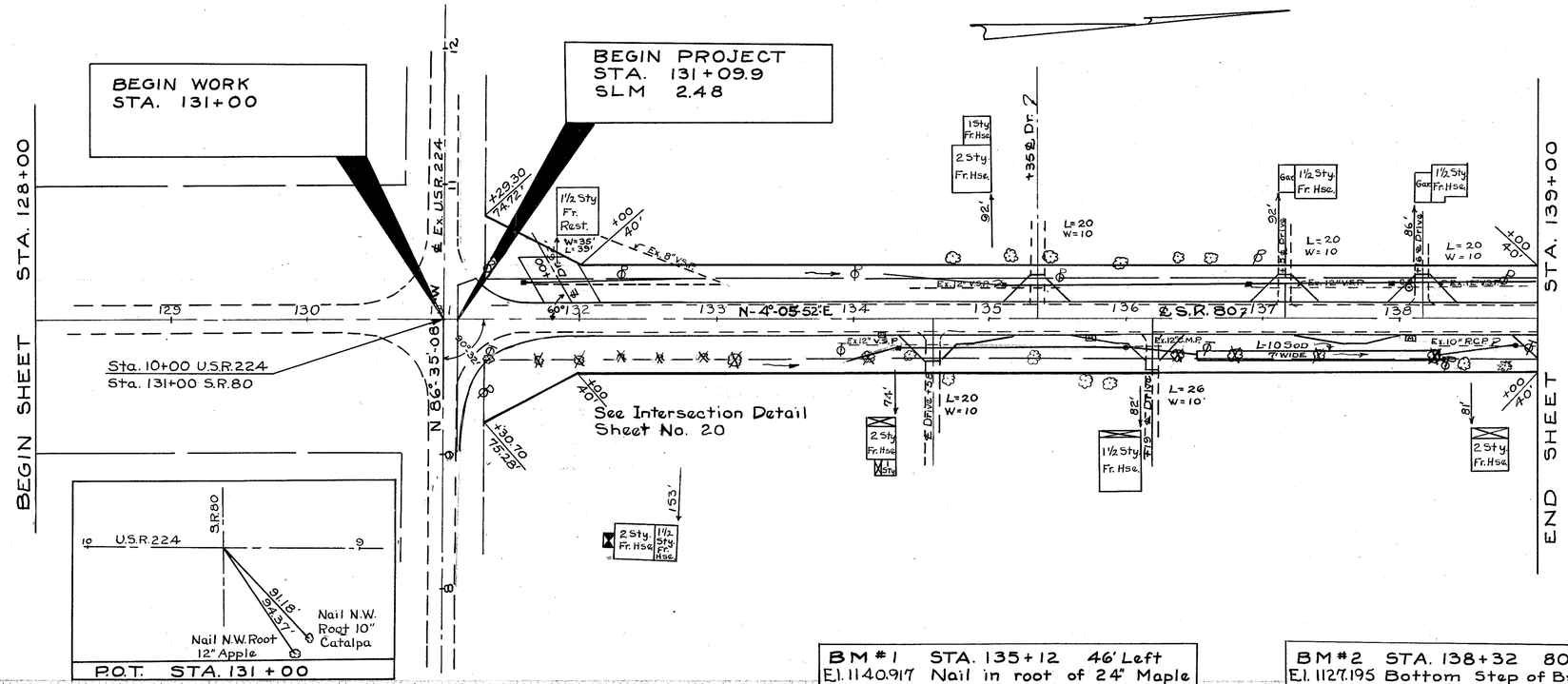


MONUMENTS			
STATION	SIDE	I-8 MON. ASSY. EA.	I-8 MON BOX EA.
131+00	℄	1	
TOTAL		1	

DRIVES				
STATION	TYPE	SIDE	B-119 5" C.Y.	T-35 2" C.Y.
132+00	Spec.	Lt.	21.6	8.6
134+58	Comb.	Rt.	11.1	4.4
135+35	Res.	Lt.	9.3	3.7
136+19	Comb.	Rt.	11.8	4.9
137+15	Res.	Lt.	9.3	3.7
137+66	M.B.	Rt.	4.5	1.8
138+16	Res.	Lt.	9.3	3.7
TOTAL			76.9	30.8

SODDING			
STATION FROM	STATION TO	SIDE	L-10 7' WIDE S.Y.
136+52	138+30	Rt.	138
TOTAL			138

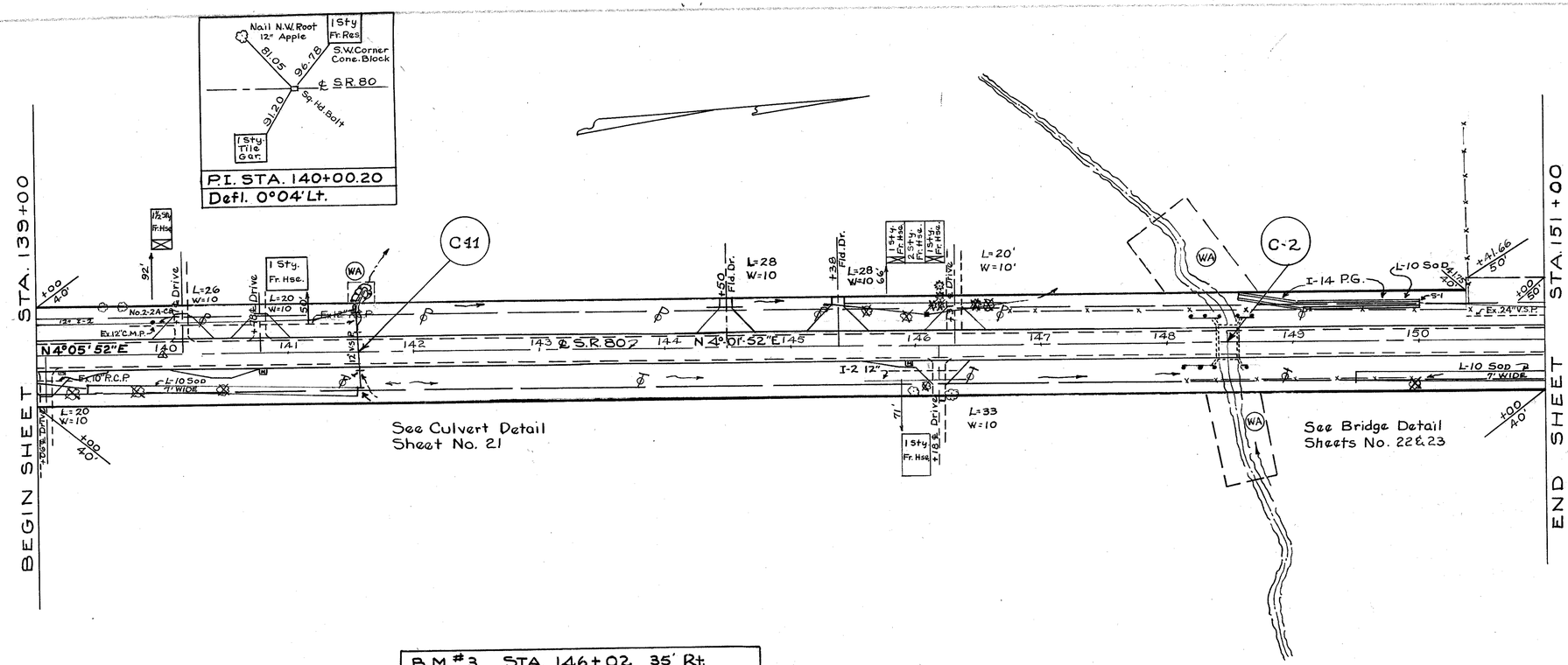
DRAINAGE													
STATION		SIDE	I-2 Cl. "A" 12" L.F.	12" U.A. L.F.	15" L.F.	15" U.A. L.F.	I-8 2-2A C.B. EA.	2-3 C.B. EA.		I-16 Abn. C.B. EA.			E-12 Pipe Rem. & Storage 15" & Under L.F.	Pipe Rem. 15" & Under L.F.
FROM	TO													
133+94	134+30	Rt.			34		1							36
134+20	139+00	Lt.	366	108			2	1		1				320
134+30	136+52	Rt.	150	70				1					37	64
138+30	139+00	Rt.			54	14	1							72
131+70	133+09	Lt.												139
131+59	133+00	Lt.	90	50			1							
TOTAL			606	228	88	14	5	2		1			37	631

LINE SHEET STA. 128 TO STA. 139+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

8
25

POR.-80-2.48



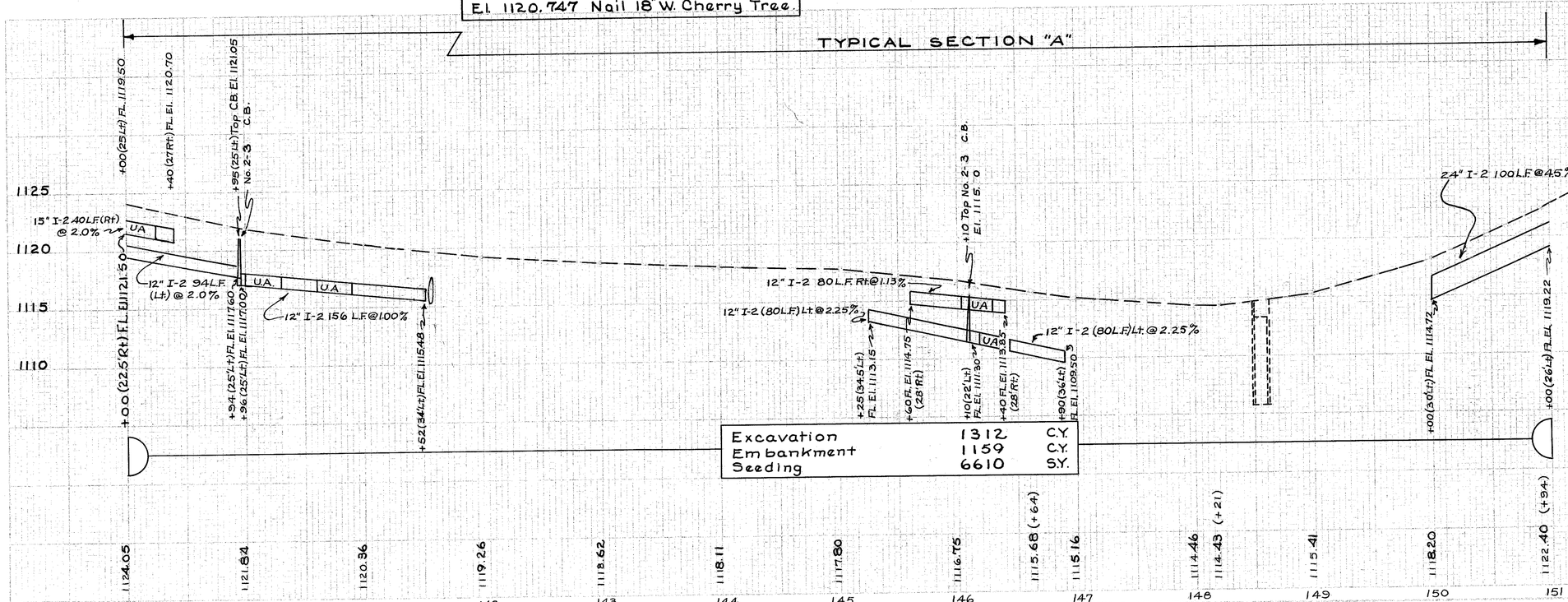
MONUMENTS			
STATION	SIDE	I-8 MON. ASSY. EA.	I-8 MON. BOX EA.
140+00.20	℄	1	
TOTAL		1	

DRIVES					
STATION	TYPE	SIDE	B-119 5" C.Y.	T-35 2" C.Y.	I-1 12" L.F.
139+06	Comb.	Rt.	11.1	4.4	
140+17	Res.	Lt.	10.2	4.2	
140+50	M.B.	Rt.	11.1	4.4	
140+78	Res.	Lt.	9.3	3.7	
146+18	Comb.	Rt.	12.1	5.6	
146+31	Res.	Lt.	9.3	3.7	
144+50	Fld.	Lt.	8.9*		24
145+38	Fld.	Lt.	8.9*		
TOTAL			80.9	26.0	24

*Note: These drives to be built of 6" of B-119

DRAINAGE											
STATION		SIDE	I-2 C.I.A.			I-8	E-12			I-2 C.I.A.	S-1
			12"	12" U.A.	24"	2-3 C.B.	Pipe Rem. over 15"	Pipe Rem. 15" & under	Pipe Rem. & Store	15" U.A.	Conc. End Wall
FROM	TO		L.F.	L.F.	L.F.	EA	L.F.	L.F.	L.F.	L.F.	
139+00	139+40	Rt.						38		40	
139+00	141+52	Lt.	190	60		1		68	104		
145+60	146+40	Rt.	40	40				55			
145+25	146+90	Lt.	102	60		1					
150+00	151+00	Lt.			100		62				0.41
TOTAL			332	160	100	2	62	161	104	40	0.41

B.M. #3 STA. 146+02 35' Rt.
El. 1120.747 Nail 18" W. Cherry Tree.



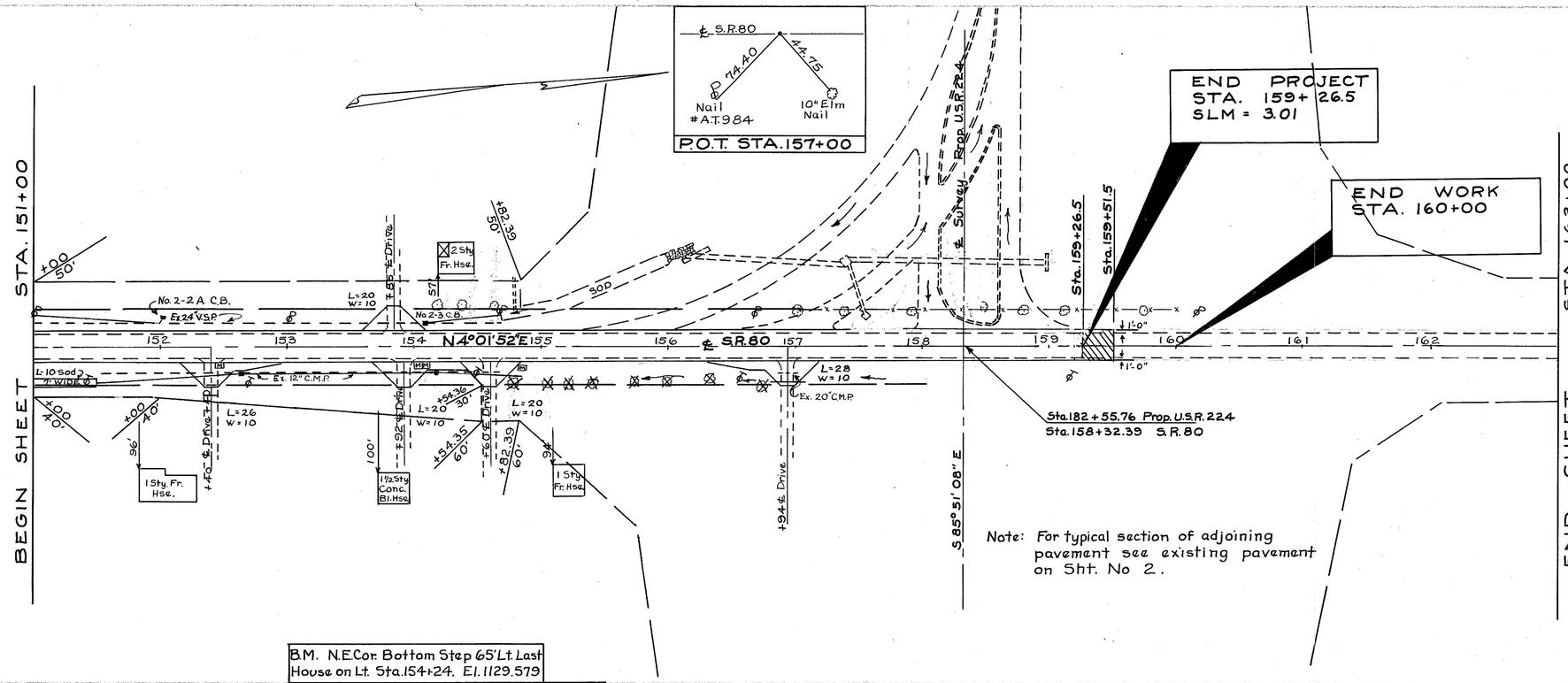
Excavation	1312	C.Y.
Embankment	1159	C.Y.
Seeding	6610	S.Y.

SODDING & PAVED GUTTER					
STATION		SIDE	L-10 SOD 7' Wide S.Y.	I-14 TYPE "1" L.F.	L-10 for I-14 1' Wide S.Y.
FROM	TO				
139+40	141+57	Rt.	169		
148+56	150+00	Lt.		145	32
149+50	151+00	Rt.	116		
TOTAL			285	145	32

I-15 GUARD RAIL			
STATION		SIDE	I-15
FROM	TO		L.F.
148+13.46	148+63.46	Rt.	50.00
148+19.42	148+69.42	Lt.	50.00
Deduct for Bridge		Lt. & Rt.	30.00
Total for Roadway			70.00

LINE SHEET STA. 139+00 TO STA. 151+00

POR.-80-2.48



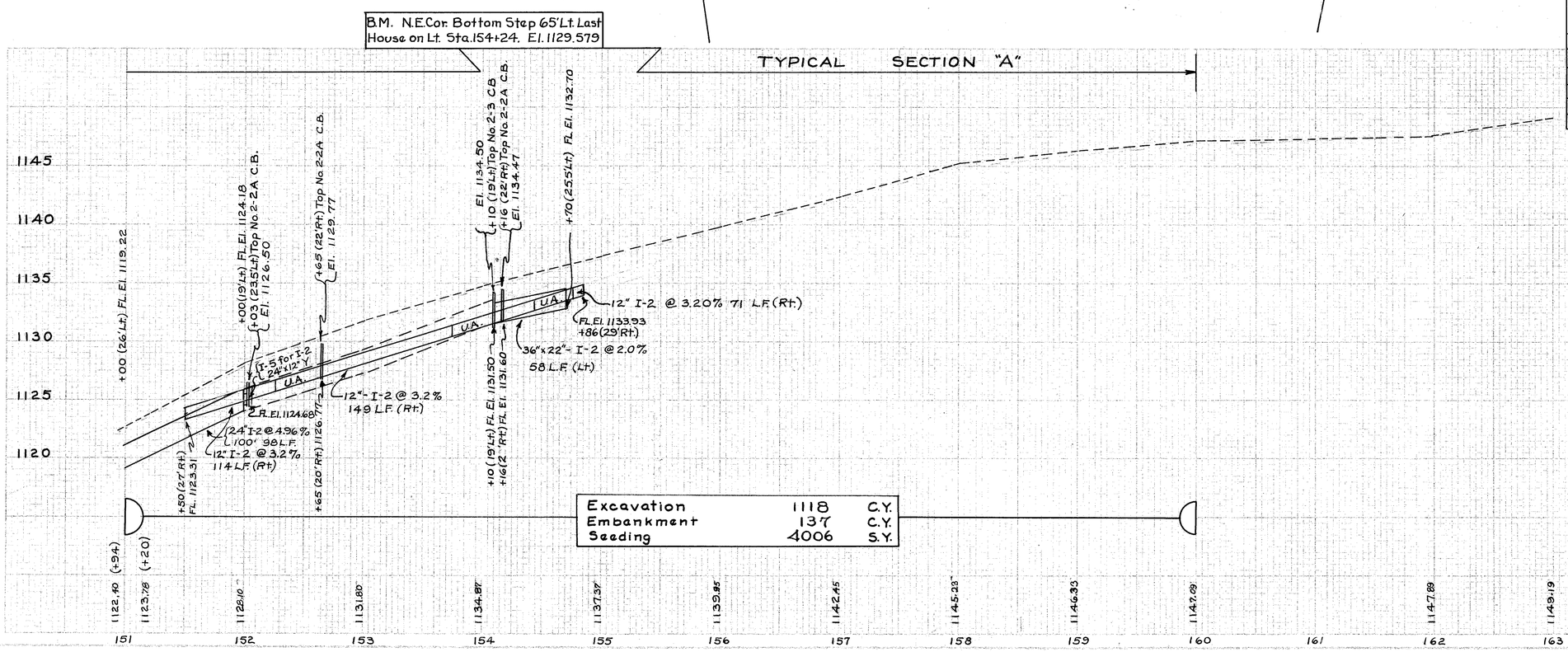
Note: For typical section of adjoining pavement see existing pavement on Sht. No 2.

DRIVES					
STATION	TYPE	SIDE	B-119 5" C.Y.	T-35 2" C.Y.	I-1 15" L.F.
152+40	Comb	Rt.	11.7	4.9	
153+85	Res.	Lt.	9.3	3.7	
153+92	Comb	Rt.	9.3	3.7	
154+60	Comb	Rt.	14.3	5.7	
156+94	Comb	Rt.	11.8	5.1	30
TOTAL			56.4	23.1	30

MONUMENTS			
STATION	SIDE	I-8 Mon. Ass'y. E.A.	I-8 Mon. Box E.A.
TOTAL			

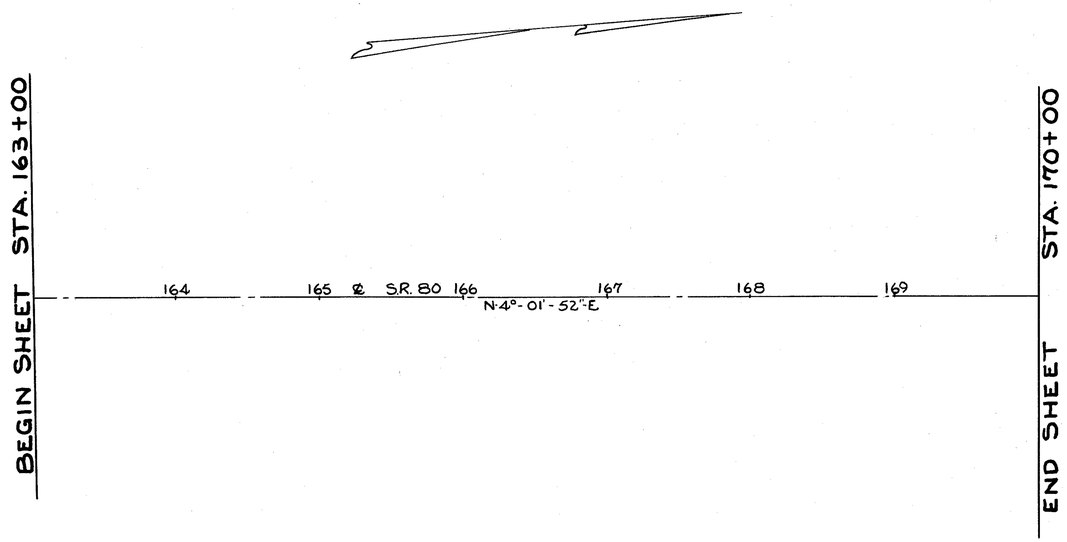
L-10 SOD			
STATION		Side	L-10 7' Wide S.Y.
FROM	TO		
151+00	151+50	Rt.	40
TOTAL			40

DRAINAGE										
STATION		Side	I-2 TYPE "A" 36"x22" L.F.	I-2 24" L.F.	I-2 TYPE "A" 12" L.F.	I-2 TYPE "A" 12" U.A. L.F.	I-8 2-2A C.B. E.A.	I-8 #2-3 C.B. E.A.	E-12 Pipe Rem. L.F.	E-12 I-5 for I-2 24"x 12" W/Y E.A.
FROM	TO									
151+50	154+86	Rt.			226	108	2		320	
154+10	154+70	Lt.	58					1		
151+00	152+00	Lt.		98						1
152+00	152+03	Lt.		4			1			
TOTAL			58	102	226	108	3	1	320	1

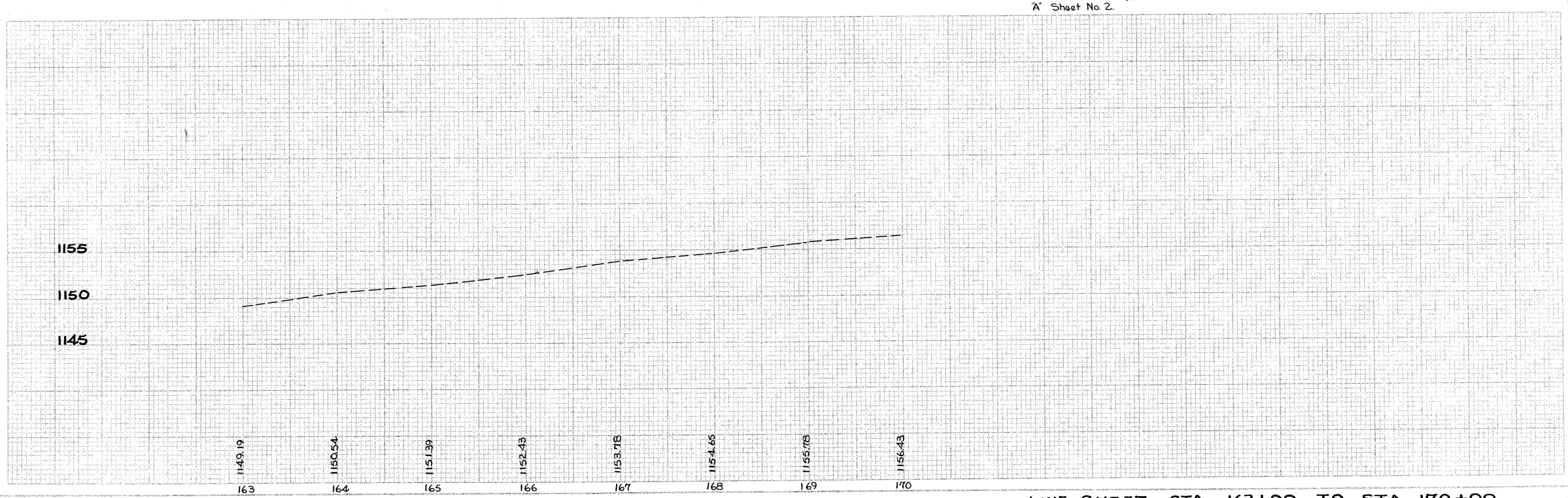


Excavation	1118	C.Y.
Embankment	137	C.Y.
Seeding	4006	S.Y.

LINE SHEET STA. 151+00 TO STA. 163+00

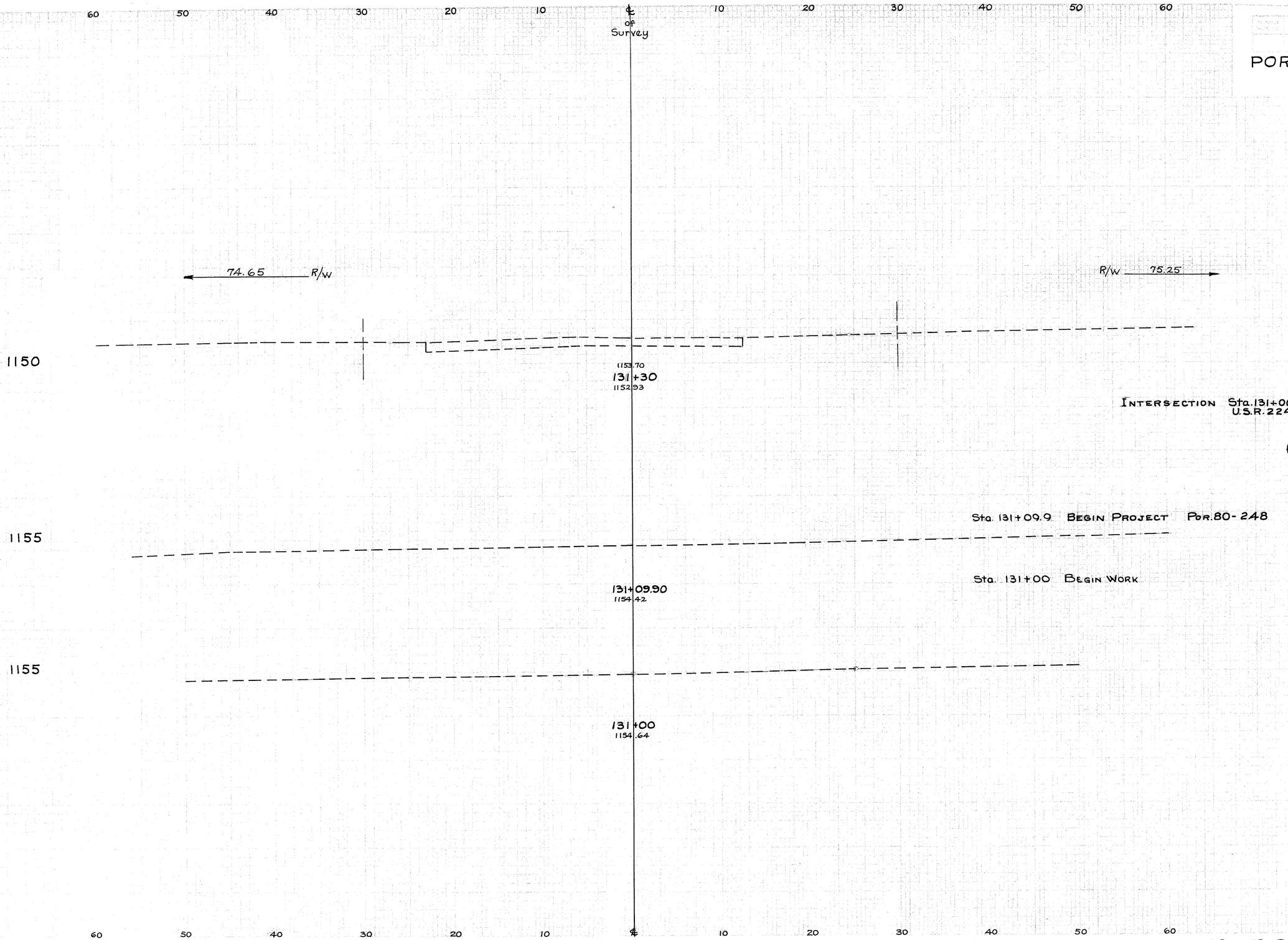


NOTE : For Typical Section of adjoining Pavement see Typical Section "A" Sheet No. 2.



LINE SHEET STA. 163+00 TO STA. 170+00

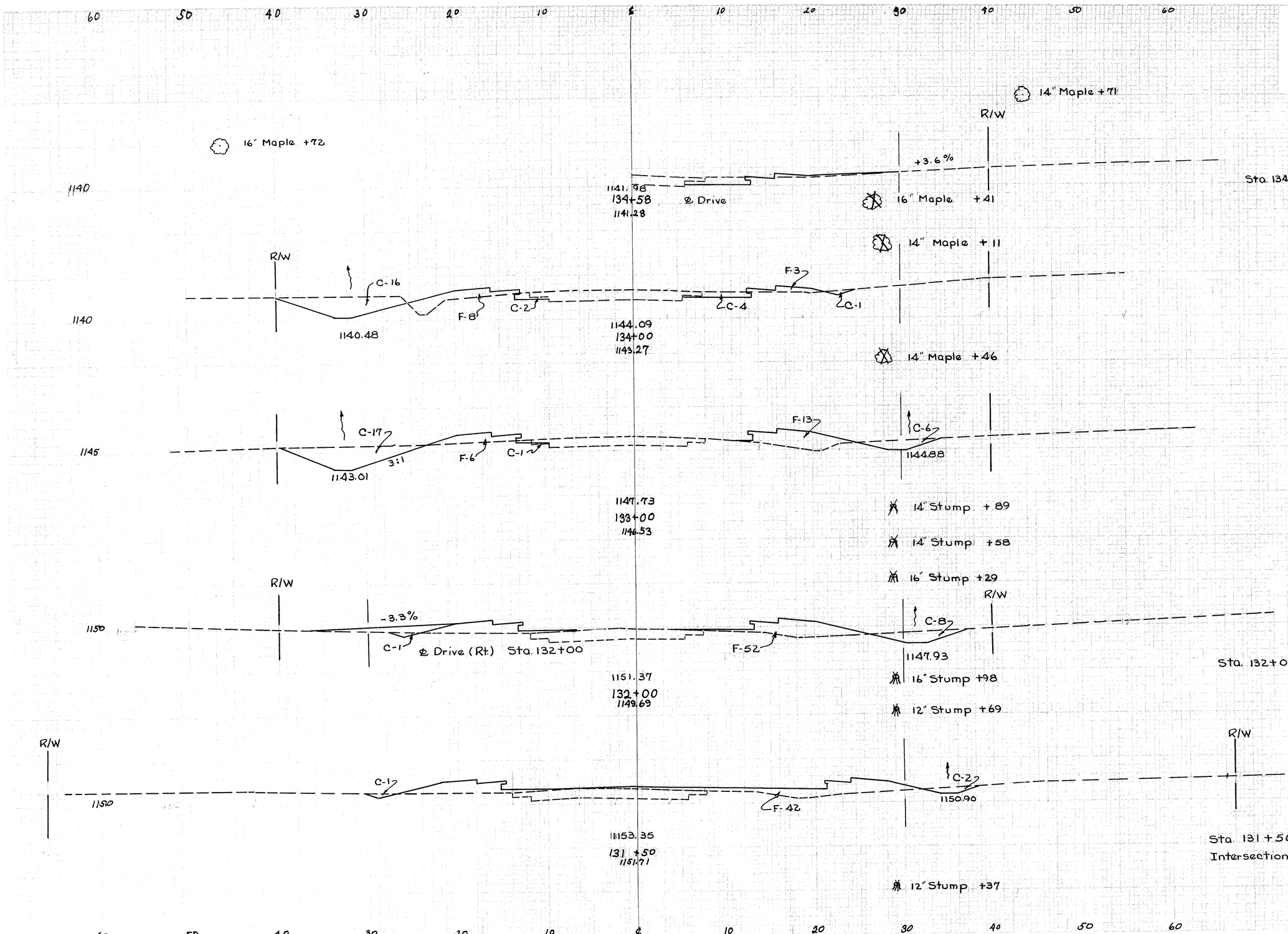
POR. 80 - 2.48



Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	(214)			(35)	(49)

CROSS SECTIONS STA. 131+00 TO STA 131+30

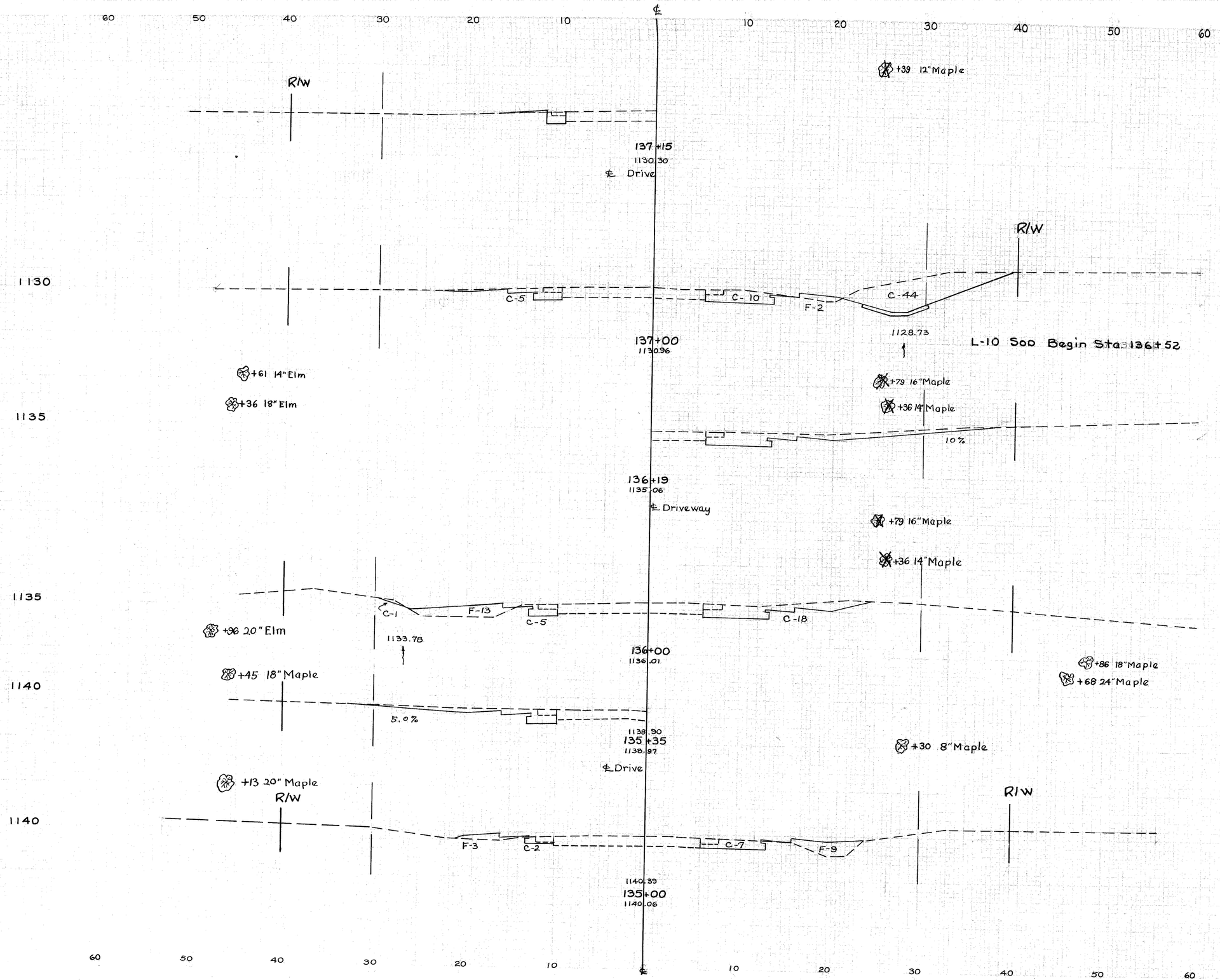
POR- 80 ~ 248



CROSS SECTIONS STA 131+50 TO STA. 134+50

		Seeding		End Area		Cu. Yds.	
		L.F.	S.Y.	Cut	Fill	Exc.	Emb.
Sta. 134+58	Dr. Rt.					(0)	(3)
		50		11	23		
			556			50	83
		50		19	24		
			556			52	141
		50		9	52		
Sta. 132+00	Dr. Lt.					(0)	(13)
			278			11	87
Sta. 131+50 Intersection	AHEAD	50		3	42		
	BACK						

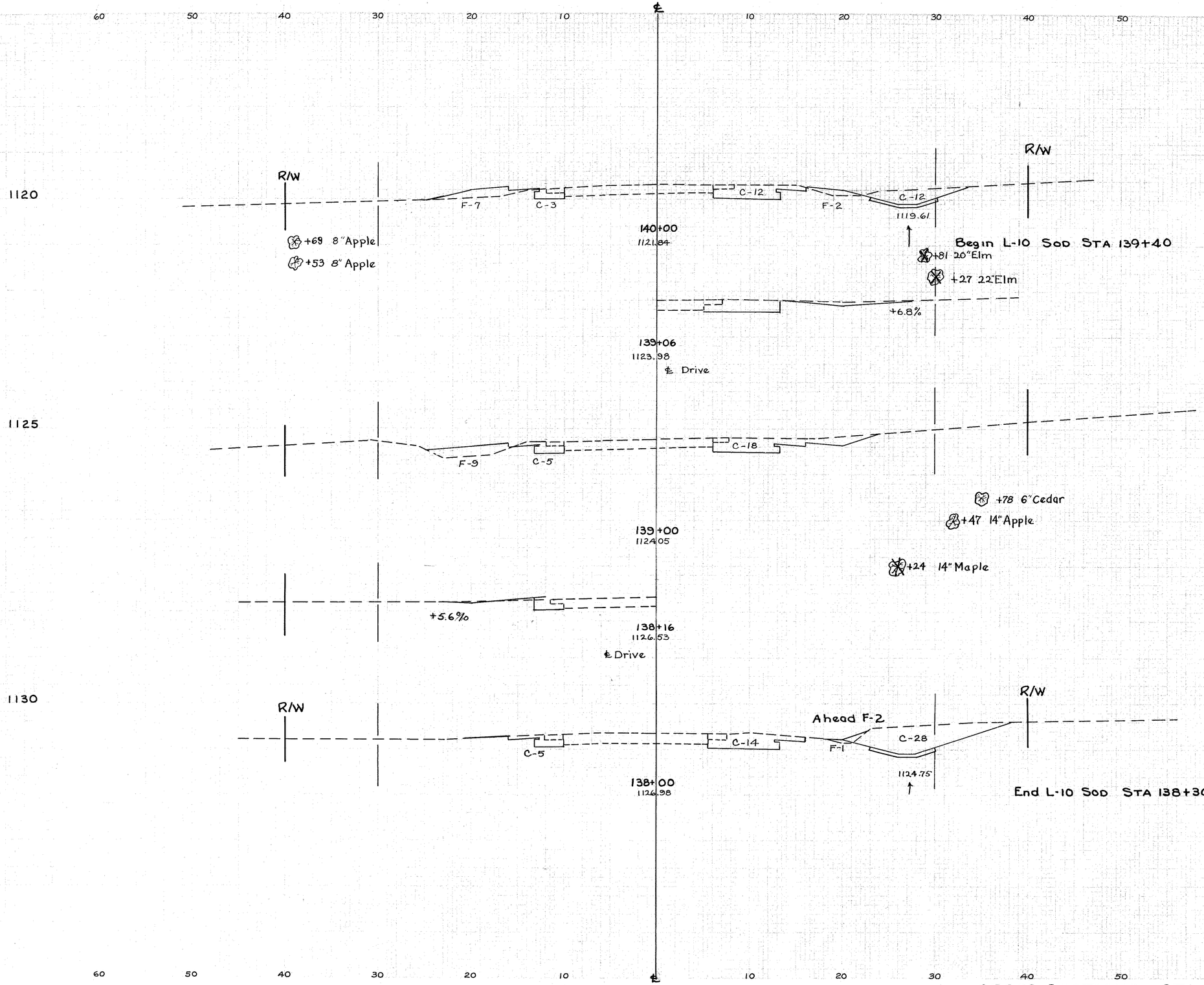
POR. 80 2.48



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
STA 137+15 Dr. Lt.					(1)	(1)
	50		59	2		
		556			174	20
STA 136+19 Dr. Rt.					(7)	(0)
	50		24	13		
		567			81	39
STA 135+35 Dr. Lt.					(3)	(0)
	52		9	12		
		578			37	65
Sta.- 134+00	50		11	23		

Excavation	723 C.Y.
Embankment	529 C.Y.
Seeding	4311 S.Y.

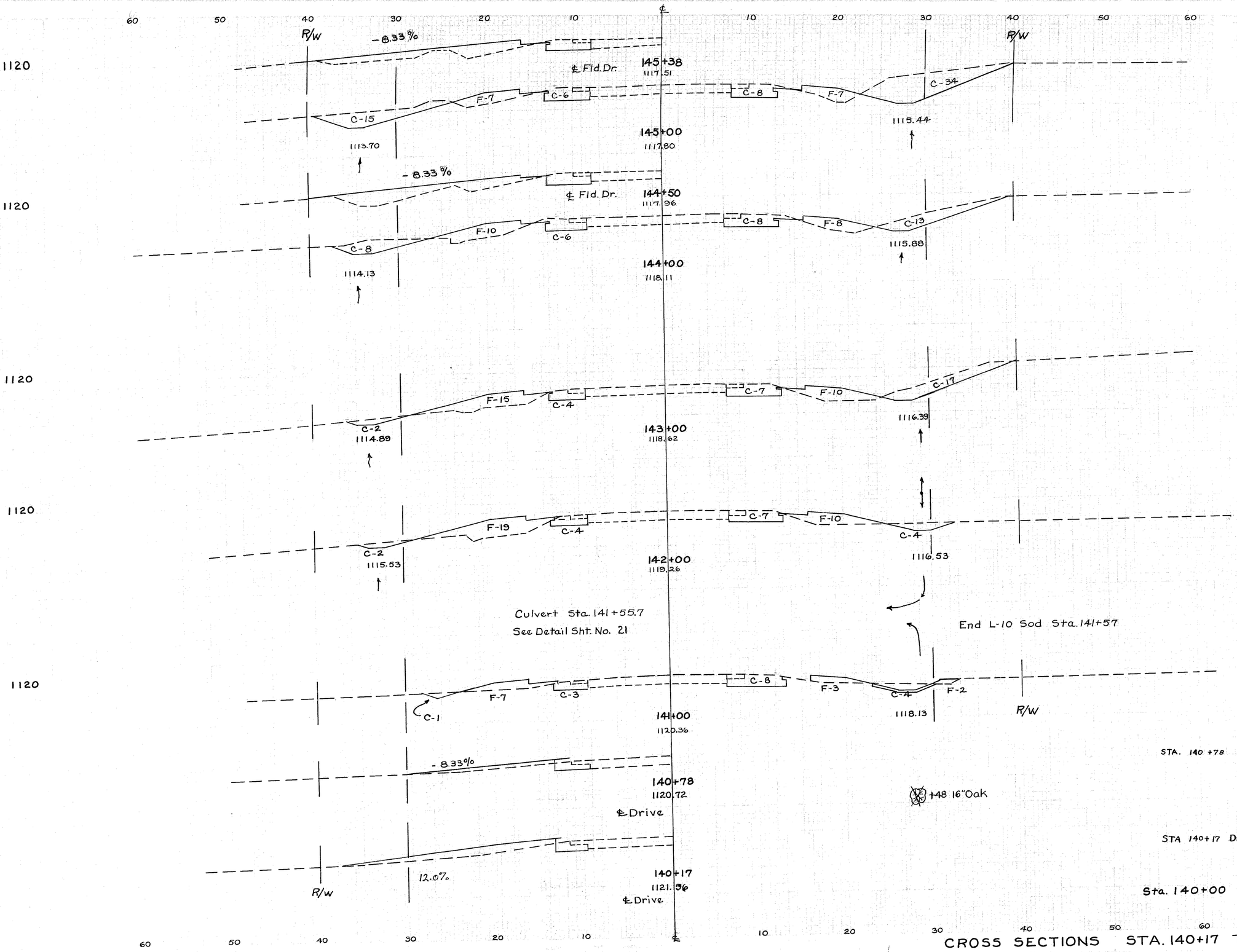
POR. 80 2.48



	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	50		28	9		
		556			93	30
STA. 139+06 Dr. (Rt)					(3)	(0)
	50		23	9		
		467			78	22
STA 138+16 Dr. Lt.					(1)	(0)
Ahead	34		19	3		
Back	42		47	1		
		539			193	6
Sta. 137+00	55		59	2		

CROSS SECTIONS STA. 138+00 TO STA. 140+00

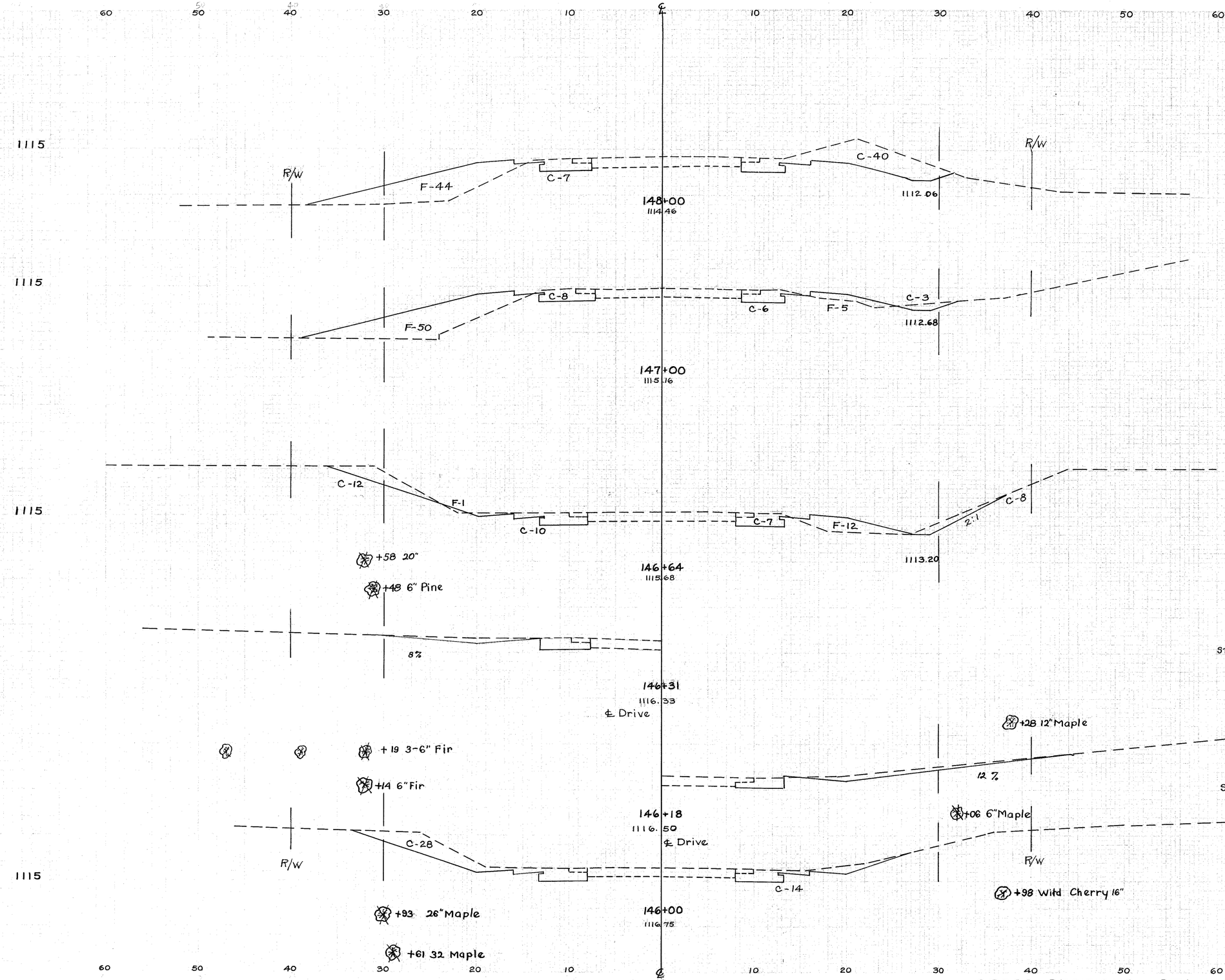
POR.80 - 2.48



Seeding		End Area		Cu. Yd.		
L.F.	S.Y.	Cut	Fill	Exc.	Emb.	
50		63	14			
	550			187	59	
49		35	18			
	550			126	80	
50		30	25			
	556			87	100	
50		17	29			
	556			59	76	
50		16	12			
STA. 140+78 Dr. Lt.				(0)	(3)	
	528			78	39	
STA 140+17 Dr. Lt.				(0)	(9)	
Sta. 140+00						
45		27	9			

CROSS SECTIONS STA. 140+17 TO STA. 145+00

POR. 80-2.48

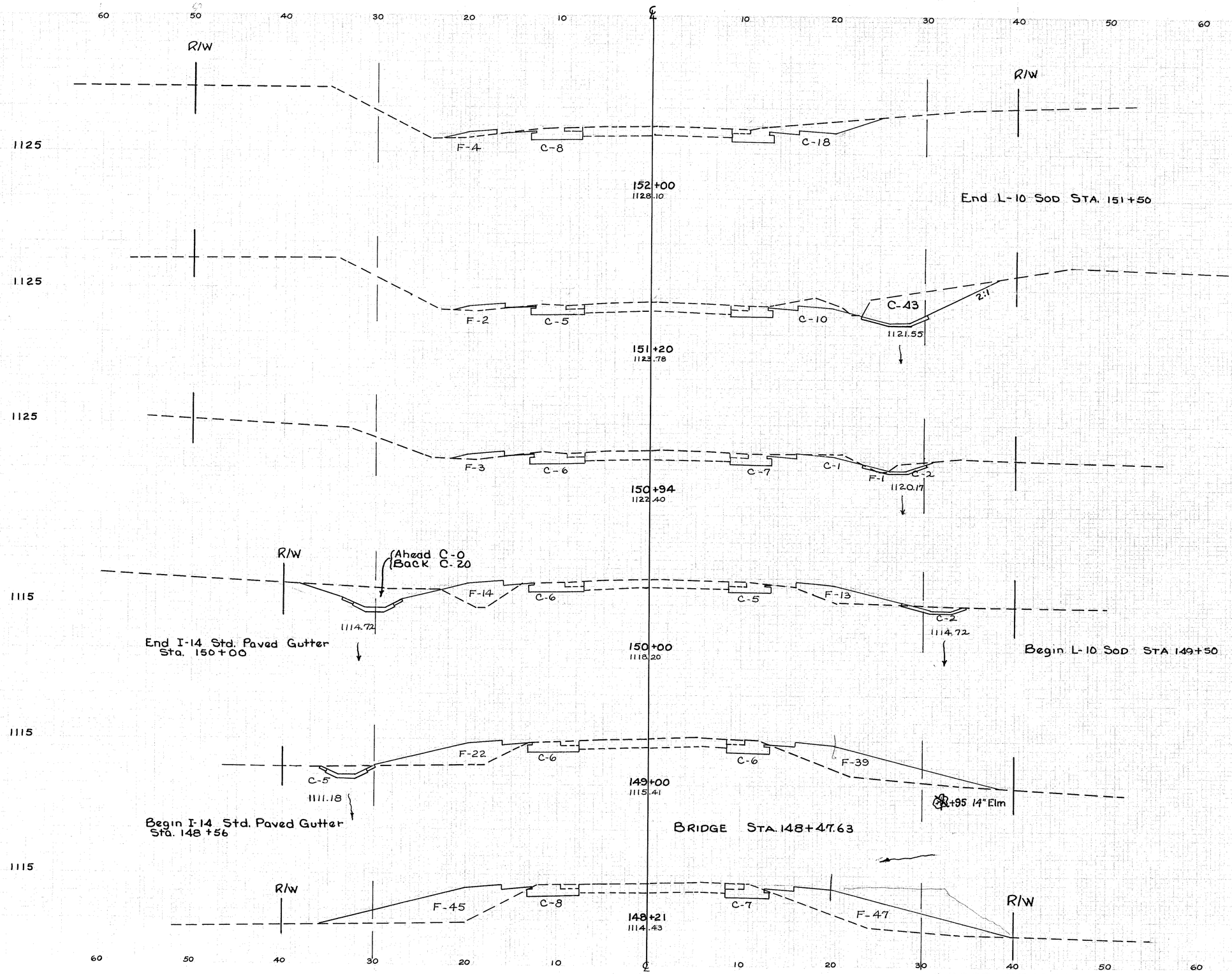


	C.Y.	C.Y.	S.Y.
Excavation	1312		
Embankment	1159		
Seeding	6610		

	Seeding		End Area		Cu. Yds.	
	L.F	S.Y.	Cut	Fill	Exc.	Emb.
	49		47	44		
		561			119	183
	52		17	55		
		204			29	45
	50		37	13		
		356			94	15
Sta. 146+31 Dr. Lt.					(6)	(0)
Sta. 146+18 Dr Rt.					(20)	(0)
	50		42	0		
		556			194	26
Sta. 145+00	50		63	14		

CROSS SECTIONS STA. 146+00 TO STA. 148+00

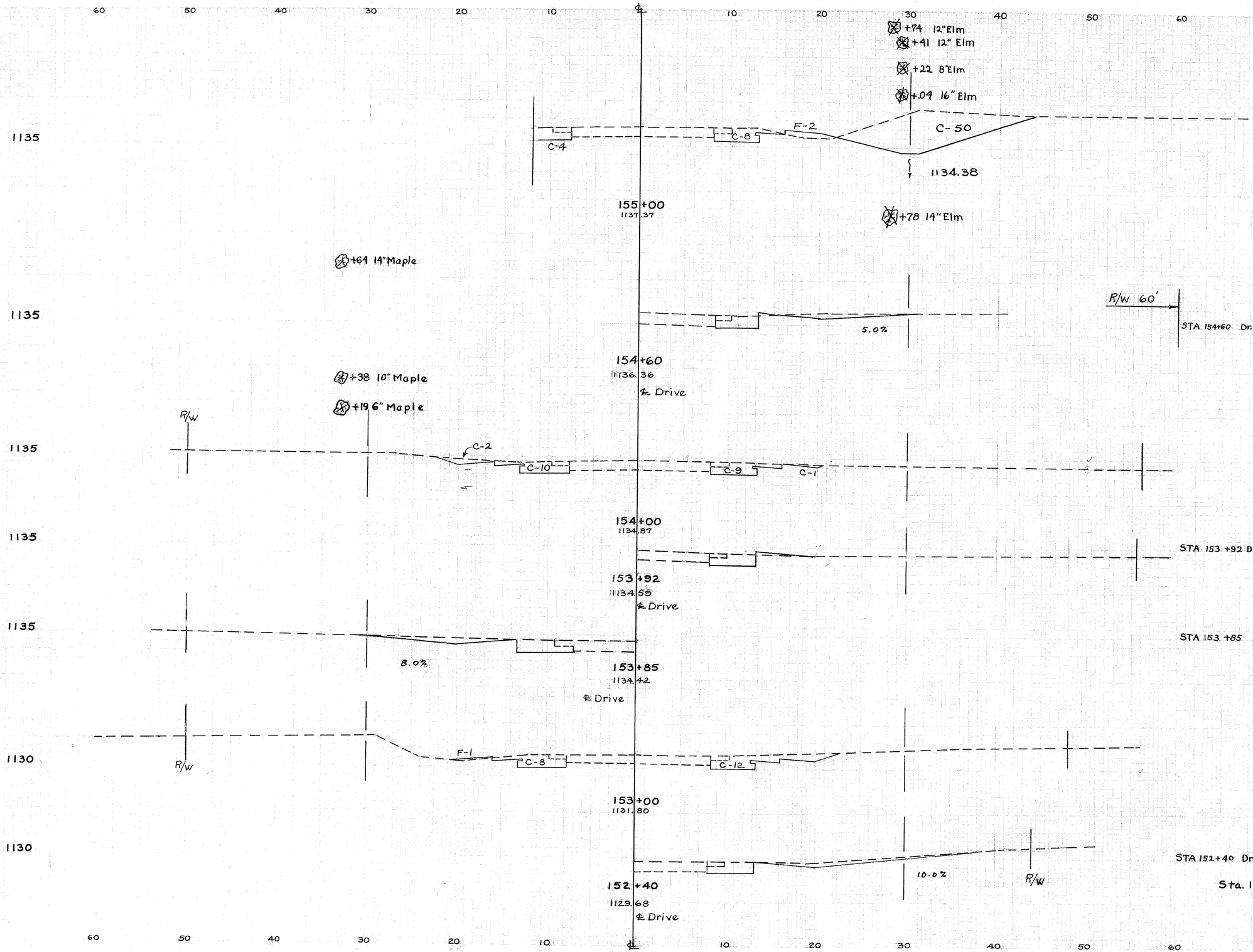
POR. 80 2.48



Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
50		26	4		
	449			125	9
51		58	2		
	145			36	3
50		16	4		
	527			54	54
Sta 150+00 Ahead		14	27		
Back 51		34	27		
	561			92	163
50		17	61		
	435			47	224
49		15	92		
	114			24	53
Sta. 148+00 49		47	44		

CROSS SECTIONS STA. 148+21 TO STA. 152+00

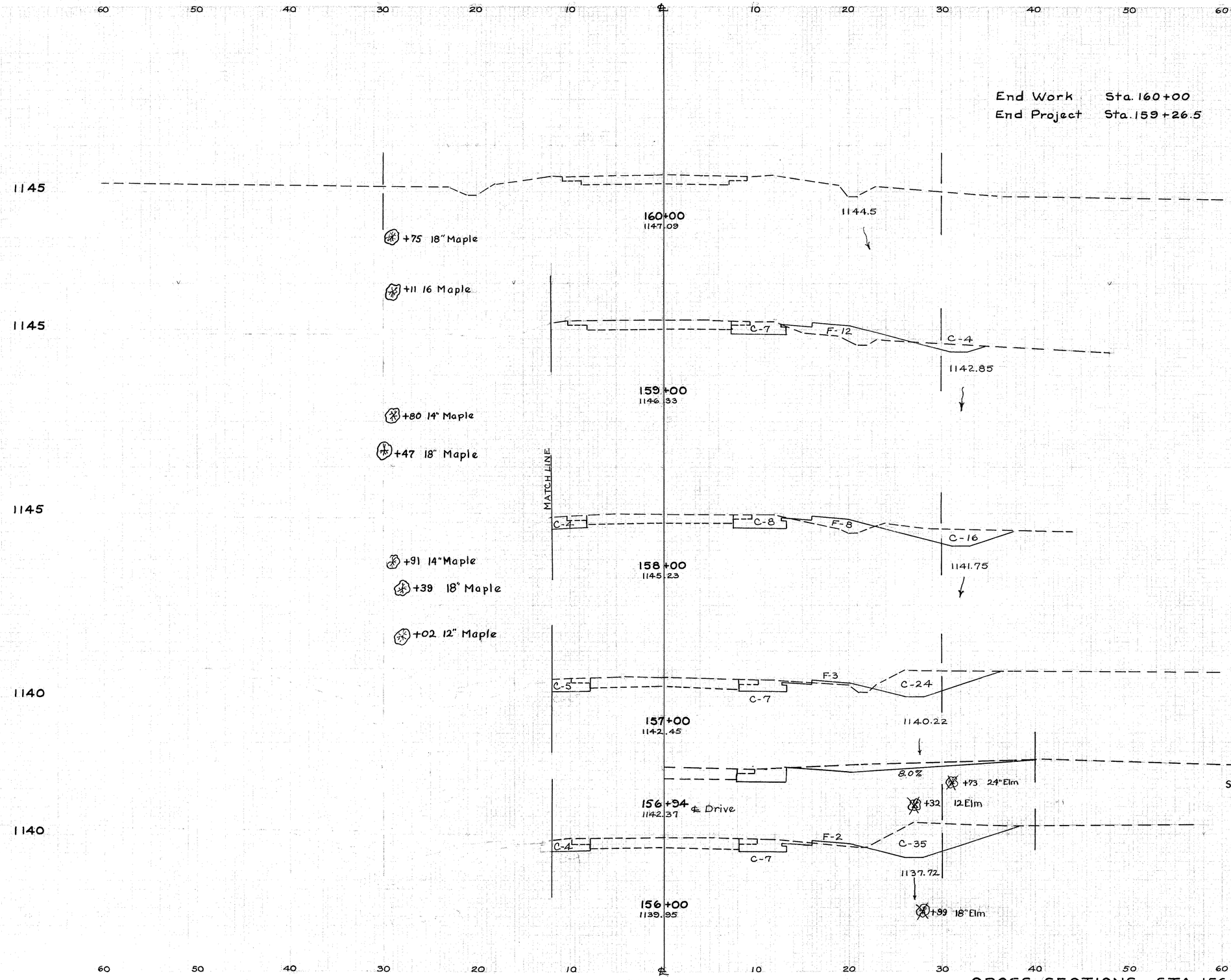
POR. 80-2.48



Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
38		62	2		
	539			156	4
				(18)	(0)
49		22	0		
				(16)	(0)
	550			78	2
				(20)	(0)
50		20	1		
	556			85	9
				(18)	(0)
50		26	4		

CROSS SECTIONS STA. 152+40 TO STA. 155+00

POR. 80 - 2.48



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
Sta. 160+00	0		0	0		
		194			20	22
	35		11	12		
		389			72	37
	35		28	8		
		389			119	20
	35		36	3		
		389			152	9
STA 156+94 Dr. Rt.					(3)	(15)
	35		46	2		
		406			200	.7
Sta. 155+00	38		62	2		

Excavation 1118 C.Y.
Embankment 137 C.Y.
Seeding 4006 S.Y.

CROSS SECTIONS STA. 156+00 TO STA. 160+00

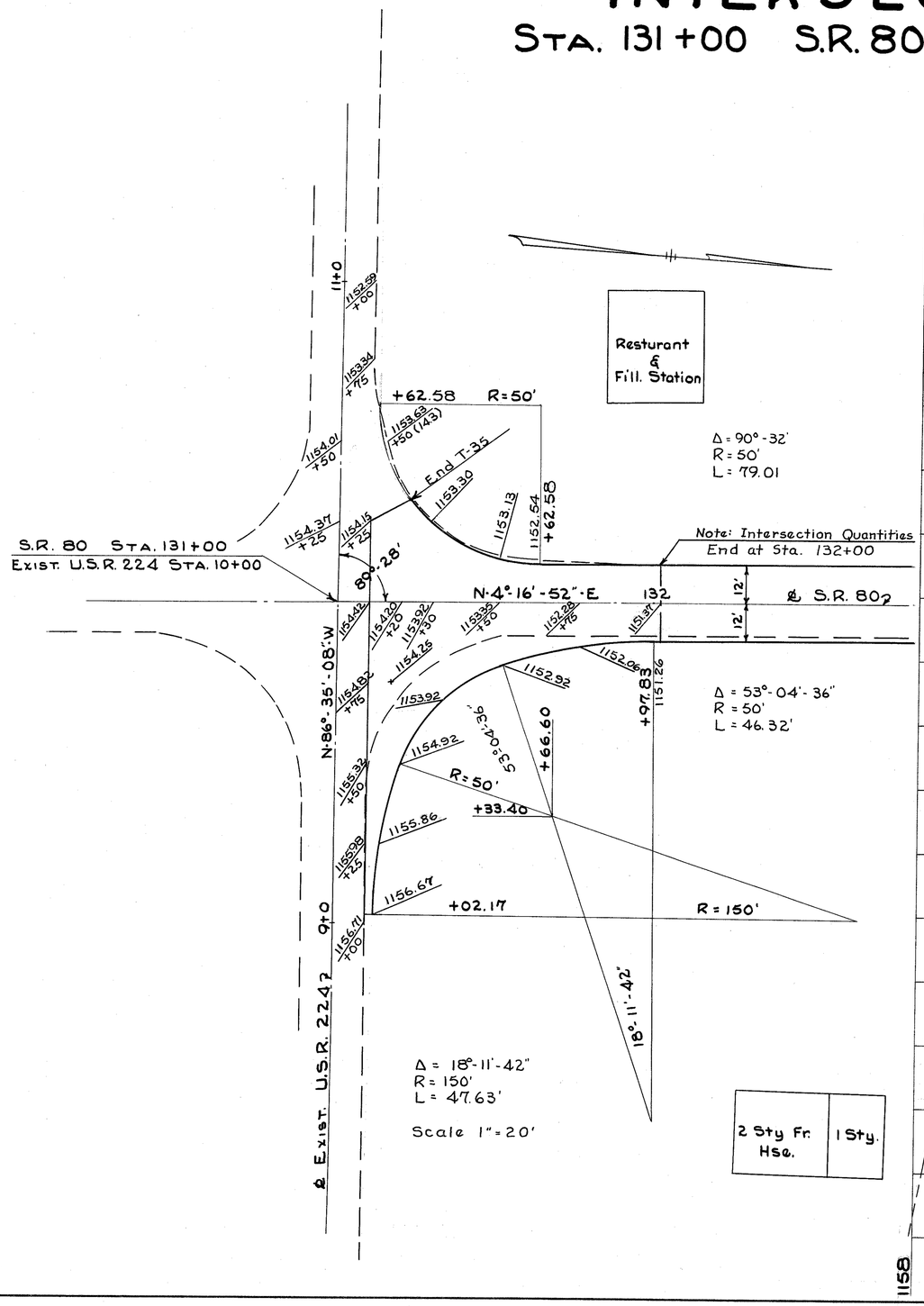
INTERSECTION DETAILS

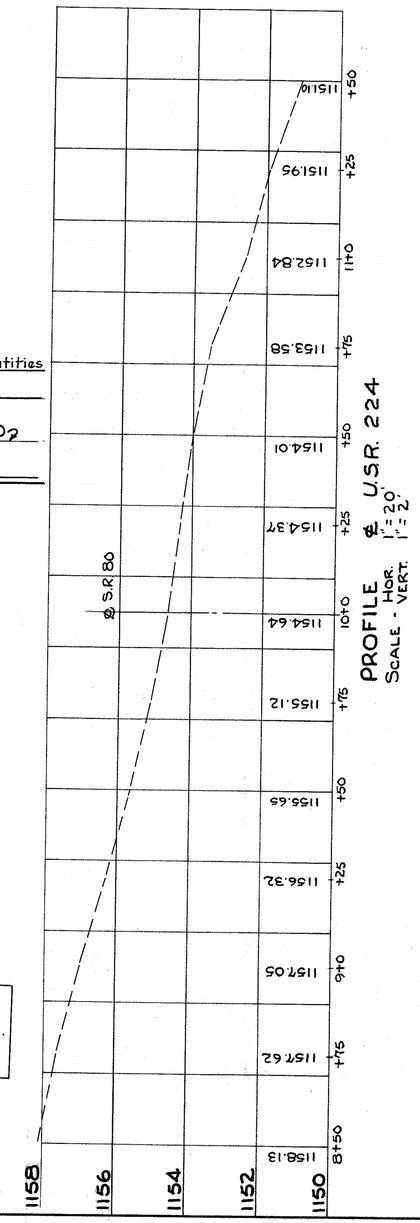
STA. 131+00 S.R. 80 & STA. 10+00 U.S.R. 224

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

20/25

POR. - 80-2.48





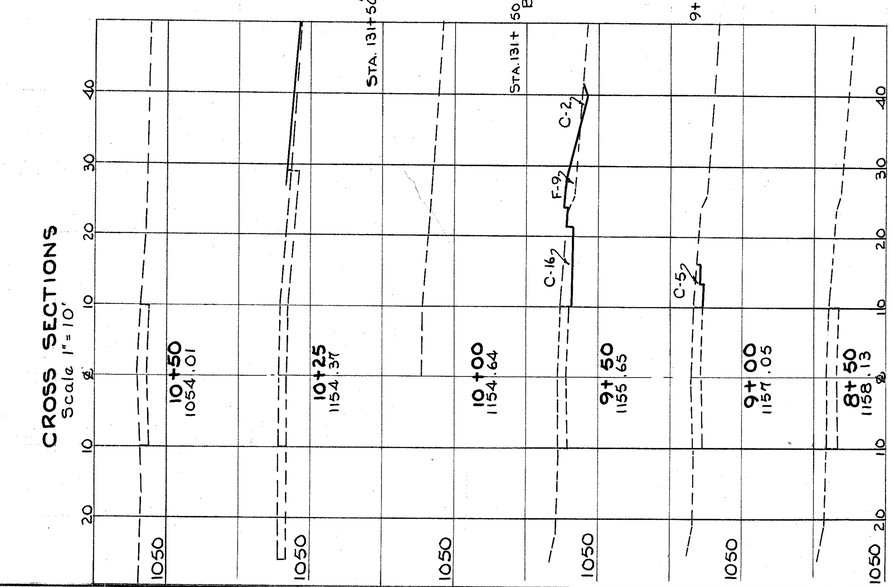
ESTIMATED QUANTITIES

★	E-1	Roadway Excavation	35 C.Y.
★	E-1	Roadway Embankment	49 C.Y.
	T-35	1½" Asphaltic Concrete Surface Course	18.0 C.Y.
	B-35	1¼ Asphaltic Concrete Leveling Course	14.8 C.Y.
	B-35	2¾" Asphaltic Concrete Base Course	31.6 C.Y.
	B-119	6" Crushed Aggregate Base Course	61.3 C.Y.
	I-22	8" Subbase	70.1 C.Y.
	L-9	Seeding	214 S.Y.
+	T-30	Bituminous Prime Coat	12.7 Gal.
	I-18	6" Stabilized Crushed Aggregate Shoulders & Approaches	11 C.Y.

+ Applied at 0.35 Gal. per S.Y.

★ Note: Earthwork and Seeding Quantities carried to Cross Sections.

	Seeding		End Area		Cu. Yds.		
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.	
+32	0	0	0	0	0	1	
+25	0	0	0	5	0	9	
Ahead 50 S.R. 80	0	0	0	16	0	0	
Sta. 131+50 S.R. 80 Back	25	136	0	26	15	31	
+50	28	78	18	9	20	8	
9+02.17	0		5	0			
TOTAL	214		35		35	49	



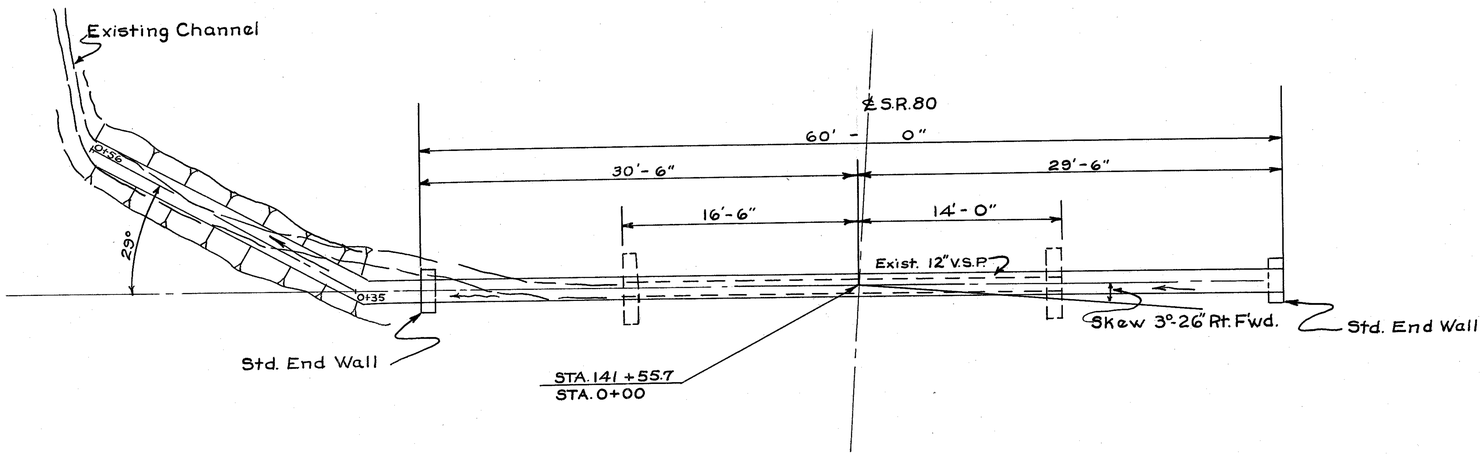
INTERSECTION DETAILS STA. 131+00 - S.R. 80

STRUCTURE NO. POR.-80-0264 STA. 141 + 55.7

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

21/25

POR. 80 - 2.48



PLAN VIEW

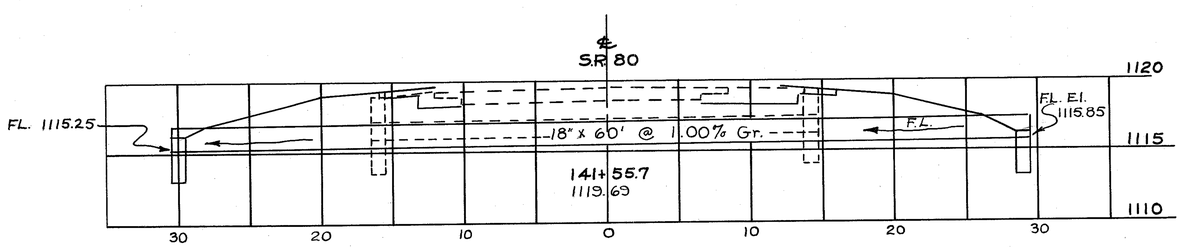
Scale ~ 1" = 5' 0"

CULVERT DATA

DRAINAGE AREA: 8 Acres
TYPE: Standard Pipe Culvert
SIZE: 18" x 60'-0"
SKEW: 3°-26" Rt. Forward
STD. DWGS: S-27 P.C. 3; S 27 P.C. 4
WORK REQUIRED: Remove the existing structure, 12" x 30'-6" V.S.P. with concrete headwalls on both sides. Build 18" x 60'-0" Std. Pipe Culvert with end walls at both ends. Clean out channel on left as shown.

ESTIMATED QUANTITIES

S-1	Concrete End Walls	0.60	C.Y.
E-2	Structure Excavation	6.00	C.Y.
E-3	Channel Excavation	3	C.Y.
S-24	Removal Exist. Structure	Lump	Sum
S-27	18" Pipe for Roadway Culvert	60	L.F.

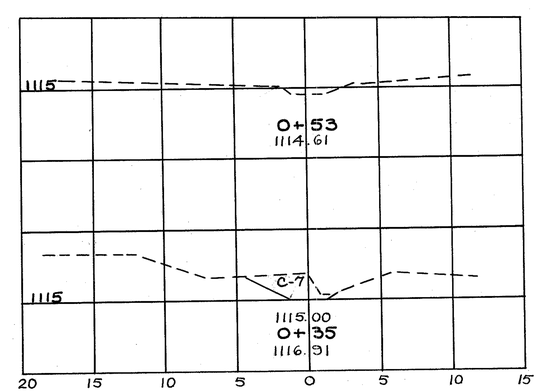


CROSS SECTION

Scale ~ 1" = 5'-0"

CHANNEL EXCAVATION LEFT SIDE

Scale ~ 1" = 5'-0"



End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.
0	0		
		3	0
7	0		
TOTAL		3	0

DRAINAGE STRUCTURE C-1

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

22/25

POR. 80 - 2.48

DRAINAGE STRUCTURE C-2

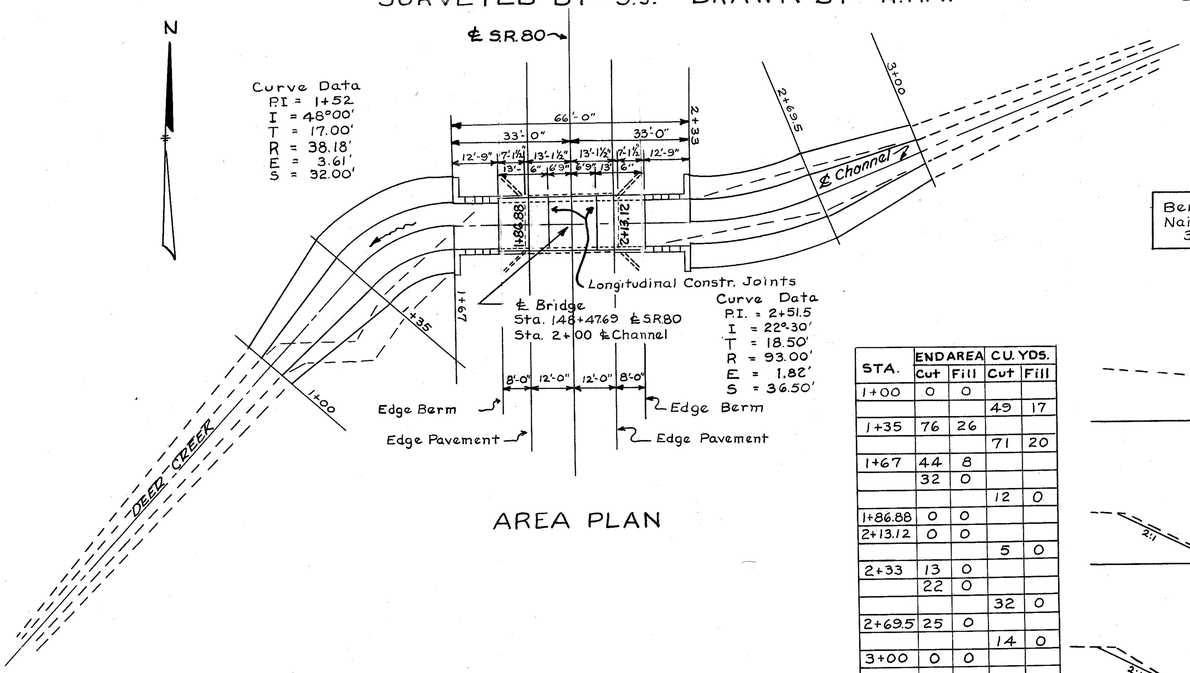
STA. 148 + 47.69

SURVEYED BY- S.J. DRAWN BY- R.H.W

BRIDGE NO. POR. - 80 - 0277

DRAINAGE AREA 1966 ACRES

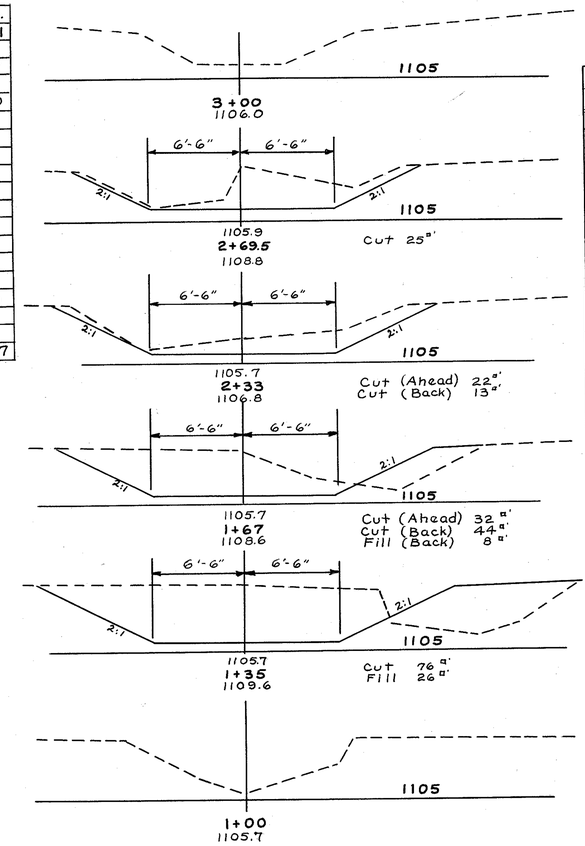
CHECKED BY- H.L.R. TRACED BY-



AREA PLAN

Bench Mark #3 Elev. 1120.747
Nail in 18" W. Cherry Tree
35' Rt. of Sta. 146+02

STA.	END AREA Cut	END AREA Fill	C.U. YDS. Cut	C.U. YDS. Fill
1+00	0	0		
			49	17
1+35	76	26		
			71	20
1+67	44	8		
	32	0		
			12	0
1+86.88	0	0		
2+13.12	0	0		
			5	0
2+33	13	0		
	22	0		
			32	0
2+69.5	25	0		
			14	0
3+00	0	0		
Total			183	37



CHANNEL EXCAVATION

Note: Channel Excavation includes also portion between new abutments.

STRUCTURE DATA

TYPE: Concrete Slab
SPAN: 13'-0"
ROADWAY: 40'-0" face to face of guardrail
LOADING: S-15
SKEW: None
CONDITION: Good
STD. DRWG: Abutment Exts. SB-1-47
New Slab SB-1-47

WORK REQ'D: Remove existing deep beam guardrail. Remove existing concrete slab and portions of concrete wing walls as shown. Build concrete abutment extensions and dowel into existing abutments. Build concrete cap on top of existing abutments to elevation of abutment extensions and dowel into top of existing abutments. Build new concrete slab full width of bridge. Apply Type "C" Waterproofing over entire deck. Place asphaltic concrete wearing course over the leveling course to profile grade and to slope of pavement shown. Excavate for inlet and outlet channels. The Longitudinal Construction Joints in the slab and the Vertical Contraction Joints in the abutment caps shall be used to permit construction while maintaining at least one way traffic.

ESTIMATED QUANTITIES

E-2	Excavation for Structures	76 Cu.Yd.
E-3	Channel Excavation	183 Cu.Yd.
S-1	Concrete for Structures - Footings, Class "E"	26 Cu.Yd.
S-1	Concrete for Structures - Walls, Class "E"	42 Cu.Yd.
S-1	Concrete for Structures - Slabs, Class "C"	22 Cu.Yd.
S-3	Waterproofing, Type "C"	69 Sq.Yd.
S-4	Reinforcing Steel	7,707 Lbs.
S-9	Premolded Expansion Joint Filler 1/4"	8 Sq.Ft.
S-14	Railing - Type I-15.13 with Steel Posts	30 Lin.Ft.
S-22	Removal of Portions of Existing Structure	24 Cu.Yd.
S-23	Dowel Holes	90 Each
T-35	Asphaltic Concrete Surface Course	2.4 Cu.Yd.
B-35	Asphaltic Concrete Leveling Course	2.4 Cu.Yd.
S-3	Premolded Sealing Strip	4 Lin.Ft.
S-29	Porous Backfill	22 Cu.Yds.

STEEL LIST

LOCATION	MARK	SHAPE	SPACING	SIZE	NO.	LENGTH	WEIGHT
Slab Top	S7a	Bent	0'-6"	7/8" Ø	81	16'-4"	2,704
Slab Top	T5a	St.	3'-0"	5/8" Ø	16	14'-6"	242
Slab Top	T6a	St.	as shown	3/4" Ø	102	13'-1"	2,004
Wing	G5a	St.	1'-0"	5/8" Ø	24	4'-0"	100
Wing	F6a	Bent	1'-5"	3/4" Ø	48	6'-2"	445
Abutment	F5a	Bent	1'-5"	5/8" Ø	20	5'-6"	115
Wing & Abut.	D5a	St.	as shown	5/8" Ø	24	19'-5"	486
Wing & Abut.	D5b	St.	as shown	5/8" Ø	8	16'-5"	137
Wing & Abut.	D5c	St.	as shown	5/8" Ø	8	19'-10"	165
Abut. Cap	D5d	St.	as shown	5/8" Ø	4	13'-1"	55
Wing	E5a	St.	as shown	5/8" Ø	4	7'-6"	31
Wing	E5b	St.	as shown	5/8" Ø	4	8'-0"	33
Wing	E5c	St.	as shown	5/8" Ø	4	8'-6"	35
Wing	E5d	St.	as shown	5/8" Ø	4	9'-0"	38
Wing & Abut.	E5e	St.	as shown	5/8" Ø	16	9'-6"	159
Wing & Abut.	E5f	St.	as shown	5/8" Ø	16	9'-1"	152
Turn-back Wing	A5a	St.	as shown	5/8" Ø	32	6'-4"	211
Turn-back Wing	A5b	Bent	as shown	5/8" Ø	44	7'-1"	325
Dowels	–	St.	1'-0"	3/4" Ø	90	2'-0"	270
Total							7,707
Replacement Steel	Re-5a	St.	–	5/8" Ø	1	5'-7"	
Replacement Steel	Re-6a	St.	–	3/4" Ø	1	5'-11"	
Replacement Steel	Re-7a	St.	–	7/8" Ø	1	6'-2"	

NOTE: The bar size designations shown above corresponds with the size designations given in the January 1957 edition of the Construction and Material Specification Manual.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

23/25

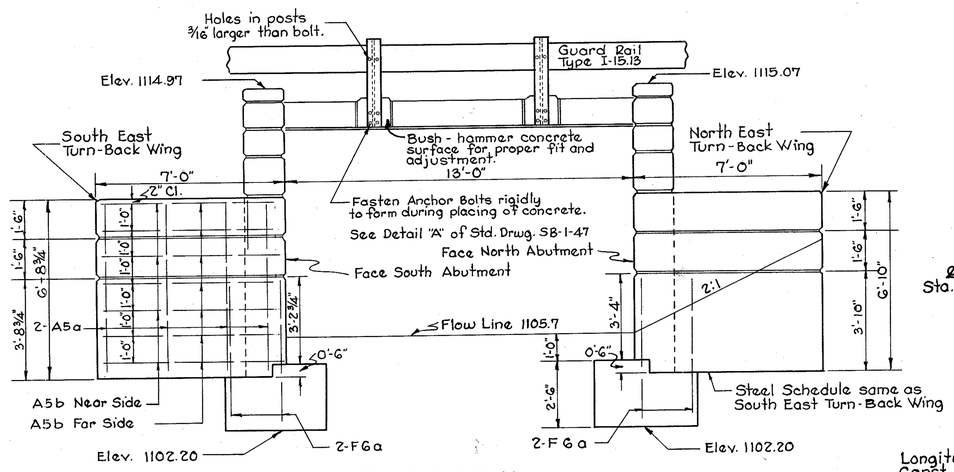
POR-80-2.48

DRAINAGE STRUCTURE C-2 BRIDGE NO. POR-80-0277

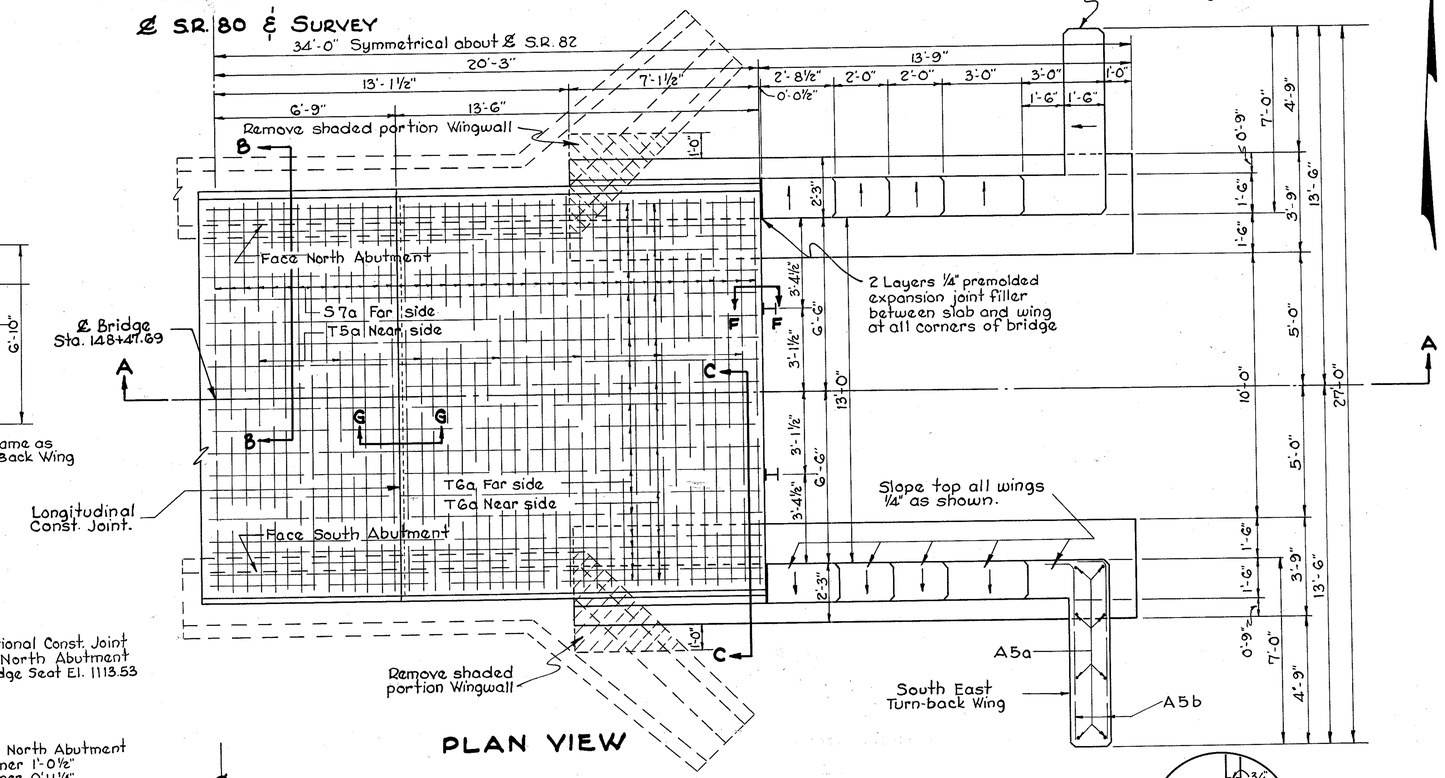
STA. 148+47.69

DRAINAGE AREA 1966 ACRES

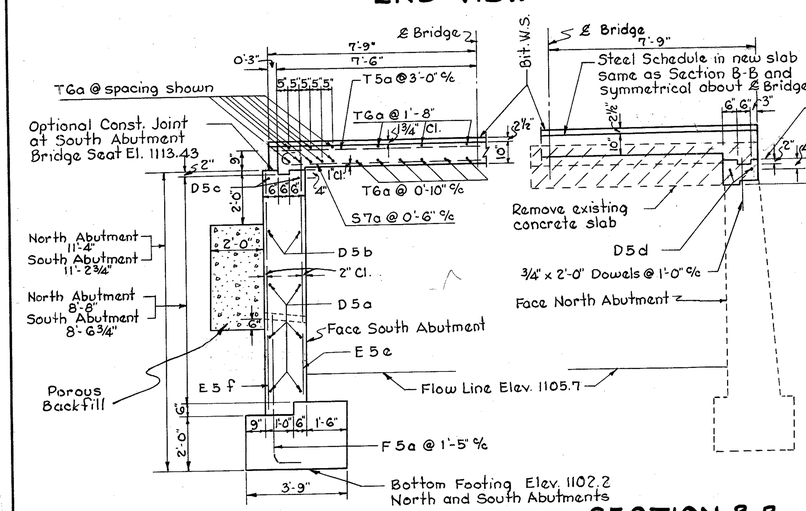
SURVEYED BY S. J. DRAWN BY R.H.W. CHECKED BY H.L.R.



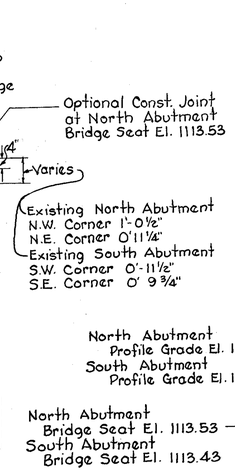
END VIEW



PLAN VIEW



SECTION C-C



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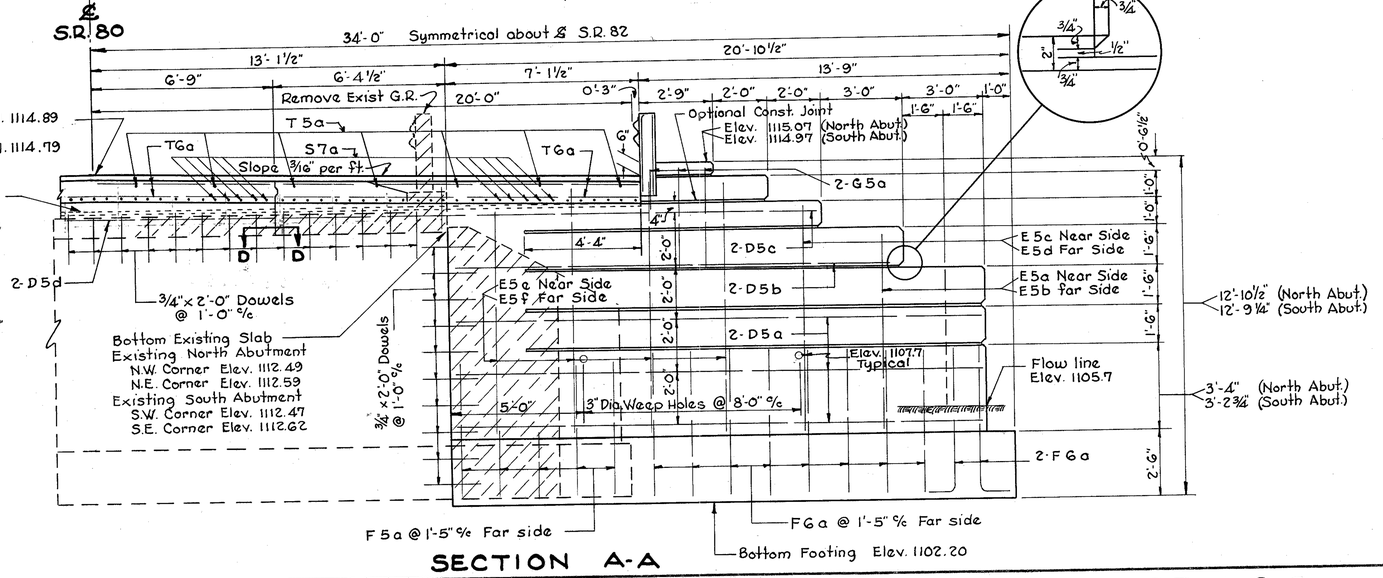

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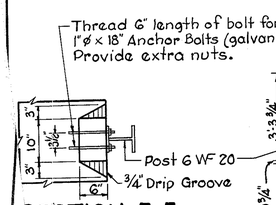

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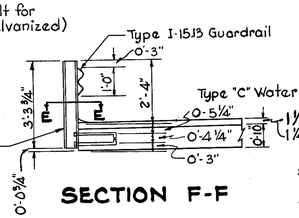

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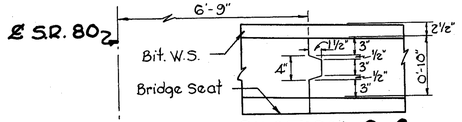

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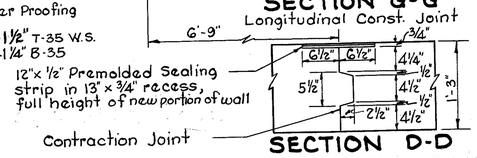


SECTION D-D

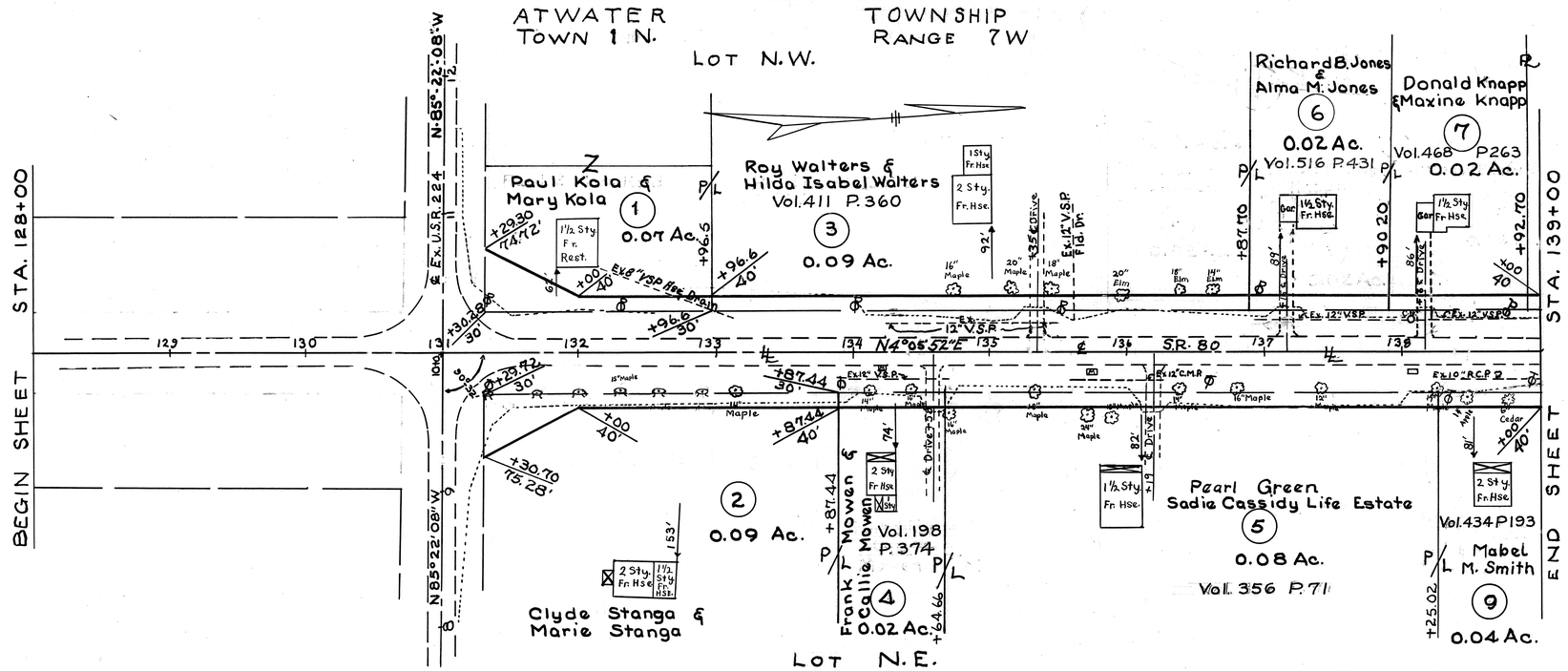
DRAINAGE STRUCTURE C-2

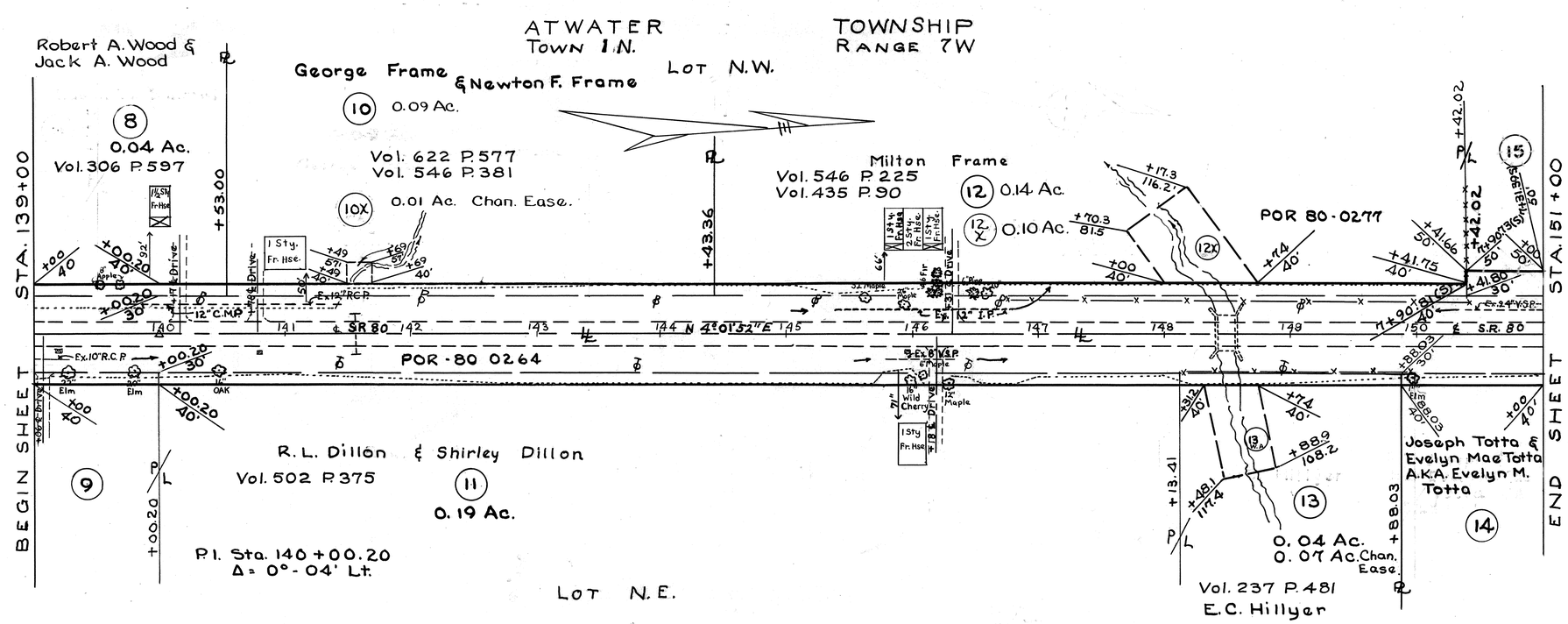
POR. 183

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

1/2

POR-80 (2.48)





Parcel Nos. 10 & 12 Revised 4-19-57

RIGHT OF WAY SHEET STA. 128+00 TO STA. 151+00

POR. 80

FED. RD. DIVISION	STATE	PROJECT	SEC.
2	OHIO	POR. 80	2.48

SUMMARY OF ADDITIONAL R/W REQUIRED

PARCEL NO.	OWNER	AREA ACRES	EXIST BLDGS	SHEET NO'S.	REMARKS
1	Paul Kola &				
	Mary Kola	0.07		1	
2	Clyde Stanga &				
	Marie Stanga	0.09		1	
3	Roy Walters &				
	Hilda Isabel Walters	0.09		1	
4	Frank Mowen &				
	Ocallie Mowen	0.02		1	

PARCEL NO.	OWNER	AREA ACRES	EXIST BLDGS	SHEET NO'S.	REMARKS
5	Pearl Green &				
	Sadie Cassidy - Life Estate	0.08		1	
6	Richard B. Jones &				
	Alma M. Jones	0.02		1	
7	Donald Knapp &				
	Maxine Knapp	0.02		1	
8	Robert A. Wood &				
	Jack A. Wood	0.04		1	

PARCEL NO.	OWNER	AREA ACRES	EXIST BLDGS	SHEET NO'S.	REMARKS
9	Mabel M. Smith	0.04		1	
10	George Frame &				
	Newton F. Frame	0.09		1	
10-X	" " "	0.01		1	
11	R. L. Dillon &				
	Shirley Dillon	0.19		1	
12	Milton Frame	0.14		1	
12-X	" "	0.10			

PARCEL NO.	OWNER	AREA ACRES	EXIST BLDGS	SHEET NO'S.	REMARKS
13	E. C. Hillyer	0.04		1	
13WA	" " "	0.07		1	
14	Joseph Totta &				
	Evelyn Mae Totta				
	Evelyn aka M. Totta	0.06		1-2	
15	Clarence W. Strong &				See Parcel No.
	Emma Strong	—		2	263 ON USR 224 SEC. 9.68
16	Ida Grace Cameron	0.10		2	
17	Roy R. McHenry &				See Parcel No
	Ariel G. McHenry	-		2	265 ON USR 224 SEC. 9.68

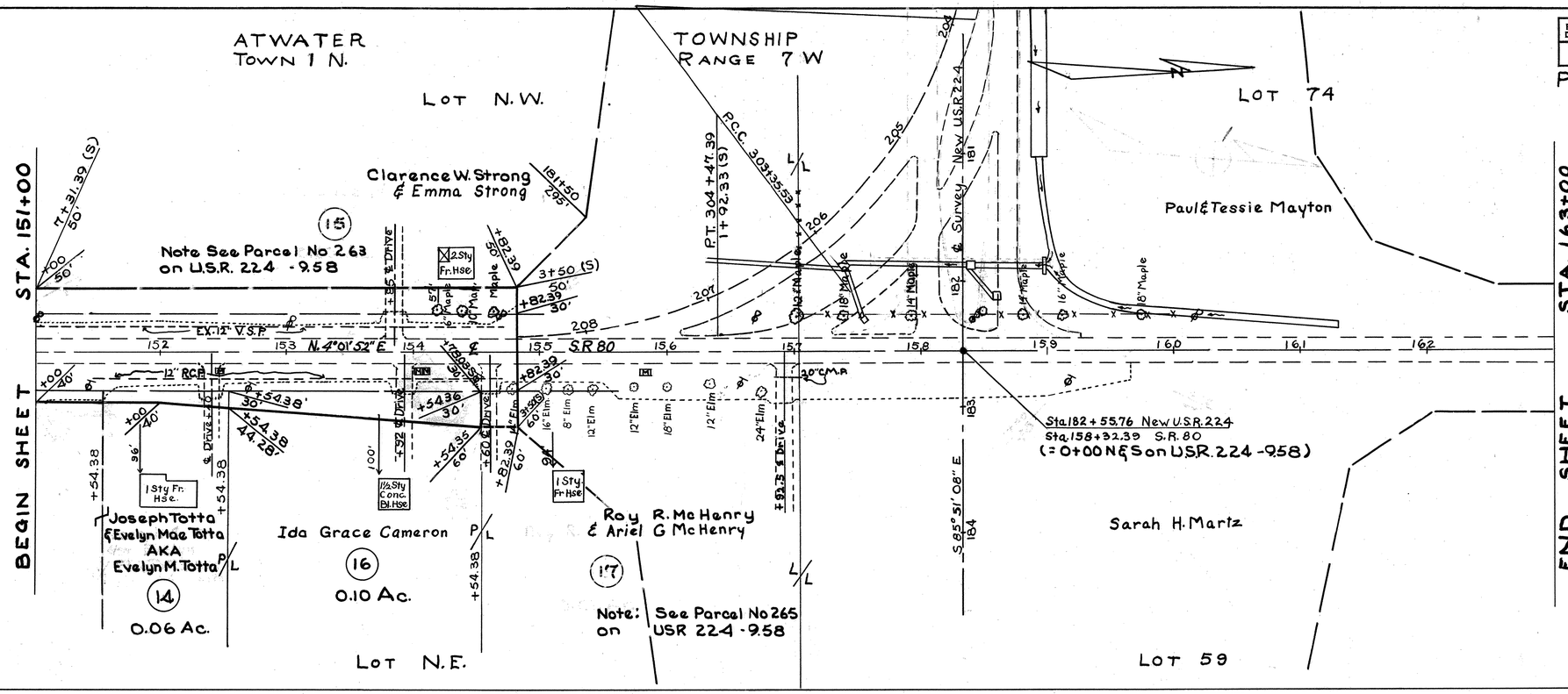
5-20-57

POR.183

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2/2

POR.-80 (2.48-)



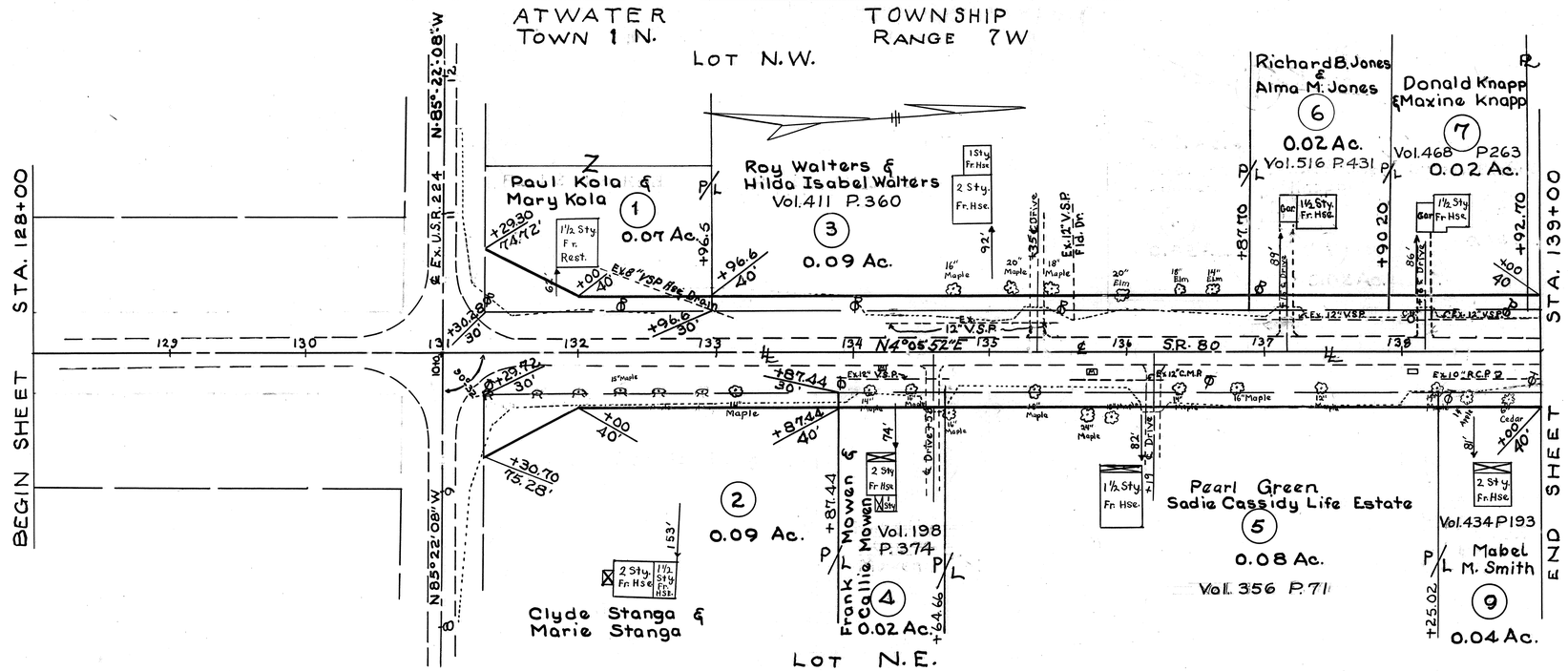
RIGHT OF WAY SHEET STA. 151+00 TO STA. 163+00

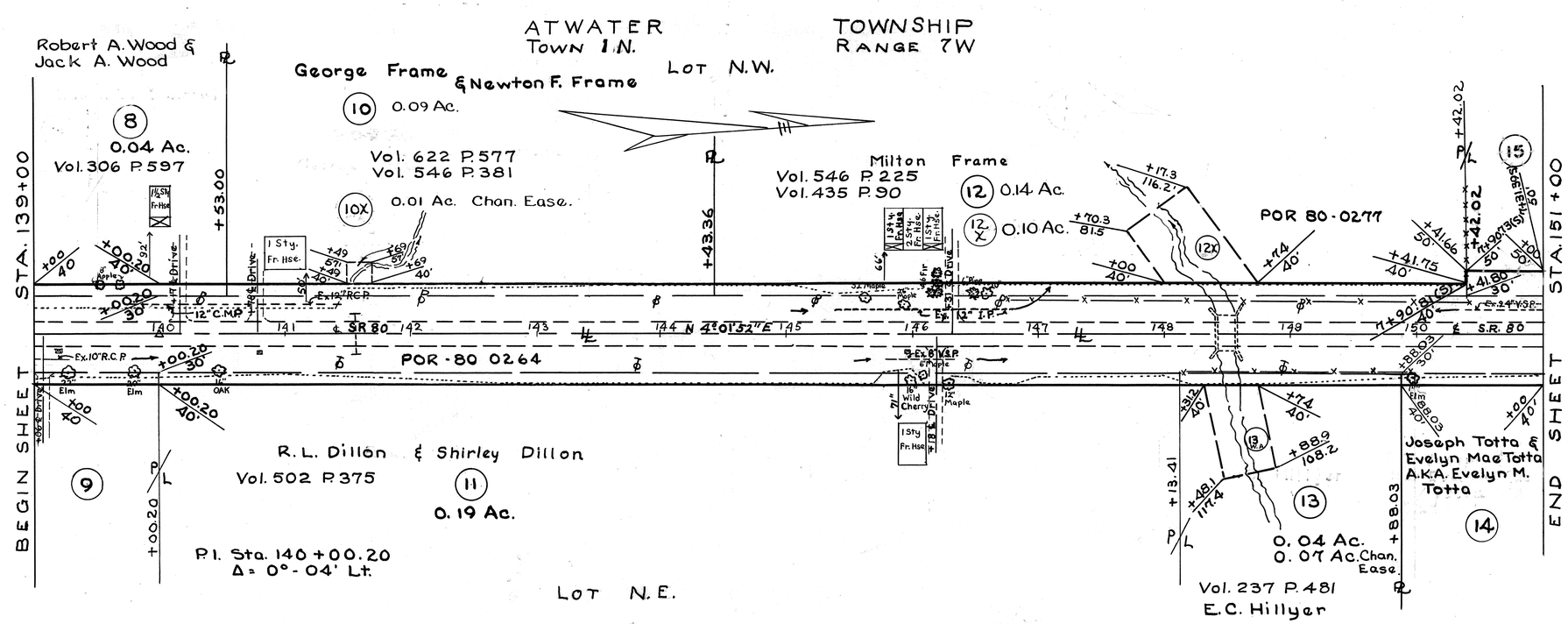
POR. 183

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

1/2

POR-80 (2.48)





Parcel Nos. 10 & 12 Revised 4-19-57

RIGHT OF WAY SHEET STA. 128+00 TO STA. 151+00

POR. 80

FED. RD. DIVISION	STATE	PROJECT	SEC.
2	OHIO	POR. 80	2.48

SUMMARY OF ADDITIONAL R/W REQUIRED

PARCEL NO.	OWNER	AREA ACRES	EXIST BLDGS	SHEET NO'S.	REMARKS
1	Paul Kola &				
	Mary Kola	0.07		1	
2	Clyde Stanga &				
	Marie Stanga	0.09		1	
3	Roy Walters &				
	Hilda Isabel Walters	0.09		1	
4	Frank Mowen &				
	Ocallie Mowen	0.02		1	

PARCEL NO.	OWNER	AREA ACRES	EXIST BLDGS	SHEET NO'S.	REMARKS
5	Pearl Green &				
	Sadie Cassidy - Life Estate	0.08		1	
6	Richard B. Jones &				
	Alma M. Jones	0.02		1	
7	Donald Knapp &				
	Maxine Knapp	0.02		1	
8	Robert A. Wood &				
	Jack A. Wood	0.04		1	

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9	Mabel M. Smith	0.04		1	
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	Newton F. Frame	0.09		1	
10-X	" " "	0.01		1	
11	R. L. Dillon &				
	Shirley Dillon	0.19		1	
12	Milton Frame	0.14		1	
12-X	" "	0.10			

PARCEL NO.	OWNER	AREA ACRES	EXIST BLDGS	SHEET NO'S.	REMARKS
13	E. C. Hillyer	0.04		1	
13WA	" " "	0.07		1	
14	Joseph Totta &				
	Evelyn Mae Totta				
	Evelyn aka M. Totta	0.06		1-2	
15	Clarence W. Strong &				See Parcel No.
	Emma Strong	—		2	263 ON USR 224 SEC. 9.68
16	Ida Grace Cameron	0.10		2	
17	Roy R. McHenry &				See Parcel No
	Ariel G. McHenry	-		2	265 ON USR 224 SEC. 9.68

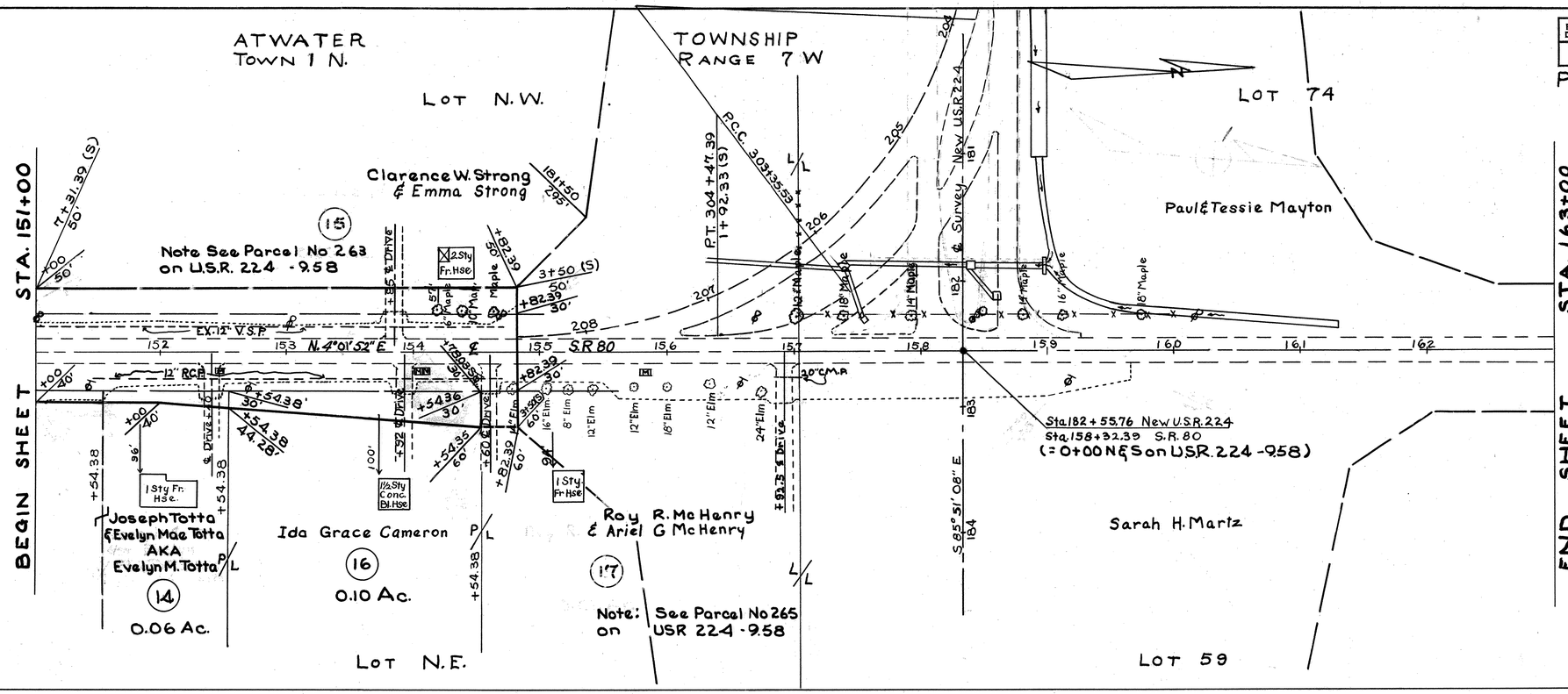
5-20-57

POR.183

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2/2

POR.-80 (2.48-)



RIGHT OF WAY SHEET STA. 151+00 TO STA. 163+00

103-POR.-2.48

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

LOCATION PLAT

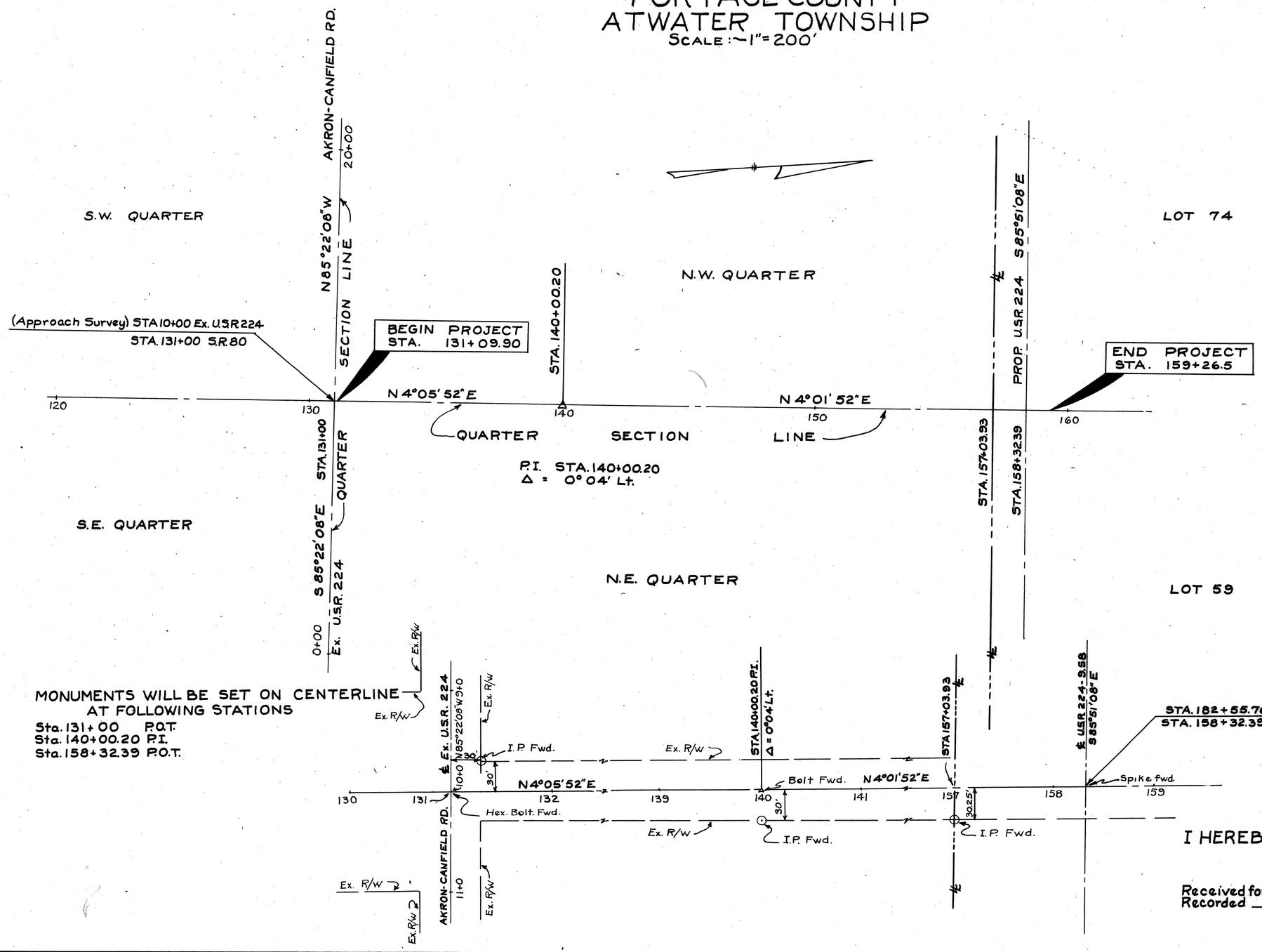
POR. ~~80~~ 2.48 (NOW S.R. 183)

EDINBURG-LIMAVILLE SOUTH RD.

PORTAGE COUNTY

ATWATER TOWNSHIP

SCALE: ~1" = 200'



MONUMENTS WILL BE SET ON CENTERLINE AT FOLLOWING STATIONS

Sta. 131+00 P.O.T.
Sta. 140+00.20 P.I.
Sta. 158+32.39 P.O.T.

I HEREBY CERTIFY THIS PLAT TO BE CORRECT

Signed By Earl F. Campbell 3-19-57

DIVISION DEPUTY DIRECTOR

Received for Record 3-20- 1957

Recorded 1957 Vol. 12 Page 47

PORTAGE COUNTY RECORDS

RECORDER