FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	STATE	

1/100

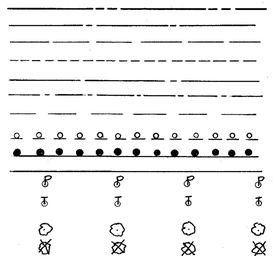
POR-14-18.03

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
POR-14-(18.03)
PORTAGE COUNTY
EDINBURG-ATWATER & DEERFIELD TOWNSHIPS

352-E

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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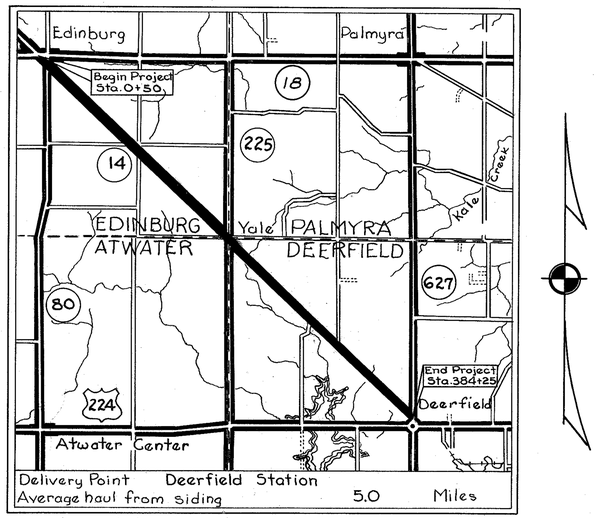
RIGHT-OF-WAY	93-100



LOCATION MAP
SCALE 1" = 1 MILE

LINE DATA

BEGIN WORK AND PROJECT STA. 0+50
END WORK AND PROJECT STA. 384+25

NET LENGTH OF WORK AND PROJECT = 38375 L.F.
OR 7.267 MILES

Portion to be improved
State Roads
Other Roads

SCALES

PLAN	1" = 100'
PROFILE-HORIZONTAL	1" = 100'
PROFILE-VERTICAL	1" = 10'
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 W. L. Turner
Date 3-2-1956 Division Deputy Director

Approved John J. Heer
Date 3-9-56 Deputy Director of Planning & Programming

Approved _____
Date _____ Engineer of Bridges

Approved E. S. Preston
Date 3-2-56 Engineer of Location & Design

Approved V. T. Gould
Date 3-2-56 Deputy Director of Design & Construction

Approved V. T. Chamblin
Date 3-9-56 First Assistant Director

Approved _____
Date 3-12-56 Director of Highways

CONSTRUCTION BUREAU
AUG 5 1959
GROUND PHOTOLAB

Supplemental Prints of Standard Construction Drawings					
L-1	4-1-50	S-27 P.C. 4	1-4-54	G-7.07	1-2-53
L-3	4-1-50	I-1,2,3,4 & 5	2-20-45	I-15 No. 1	8-1-55
L-3A	4-1-50			I-15 No. 2	12-1-54
DR-1	1-3-55	I-8 C.B. 2 & 2-4	5-1-52	SBC-45 Shts. 1 & 2	9-18-47
RI-1	1-3-55	I-8 C.B. No. 7	5-1-52	STC-47	9-18-47
T-35	1-2-56	I-14 G	1-22-52	SB-1-47	1-20-48
S-27 P.C. 3	2-20-45	L.J. No. 1	7-1-55		

Supplemental Specifications		
L-209.12	7-17-54	
6	12-28-55	

FILE No.	POR-14-(18.03)
52	DATE OF LETTING:
	CONTRACT NO.

TITLE SHEET

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

2/100

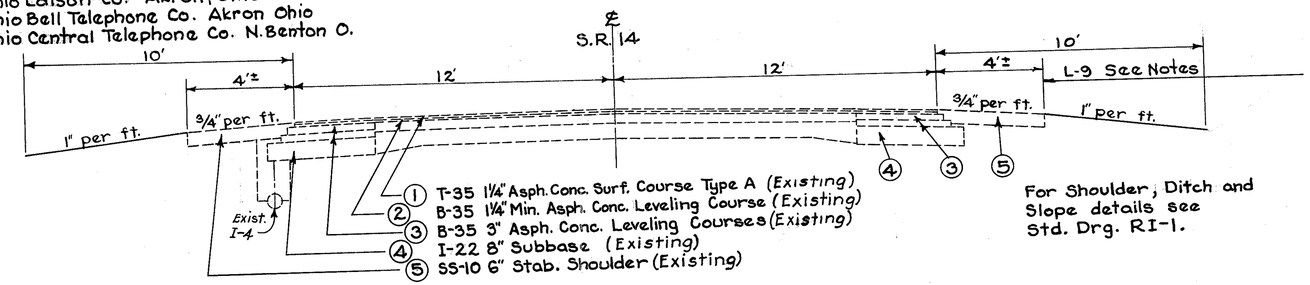
POR-14-18.03

TYPICAL SECTION

UTILITIES AFFECTED
American Telephone & Telegraph Co. Cleve., O.
Sinclair Pipe Line Co. Marion Ohio
Sun Pipe Line Co. Fostoria, Ohio
Ohio Edison Co. Akron, Ohio
Ohio Bell Telephone Co. Akron Ohio
Ohio Central Telephone Co. N. Benton O.

Scale 3/8" = 1'

Field Book No's. 323, 343, 362 & 423



For Shoulder, Ditch and Slope details see Std. Drg. RI-1.

NOTE: Pavement built in 1954 under Project POR-14-(17.98-18.03)

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 & SLOPES:~
Berms & Slopes shall be finished in accordance with the standard Drawing RI-1 except where otherwise shown on the Cross Sections. Although the cross-sections show straight lines & angles, in construction all corners shall be rounded as shown on Std. Drawing RI-1.

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 and specials will be provided in the General Summary.

MAIL BOX:~
The protection, moving, adjusting etc. of all mailboxes to secure satisfactory delivery of United States Mail shall be considered a part of Item G-7.09 "Preservation and Restoration of Property."

TREE & STUMP REMOVAL:~
All trees and stumps within the construction limits, which are 12" or more as measured per Item 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.

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

ELEVATIONS:~
The elevations shown for the center line profile of pavement are the basis for elevations of ditches, culverts, etc. as indicated on this plan.

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

Quantities for these items are calculated for the soil areas between lines ten feet (10') outside the *construct.* limits as shown on the cross sections or to the R/W line if such line is less than ten feet from the *construct.* limits. *All areas outside these limits where the vegetative growth has been injuriously disturbed or destroyed by the contractor shall be restored and seeded in accordance with Item L-9 by the contractor at his own expense.*

The following seed mixture shall be used on the entire project:

20% Kentucky Bluegrass
20% Kentucky 31 Fescue
40% Creeping Red Fescue
15% Red Top
5% White Dutch Clover

ITEM L-10 SODDING:~
Areas to be sodded shall be loosened to a depth of 2" just prior to laying the sod. This work shall be included for payment in the price bid per sq. yd. of sodding.

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). The minimum thickness loose measurement shall be 2".

CONNECTIONS TO EXISTING SEWERS:~
At places where the plans provide for proposed drainage pipe to be connected to existing pipes, it shall be the responsibility of the Contractor to locate the existing pipe both as to line and grade, before he starts to lay the proposed sewer. The cost of this operation shall be included in the cost bid for the pertinent Item I-2 Storm Sewer *or I-3 Roadway Drainage.*

I-2 ALIGNMENT:~
Where existing pipe is to be extended to meet the new ditch location, quantities for concrete collars are provided to make the connection, and to absorb the angular difference between the alignment of the existing pipe and the proposed extension.

CULVERTS:~
Correct culvert numbers are as shown on sheet no. 83 Disregard any other reference to culvert numbers.

TRAFFIC:~
This project will be constructed with the highway open to traffic. The contractor's attention is called to Sec. G-7.07 of the Construction & Material Specifications.

Two-way traffic shall be maintained at all times, except, when in the opinion of the Engineer, one way traffic is necessary to perform a particular portion of the work. Only then will one way traffic be permitted, and it shall be restricted both in length and time of operation to that absolutely necessary to perform this work.

COUNTY & TWP. ROADS: An estimated quantity of 15 Cu. Yds. of 2" T-35 Surface Course and 52 Cu. Yds of 7" I-18 aggregate has been provided to use at these approaches as directed by the Engineer.

MASONRY REMOVAL:~
The existing concrete retaining wall, existing sidewalk, and any other masonry material on the right Station 379+03 to Station 380+05 within the limits of the right-of-way shall be removed as per Item S-24, Removal of Existing Structures, in the specifications. Cost of this removal shall be included in the price bid per cubic yard for Item E-1 Roadway Excavation.

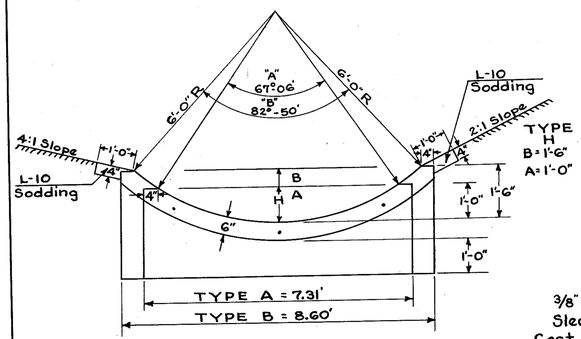
E-12 PIPE DISPOSAL:~
Existing pipe up to and including 8" in diameter *shall* not be removed, but shall be crushed or broken down, if abandoned. *Abandoned pipes* of 10" and larger shall be removed. Payment for the first mentioned items shall be included in the price bid for Item E-1 Roadway Excavation. Pipe removed shall be paid for under Item E-12 Pipe Removal.

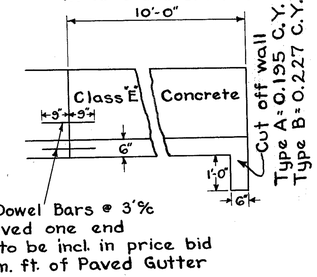
I-18 FOR BERMS:~
500 Cu. Yds. of I-18 is provided for the dressing up of existing berms as directed by the Engineer. Quantity carried to calculation sheet.

SPECIAL PIPE CLEANOUT:~
The existing 12" pipe culvert, right of Sta. 192+00 & existing 18" pipe culvert at Sta. 382+76 shall be cleaned out at the direction of the Engineer. The price bid per Lineal Ft. for "Culvert Cleanout" shall constitute full compensation for removal and disposal of all material found in the pipes and for furnishing all materials, labor, tools, equipment and incidentals necessary to complete this item. Disposal shall be in accordance with Sec. E-1.06

MODIFIED I-14G - TYPE 2 STANDARD PAVED GUTTER DETAIL

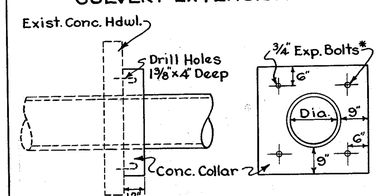
Scale 1" = 2'





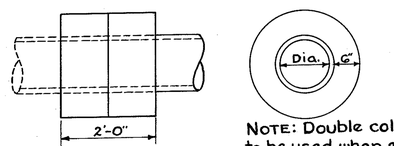
Cost to be incl. in price bid per lin. ft. of Paved Gutter

DETAIL CONCRETE COLLAR FOR CULVERT EXTENSION



Concrete to be Class "E"
Estimated Quantity of 1 3/8" x 4" Dowel Holes and 3/4" Expansion Bolts - 112 Each

DOUBLE COLLAR DETAIL



Concrete shall be Class "E"

NOTE: Double collar to be used when extending pipe with no exist. hdwl.

* Expansion bolts shall be as shown on Standard Drawing L.J. Nº 1.

P.F. #210 F.J.C.

TYPICAL SECTION, GENERAL NOTES & DETAILS

FED. RD. DIVISION	STATE	PROJECT		3/100
2	OHIO			

POR-14-18.03

RECAPITULATION

Sheet No.	S-14 Railing	I-14 Gutter Mod. Type B L.F.	I-15 Guard Rail 15.13 L.F.	I-15 Rem. & Store L.F.	I-18 6" Field Drives C.Y.	I-18 5" Res. Drives C.Y.	I-18 5" Mailbox Appr. C.Y.	I-18 7" Bus. Drives C.Y.	E-12 Pipe Removal L.F.	L-10 Sodding 6' Wide S.Y.	L-10 Sodding 7' Wide S.Y.	L-10 Sodding 8' Wide S.Y.	PAVEMENT T-35 2" Mailbox Appr. C.Y.	PAVEMENT T-35 2" Res. Drives C.Y.	PAVEMENT T-35 2" Bus. Drives C.Y.
2													15		
5					12.0	61.5		156.6	2.85					24.2	37.3
6		60			13.6	73.6	12.9		42	731			5.1	29.1	
7			45	75	13.6	111.6	8.6	124.0	21	177			3.4	44.6	33.8
8					27.2	74.2	8.6	23.1	51	369			3.4	29.3	5.5
9			49	75	13.6	34.2	4.3		29	347		71	1.7	13.5	
10					27.2	49.8	8.6		52	954			3.4	19.8	
11					44.0	50.4	12.9		64	511			5.1	19.9	
12					27.2					2225					
13		117			39.2	52.6		17.0	232	235	1974			26.0	
14					40.8	49.3	4.3	25.4	203	455			1.7	19.4	
15					40.8	11.4			60	566				4.5	
16					66.9	81.2	12.9		184	493			5.1	32.1	
17					59.2	24.9	8.6		74	630			3.4	9.9	
18					27.2	47.2	12.9	45.2	74	62			5.1	18.6	12.9
19					27.2	35.8	4.3		30	394			1.7	14.1	
20					54.4	26.5		65.5	60	49				10.4	15.8
21						40.4								16.0	
83	56														
To Summary		177	94	150						10243				490.8	
To Calculations						1914.5			1461*						

Sheet No.	I-1 Pipe for Drives 12" M-64 (a) L.F.	15" M-64 (a) L.F.	58"x36" 8 Ga. M-64 (f) L.F.	18"x11" 16 Ga. M-64 (i) L.F.	22"x13" 14 Ga. M-64 (i) L.F.	29"x18" 12 Ga. M-64 (i) L.F.	I-5 For I-4 45° Bend Ea.	I-5 12"x12" Wye for I-2 Ea.	I-2 Storm Sewers Class "A" 8" L.F.	12" L.F.	15" L.F.	18" L.F.	8" U.P. L.F.	12" U.P. L.F.	15" U.P. L.F.	18" U.P. L.F.	30" U.P. L.F.	42" U.P. L.F.	I-8 No.7 C.B. Ea.	I-8 No.2-3 C.B. Ea.	I-10 Riprap Type "A" S.Y.	I-3 6" Rdwy. Drain. Lin.Ft.	S-1 Class "E" Conc. C.Y.	S-22 Rem'l Part. Exist. Struct. C.Y.	I-3 for Class "A" Storm Sewers 12" Each	I-4 6" L.F.	I-4 8" Outlet for U.D. L.F.	I-3 18" for Class "A" Storm Sewers U.P. Each	Sht. No.
2																						250			5			1	2
5								1		40				661						6			0.6	0.6					5
6	64						2			40													0.4			36	20		6
7	70								30	135			85						1										7
8	174																												8
9	60						2							40									0.8			40	20		9
10	64														96								0.88						10
11	150																												11
12				30	32																								12
13			30			30										174	80	70			34								13
14	84													257															14
15	60			30			2							25												30	20		15
16	214			30																									16
17	70			30													20						1.0						17
18	88																		1										18
19	58	30			30		4												1						88	40			19
20	90				30									38									0.8						20
21	24																												21
83																				1	15		302.9	78.0					83
To Summary	1270	30	30	120	92	30	10	1	30	215			85	1021	96	174	100	70	3	7	49	250	307.4	78.6	5	194	100	1	

* NOTE:
1141 Lin.Ft. to be removed under Item E-12.
320 Lin.Ft. to be abandoned in place under Item E-1 (See general note on Sheet 2).

Sheet No.	E-1 Excavation C.Y.	E-3 Channel Excavation C.Y.	Embankment C.Y.	L-9 Seeding S.Y.
5	1024		320	6195
6	2331		1351	12446
7	2324		1180	11188
8	3008		1159	13697
9	2627		682	11947
10	2563		862	13578
11	2497		684	12829
12	2087		923	12398
13	3265		1927	13835
14	2550		1241	14835
15	2020		1105	12300
16	2024		1296	12439
17	2196		1243	13112
18	1724		1123	12497
19	2216		1533	13902
20	2556		1104	13248
21	271		60	1342
Totals	37283		17793	201792

CALCULATIONS

EARTHWORK

E-1 From Recap — 37283 C.Y.
Emb. From Recap x 1.7 = 17793 x 1.7 = — 30248 C.Y.
Surplus Excavation = 7535 C.Y.

I-18 STABILIZED CRUSHED AGGREGATE SHOULDERS & APPROACHES

I-18 for Berms & Twp. Rd. Approaches as directed by the Engineer — 552.0 C.Y.
I-18 From Recap — 1914.5 C.Y.
I-18 Over New Sideroad Culverts — 5.0 C.Y.
2471.5 C.Y.
TOTAL I-18 TO SUMMARY 2472 C.Y.

L-9 SEEDING

Seeding from Recap — 201792 S.Y.
Sodding from Recap — 10243 S.Y.
TOTAL L-9 SEEDING TO SUMMARY 191549 S.Y.

L-9 10-6-4 COMMERCIAL FERTILIZER

From Recap = 201792 S.Y.
201792 x 9 x 20 ÷ 1000 ÷ 2000 = 18.16 Tons
TOTAL L-9 FERTILIZER TO SUMMARY 18.16 TONS

L-9 LIMING MATERIAL

From Recap = 201792 S.Y.
201792 x 9 x 100 ÷ 1000 ÷ 2000 = 90.80 Tons
TOTAL L-9 LIMING TO SUMMARY 90.80 TONS

E-11 WATER

Embankment = 17793 x 5 Gal. per C.Y. = 88965 GAL.
I-18 = 2472 x 20 Gal. per C.Y. = 47810 GAL.
136775 GAL
TOTAL E-11 WATER TO SUMMARY 137 M.GAL.

GENERAL SUMMARY

ITEM NO.	QUANTITY	UNIT	D E S C R I P T I O N
			ROADWAY
E-1	37283	C.Y.	Roadway Excavation, as per plan
E-9	Lump	Lump	Removal of Trees & Stumps
E-11	137	M. Gal.	Water
E-12	1141	L.F.	Pipe Removed, 10" & over
I-15	150	L.F.	Guard Rail Removed & Stored
I-15	94	L.F.	Guard Rail Steel Beam Type (Deep)
I-18	2472	C.Y.	Stabilized Crushed Aggregate Shoulders and Approaches
L-9	191,549	S.Y.	Seeding & Protecting, as per plan
L-9	18.16	Tons	Commercial Fertilizer (10-6-4)
L-9	90.80	Tons	Agricultural Liming Materials
L-10	10,243	S.Y.	Sodding, As per Plan
			DRAINAGE
E-2	782	C.Y.	Excavation for Structures
E-3	80	C.Y.	Channel Excavation
I-1	1270	L.F.	12" Plain Corrugated Metal Pipe, Sec. M-6.4 (a) for Driveways
I-1	30	L.F.	15" Plain Corrugated Metal Pipe, Sec. M-6.4 (a) for Driveways
I-1	120	L.F.	18"×11" Corrugated Metal Arch with Integral Base Sec. M-6.4(i) for Driveways 16 Gauge
I-1	92	L.F.	22"×13" Corrugated Metal Arch with Integral Base Sec. M-6.4(i) for Driveways 14 Gauge
I-1	30	L.F.	29"×18" Corrugated Metal Arch with Integral Base Sec. M-6.4(i) for Driveways 12 Gauge
I-1	30	L.F.	58"×36" Corrugated Metal Arch with Integral Base Sec. M-6.4(i) for Driveways 8 Gauge
I-2	30	L.F.	8" Class "A" Storm Sewers
I-2	215	L.F.	12" Class "A" Storm Sewers
I-3	250	L.F.	6" Roadway Drainage
I-3	5	Each	12" Pipe Specials for Class "A" Storm Sewers
I-5	1	Each	18" Pipe Specials for Class "A" Storm Sewers under Pavement or Approaches
I-2	85	L.F.	8" Class "A" Storm Sewers Under Pavement or Approaches
I-2	1021	L.F.	12" Class "A" Storm Sewers Under Pavement or Approaches
I-2	96	L.F.	15" Class "A" Storm Sewers Under Pavement or Approaches
I-2	174	L.F.	18" Class "A" Storm Sewers Under Pavement or Approaches
I-2	100	L.F.	30" Class "A" Storm Sewers Under Pavement or Approaches
I-2	70	L.F.	42" Class "A" Storm Sewers Under Pavement or Approaches
I-4	194	L.F.	6" Underdrains
I-4	100	L.F.	8" Outlet for Underdrains Sec. M-6.4(a)
I-5	10	Each	6" Pipe Specials for Underdrains
I-5	2	Each	12" Pipe Specials for Roadway Culverts, Sec. M-6.4(d)
I-5	1	Each	12" Pipe Specials for Class "A" Storm Sewers Under Pavement or Approaches
I-5	1	Each	18" Pipe Specials for Roadway Culverts.
I-8	3	Each	Standard No. 7 Side Ditch Catch Basins
I-8	7	Each	Standard No. 2-3 Catch Basins
I-10	49	S.Y.	Riprap, Type "A"
I-14	177	L.F.	Paved Gutter, Type 2, Modified as per plan
S-1	73.2	C.Y.	Class "C" Concrete for Structures
S-1	307.4	C.Y.	Class "E" Concrete for Structures As Per Plan
S-4	24,268	Lbs.	Reinforcing Steel
S-9	22	S.F.	1/4" Premolded Expansion Joint Filler, Sec. M-10.01
S-14	56	Lin. Ft.	Railing, Type I-15.13 with Steel Posts
S-22	78.6	C.Y.	Removal of Portions of Existing Structures
S-23	488	Each	Dowel Holes (12" & 15")
S-24	Lump	Lump	Removal of Existing Structures
S-23	112	Each	Dowel Holes (4")
S-27	226	L.F.	12" Paved Bituminous Coated Corrugated Metal Pipe Sec. M-6.4(d) For Roadway Culverts
S-27	24	L.F.	12" Pipe For Roadway Culverts
S-27	218	L.F.	18" Pipe For Roadway Culverts
S-27	102	L.F.	24" Pipe For Roadway Culverts
S-27	32	L.F.	30" Pipe For Roadway Culverts
S-29	46	C.Y.	Porous Backfill
SPEC.	89	L.F.	Culvert Cleanout, As Per Plan
SPEC.	112	Each	Expansion Anchor Bolts
			PAVEMENT
T-35	491	C.Y.	Asphaltic Concrete Surface Course Type A (70-80)

GENERAL SUMMARY

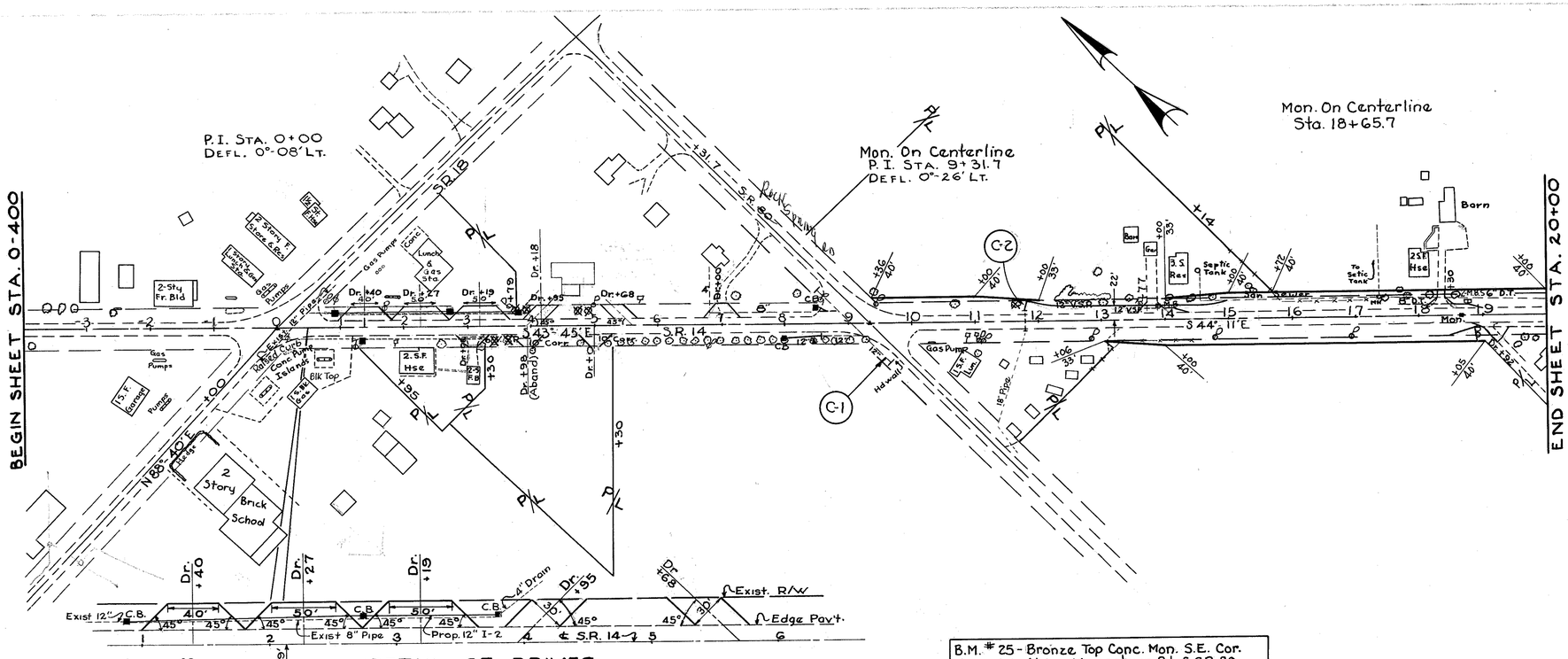
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

POR-14-18.03

DIST. NO.	STATE	PROJECT	SHEET NO.
2	OHIO		5

5
100

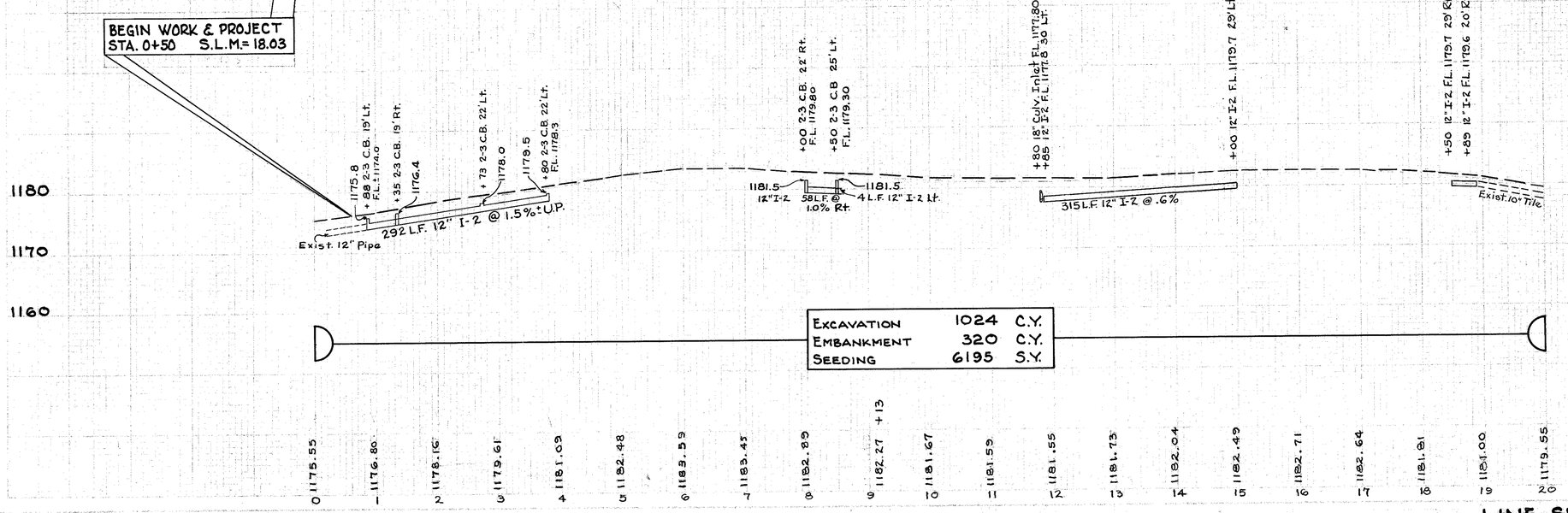
POR-14-18.03



DETAIL OF DRIVES
Scale 1" = 50'

B.M. # 25 - Bronze Top Conc. Mon. S.E. Cor. Akron-Youngstown Rd. & S.R. 80
El. 1183.53

BEGIN WORK & PROJECT
STA. 0+50 S.L.M. = 18.03



EXCAVATION	1024	C.Y.
EMBANKMENT	320	C.Y.
SEEDING	6195	S.Y.

STRUCTURES 20' SPAN & UNDER

MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-1	9+08	Std. Pipe Culv.	12"x165'	83
C-2	11+80	Std. Pipe Culv. Extension	18"x30' Lt.	83

DRIVES

STATION	TYPE	SIDE	T-35 2" C.Y.	I-1 12" C.Y.	I-1 15" C.Y.	I-1 18" C.Y.	I-18 5" C.Y.	I-18 6" C.Y.
3+08	Res.	R	4.5				11.4	
3+98	Aband.	R						12.0
5+00	Fld.	R						
18+92	Res.	R	4.8				12.4	
7+00	Res.	L	4.0				10.1	
13+77	Comb.	L	5.6				14.1	
18+30	Comb.	L	5.3				13.5	
TOTALS			24.2				61.5	12.0

BUSINESS DRIVES

STATION	SIDE	T-35 2" C.Y.	I-1 12" L.F.	I-18 7" C.Y.	I-18 6" C.Y.
1+40	L	7.9		33.2	
2+27	L	9.2		38.6	
3+19	L	9.2		38.6	
3+95	L	5.5		23.1	
5+68	L	5.5		23.1	
TOTALS		37.3		156.6	

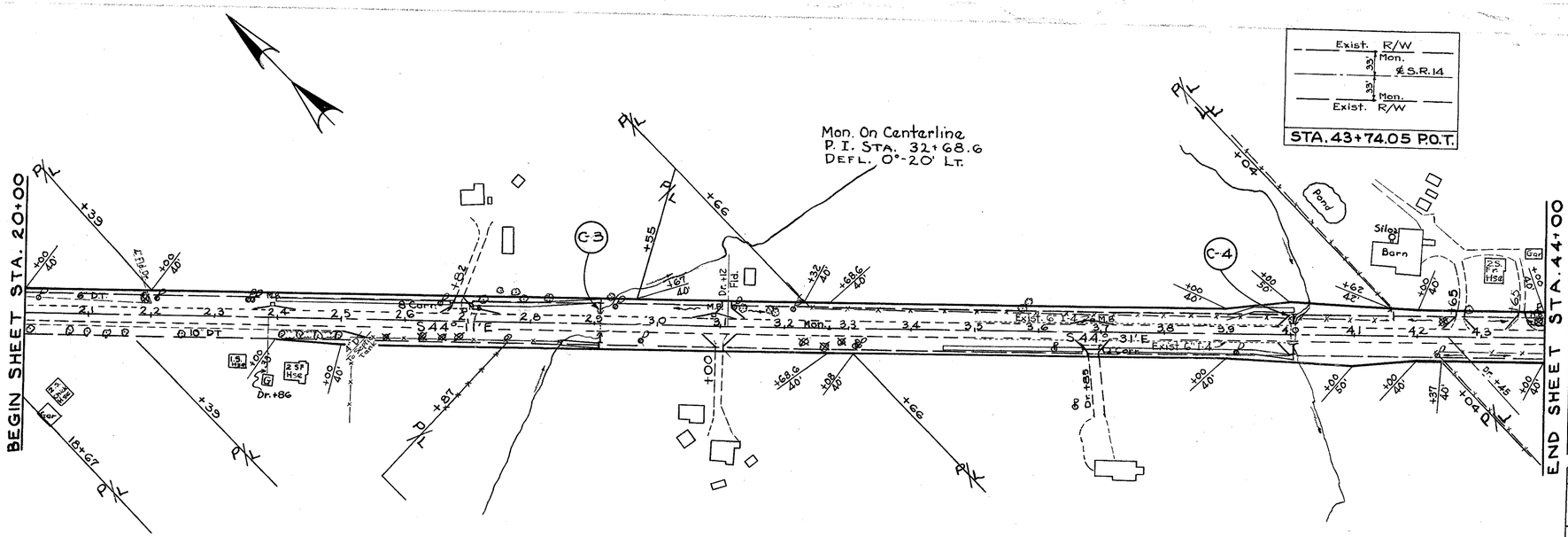
DRAINAGE

STATION FROM	STATION TO	SIDE	I-2 Class 'A' 12" C.P. L.F.	12" U.P. L.F.	I-8 No. 2-3 C.B. Ea.	I-5 12"x12" Wye Ea.	E-12 Pipe Rem'l. L.F.	S-1 Cl. 'E' Conc. for Collar C.Y.	S-22 Rem'l Part of Ex. Str. C.Y.
0+88	3+80	L		286	3		285		
1+35		R			1				
8+00	8+58	R		56	1			0.2	0.6*
8+50		L		4	1	1			
11+85	15+00	L		315					
18+50	18+89	R	40					0.4	
TOTAL			40	661	6	1	285	0.6	0.6

* Remove existing headwall to Elev. 1181.00

LINE SHEET STA. 0-400 TO STA. 20+00

POR-14-18.03



STRUCTURES 20' SPAN & UNDER				
MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-3	29+11	Std. Slab Top Culv. Ext.	4'x3'x58'	84
C-4	40+05	Std. Slab Top Culv. Ext.	4'x4'x66'	85

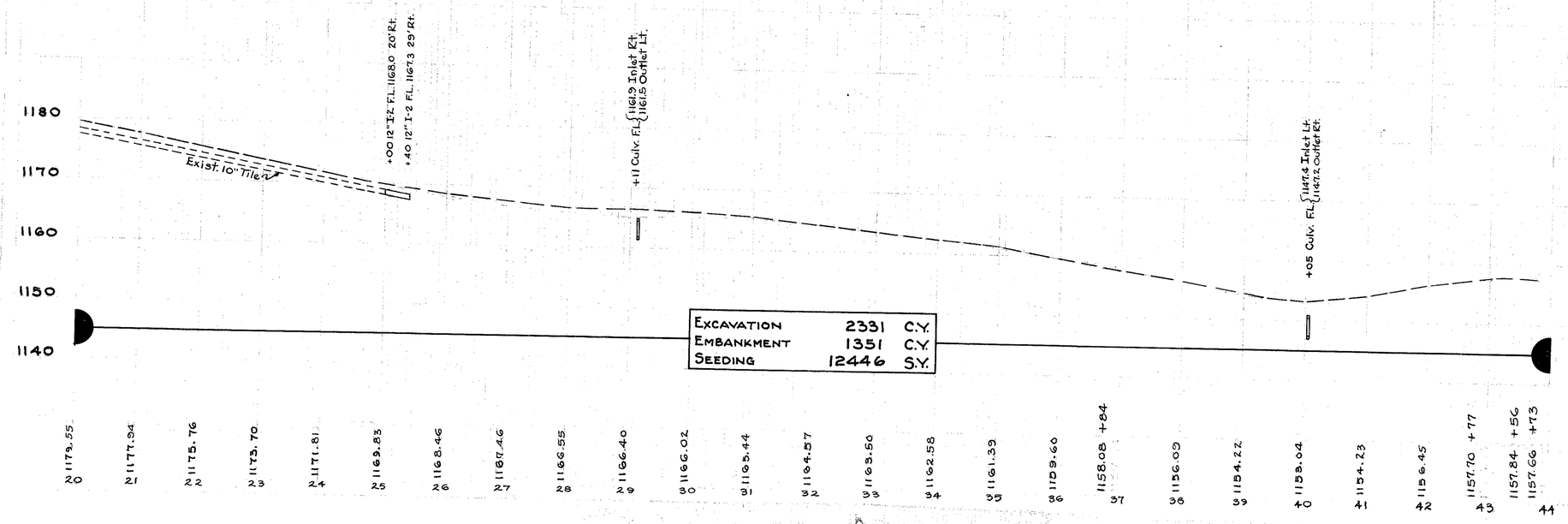
DRIVES			T-35	I-1			I-18	
			2"	12"	15"	18"	5"	6"
STATION	TYPE	SIDE	C.Y.	L.F.	L.F.	L.F.	C.Y.	C.Y.
31+00	Res.	R	4.5				11.4	
36+85	Res.	R	4.5	30			11.4	
26+82	Comb.	L	5.8	34			14.5	
31+12	Fld.	L						13.6
42+65	Res.	L	4.5				11.4	
43+65	Comb.	L	5.3				13.5	
23+86	Res.	R	4.5				11.4	
TOTALS			29.1	64			73.6	13.6

GUTTERS			L-10 6' Width	I-14 Paved Gutter	
STATION					
FROM	TO	SIDE	S.Y.	L.F.	
28+48	29+08	R		60	
24+00	26+65	L	177		
26+99	29+10	L	140		
34+50	36+70	R	147		
37+00	40+00	R	200		
39+00	40+00	L	67		
TOTAL			731	60	

MAILBOX APPR.			
		T-35 2"	I-18 5"
STATION	SIDE	C.Y.	C.Y.
23+95	L	1.7	4.3
30+91	L	1.7	4.3
36+79	L	1.7	4.3
TOTALS		5.1	12.9

DRAINAGE			I-2 Class 'A' 12"		S-1 Cl. 'E' Conc. for Collar	E-12 Pipe Rem'l.
STATION						
FROM	TO	SIDE	L.F.		C.Y.	L.F.
25+00	25+40	R	40		0.4	
26+83		L				16
36+85		R				26
TOTALS			40		0.4	42

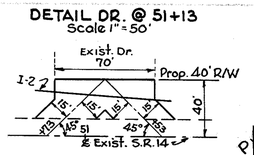
I-4 DRAINS			I-4		I-5 for I-4 45° Bend Ea.
		Elev. Exist I-4 tar-	6"	8" Outlet Pipe L.F.	
STATION	SIDE		L.F.		
39+85	R-L	1148.3	36	20	2
TOTALS			36	20	2

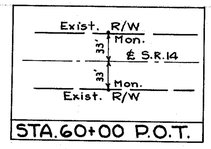


LINE SHEET STA. 20+00 TO STA. 44+00

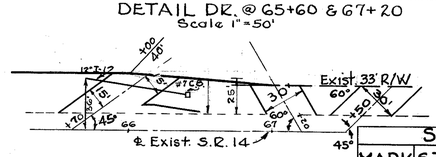
POR-14-18.03

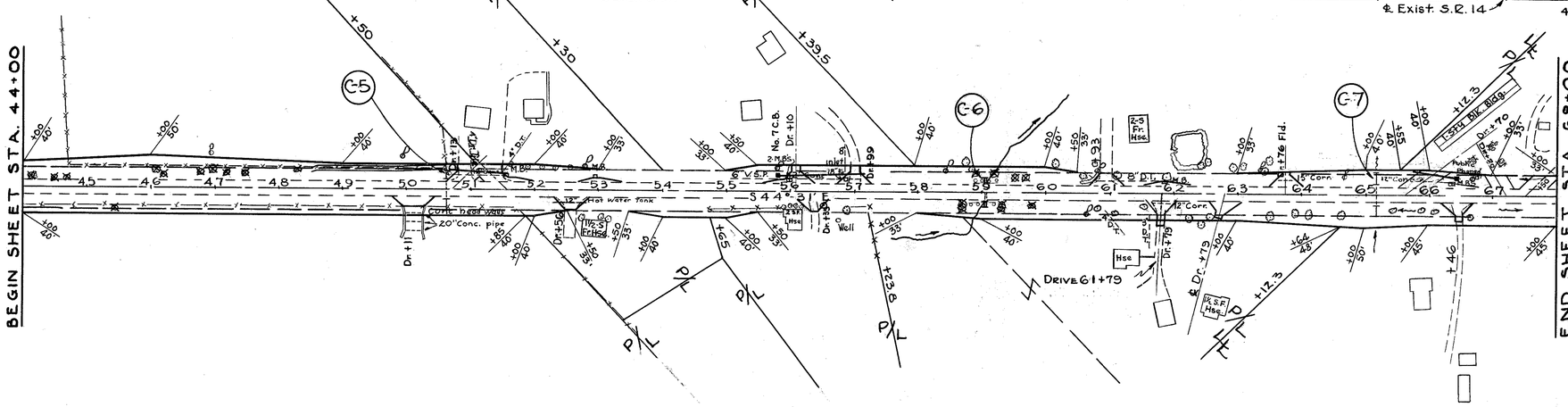
DETAIL DR. @ 51+13
Scale 1" = 50'





DETAIL DR. @ 65+60 & 67+20
Scale 1" = 50'





STRUCTURES 20' SPAN & UNDER

MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-5	50+62	Std. Pipe Culv. Extension	18"- 66'	83
C-6	59+06	Std. Conc. Bridge Ext.	10' Span	86
C-7	65+15	Std. Slab Top Culv. Ext.	4'x3'x71'	84

DRIVES

STATION	TYPE	SIDE	T-35 2" C.Y.	I-1 12" L.F.	I-1 15" L.F.	I-1 18" L.F.	I-18 5" C.Y.	I-18 6" C.Y.
50+11	Res.	R	7.7				19.1	
52+56	Res.	R	4.0				10.1	
56+35	Res.	R	4.0				10.1	
62+79	Res.	R	5.4				13.5	
66+46	Res.	R	4.9				12.3	
61+79	Res.	R	5.0				12.0	
56+10	Comb.	L	5.1				13.0	
56+99	Res.	L	4.5				11.4	
60+93	Res.	L	4.0				10.1	
63+76	Fld.	L						13.6
TOTALS			44.6				111.6	13.6

SODDING

STATION FROM	STATION TO	SIDE	L-10 G' Width S.Y.
48+00	50+60	L	177
TOTAL			177

MAILBOX APPR.

STATION	SIDE	T-35 2" C.Y.	I-18 5" C.Y.
52+92	L	1.7	4.3
61+84	L	1.7	4.3
TOTALS		3.4	8.6

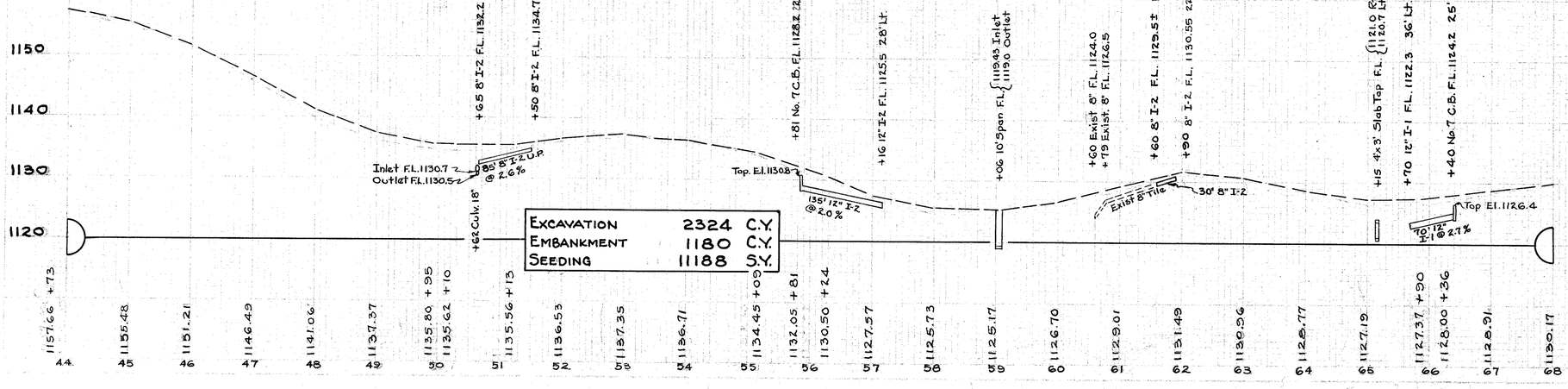
BUSINESS DRIVES

STATION	SIDE	T-35 2" C.Y.	I-1 12" L.F.	I-18 7" C.Y.	I-18 6" C.Y.
51+13	L	13.8		49.1	
65+70	L	7.8	70	32.9	
67+20	L	4.5		18.9	
67+50	L	5.5		23.1	
TOTALS		33.8	70	124.0	

GUARD RAIL

STATION FROM	STATION TO	SIDE	I-15 Guard Rail I-15.13 L.F.	I-15 Remove & Store L.F.	
58+80	59+17.5	R	22.5*		
58+81	59+18.5	R		37.5	
58+89.5	59+27	L	22.5*		
58+88	59+25.5	L		37.5	
TOTALS			45	75	

*Portion of guard rail carried on Struct. Detail Sht. 86.



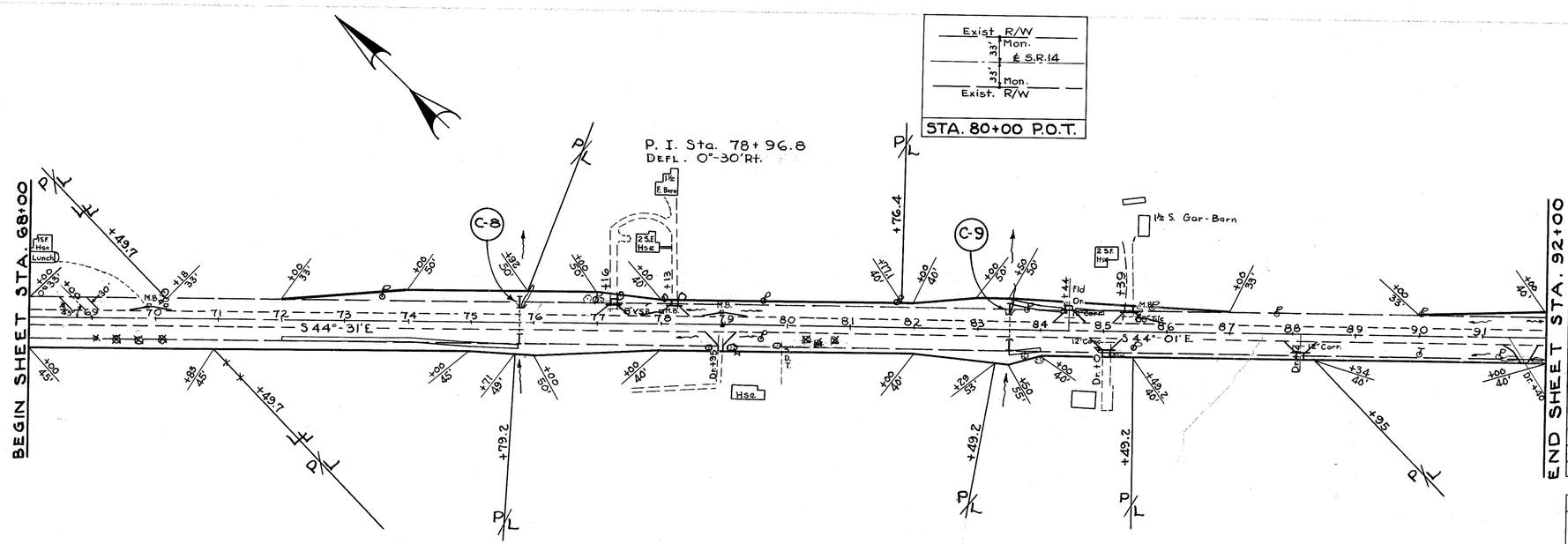
EXCAVATION	2324 C.Y.
EMBANKMENT	1180 C.Y.
SEEDING	11188 S.Y.

DRAINAGE

STATION FROM	STATION TO	SIDE	I-2 Class "A" 8" L.F.	I-2 Class "A" 12" L.F.	I-2 Class "A" 8" U.P. L.F.	E-12 Pipe Reml. L.F.	I-8 No. 7 C.B. Ea.
50+65	51+50	L			85		
55+81	57+16	L		135			
61+95	62+05	L	30				
65+91						21	
66+40		L					1
TOTAL			30	135	85	21	1

LINE SHEET STA 44+00 TO STA. 68+00

POR-14-18.03



STRUCTURES 20' SPAN & UNDER				
MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-8	75+77	Std. Slab Top Culv. Ext.	3'x2'x80'	87
C-9	83+52	Std. Conc. Box Culv. Ext.	4'x3'x72'	85

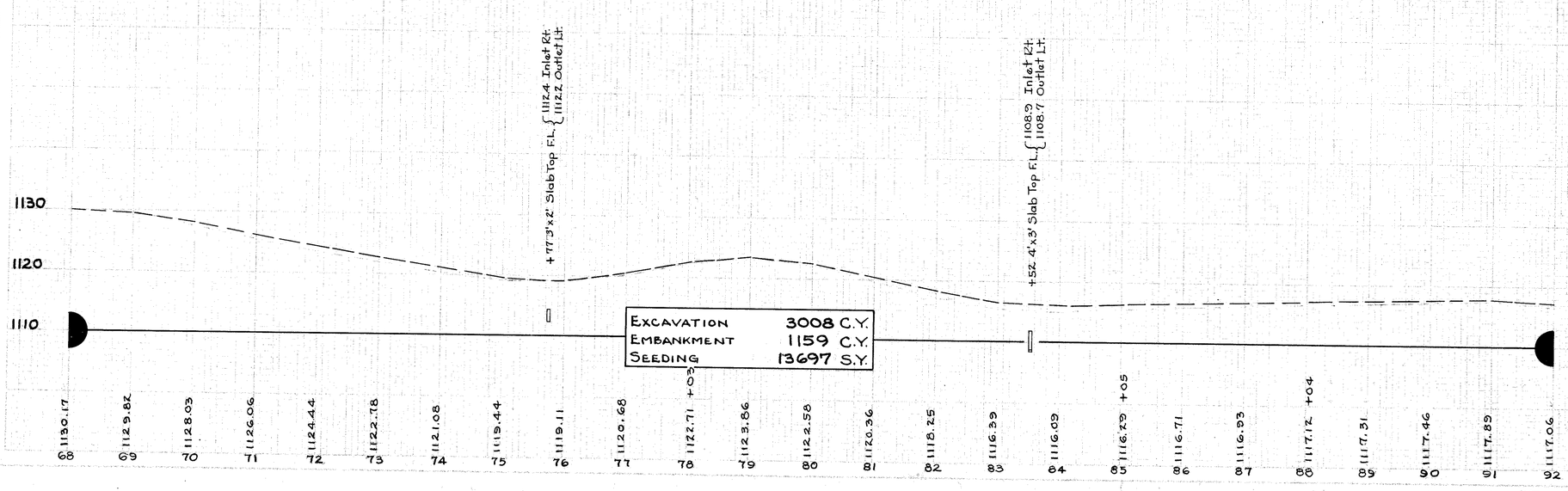
DRIVES			T-35	I-1			I-18	
			2"	12"	15"	18"	5"	6"
STATION	TYPE	SIDE	C.Y.	L.F.	L.F.	L.F.	C.Y.	C.Y.
78+95	Res.	R	4.5				11.4	
85+04	Res.	R	4.5	32			11.4	
88+12	Fld.	R		30				13.6
91+40	Res.	R	5.4				13.5	
77+16	Res.	L	4.5	30			11.4	
78+13	Comb.	L	5.1	30			13.0	
84+44	Fld.	L		22				13.6
85+39	Comb.	L	5.3	30			13.5	
TOTALS			29.3	174			74.2	27.2

GUTTERS			L-10 6' Width
STATION			
FROM	TO	SIDE	S.Y.
72+00	75+75	R	250
83+50	84+00	R	33
83+50	84+32	L	55
84+54	85+00	L	31
TOTAL			369

MAILBOX APPR.		T-35 2"	I-18 5"
STATION	SIDE	C.Y.	C.Y.
69+91	L	1.7	4.3
78+94	L	1.7	4.3
TOTALS		3.4	8.6

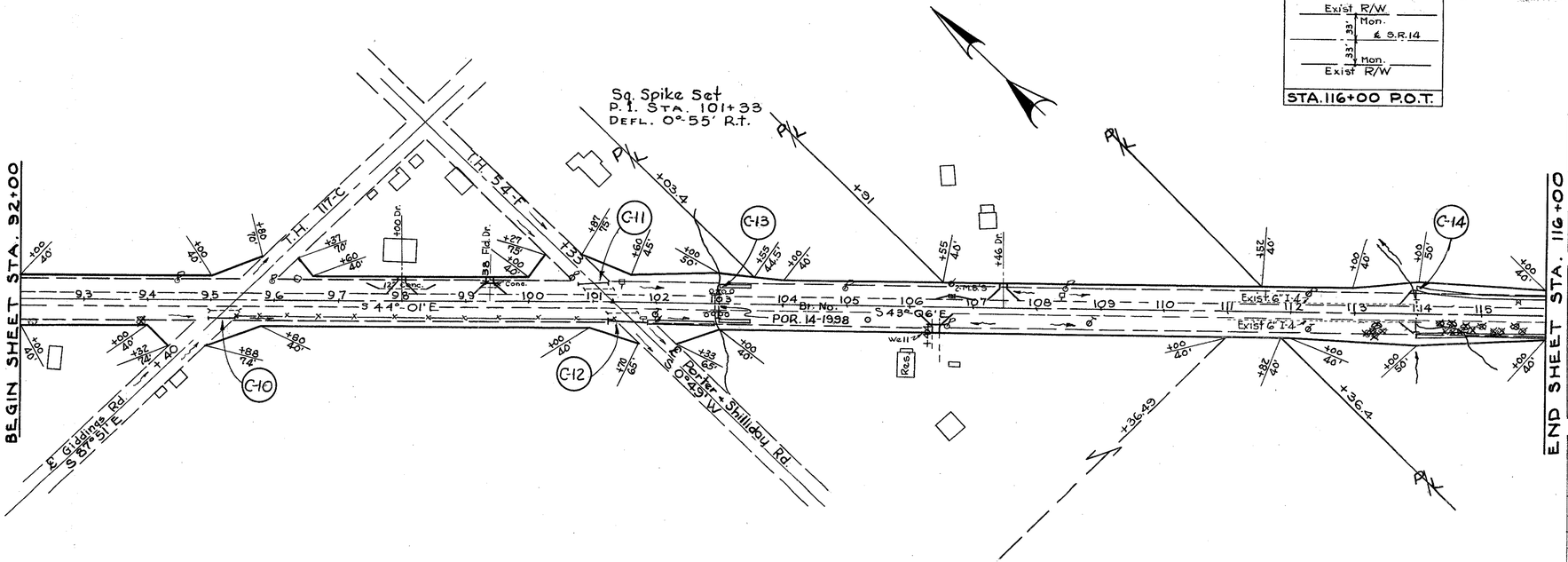
BUSINESS DRIVES		T-35 2"	I-1 12"	I-18 7"	I-18 6"
STATION	SIDE	C.Y.	L.F.	C.Y.	C.Y.
69+00	L	5.5		23.1	
TOTALS		5.5		23.1	

DRAINAGE					
STATION					E-12 Pipe Rem'l
FROM	TO	SIDE			L.F.
84+44		L			16
85+04		R			20
88+12		R			15
TOTAL					51



LINE SHEET STA. 68+00 TO STA. 92+00

POR-14-18.03



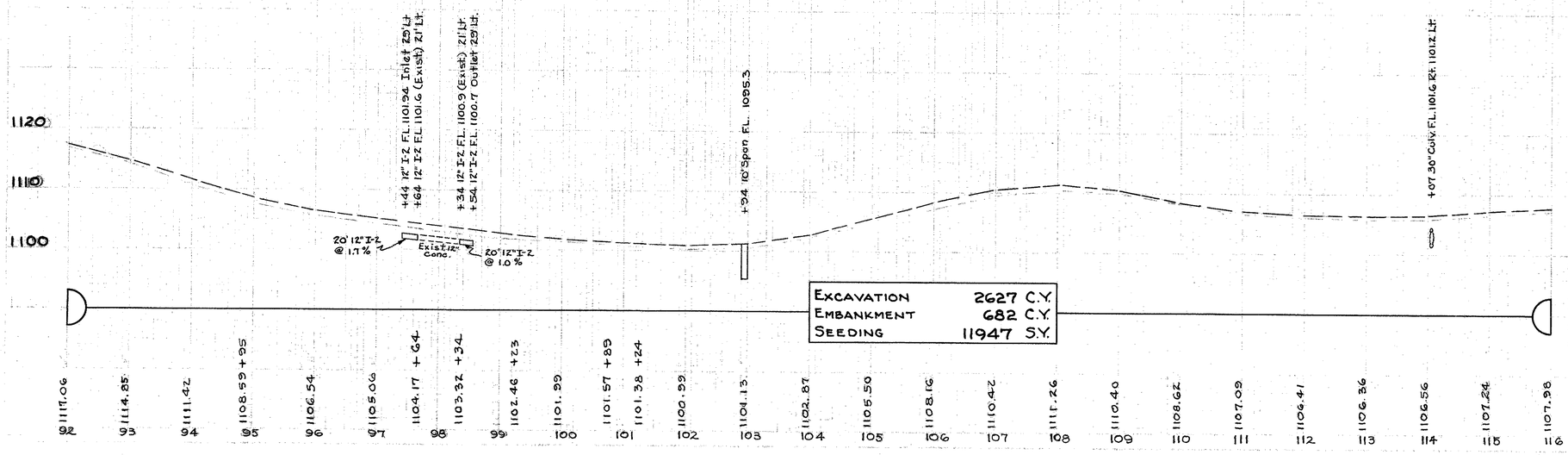
STRUCTURES 20' SPAN & UNDER				
MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-10	*0+42 Rt	Standard Pipe Culvert	12"x42'	83
C-11	*0+43 Lt	Standard Pipe Culvert	12"x44'	83
C-12	*0+45 Rt	Standard Pipe Culvert	12"x64'	83
C-13	102+94	Std. Conc. Bridge Ext.	10'Span	88
C-14	114+07	Std. Pipe Culv. Extension	30"x68'	83

*C-10 Sta. on T.H. 117
*C-11 & C-12 Sta. on T.H. 54

DRIVES			T-35	I-1			I-18	
STATION	TYPE	SIDE	2" C.Y.	12" L.F.	15" L.F.	18" L.F.	5" C.Y.	6" C.Y.
106+44	Res.	R	4.5	30			11.4	
98+00	Res.	L	4.5				11.4	
99+38	Fld.	L		30				13.6
107+46	Res.	L	4.5				11.4	
TOTALS			13.5	60			34.2	13.6

GUTTERS					
STATION			I-10 6' Width	I-10 8' Width	
FROM	TO	SIDE	S.Y.	S.Y.	
101+88	102+90	R	68		
103+00	103+50	R	33		
103+00	103+50	L	33		
114+00	114+80	R		71	
114+80	116+00	R	80		
114+00	116+00	L	133		
TOTALS			347	71	

MAILBOX APPR.			
		T-35 2"	I-18 5"
STATION	SIDE	C.Y.	C.Y.
106+68	L	1.7	4.3
TOTALS		1.7	4.3



GUARD RAIL					
STATION			I-15 Guard Rail I-15.13	I-15 Remove & Store	
FROM	TO	SIDE	L.F.	L.F.	
102+75.25	103+12.75	L-R	49*		
102+74.5	103+12	R		37.5	
102+82.5	103+20	L		37.5	
TOTALS			49*	75	

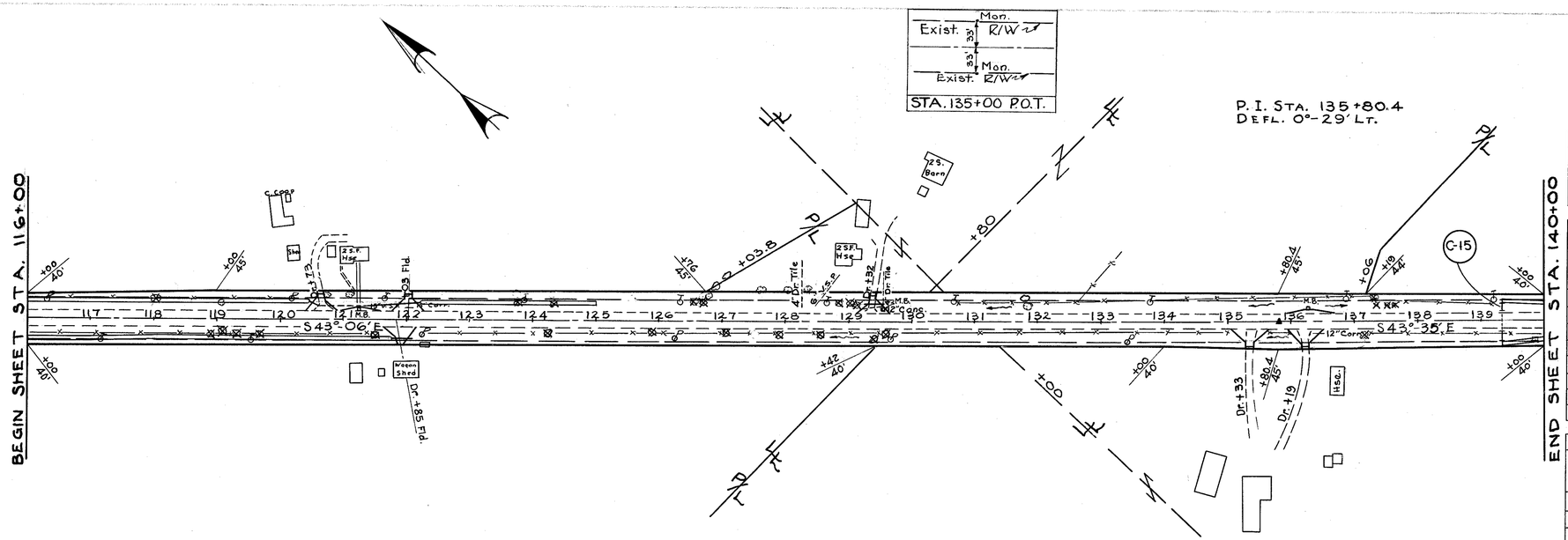
* Portion of guard rail carried on Struct. Detail Sht. 88.

I-4 DRAINS					
		I-4			I-5 for I-4 45° Bend Ea.
STATION	SIDE	Elev. Exist I-4 +or-	6" L.F.	8" Outlet Pipe L.F.	
113+80	R-L	1101.5	40	20	2
TOTALS			40	20	2

DRAINAGE						
			I2 Cl. "A" 12" U.P.		S-1 Cl. "E" Conc. for Collar	E-12 Pipe Rem'l
FROM	TO	SIDE	L.F.		C.Y.	L.F.
97+44	97+64	L	20		0.4	
98+34	98+54	L	20		0.4	
99+37		L				29
TOTALS			40		0.8	29

LINE SHEET STA. 92+00 TO STA. 116+00

POR-14-18.03



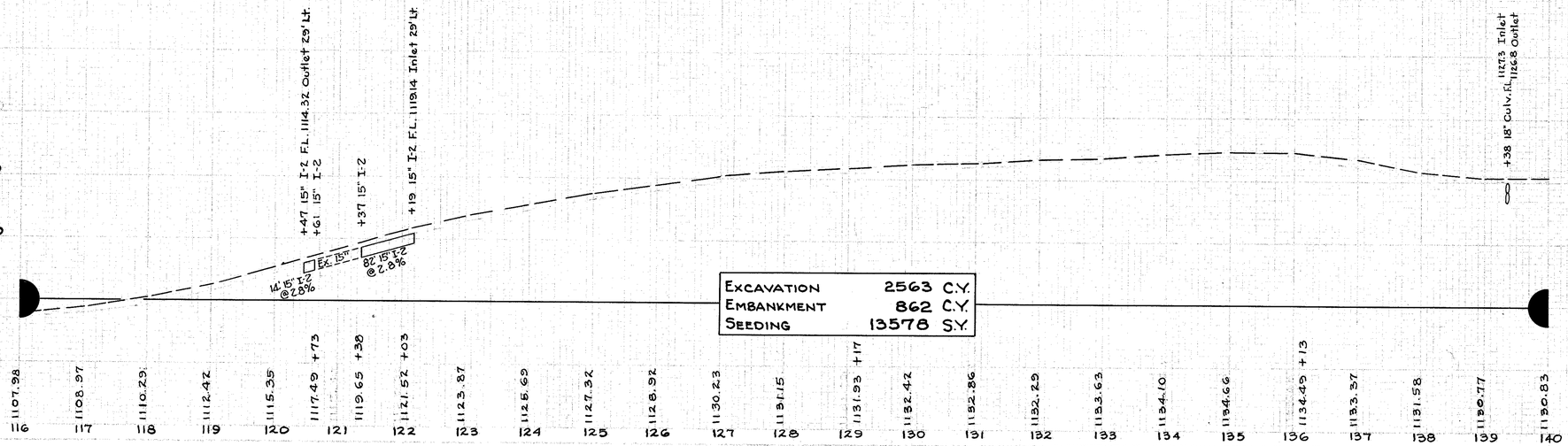
STRUCTURES 20' SPAN & UNDER				
MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-15	139+38	Std. Pipe Culv. Extension	18"x58'	83

DRIVES								
			T-35	I-1			I-18	
STATION	TYPE	SIDE	2" C.Y.	12" L.F.	15" L.F.	18" L.F.	5" C.Y.	6" C.Y.
121+85	Fld.	R		32				16.2
135+33	Res.	R	4.5				11.4	
136+19	Res.	R	4.5				11.4	
120+73	Res.	L	5.4				13.5	
122+03	Fld.	L						13.6
129+32	Res.	L	5.4	32			13.5	
TOTALS			19.8	64			49.8	27.2

GUTTERS			
FROM	TO	SIDE	L-10 6' Width S.Y.
116+00	121+75	R	383
116+00	120+47	L	298
122+19	125+00	L	187
139+35	140+00	R	43
139+35	140+00	L	43
TOTAL			954

MAILBOX APPR.			
		T-35	I-18
STATION	SIDE	2" C.Y.	5" C.Y.
121+25	L	1.7	4.3
136+29	L	1.7	4.3
TOTAL		3.4	8.6

DRAINAGE						
STATION			I-2 Class "A"		E-12	Class "E"
FROM	TO	SIDE	15" U.P. L.F.		Pipe Rem'l L.F.	Conc. for Collar C.Y.
120+47	120+61	L	14			0.44
121+37	122+19	L	82		16	0.44
129+32		L			36	
TOTALS			96		52	0.88

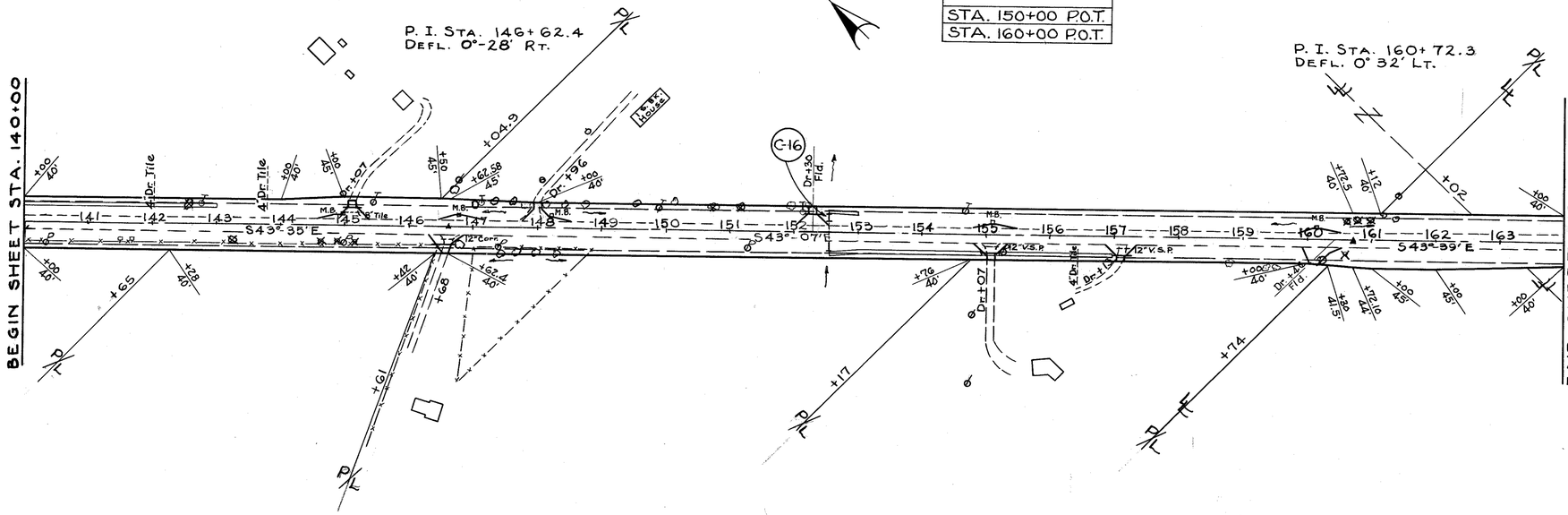


LINE SHEET STA. 116+00 TO STA. 140+00

POR-14-18.03

Exist. R/W		
	33'	Mon.
	33'	℄ S.R. 14
		Mon.
Exist. R/W		

STA. 150+00 P.O.T.
STA. 160+00 P.O.T.



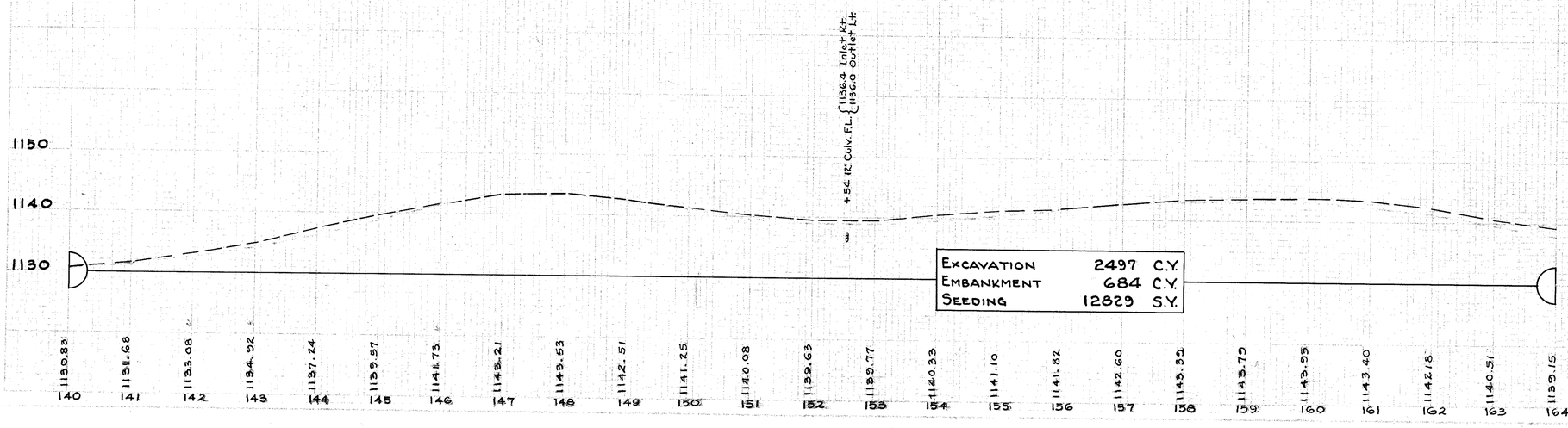
STRUCTURES 20' SPAN & UNDER				
MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-16	152+54	Std. Pipe Culv. Extension	12"x 56'	83

DRIVES			T-35	I-1			I-18	
			2"	12"	15"	18"	5"	6"
STATION	TYPE	SIDE	C.Y.	L.F.	L.F.	L.F.	C.Y.	C.Y.
146+68	Res.	R	50	34			12.5	
155+07	Res.	R	4.5	28			11.4	
157+11	Fld.	R		28				13.6
160+46	Fld.	R						16.8
145+07	Comb.	L	5.1	32			13.0	
147+96	Comb.	L	5.3				13.5	
152+30	Fld.	L		28				13.6
			19.9	150			50.4	44.0

GUTTERS				
STATION			L-10 6' Width	
From	To	Side	S.Y.	
140+00	143+00	L	200	
152+50	154+90	R	160	
155+18	156+96	R	118	
152+50	153+00	L	33	
TOTAL			511	

MAILBOX APPR.			
		T-35 2"	I-18 5"
STATION	SIDE	C.Y.	C.Y.
146+78	L	1.7	4.3
155+10	L	1.7	4.3
160+14	L	1.7	4.3
TOTALS		5.1	12.9

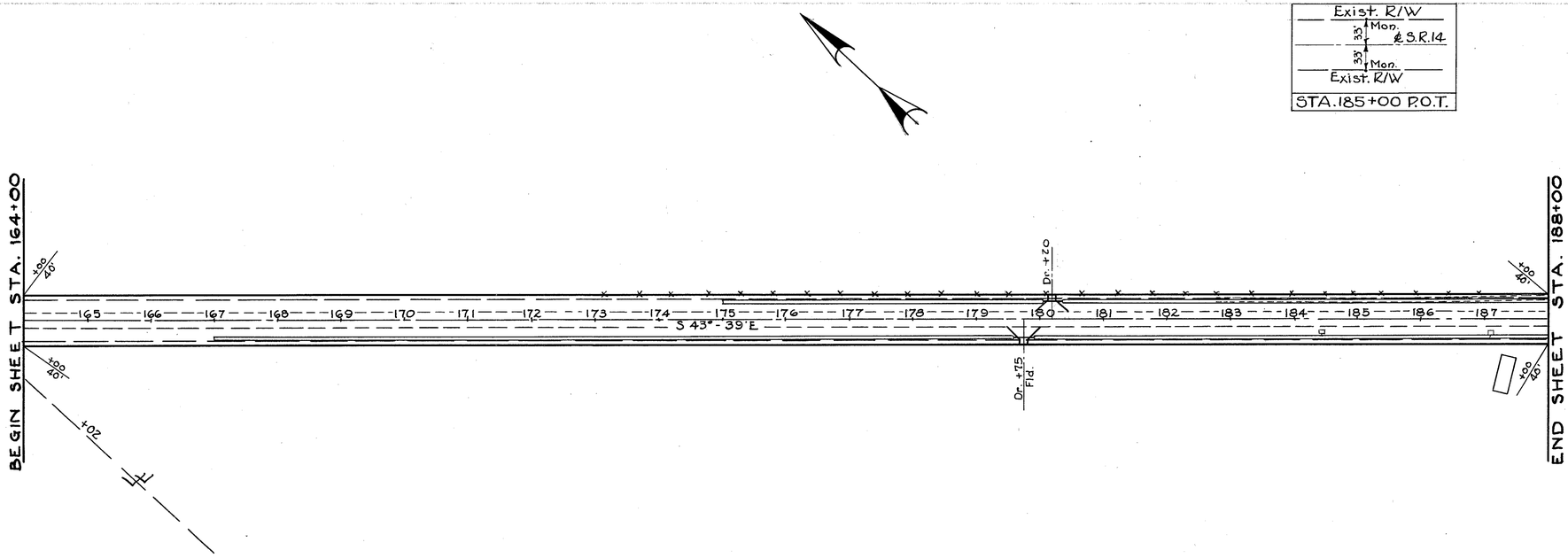
DRAINAGE					
		I-2 Class 'A'			E-12 Pipe Rem'l. L.F.
STATION					
From	Side				
146+68	R				18
155+07	R				20
157+11	R				26
TOTAL					64



EXCAVATION	2497	C.Y.
EMBANKMENT	684	C.Y.
SEEDING	12829	S.Y.

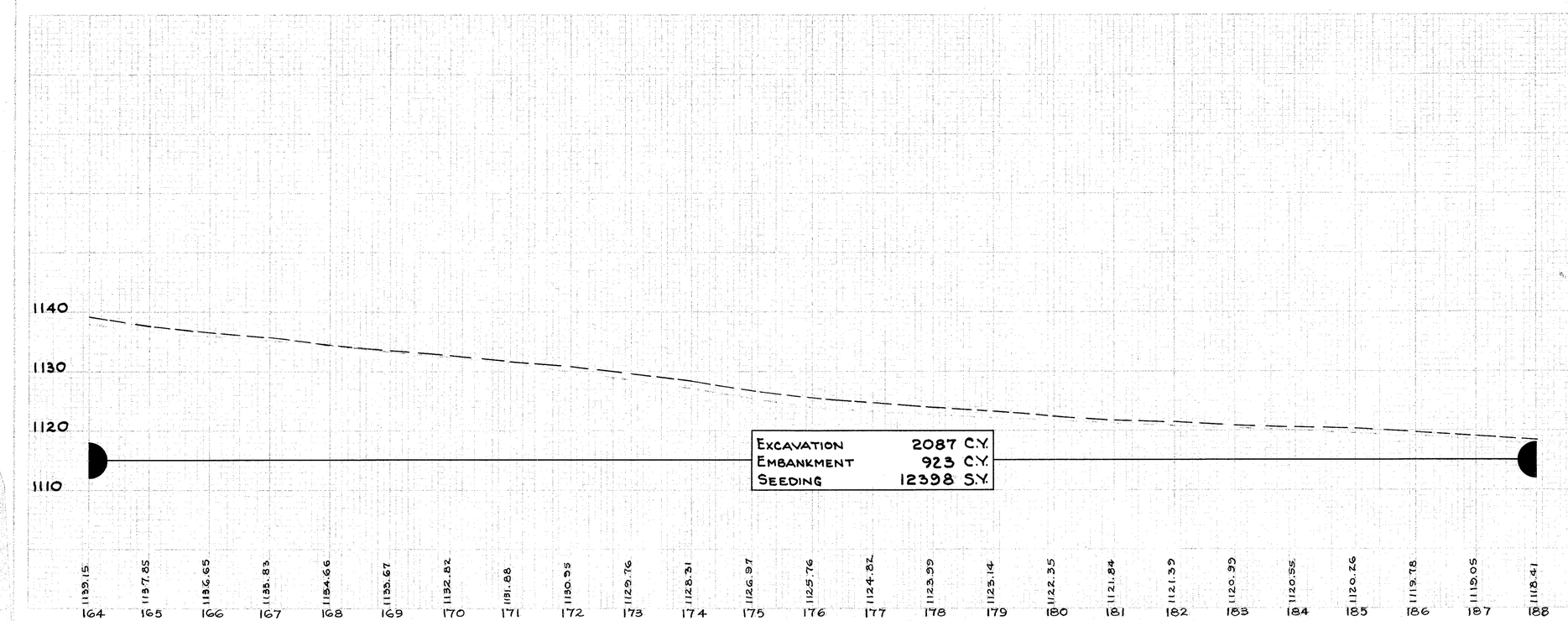
LINE SHEET STA 140+00 TO STA 164+00

POR-14-18.03



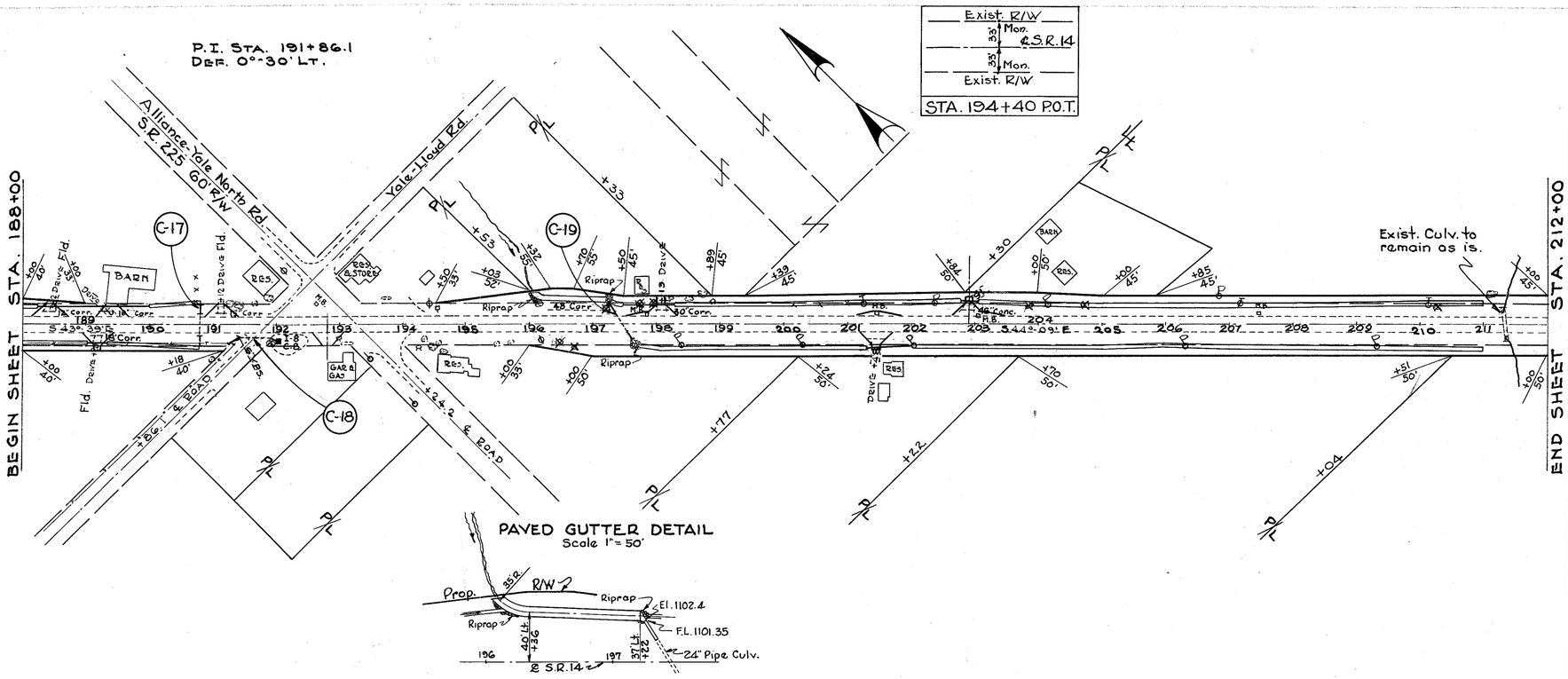
GUTTERS				
STATION			L-10 6' Width	
FROM	TO	SIDE	S.Y.	
167+00	179+58	R	838	
179+90	188+00	R	540	
175+00	180+05	L	338	
180+35	188+00	L	509	
TOTAL			2225	

DRIVES							
				I-1M-64(i)		I-18	
				18"x11"	22"x13"	5"	6"
STATION	TYPE	SIDE		Pipe Arch 16 Gage L.F.	Pipe Arch 14 Gage L.F.	C.Y.	C.Y.
179+75	Fld.	R			32		13.6
180+20	Fld.	L		30			13.6
TOTALS				30	32		27.2



LINE SHEET STA. 164+00 TO STA. 188+00

POR-14-18.03



*C-18 Sta. on T.H. 55

STRUCTURES 20' SPAN & UNDER

MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-17	190+78	Std. Slab Top Culv. Ext.	3'x2'x63'	87
C-18	*0+28	Std. Pipe Culvert Exten.	12" x 78'	83
C-19	197+45.8	Std. Pipe Culv. Extension	24" x 78'	83

DRIVES

STATION	TYPE	SIDE	T-35 2" C.Y.	I-1 12" L.F.	I-1 58"x36" L.F.	I-18 7" C.Y.	I-18 5" C.Y.	I-18 6" C.Y.	I-1M-64(1) 25"x18" Pipe Arch 12 Gage L.F.
189+20	Fld.	R						13.6	30
201+48	Res.	R	4.5				11.4		
188+42	Fld.	L						13.6	
189+40	Res.	L	4.0				10.1		
191+12	Fld.	L						12.0	
198+13	Comb	L	5.5				13.8		
202+91	Comb	L	5.3		30		13.0		
201+45	M.B.	L	1.7				4.3		
192+80	Bus.	R	5.0			17.0			
			26.0		30	17.0	52.6	39.2	30

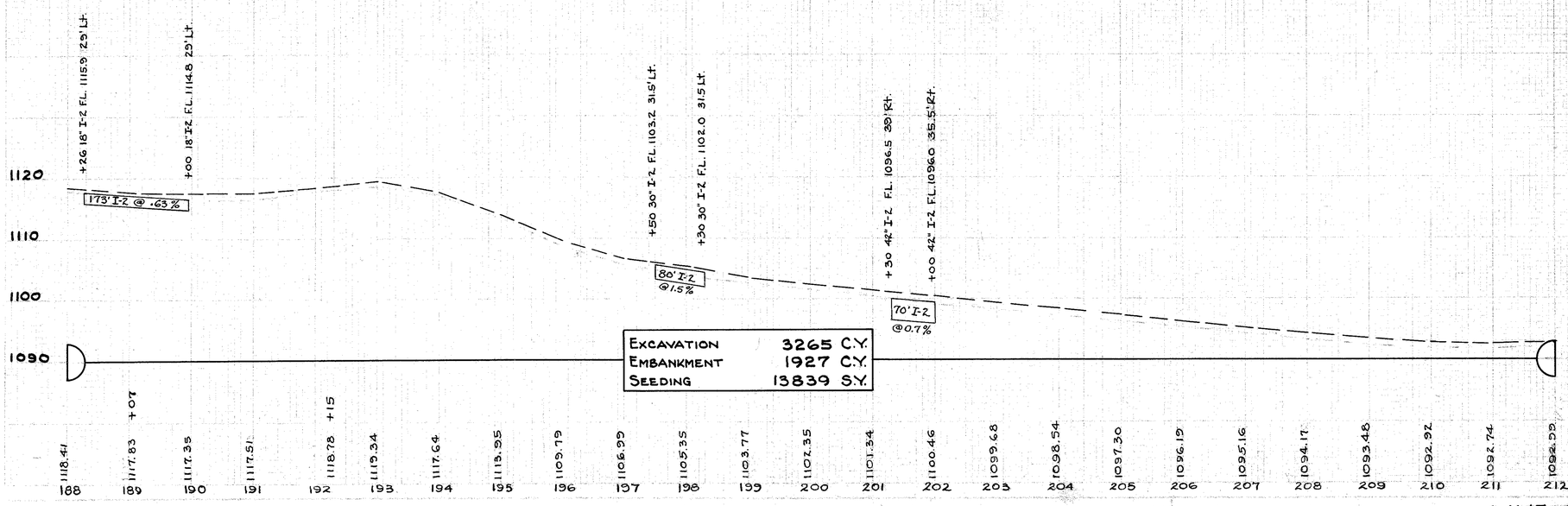
GUTTERS

STATION From	STATION To	SIDE	L-10 6' Width S.Y.	L-10 7' Width S.Y.	I-14 Mod.* Type B L.F.
188+00	190+78	R	165		
188+00	190+78	L	70		
197+60	211+00	R		988	
196+05	197+22	L			117
197+22	211+00	L		986	
TOTALS			235	1974	117

*See Detail Sht. No. 2

DRAINAGE

STATION From	STATION To	SIDE	I-2 Class "A" 18" U.P. L.F.	I-2 Class "A" 30" U.P. L.F.	I-2 Class "A" 42" U.P. L.F.	E-12 Pipe Rem'l L.F.	I-10 Riprap Type "A" S.Y.
188+26	190+00	L	174			42	
189+20		R				20	
196+17		L					8
196+33	197+35	L				102	
197+22		L					19
197+64		R					7
197+50	198+30	L		80		20	
201+30	202+00	R			70	24	
202+91		L				24	
TOTAL			174	80	70	232	34



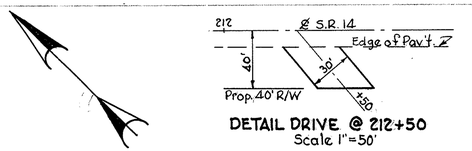
EXCAVATION	3265 C.Y.
EMBANKMENT	1927 C.Y.
SEEDING	13839 S.Y.

LINE SHEET STA. 188+00 TO STA. 212+00

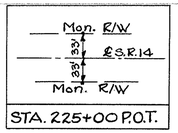
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

14
100

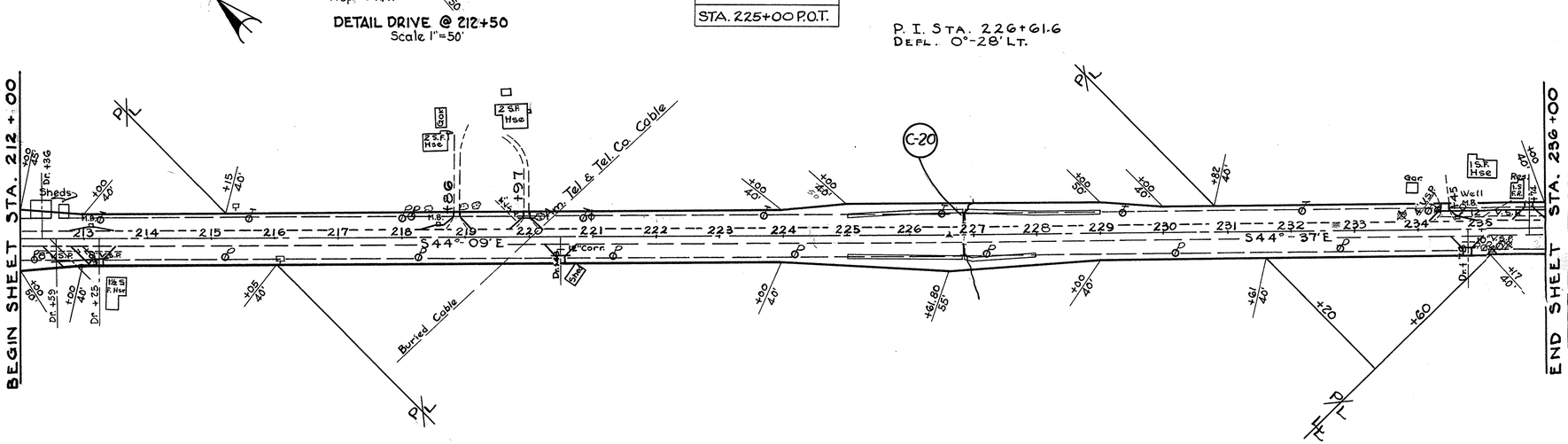
POR-14-18.03



DETAIL DRIVE @ 212+50
Scale 1"=50'



STA. 225+00 P.O.T.



STRUCTURES 20' SPAN & UNDER

MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-20	226+86	Std Slab Top. Culv. Ext.	6'x3'x66	89

DRIVES

STATION	TYPE	SIDE	T-35 2" C.Y.	I-1 12" L.F.	I-1 15" L.F.	I-1 18" L.F.	I-18 5" C.Y.	I-18 6" C.Y.
213+25	Res.	R	4.5				11.4	
220+48	Fld.	R		28				13.6
234+78	Fld.	R		28				13.6
218+86	Comb.	L	5.1				13.0	
219+97	Fld.	L		28				13.6
234+45	Comb	L	5.3				13.5	
235+74	Res.	L	4.5				11.4	
			19.4	84			49.3	40.8

GUTTERS

STATION From	STATION To	SIDE	L-10 6' Width S.Y.
225+00	226+82	R	121
225+00	226+82	L	121
226+90	228+00	R	73
226+90	229+00	L	140
TOTAL			455

MAILBOX APPR.

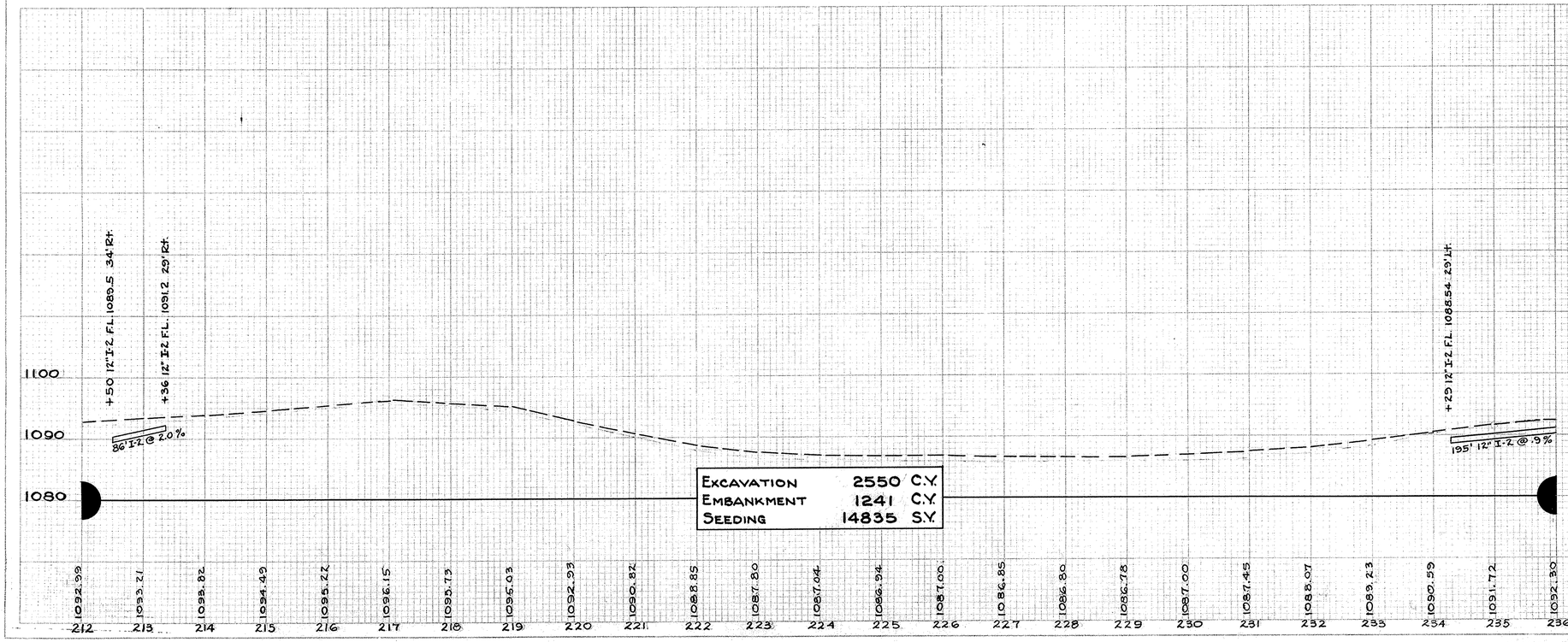
STATION		T-35 2" C.Y.	I-18 5" C.Y.
213+10	L	1.7	4.3
TOTALS		1.7	4.3

BUSINESS DRIVES

STATION	SIDE	T-35 2" C.Y.		I-18 5" C.Y.	I-18 7" C.Y.
212+50	R				25.4
TOTAL					25.4

DRAINAGE

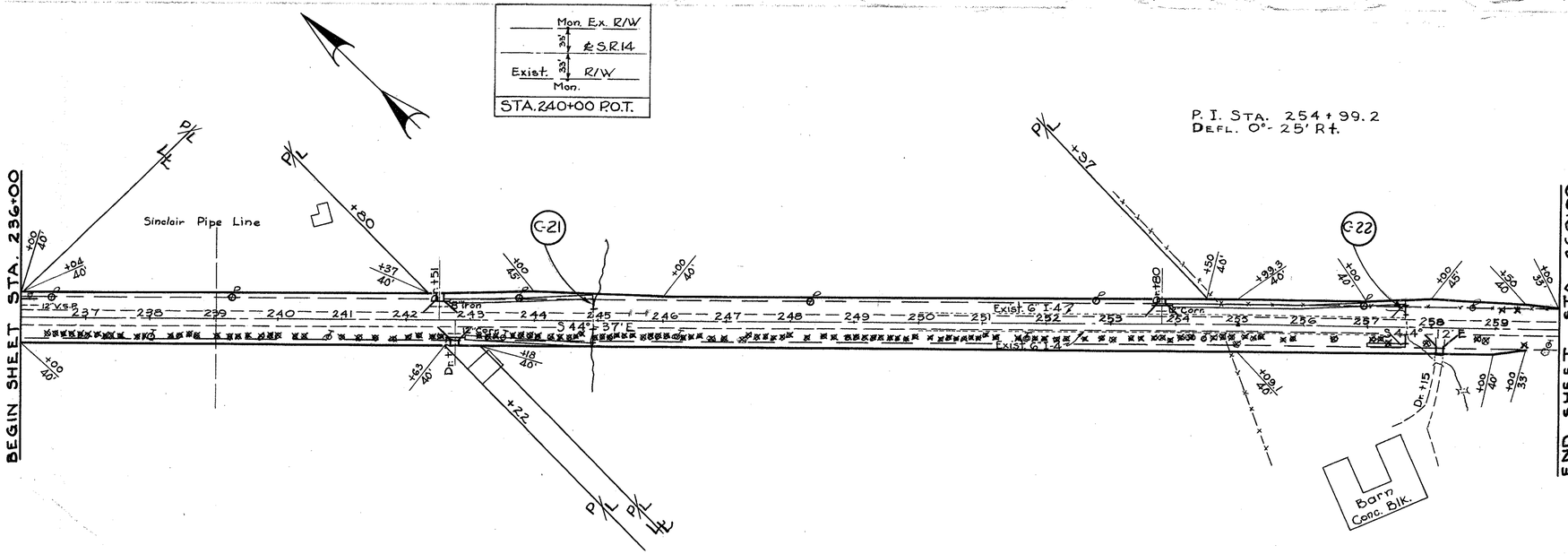
FROM	TO	SIDE	I-2 Class "A" 12" U.P. L.F.		E-12 Pipe Rem'l. L.F.
212+50	213+36	R	86		
220+48		R			16
234+29	236+00	L	171		165
234+78		R			22
TOTALS			257		203



EXCAVATION	2550 C.Y.
EMBANKMENT	1241 C.Y.
SEEDING	14835 S.Y.

LINE SHEET STA. 212+00 TO STA. 236+00

POR-14-18.03



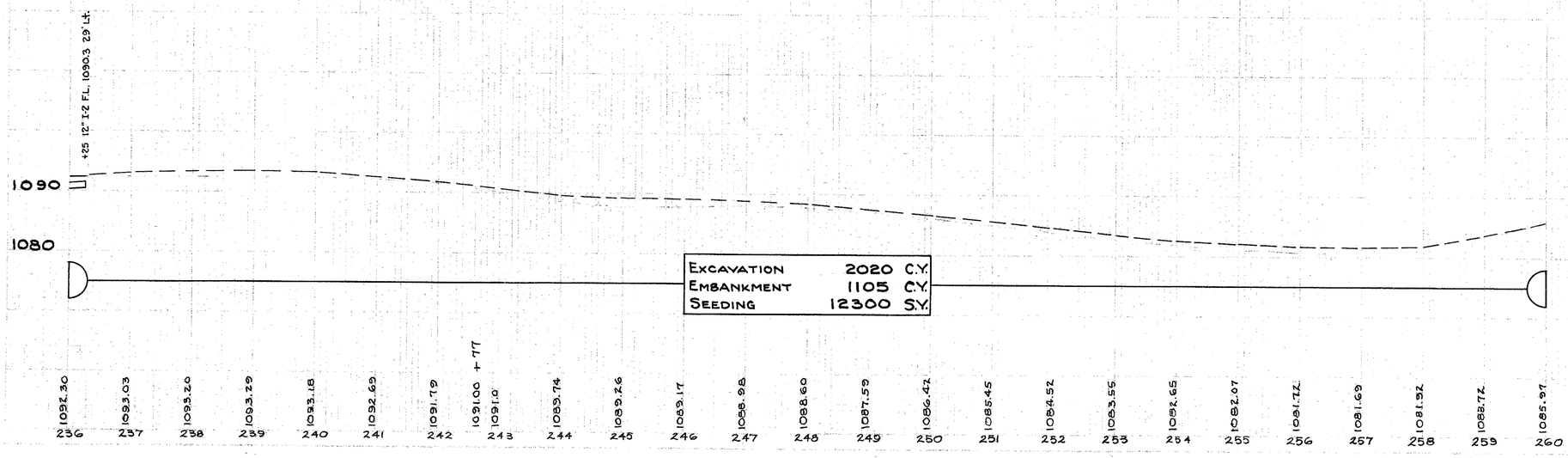
STRUCTURES 20' SPAN & UNDER				
MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-21	244+92	Std. Pipe Culv. Ext.	18"x68'	83
C-22	257+61	Std. Slab Top Culv. Ext.	8'x2'x58'	90

DRIVES									
			T-35	I-1			I-18		I1M-64(1)
STATION	TYPE	SIZE	2" C.Y.	12" L.F.	15" L.F.	18" L.F.	5" C.Y.	6" C.Y.	18"x11" Pipe Arch 16 Gage L.F.
242+77	Fld.	R		30				13.6	
258+15	Fld.	R						13.6	
242+51	Res.	L	4.5	30			11.4		
253+80	Fld	L						13.6	30
TOTALS			4.5	60			11.4	40.8	30

GUTTERS				
STATION			L-10 6' Width	
FROM	TO	SIDE	S.Y.	
242+92	244+92	R	133	
242+66	244+92	L	150	
257+00	257+60	R	40	
253+95	257+60	L	243	
TOTAL			566	

I-4 DRAINS					
		I-4			I-5 for I-4 45° Bend Ea.
STATION	SIDE	Elev. Exist I-4 ter-	6" L.F.	8" Outlet Pipe L.F.	
257+41	R-L	1077.7	30	20	2
TOTALS			30	20	2

DRAINAGE					
			I-2 Class "A"		E-12 Pipe Rem'l
STATION			12" U.P		
FROM	TO	SIDE	L.F.		L.F.
236+00	236+25	L	25		25
242+77		R			19
253+80		L			16
TOTAL			25		60



LINE SHEET STA. 236+00 TO STA. 260+00

SHEET NO.	STATE	PROJECT	TYPE OF WORK
2	OHIO		

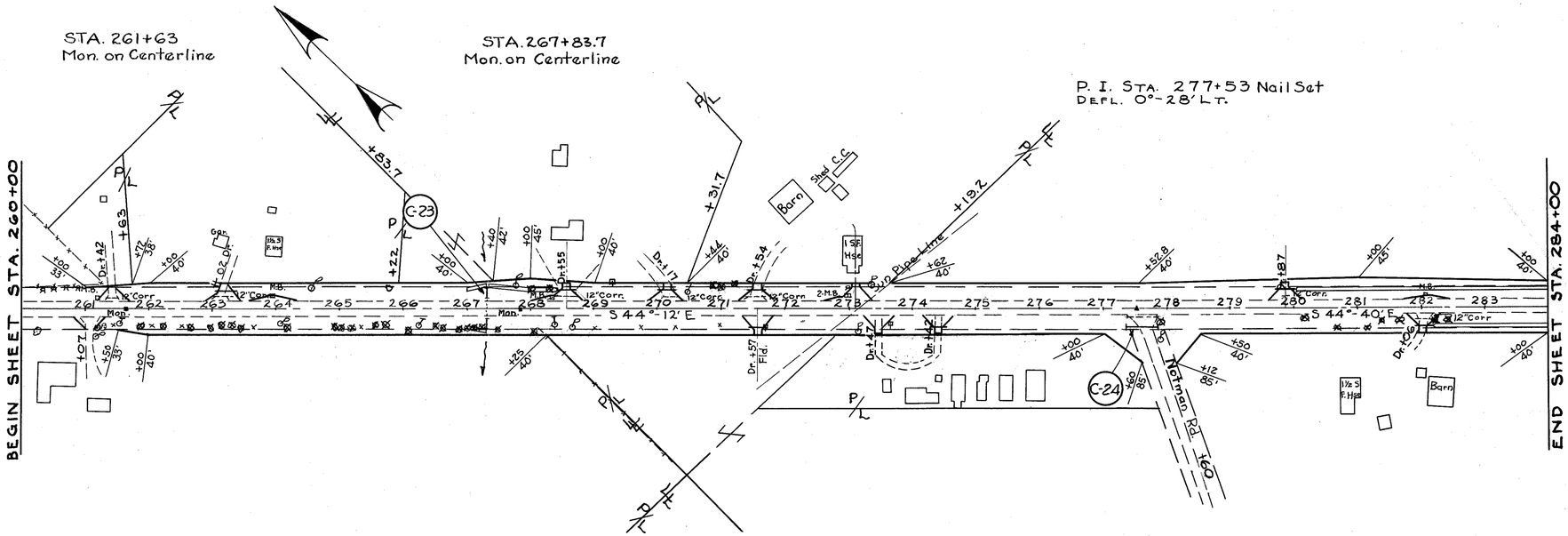
16
100

POR-14-18.03

STA. 261+63
Mon. on Centerline

STA. 267+83.7
Mon. on Centerline

P. I. STA. 277+53 Nail Set
DEFL. 0°-28' LT.



* C-24 Sta. on T.H. 68

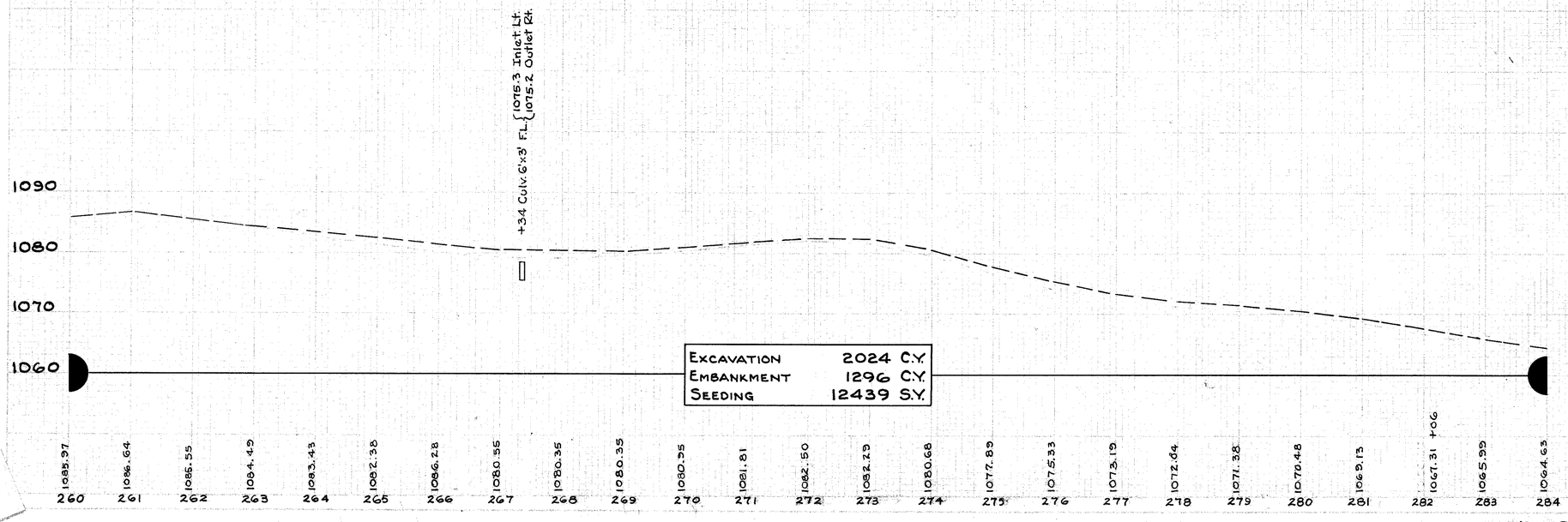
STRUCTURES 20' SPAN & UNDER				
MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-23	267+34	Std. Conc. Box Culv. Ext.	6'×3'×62'	89
C-24	* 0+19	Standard Pipe Culvert	12"×52'	83

DRIVES									
			T-35	I-1			I-18		I1M-64(i)
STATION	TYPE	SIDE	2" C.Y.	12" L.F.	15" L.F.	18" L.F.	5" C.Y.	6" C.Y.	18"×11" Pipe Arch 16 Gage L.F.
261+07	Res.	R	4.0				10.1		
271+57	Fld.	R		30				13.6	
273+47	Res.	R	4.5				11.4		
274+42	Res.	R	4.5	30			11.4		
282+06	Res.	R	4.5	30			11.4		
261+42	Fld.	L						12.5	
263+02	Res.	L	5.0	34			12.5		
268+55	Comb	L	5.1	30			13.0		
270+17	Fld.	L		30				13.6	
271+54	Res.	L	4.5	30			11.4		
273+09	Fld.	L						13.6	
279+87	Fld.	L						13.6	30
TOTALS			32.1	214			81.2	66.9	30

GUTTERS			
STATION			L-10 6' Width
FROM	TO	SIDE	S.Y.
267+00	267+30	R	20
267+00	267+30	L	20
267+35	268+40	L	70
282+21	284+00	R	119
280+02	284+00	L	264
TOTAL			493

MAILBOX APPR.			
		T-35 2"	I-18 5"
STATION	SIDE	C.Y.	C.Y.
263+93	L	1.7	4.3
272+99	L	1.7	4.3
282+08	L	1.7	4.3
TOTAL		5.1	12.9

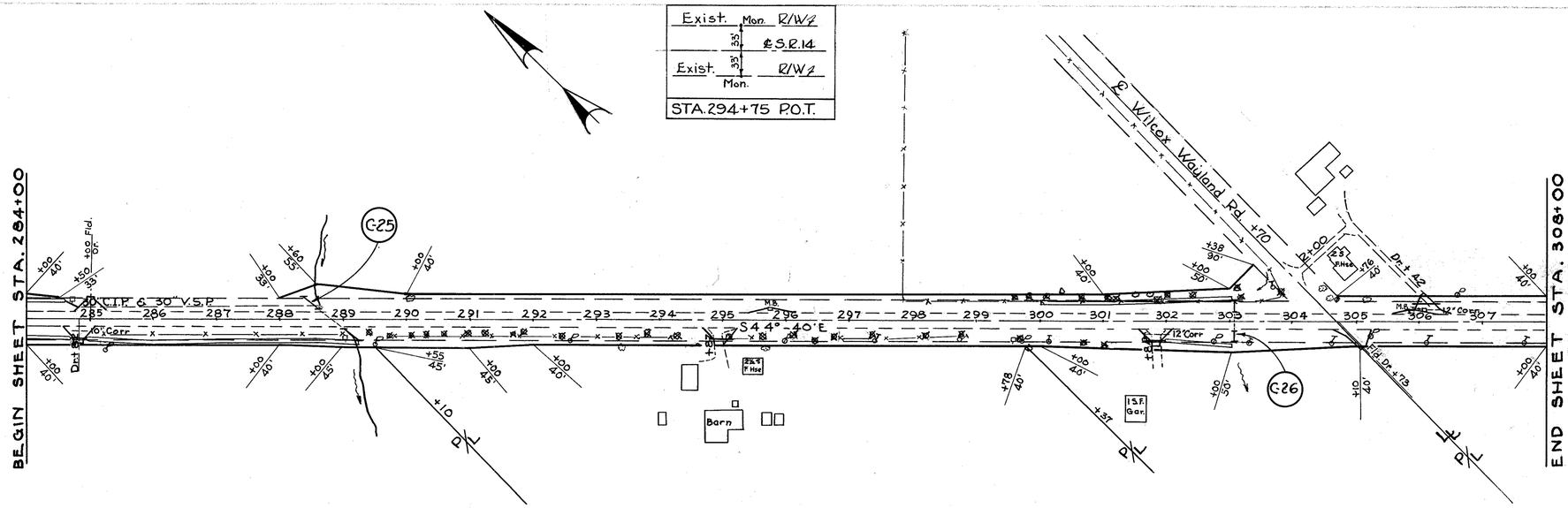
DRAINAGE					
			I-2 Class "A"		E-12 Pipe Rem'l
STATION					
FROM	TO	SIDE	L.F.	L.F.	L.F.
263+02		L			26
268+55		L			38
270+17		L			30
271+54		L			32
279+87		L			16
282+06		R			24
261+42		L			18
TOTAL					184



EXCAVATION	2024 C.Y.
EMBANKMENT	1296 C.Y.
SEEDING	12439 S.Y.

LINE SHEET STA. 260+00 TO STA. 284+00

POR-14-18.03



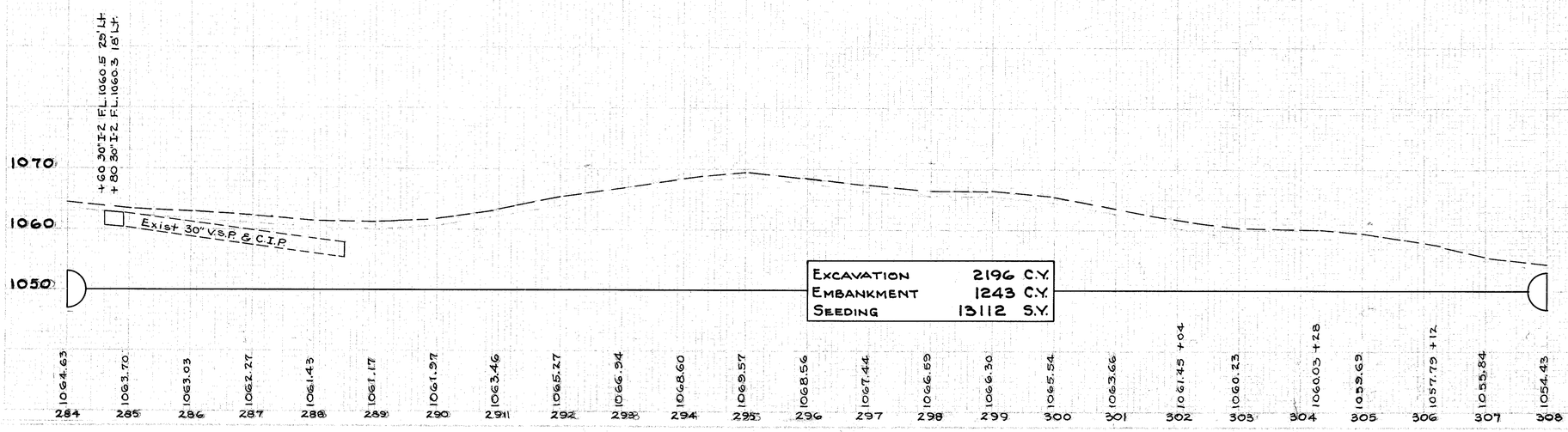
STRUCTURES 20' SPAN & UNDER				
MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-25	288+87	Std. Conc. Box Culv. Ext.	4'x4'x110'	91
C-26	303+07	Std. Slab Top Culv. Ext.	4'x2'x69'	92

DRIVES									
			T-35	I-1			I-18		I-1 M-64(i)
STATION	TYPE	SIDE	2" C.Y.	12" L.F.	15" L.F.	18" L.F.	5" C.Y.	6" C.Y.	18"x11" Pipe Arch 16' Gage L.F.
284+82	Fld.	R						13.6	30
294+87	Res.	R	5.4				13.5		
301+84	Res.	R	4.5	30			11.4		
304+73	Fld.	R						16.8	
285+00	Fld.	L						12.0	
306+42	Fld.	L		40				16.8	
TOTALS			9.9	70			24.9	59.2	30

GUTTERS				
STATION			L-10 6' Width	
FROM	TO	SIDE	S.Y.	
284+00	289+14	R	323	
284+00	284+60	L	40	
302+00	303+00	R	67	
300+00	303+00	L	200	
TOTAL			630	

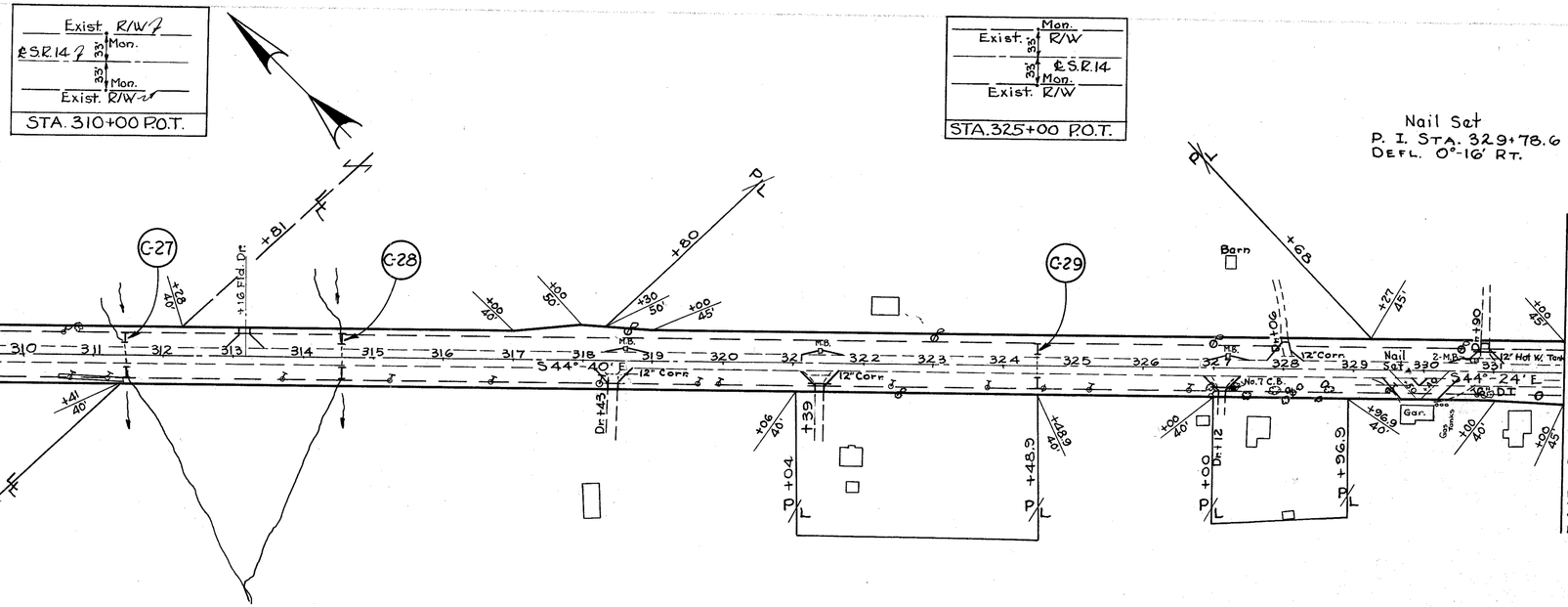
MAILBOX APPR.			
		T-35 2"	I-18 5"
STATION	SIDE	C.Y.	C.Y.
295+75	L	1.7	4.3
306+00	L	1.7	4.3
TOTAL		3.4	8.6

DRAINAGE						
STATION			I-2 Class "A" 30" U.P.		E-12 Pipe Rem'l	S-1 Cl. "E" Conc. for Collar
FROM	TO	SIDE	L.F.		L.F.	C.Y.
284+60	284+80	L	20			1.0
284+82		R			16	
301+85		R			40	
306+22		L			18	
TOTALS			20		74	1.0



LINE SHEET STA. 284+00 TO STA. 308+00

POR-14-18.03

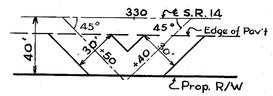


STRUCTURES 20' SPAN & UNDER				
MARK	STATION	TYPE	SIZE	DETAIL SHT NO
C-27	311+45	Std. Pipe Culv. Extension	24"x62.5'	83
C-28	314+50	Std. Pipe Culv. Extension	18"x64'	83
C-29	324+48	Std. Pipe Culv. Extension	18"x63'	83

DRIVES								
			T-35	I-1			I-18	
STATION	TYPE	SIDE	2" C.Y.	12" L.F.	15" L.F.	18" L.F.	5" C.Y.	6" C.Y.
318+43	Res.	R	4.5				11.4	
321+39	Res.	R	4.5	30			11.4	
327+12	Res.	R	4.5	28			11.4	
313+16	Fld	L						13.6
328+06	Fld.	L						13.6
330+90	Camb.	L	5.1	30			13.0	
TOTALS			18.6	88			47.2	27.2

GUTTERS				
STATION			L-10 6' Width	
FROM	TO	SIDE	S.Y.	
310+50	311+43	R	62	
TOTAL			62	

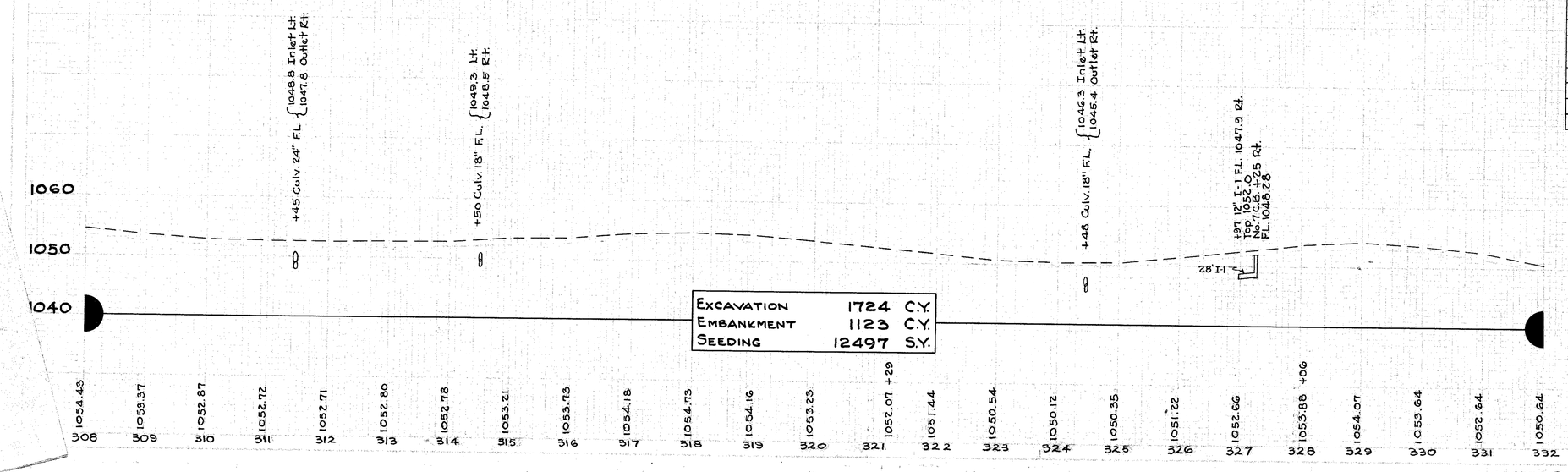
MAILBOX APPR.			
		T-35 2"	I-18 5"
STATION	SIDE	C.Y.	C.Y.
318+60	L	1.7	4.3
321+40	L	1.7	4.3
327+22	L	1.7	4.3
TOTALS		5.1	12.9



DETAIL DRIVE @ 330+00
Scale 1" = 50'

BUSINESS DRIVES				
		T-35 2"		I-18
			7"	6"
STATION	SIDE	C.Y.	C.Y.	C.Y.
330+00	R	12.9	45.2	
TOTALS		12.9	45.2	

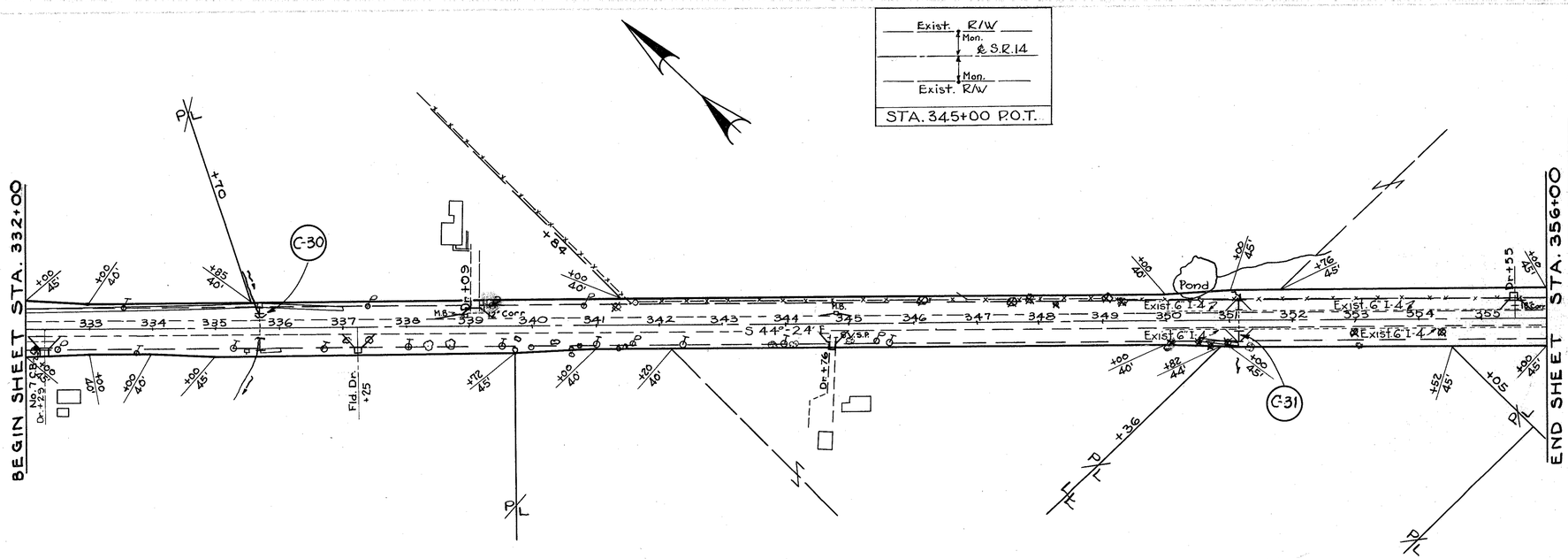
DRAINAGE					
		I-20 "A"		I-8 No. 7 C.B. Eq.	E-12 Pipe Rem'l L.F.
STATION					
FROM	SIDE				
318+43	R				20
321+39	R				18
327+25	R			1	
328+06	L				16
330+90	L				20
TOTALS				1	74



EXCAVATION	1724	C.Y.
EMBANKMENT	1123	C.Y.
SEEDING	12497	S.Y.

LINE SHEET STA. 308+00 TO STA. 332+00

POR-14-18.03



STRUCTURES 20' SPAN & UNDER				
MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-30	335+67	Std. Pipe Culv. Extension	24"x66'	83
C-31	351+13	Std. Slab Top Culv. Ext.	6'x2'x65'	92

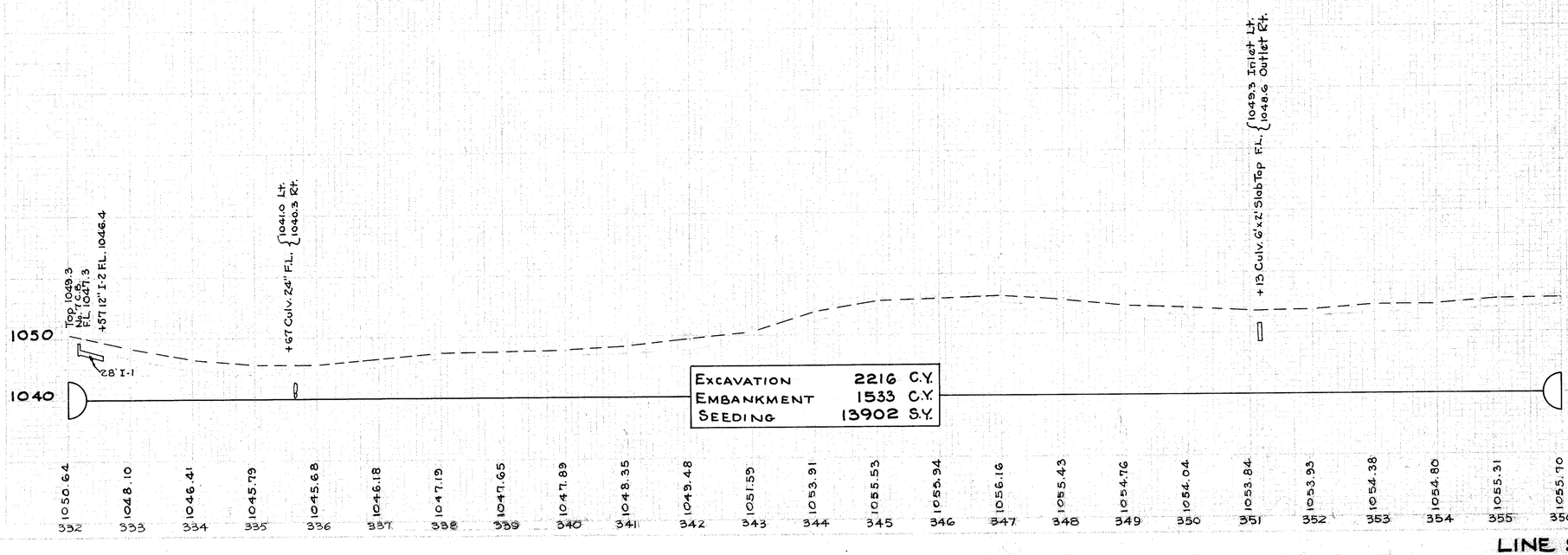
DRIVES									
			T-35	I-1			I-18		I-1M-6.4(i)
STATION	TYPE	SIDE	2" C.Y.	12" L.F.	15" L.F.	18" L.F.	5" C.Y.	6" C.Y.	22"x13" Pipe Arch 14 Gage L.F.
332+29	Res.	R	4.5	28			11.4		
337+25	Fld.	R		30				13.6	
344+76	Res.	R	4.5				11.4		
399+09	Comb.	L	5.1		30		13.0		
355+55	Fld.	L						13.6	30
TOTALS			14.1	58	30		35.8	27.2	30

GUTTERS				
STATION			L-10 6' Width	
From	To	Side	S.Y.	
332+00	335+66	L	244	
335+68	336+00	R	21	
335+68	337+00	L	88	
350+50	351+12	R	41	
TOTAL			394	

MAILBOX APPR.			
		T-35 2"	I-18 5"
STATION	SIDE	C.Y.	C.Y.
344+80	L	1.7	4.3
TOTAL		1.7	4.3

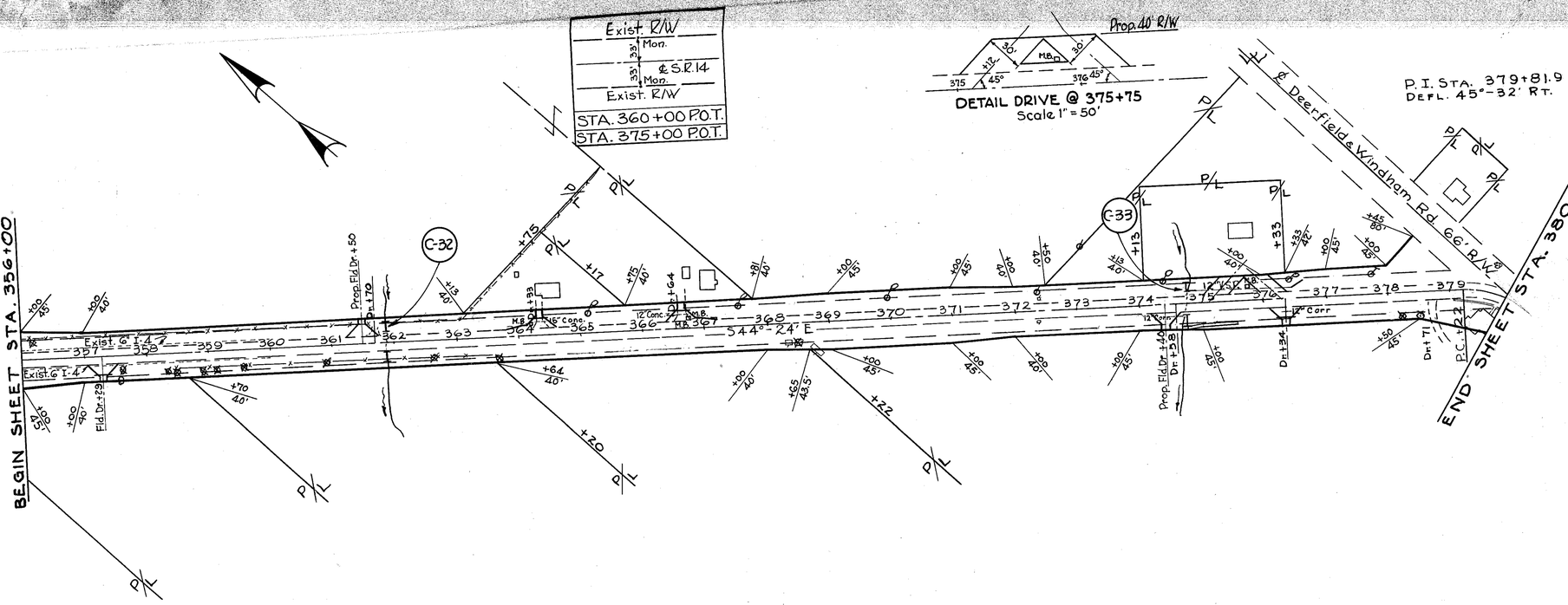
I-4 DRAINS					
		I-4			I-5 for I-4 45° Bend
STATION	SIDE	Elev. Exist I-4 +or-	6" L.F.	8" Outlet Pipe L.F.	Ea.
350+88	R-L	1049.6	44	20	2
351+38	R-L	1048.7	44	20	2
TOTALS			88	40	4

DRAINAGE				
		I-2 Class 'A'	I-8 No. 7 C.B.	E-12 Pipe Rem'l
STATION	SIDE		Ea.	L.F.
332+17	R		1	
339+09	L			16
355+55	L			14
TOTAL			1	30



LINE SHEET STA. 332+00 TO STA. 356+00

POR-14-18.03



STRUCTURES 20' SPAN & UNDER

MARK	STATION	TYPE	SIZE	DETAIL SHT. NO.
C-32	361+81	Std. Slab Top Culv. Ext.	8'x2'-60'	90
C-33	374+76	Std. Pipe Culv. Extension	18"x65'	83

DRIVES

STATION	TYPE	SIDE	T-35 2" C.Y.	I-1 12" L.F.	I-1 15" L.F.	I-1 18" L.F.	I-18 5" C.Y.	I-18 6" C.Y.	FIM-64(ii) 22"x13" Pipe Arch 14999 L.F.
357+29	Fld.	R		30				13.6	
374+40	Fld.	R						13.6	
376+34	Fld.	R		30				13.6	
378+73		R	To be abandoned.						
361+50	Fld.	L						13.6	
364+33	Comb.	L	5.1				13.0		30
366+64	Comb.	L	5.3	30			13.5		
TOTALS			10.4	90			26.5	54.4	30

GUTTERS

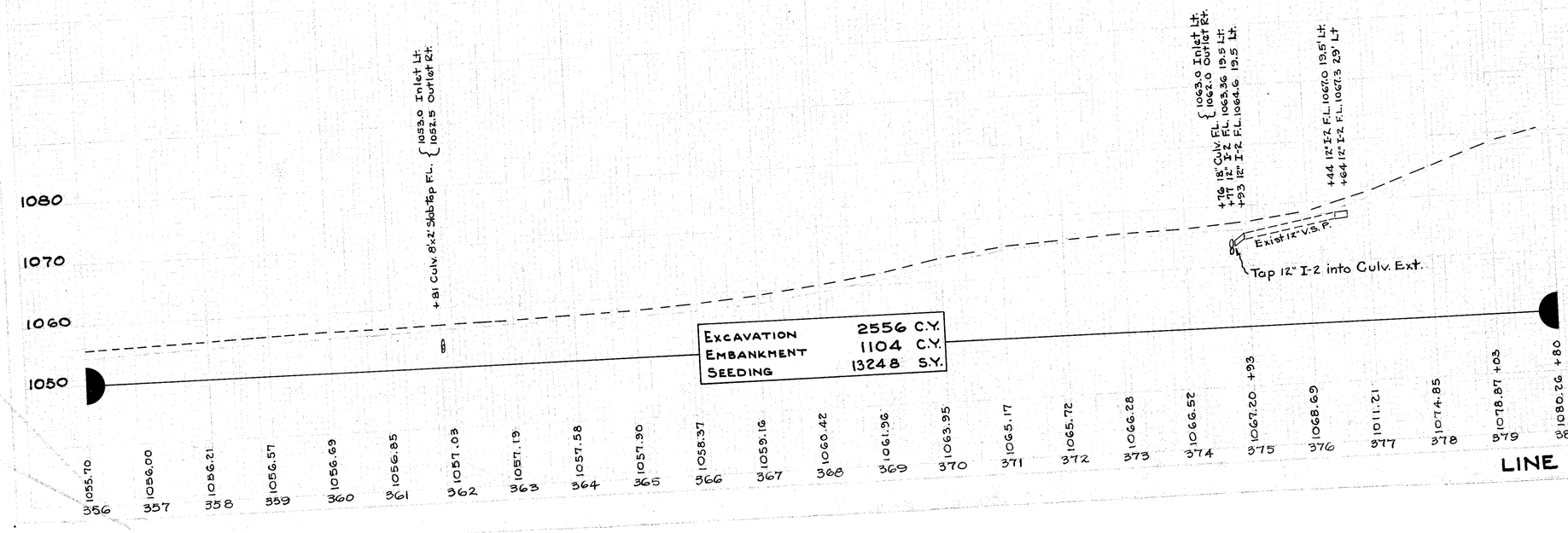
STATION FROM	STATION TO	SIDE	L-10 6' Width S.Y.	
374+77	375+50	R	49	
TOTAL			49	

BUSINESS DRIVES

STATION	SIDE	T-35 2" C.Y.	I-18 7" C.Y.	I-18 6" C.Y.
375+75	L	15.8	65.5	
TOTAL		15.8	65.5	

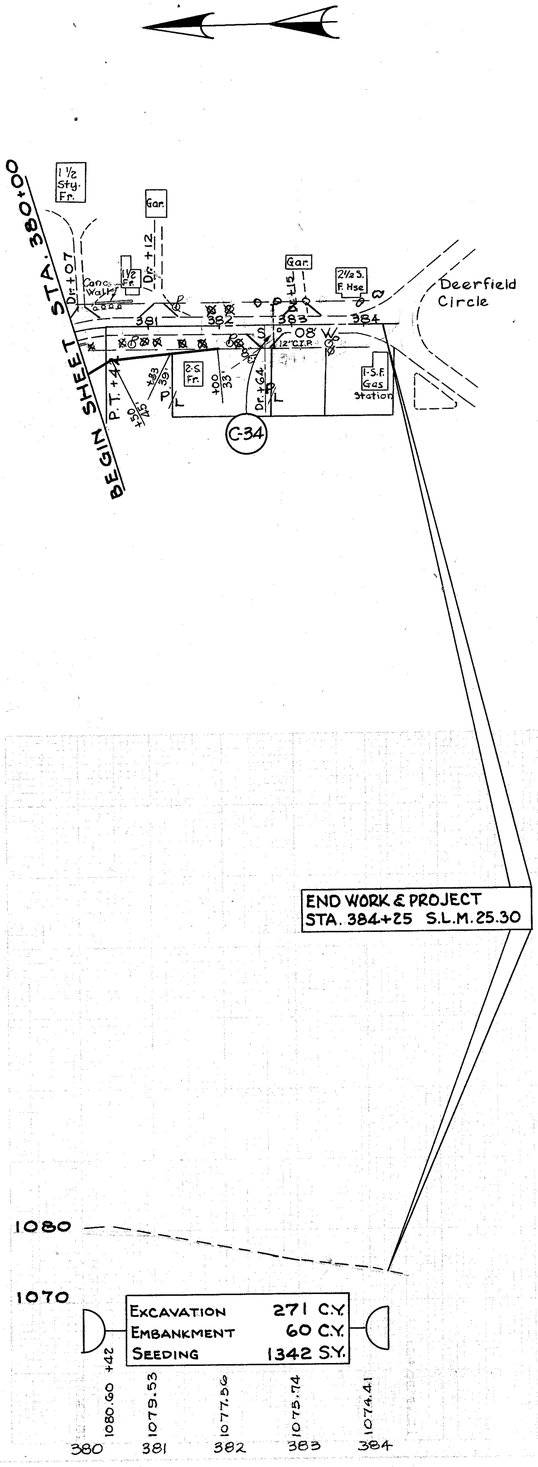
DRAINAGE

STATION FROM	STATION TO	SIDE	I-2 Cl. "A" 12" U.P. L.F.	E-12 Pipe Rem'l L.F.	S-1 Class E Conc for Collars C.Y.
364+33		L		16	
366+64		L		16	
374+58		R		16	
374+77	374+93	L	16		0.4
376+44	376+64	L	22		0.4
376+34		R		12	
TOTALS			38	60	0.8



LINE SHEET STA. 356+00 TO STA. 380+0

POR-14-18.03


BEGIN SHEET STA. 380+00
1 1/2 Sty. Fr.
Gar.
Conc. Walk
Dr. +07
1 1/2 Fr.
Dr. +12
Gar.
2 1/2 S. F. Hse.
Deerfield Circle
381
382
383
384
S 9° 08' W
12" C.I.P.
2 S. Fr.
+33
+00
Dr. +64
P.T. +44
P.C. +33
P.I. +83
P.C. +33
P.T. +33
P.I. +83
P.C. +33
P.T. +33
P.I. +83
P.C. +33
P.T

POR-14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1180

Business
Drive Lt.

4+18
1181.38

+98 ○ 14" Walnut

1180

+95 Dr. Lt.

3+98
1181.09

Drive Rt. (Unused)
(Eliminate)

16" Map. ⊗ +92
C-7
22" Map. ⊗ +75

1180

3+90
1180.98

C-9

22" Map. ⊗ +61
22" Map. ⊗ +41
C-5-2
F-6

1180

3+23
1179.98

+19 Dr. Lt.

Drive +08 Rt.
26" Map. ○ +20

C-1

1180

3+00
1179.61

22" Map. ○ +58
Conc. Platform

+27 Dr. Lt.

C-2

1175

2+00
1178.16

+40 Dr. Lt.

C-1

1175

1+00
1176.80

1175

0+50
1176.20

BEGIN PROJ. & WORK
STA. 0+50

Intersection

1175

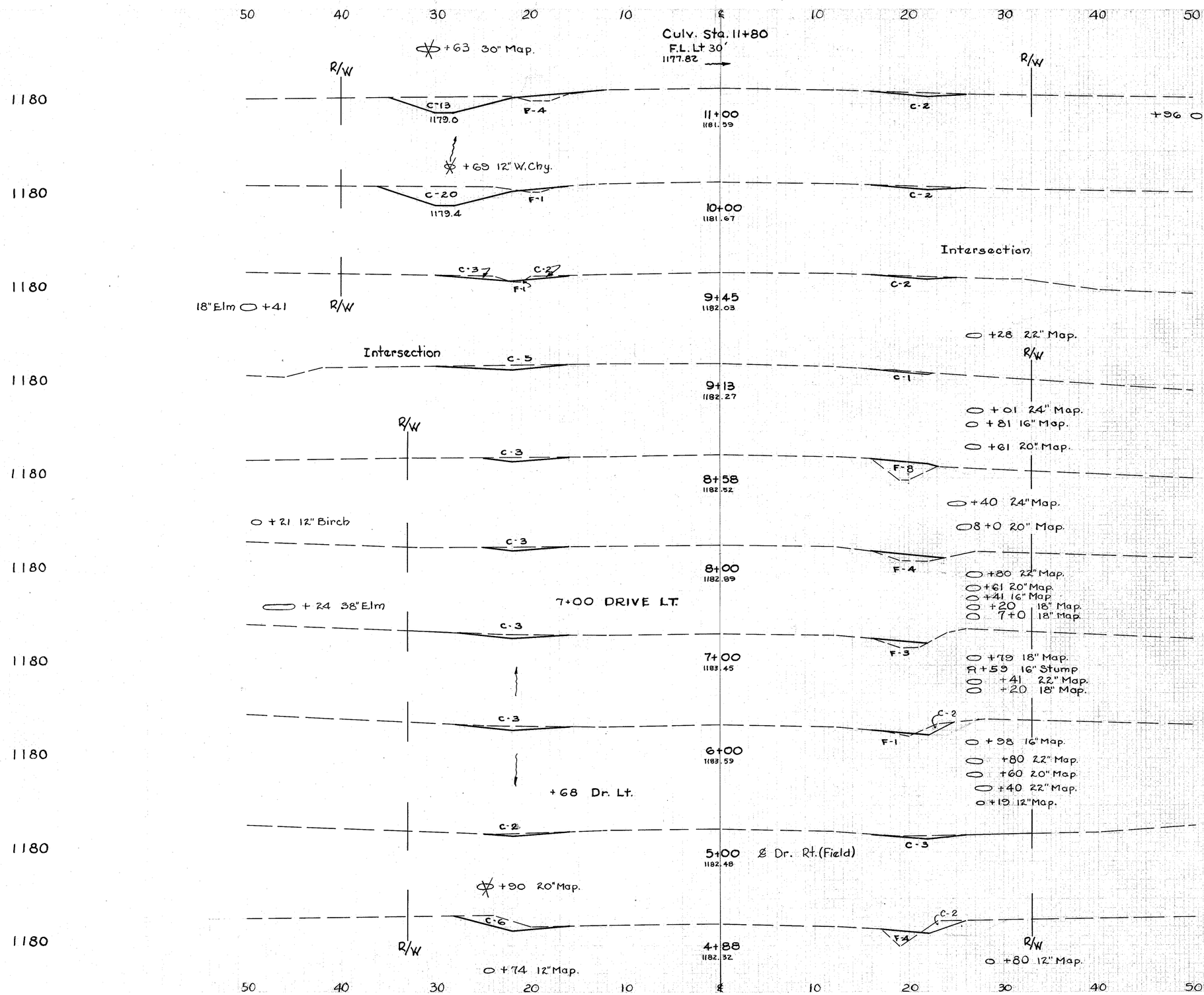
0+00
1175.55

50 40 30 20 10 ℄ 10 20 30 40 50

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
4+18 Dr.					18	0
	33		16	0		
					38	7
			5	6		
					25	25
Dr.					37	
			1	0		
					6	0
Dr.					37	
			2	0		
					6	0
Dr					32	0
			1	0		

CROSS SECTIONS STA. 0+00 TO STA. 3+9

POR-14-18.03



Sta.	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	45		15	4		
		383			69	9
	24		22	1		
		144			30	2
	23		7	1		
		71			8	1
	17		6	0		
		153			9	8
	33		3	8		
		213			6	13
	33		3	4		
		367			11	13
Dr.	33		3	3	14	
		372			15	7
	34		5	1		
		372			19	2
Dr.					22	
Dr.	33		5	0	12	
		45			5	1
	34		8	4		
		365			43	7
Sta. 3+90	33		16	0		

CROSS SECTIONS STA. 4+88 TO STA. 11+00

POR - 14 - 18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1180

+48 28" Map.

R/W

0 + 10

18+30 Drive
1181.82

18+16 22" Map.
17+82 24" Map.

F-4

17+67
1182.12

F-4 C-12 R/W

C-11
1181.0
F-3

17+00
1182.64

F-5 C-13

C-19
11.80.1
F-4

16+00
1182.71

F-4 C-11
1180.20

C-20
1179.7
F-4

15+00
1182.49

F-6 C-9
1179.80

R/W R/W

14+75 18" Map.
14+38 16" Map.
14+04 26" Map.

R/W

Drive Lt.

13+77
1182.07

F-6

13+67
1182.07

F-8 C-9

+36 26" Map.

+50 Begin Ditch

F-6

13+16
1181.84

F-4

+03 24" Map.

F-7

13+00
1181.73

C-1

F-9

12+00
1181.55

C-2

R/W R/W

50 40 30 20 10 ℄ 10 20 30 40 50

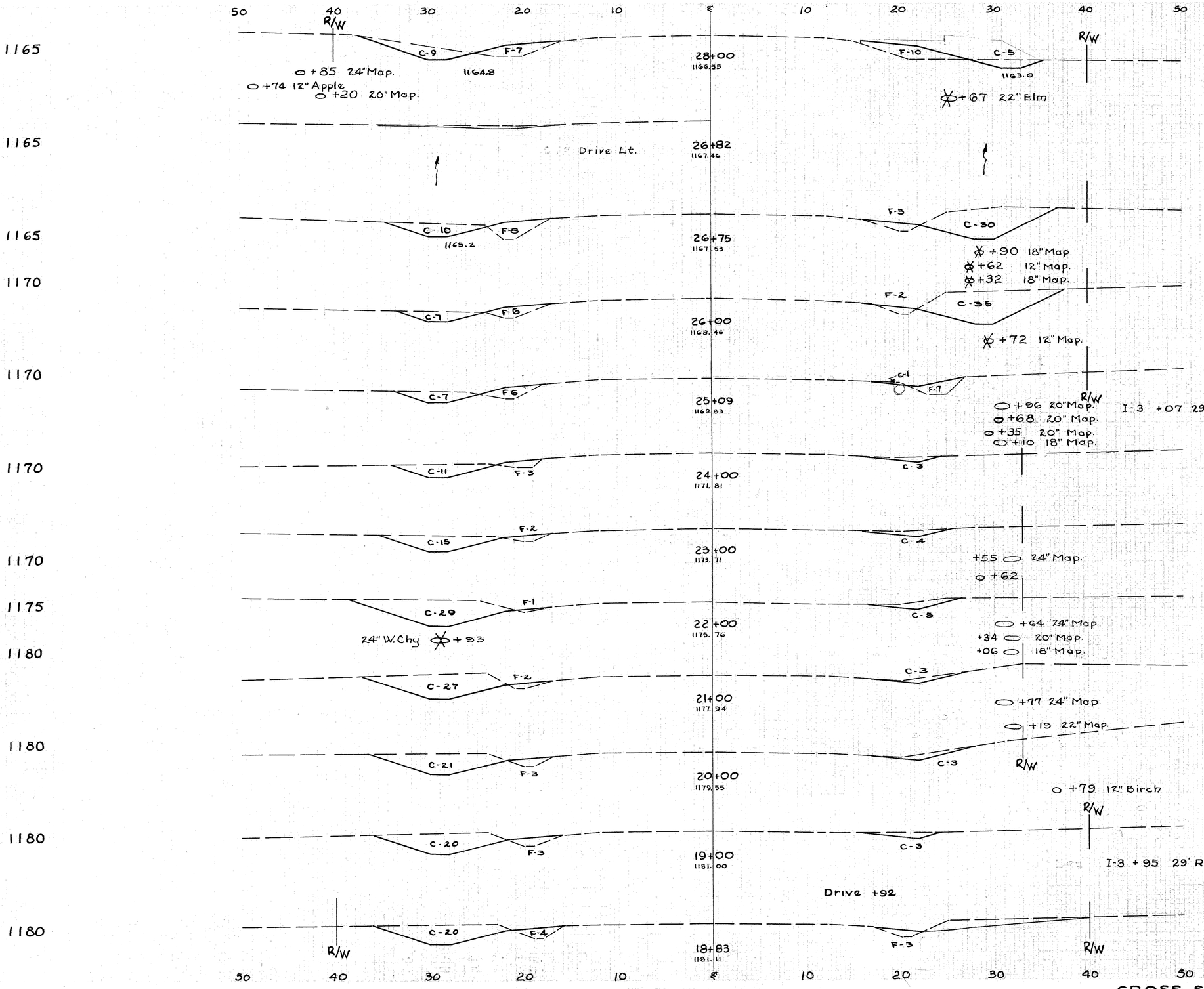
Sta. 11+00

CROSS SECTIONS STA. 12+00 TO STA.

Excavation	1024	C.Y.
Embankment	320	C.Y.
Seeding	6195	S.Y.

	Seeding		End Area		Cu. Yds	
	L.F.	S.Y.	Cut	Fill	Exc	Emb
Dr.	41		12	8	16	
		331			45	20
	48		24	8		
		539			100	30
	49		30	8		
		544			109	33
	49		29	10		
		158			23	15
Dr.					21	
	37		9	14		
		213			9	22
	38		0	10		
		68			1	5
	38		1	7		
		422			6	30
	38		2	9		
		461			31	2
	45		15	4		

POR-14-18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	49		14	17		
		674			125	656
Dr.	48		40	11		
		404			114	26
	49		42	8		
		470			85	35
	44		8	13		
		509			45	33
	40		14	3		
		444			61	9
	40		19	2		
		444			98	6
	40		34	1		
		439			119	6
	39		30	2		
		433			100	9
	39		24	3		
		456			87	11
	43		23	3		
		67			14	3
Dr.					32	
	29		20	7		
		451			68	32
	41		12	8		

CROSS SECTIONS STA. 18+83 TO STA. 28+00

POR-14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1160 R/W C-12 F-5 12" Elm ○ +84 ○ +76 18" Elm 36+00 1159.60 F-5 C-26 R/W

1160 C-27 F-2 35+00 1161.39 F-4 C-28

1160 C-24 F-1 34+00 1162.58 F-3 C-12

1165 C-4 F-5 1160.7 33+00 1163.50 F-2 C-23 +92 ○ 12" Apple +64 ✳ 12" Map +35 ✳ 22" Map.

1165 F-3 24" Elm ⬭ +86 14" Elm ○ +79 ○ +37 22" Map 32+00 1164.56 C-37

1165 Fld. Dr. Lt. 31+12 1165.37

1165 F-2 31+00 1165.44 ℄ Dr +31+00 Rt.

1165 F-5 30+86 1165.50 C-2 1164.8

1165 C-3 1162.0 F-22 30+00 1166.02 F-2 1163.0 1163.0

Culv. Sta. 29+11
F.L. Lt. 1161.5 32' F.L. Rt. 1161.92 30.5'

1165 ○ +25 12" Elm C-6 1162.0 F-21 29+00 1166.40 F-26 C-6 1162.0 R/W R/W
16" Map. ○ +26 End Pav'd Gutter +08 Begin Pav'd Gutter +48

50 40 30 20 10 ℄ 10 20 30 40 50

1164.1

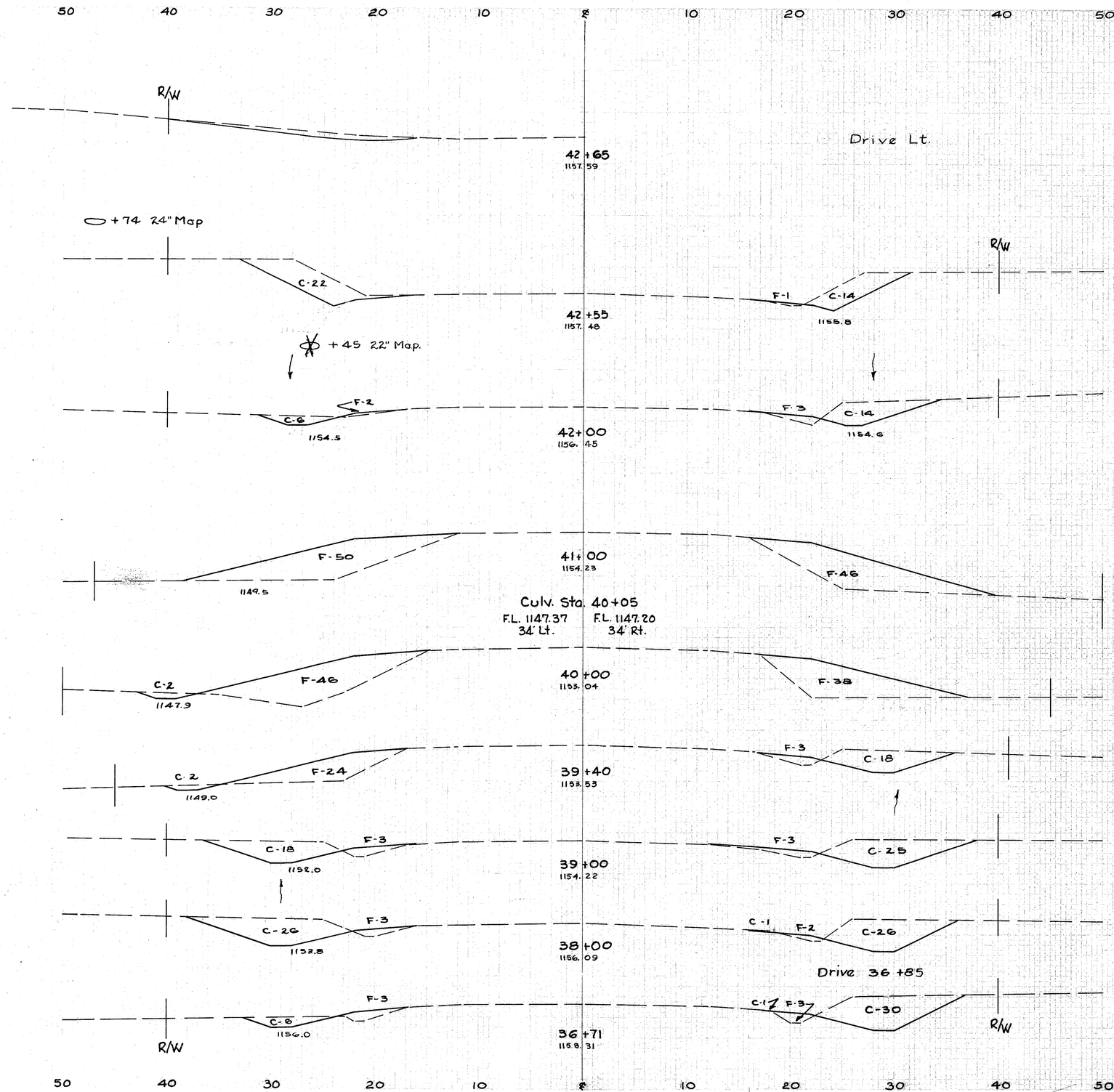
Sta. 28+00

Excavation	2331 C.Y.
Embankment	1351 C.Y.
Seeding	12446 S.Y.

Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
48		38	10		
	533			172	30
48		55	6		
	528			169	19
47		36	4		
	522			117	20
47		27	7		
	489			119	19
41		37	3		
	306			69	9
Dr.				14	
14		0	2		
Dr.				25	
	37			1	2
34		2	5		
	372			8	46
44		3	24		
	533			28	131
52		12	47		
	561			48	119
49		14	17		

CROSS SECTIONS STA. 29+00 TO STA. 36+00

POR-14-18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
Dr.					25	
	50		36	1		
		296			57	6
	47		20	5		
		644			37	187
	69		0	96		
		739			4	333
	64		2	84		
		650			25	124
	53		20	27		
		227			47	24
	49		43	6		
		544			178	20
Dr.	49		53	5		12
		688			215	26
	47		37	6		
		375			104	21
Sta. 36+00	48		38	10		

CROSS SECTIONS STA. 36+71 TO STA. 42+65

POR-14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1145

R/W +21 24" Map. C-53 F-2 1144.1

47+00 1146.49

F-5 C-25 1143.8 R/W

+94 14" Map

+81 20" Map.

+22 26" Map

18" Stump +05

1155

R/W C-91 F-1 1149.2

46+00 1151.64

C-41 1149.0

1160

R/W C-48 1152.8

+50 22" Map.

45+00 1155.48

F-2 C-23

44+70 22" Map.

44+50 22" Map.

44+10 12" Map

+91 24" Map.

1160

C-52 1155.5

43+73 1157.66

F-3 C-28 1155.0

Sta. 44+00

1160

Drive Lt.

43+65 1157.76

Dr.

1160

C-3 1157.0

43+56 1157.84

F-3 C-6 1156.3

1160

R/W C-5 1156.9

42+77 1157.70

F-17 C-18 1155.8 R/W

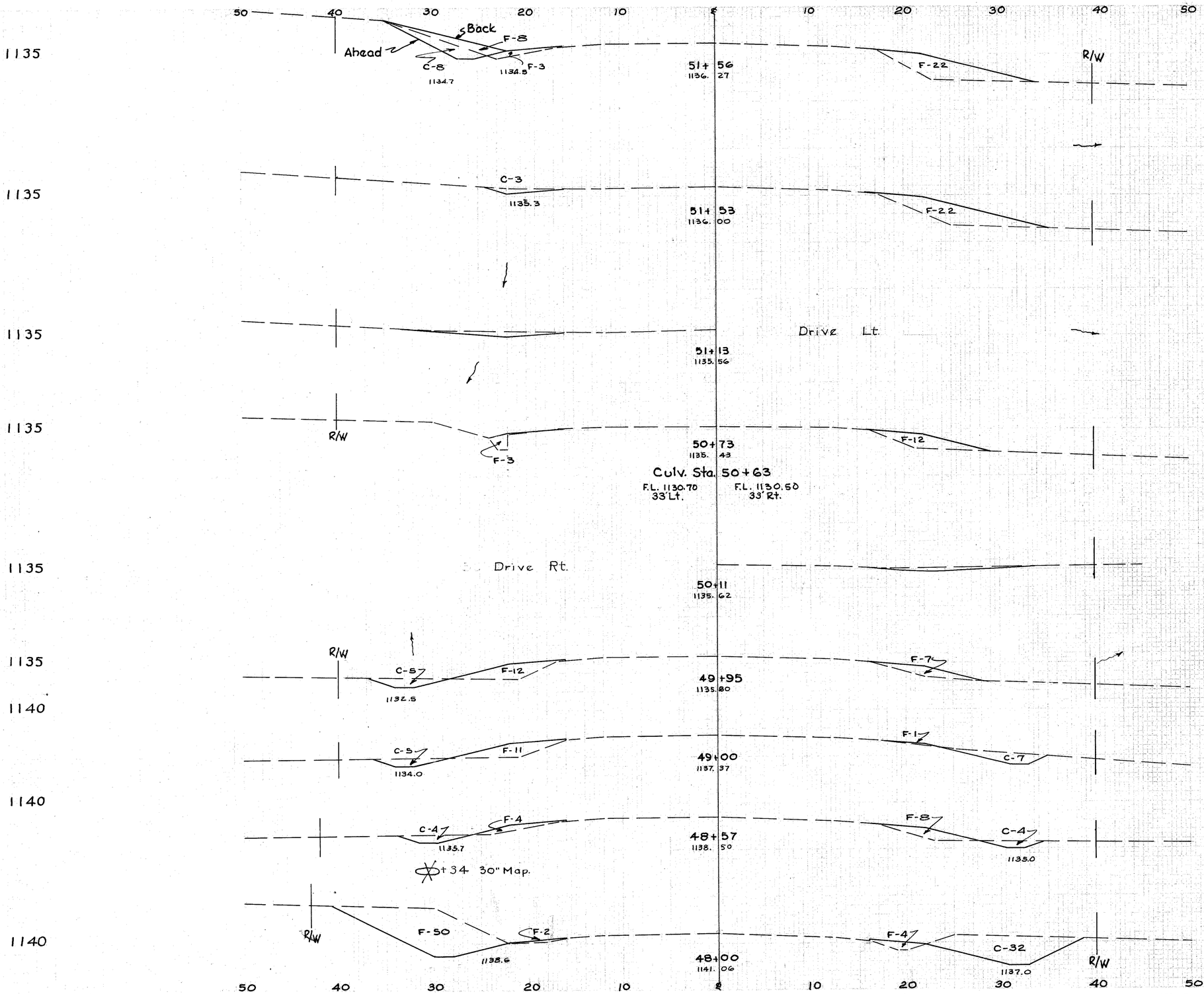
Sta. 42+55

50 40 30 20 10 ℄ 10 20 30 40 50

Seeding		End Area		Cu. Yds.	
L.F	S.Y.	Cut	Fill	Exc	Emb
57		78	7		
	644			391	15
59		133	1		
	606			378	6
50		71	2		
	699			356	11
49		80	3		
	84			28	2
				24	
40		9	3		
	382			46	5
47		23	1		
	119			24	1
50		36	1		

CROSS SECTIONS STA. 42+77 TO STA. 47+00

POR-14-18.03

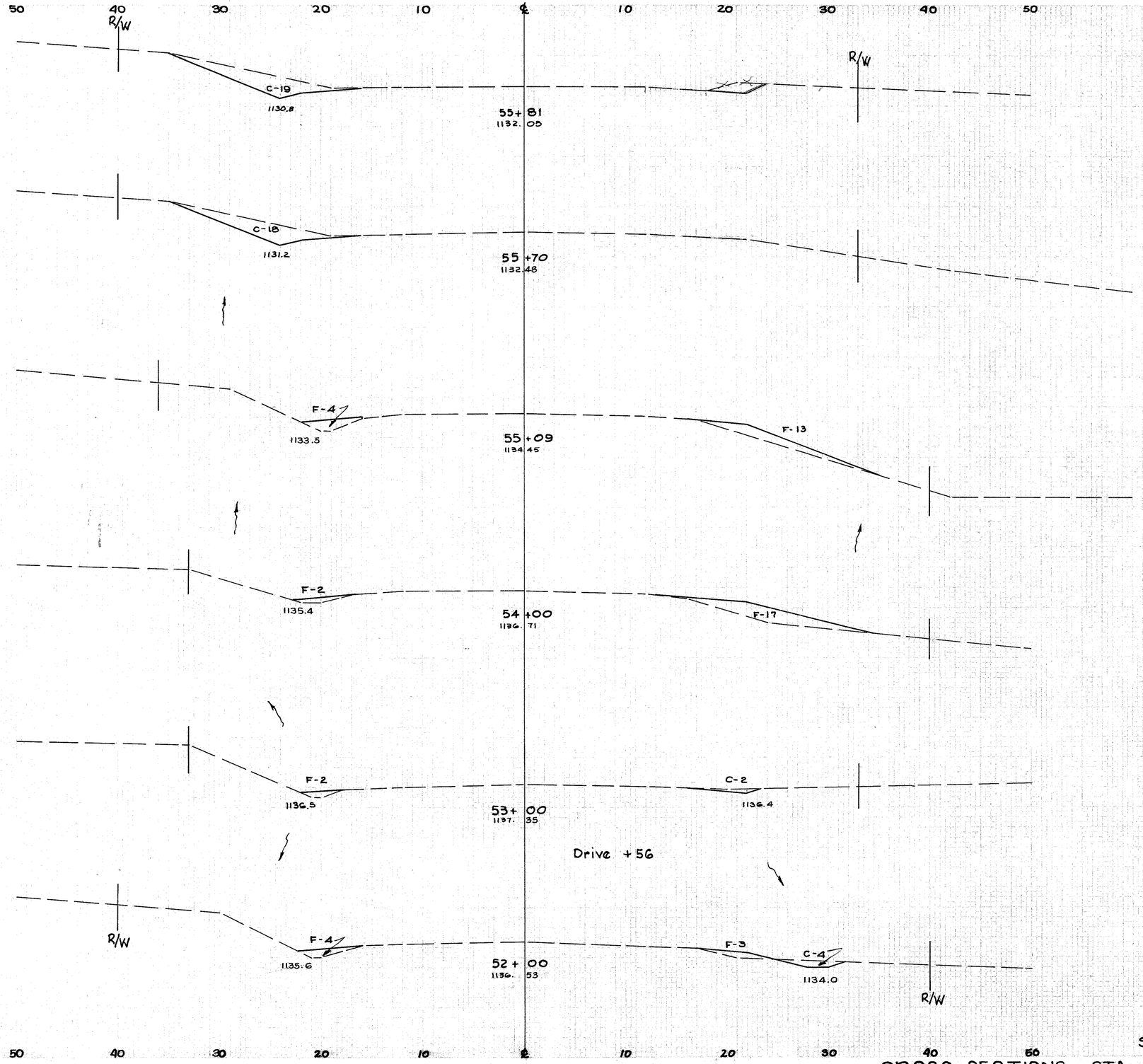


	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
Ahead	49		8	25		
Back	48		0	33		
		15			1	3
	42		3	22		
		364			5	55
2-Dr.					42	
	40		0	15		
		377			7	49
Dr.					33	
	47		5	19		
		502			29	54
	48		12	12		
		234			16	19
	50		8	12		
		323			42	72
	52		32	56		
		606			204	117
Sta. 47+00	57		78	7		

CROSS SECTIONS STA. 48+00 TO STA. 51+56

30
100

POR -14-18.03



Sta.	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
24			19	0		
		29			8	0
24			18	0		
		224			20	19
42			0	17		
		514			0	73
43			0	19		
		422			4	39
33			2	2		
Dr.					16	
		406			11	17
40			4	7		
		217			10	26
49			8	25		

Sta. 51+56

CROSS SECTIONS STA. 52+00 TO STA. 55+81

POR. 14 – 18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1130

1125

1125

1125

1130

1130

1130

R/W

O +75 14" Hickory

F-27

R/W

60+66
1128.44

O +60 14" Ash

O +12 16" Elm

F-28

60+00
1126.70

F-12

1123.5

⊗ +69 14" Elm
⊗ +51 16" Elm

⊗ +76 26" Elm

⊗ +16 30" Elm

Bridge Sta. 59+05
F.L. 1119.43

⊗ +31 20" Twin Elm

C-27

F-16

59+00
1125.17

F-28

O +82 14" Elm
O +79 20" Elm

⊗ +90 20" Elm

⊗ +69 40" Willow
⊗ +68 44" Willow

C-30

F-27

58+00
1125.78

F-11

C-17

F-6

F-27

57+10
1127.57

Drive 56+99 Lt.

O +51 12" Apple

Drive +35 Rt

56+33
1130.15

1127.4

R/W

56+24
1130.50

Drive 56+10 Lt.

R/W

50 40 30 20 10 ℄ 10 20 30 40 50

Excavation 2324 C.Y.
Embankment 1180 C.Y.
Seeding 11188 S.Y.

Sta.	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc	Cu. Yds. Emb.
55+81	18		0	2		
		242			0	51
	48		0	40		
		533			4	156
	48		2	44		
		500			59	106
	42		30	13		
		439			57	39
	37		1	8		
Dr.					26	
		159			2	12
Dr.					20	
	0		0	0		
	0		0	0		
Dr.		57			15	0
	24		19	0	22	

CROSS SECTIONS STA. 56.+24 TO STA. 60+66

POR. 14 – 18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1130

R/W

C-6

F-10

1126.3

64+00
1128.77

F-2

C-27

1126.3

R/W

1130

Drive Lt. (Field)

63+76
1129.42

1130

F-12

F-3

C-13

1128.0

63+66
1129.63

1130

F-7

1129.5

63+00
1130.96

F-2

C-8

1129.5

Drive Rt. 62+79

1130

C-4

F-1

1130.5

62+00
1131.49

F-1

C-20

1130.0

1130

C-4

1130.5

C-1

F-1

1130.6

61+90
1131.41

Drive Rt. 61+79

1130

61+80
1131.27

1130

C-3

1130.2

F-1

1130.4

61+66
1131.10

Drive 60+93 Lt.

0+06 22 W. Cp'ry
0+89 Map.

R/W

1130

F-1

1128.4

60+85
1129.01

R/W

50 40 30 20 10 ℄ 10 20 30 40 50

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	51		33	12		
Dr.						2
		185			29	17
	47		13	15		
		330			26	29
	41		8	9		
		461			59	20
Dr.					19	
	42		24	2		
		42			5	1
	33		5	1		
		88			4	1
	33		3	1		
		220			5	3
Dr.					19	
	16		0	1		
		36			0	1
Sta. 60+66	18		0	2		

CROSS SECTIONS STA. 60+85 TO STA. 64+00

POR. 14 – 18.03

50 40 30 20 10 ℄ 10 20 30 40 50

+00 Dr. Lt.

+72 24" Map.

+37 26" Map. R/W

+05 28" Stump

R/W

1130

C-36

69+00
1129.82

1130

C-27

68+00
1130.17

+50 Drive Lt.

+20 Drive Lt.

1130

F-2

67+00
1128.91

1130

C-3 F-2

1126.8

66+53
1128.29

C-5
1127.4

Drive Rt.

66+46
1128.16

1130

C-3 F-3

1126.5

F-1 C-11

66+36
1128.00

Drive Lt.

1125

65+60
1127.37

1125

F-21 C-1

F-3 C-1

65+72
1127.22

0+49 12" Elm

Culv. Sta. 65+15
F.L. 1120.66 Lt.
F.L. 1121.01 Rt.

0+48 20" Map.

1125

C-8
1122.5

F-8

65+00
1127.19

F-13

C-36
1121.5

R/W

R/W

50 40 30 20 10 ℄ 10 20 30 40 50

Sta. 64+00

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	30		36	0	22	
Dr.		333			117	0
	30		27	0		
		256			50	0
Dr.					22	
Dr.					22	
	16		0	2		
		117			16	2
	42		19	2		
		83			10	2
Dr.						9
	45		14	4		
		289			19	33
Dr.					37	
	28		2	24		
		352			61	60
	60		44	21		
		617			143	61
	51		33	12		

CROSS SECTIONS STA. 65+00 TO STA. 69+00

POR 14 – 18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1120 R/W C-4 1118.2 F-10 77+00 1120.68 F-3 C-30 R/W

1120 F-37 C-6 1113.3 76+00 1119.11 F-23 C-20 1113.5

Culv. Sta. 75+77
F.L. 1112.17 40.5' Lt.
F.L. 1112.38 40.5' Rt.

1120 C-10 1115.0 F-11 75+00 1119.44 F-12 C-12 1115.5

1120 C-45 1118.0 F-4 74+00 1121.08 F-4 C-46

1125 C-12 F-5 73+00 1122.78 F-4 C-39

1125 C-4 F-7 72+00 1124.44 F-5 C-27

1125 C-2 F-8 71+00 1126.06 F-3 C-28

1130 C-5 F-2 R/W 70+00 1128.03 F-6 C-26 +05 30" Map. R/W

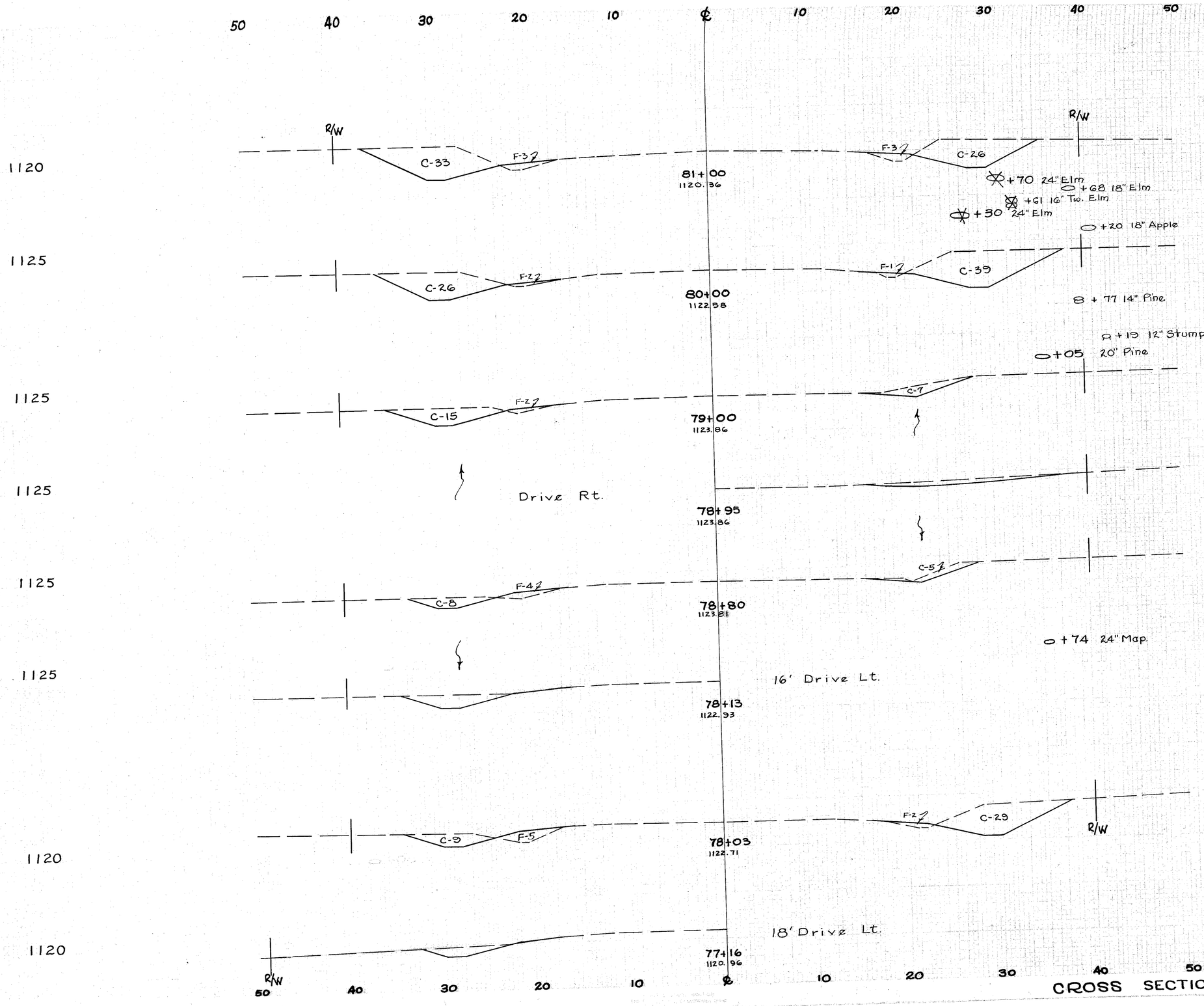
50 40 30 20 10 ℄ 10 20 30 40 50

Seeding		End Area		Cu. Yds.	
L.F	S.Y.	Cut	Fill	Exc.	Emb.
57		34	13		
	706			111	135
70		26	60		
	744			89	154
64		22	23		
	717			209	57
65		91	8		
	667			283	31
55		51	9		
	567			152	39
47		31	12		
	522			113	43
47		30	11		
	522			113	35
47		31	8		
	528			124	15
30		36	0		

Sta. 69+00

CROSS SECTIONS STA. 70+00 TO 77+00

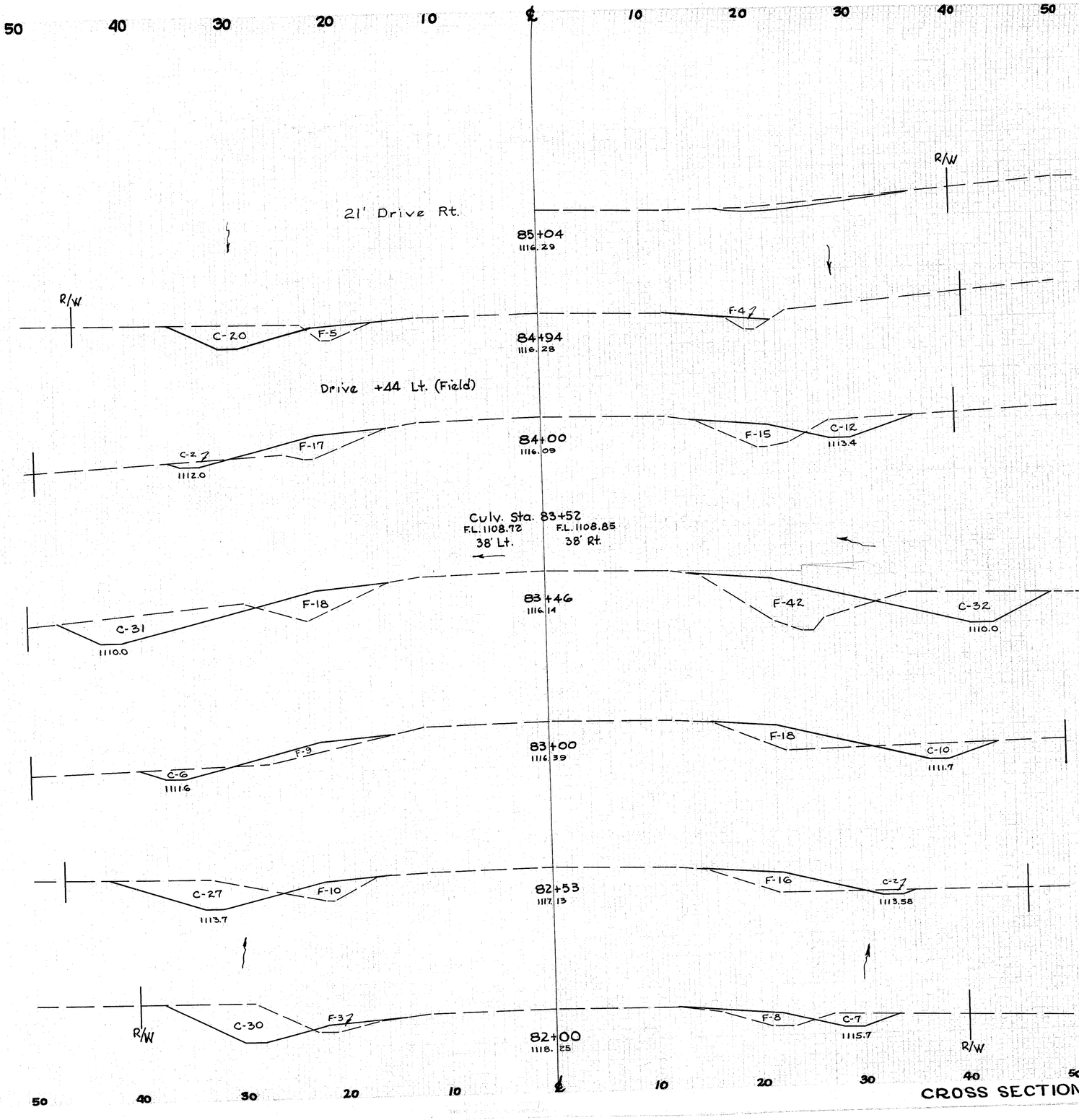
POR 14 – 18.03



CROSS SECTIONS STA. 77+16 TO 81+00

	Seeding		End Area		Co. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	50		59	6		
		556			230	17
	50		65	3		
		544			161	9
	48		22	2		
		106			13	2
Dr.					25	
	47		13	4		
		410			72	15
Dr.						4
	49		38	7		
		607			137	38
Dr.						5
Sta. 77+00	57		34	13		

POR-14 - 18.03

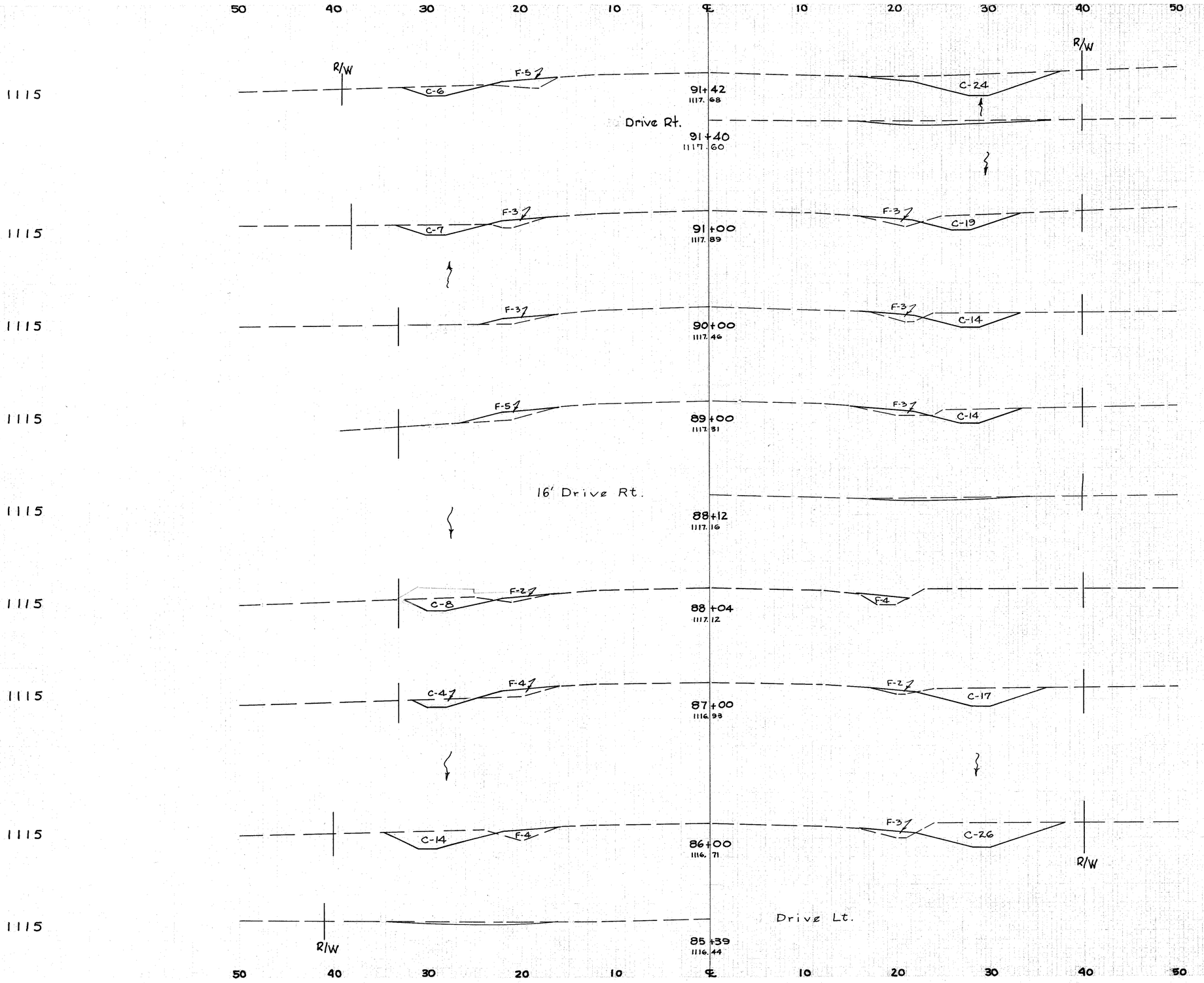


	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
Dr.						13
	46		20	9		
		527			59	71
Dr.						3
	55		14	32		
		390			77	92
	75		63	60		
		368			67	74
	69		16	27		
		339			39	46
	61		29	26		
		324			65	37
	49		37	11		
		550			178	31
Sta. 81+00	50		59	6		

Excavation	3008 C.Y.
Embankment	1159 C.Y.
Seeding	13697 S.Y.

CROSS SECTIONS STA. 82+00 TO STA. 85+04

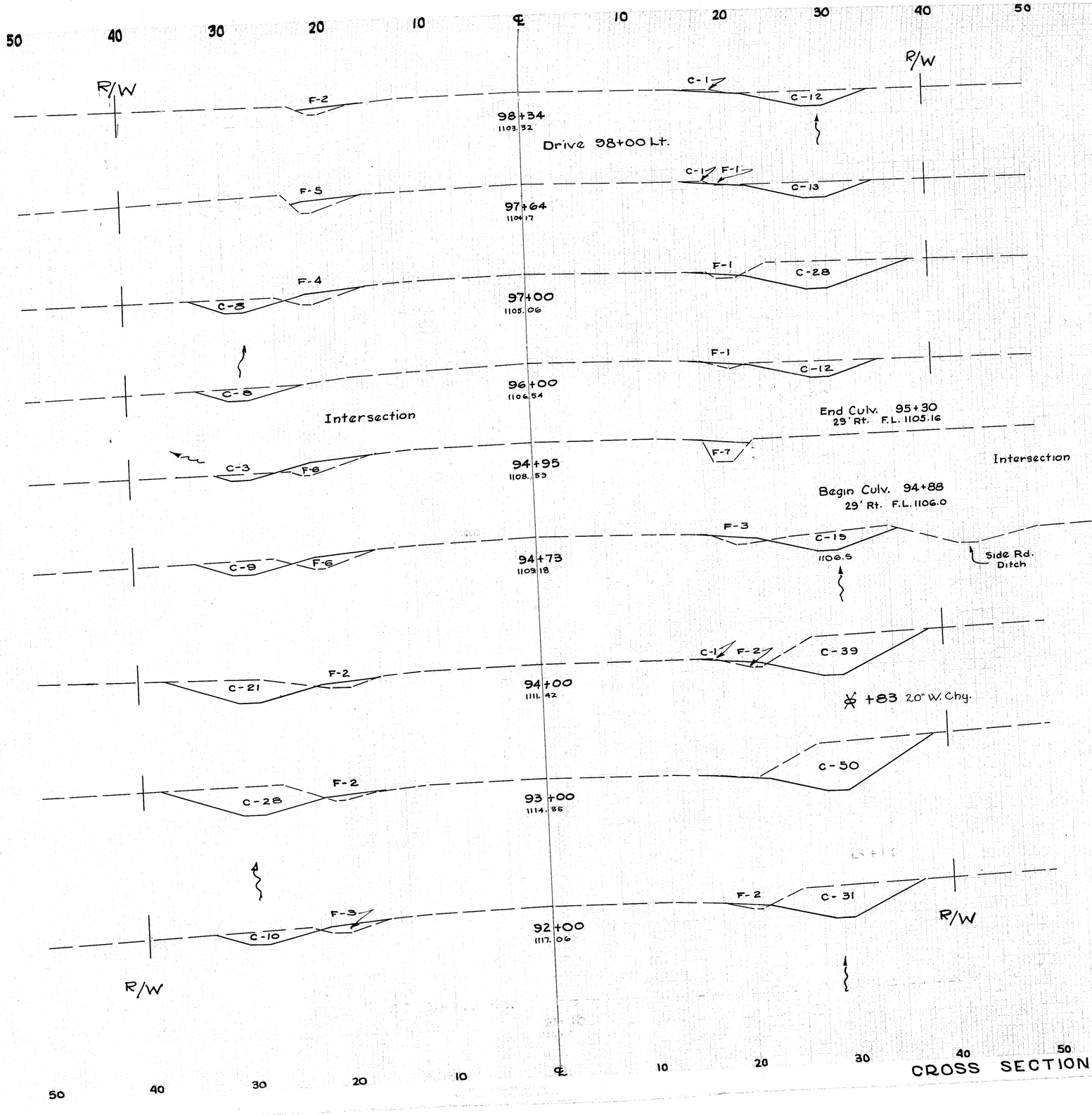
POR-14 - 18.03



	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
Dr.	47		30	5		4
		517			44	8
	46		26	6		
		483			74	22
	41		14	6		
		461			52	26
	42		14	8		
		400			39	25
Dr.						6
	33		8	6		
		434			56	23
	42		21	6		
		506			113	24
	49		40	7		
		560			118	32
Dr.						12
Sta. 85+04	46		20	9		

CROSS SECTION STA. 85+39 TO STA. 91+42

POR-14-18.03

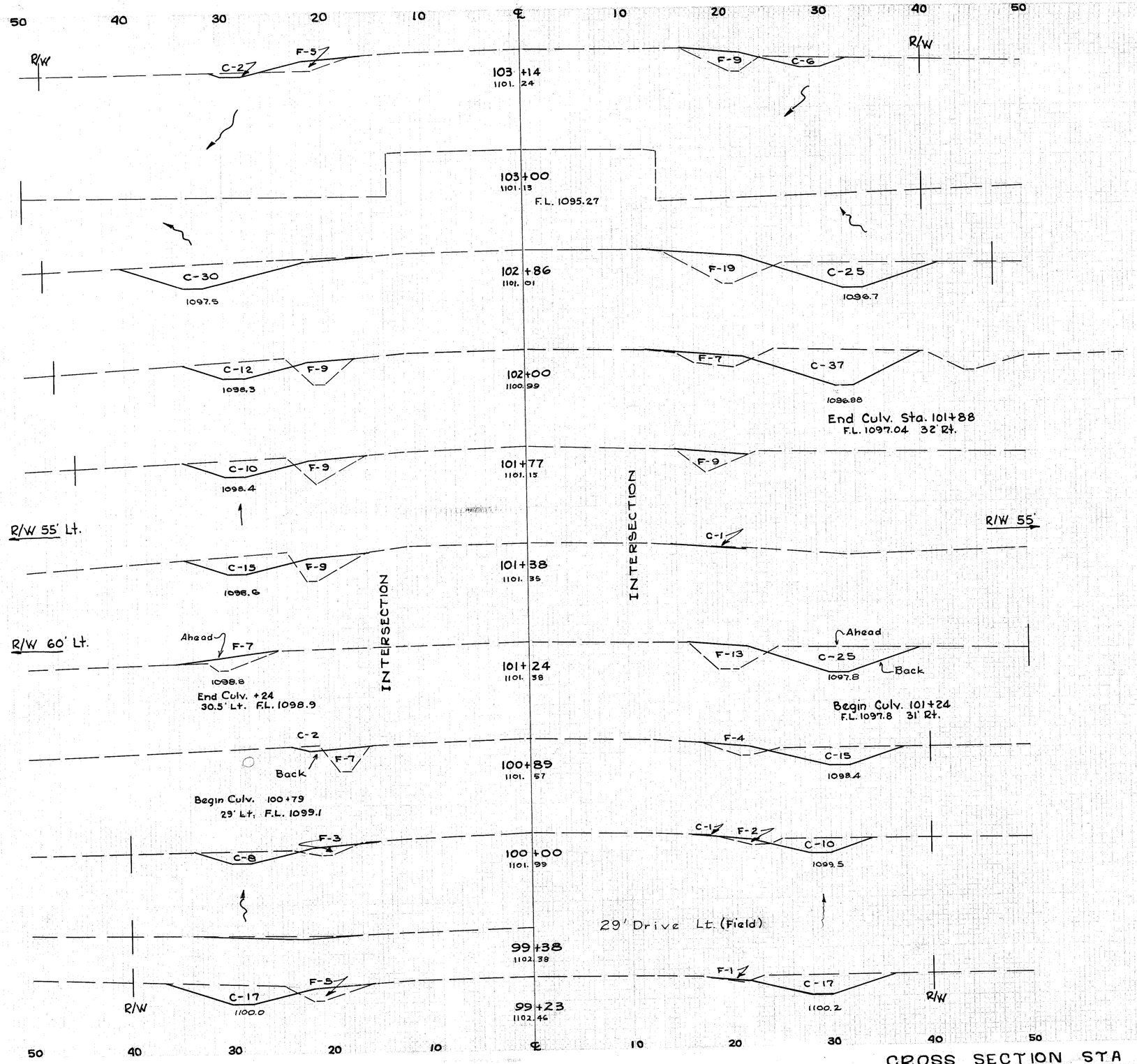


Sta. 91+42

CROSS SECTION STA. 92+00 TO STA. 98+34

	Seeding		End Area		C.u. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	36		13	2		
		284			35	11
Dr.					16	
	37		14	6		
		302			60	13
	48		36	5		
		494			104	11
	41		20	1		
		18			2	1
	25		3	13		
		86			11	9
	45		24	9		
		380			113	17
	50		61	4		
		556			257	11
	50		78	2		
		550			220	13
	49		41	5		
		309			76	11
	47		30	5		

POR-14 - 18.03

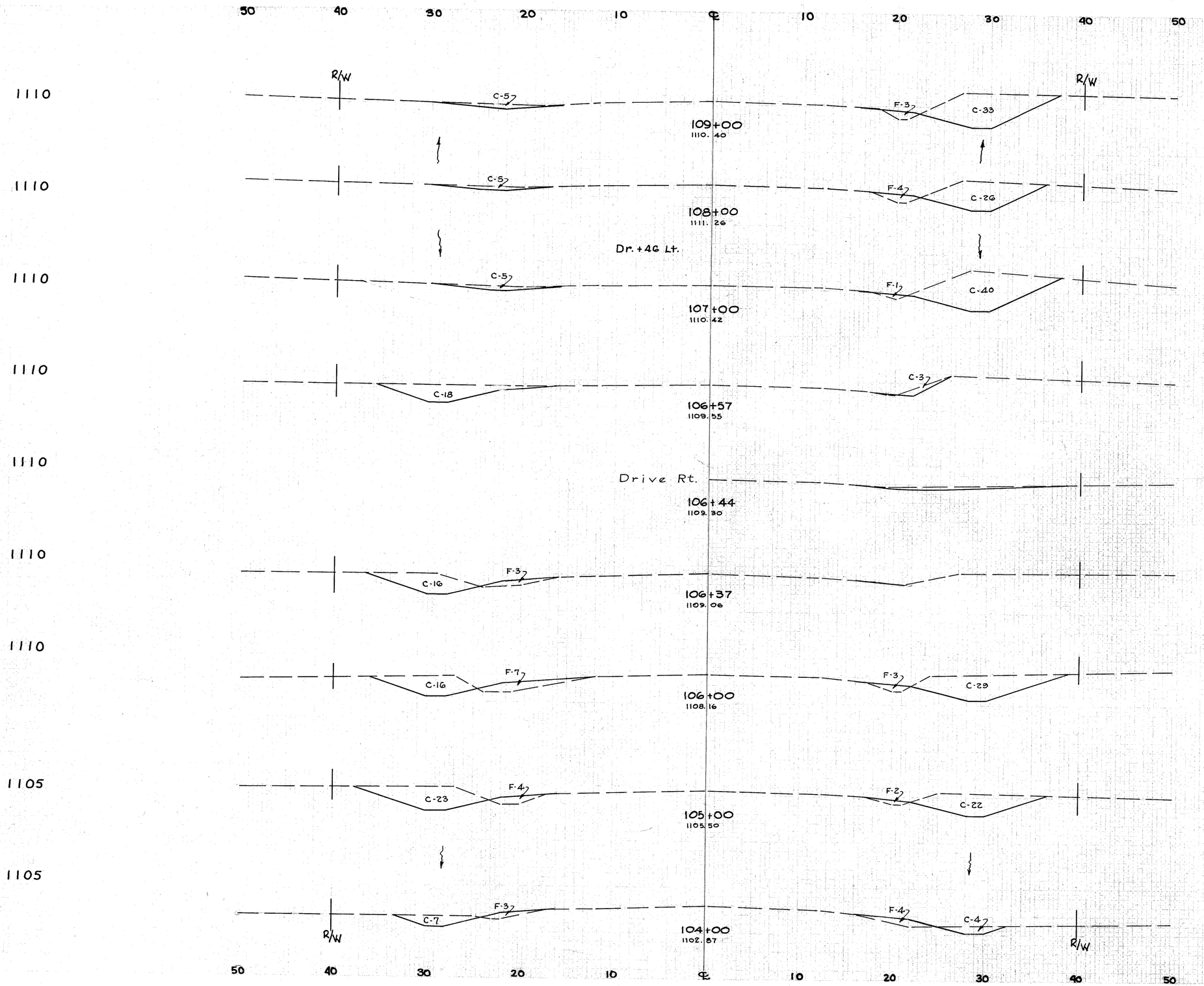


Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
49		8	14		
	38			2	4
0		0	0		
	51			14	5
65		55	19		
	559			157	56
52		49	16		
	102			25	14
28		10	18		
	61			19	20
0		16	9		
	26			11	8
34		25	20		
	113			27	20
24		17	11		
	361			60	27
49		19	5		
	415			75	15
					8
48		34	6		
	416			77	13
36		13	2		

Dr.

Sta. 98+34

CROSS SECTION STA 99+23 TO STA. 103+14



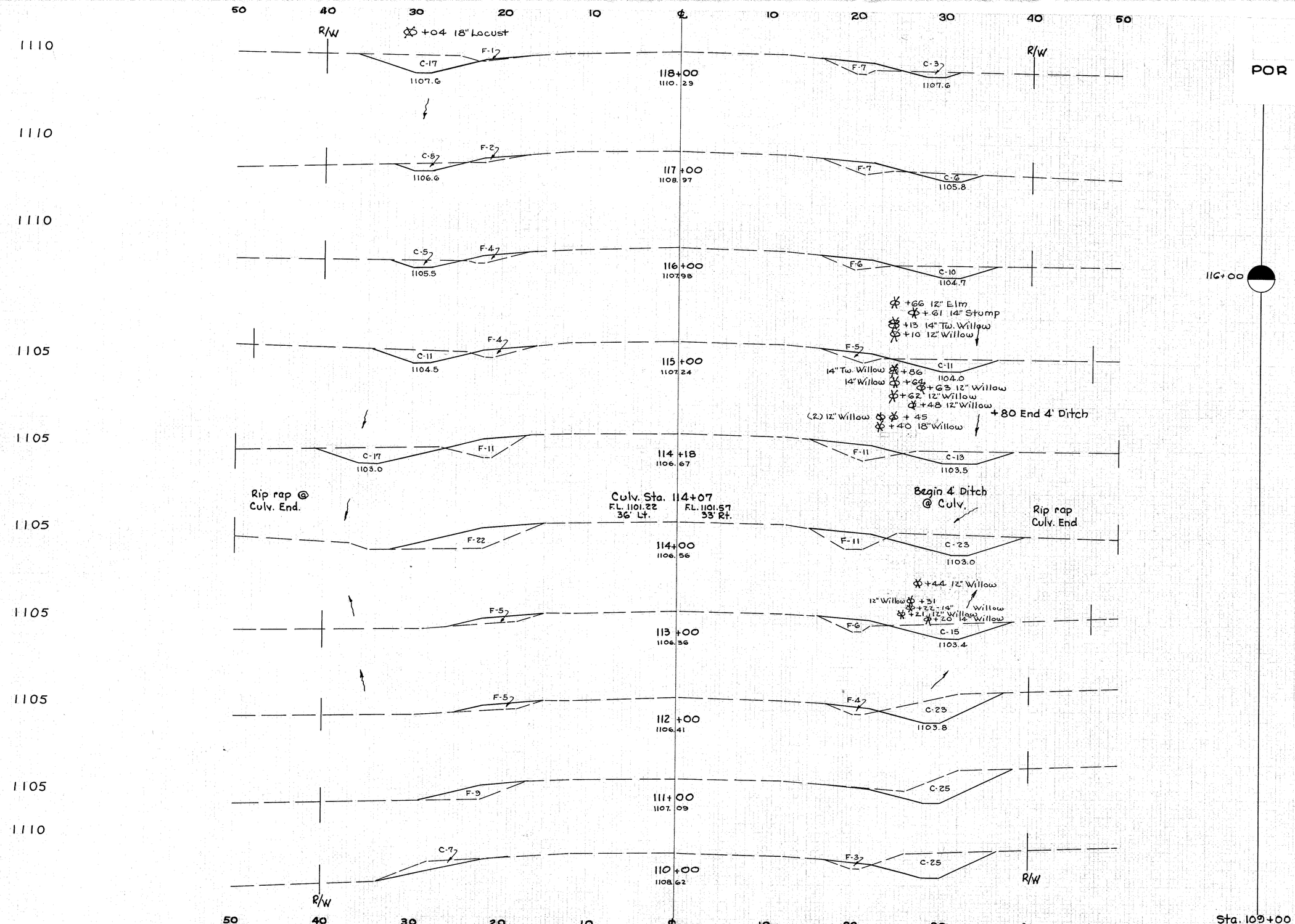
40
100

POR-14 - 18.03

	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	49		38	3		
		544			128	13
	49		31	4		
		544			141	9
Dr					16	
	49		45	1		
		224			52	2
	45		21	0		
		72			14	1
Dr.					11	
	21		16	3		
		144			48	9
	49		45	10		
		544			167	30
	49		45	6		
		544			104	24
	49		11	7		
		468			30	34
Sta. 103+14	49		8	14		

EXCAVATION 2627 C.Y.
EMBANKMENT 682 C.Y.
SEEDING 11947 S.Y.

POR 14 — 18.03



116+00

Sta. 109+00

Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds Exc.	Cu. Yds Emb.
49		20	8		
	539			57	31
48		11	9		
	533			48	35
48		15	10		
	600			69	35
60		22	9		
	579			79	47
67		30	22		
	128			18	18
61		23	33		
	622			70	81
51		15	11		
	528			70	37
44		23	9		
	511			89	33
48		25	9		
	539			106	22
49		32	3		
	544			130	11
49		38	3		

CROSS SECTIONS STA. 110+00 TO 118+

POR. 14 — 18.03

50 40 30 20 10 ℄ 10 20 30 40 50

0+45

1120 — R/W — Drive Lt. (Field)

122+03
1121.52

1120 — F-12 — R/W — F-2 — C-2

121+95
1121.30

1120 — Drive Rt.

121+85
1121.04

1120 — F-10 — C-3

121+74
1120.74

+52 28" Birch

1120 — F-12 — F-2 — C-21

121+38
1119.65

1115 — Drive Lt.

120+73
1117.49

1115 — F-6 — F-4 — C-14

120+61
1117.14

Begin Pipe 120+47
29' Lt.

1115 — C-17 — F-3 — F-6 — C-16

120+00
1115.35

12" Elm +69
12" Elm +32
+05 16" Locust

1110 — R/W — C-24 — F-5 — F-5 — C-16 — R/W

119+00
1112.42

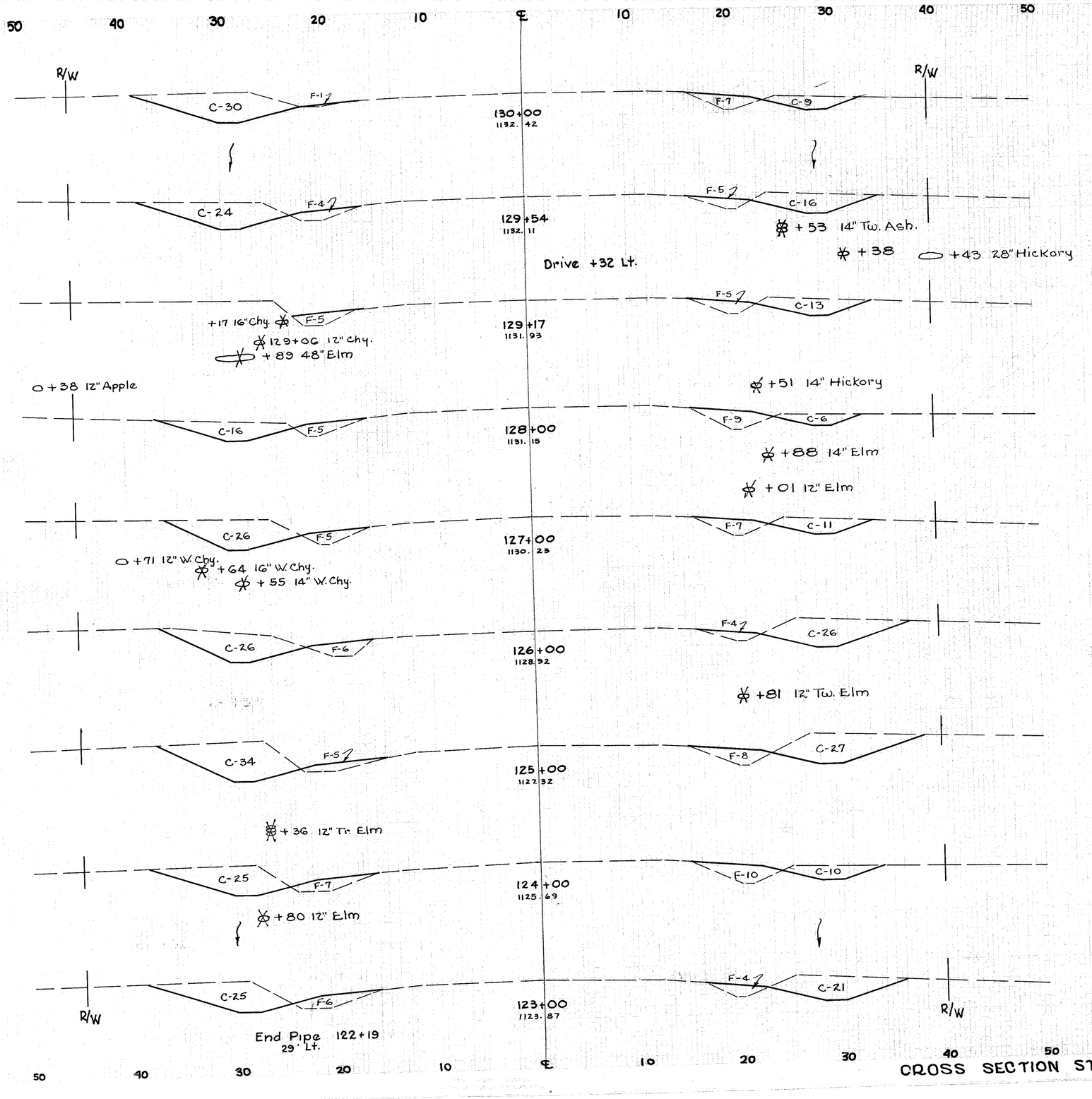
+93 14" Elm

50 40 30 20 10 ℄ 10 20 30 40 50

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	38		2	14		
Dr.					19	
		90			2	9
	39		3	10		
		165			16	16
	44		21	14		
Dr.					26	
		368			50	34
	42		14	10		
		322			53	21
	53		33	9		
		594			135	35
	54		40	10		
		572			111	33
Sta. 118+00	49		20	8		

CROSS SECTIONS STA. 119+00 TO STA. 122+

POR-14 - 18.03



CROSS SECTION STA 123+00 TO STA. 130+00

Excavation 2563 C.Y.
Embankment 862 C.Y.
Seeding 13578 S.Y.

Sta. 121+95

Dr.	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc	Cu. Yds. Emb.
	54		39	8		
		276			54	14
	54		40	9		
		179			36	13
						5
	42		13	10		
		624			76	51
	54		22	14		
		600			109	48
	54		37	12		
		606			165	41
	55		52	10		
		606			209	43
	54		61	13		
		600			178	56
	54		35	17		
		600			150	50
	54		46	10		
		543			93	46
	38		2	14		

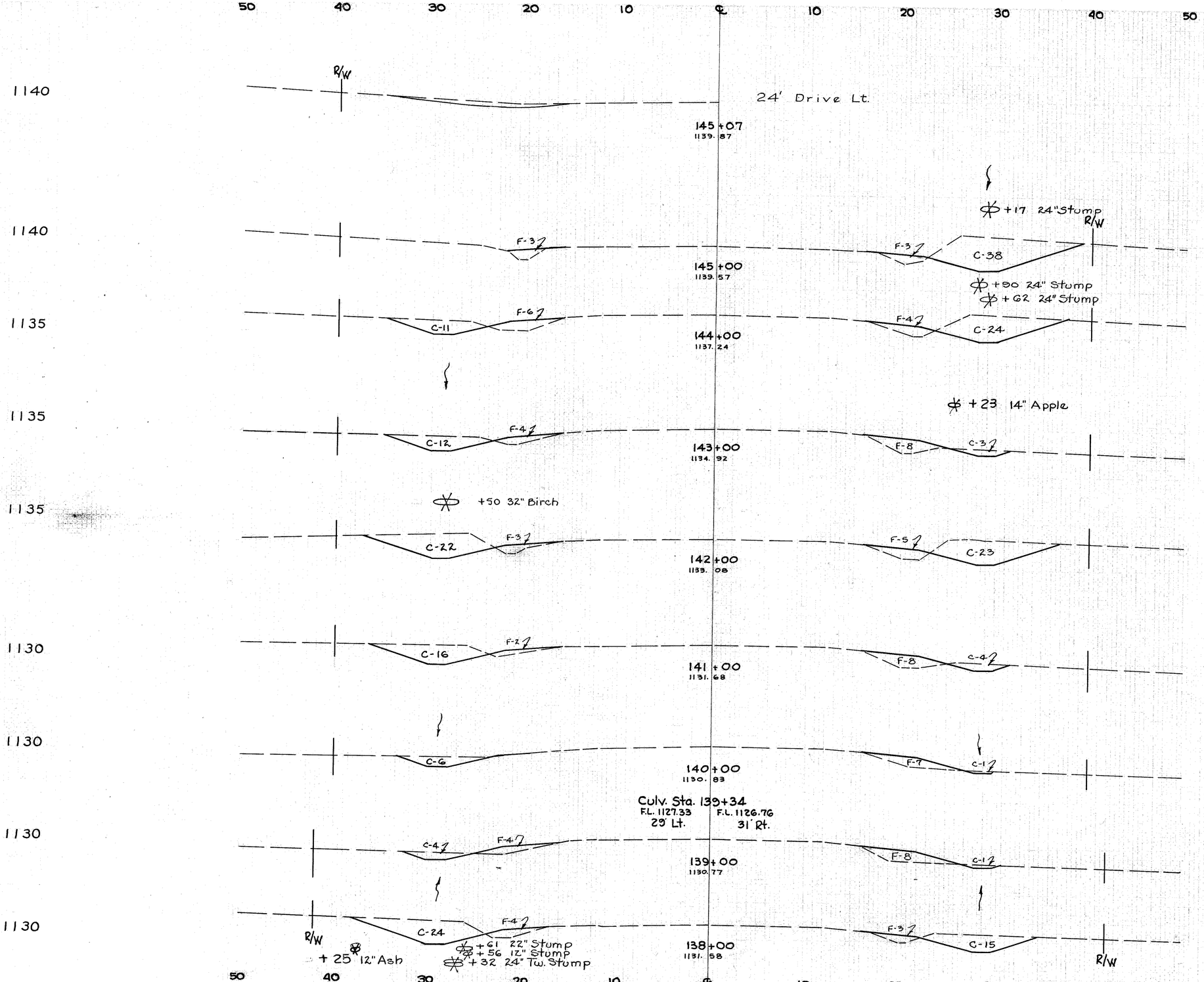
POR-14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

℄ +15 16" Map.

| | | |

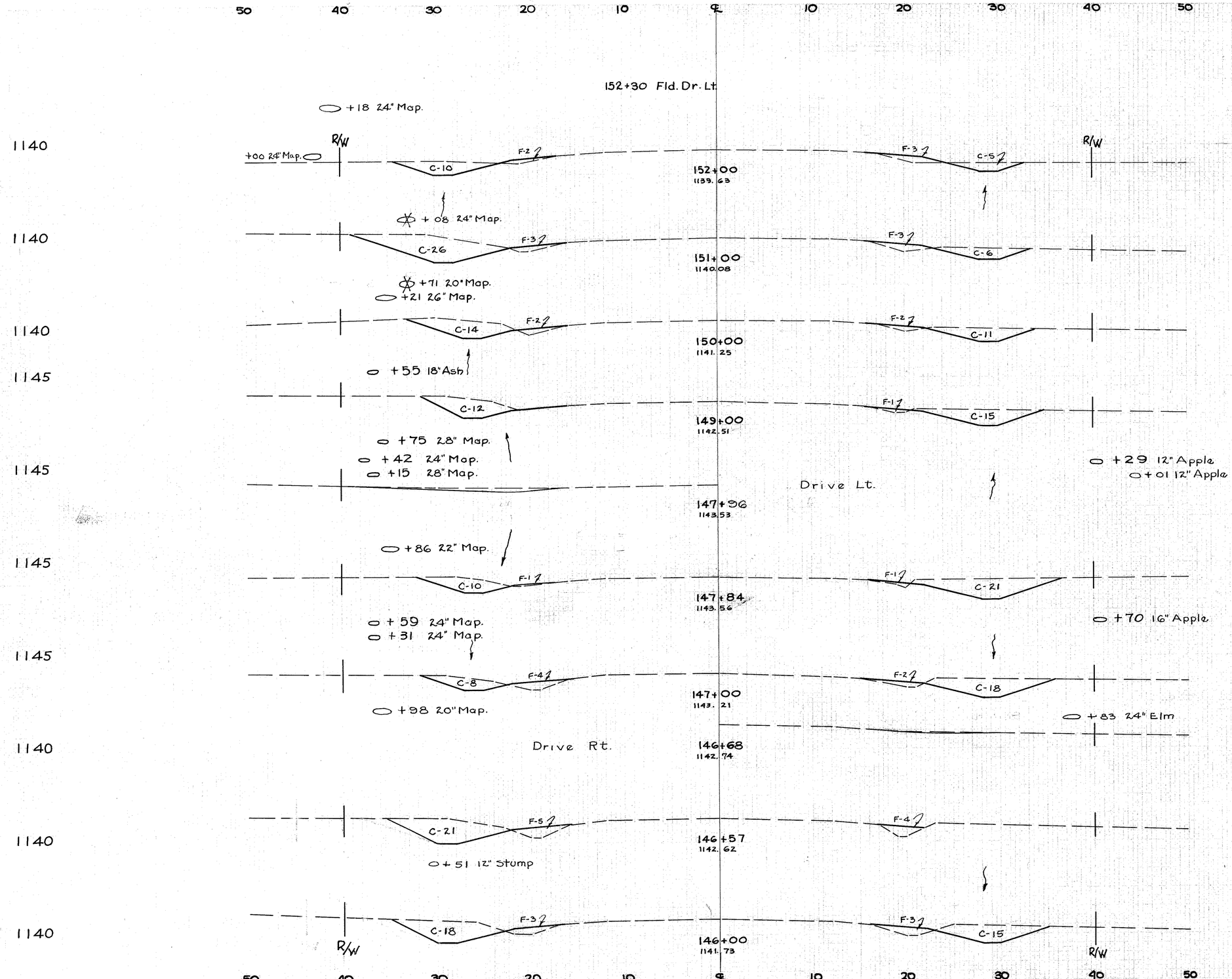
POR-14 - 18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc	Emb
Dr.						12
	42		38	6		
		500			135	30
	48		35	10		
		539			93	41
	49		15	12		
		544			111	37
	49		45	8		
		544			120	33
	49		20	10		
		539			50	31
	48		7	7		
		550			22	35
	51		5	12		
		578			81	35
	53		39	7		
	55	600	57	3	178	19

CROSS SECTION STA 139+34 TO STA 140+00

POR-14 - 18.03



	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
Dr.						6
	48		15	5		
		539			87	20
	49		32	6		
		539			106	19
	48		25	4		
		539			96	9
	49		27	1		
Dr.					16	
		87			17	1
	49		31	2		
		462			89	13
	50		26	6		
Dr.						5
		220			37	12
	42		21	9		
		285			57	16
	48		33	[illegible]		
		500				
Sta. 145+00	42		38			

CROSS SECTION STA 146+00 TO STA. 152+0

POR-14 – 18.03

50 40 30 20 10 ℄ 10 20 30 40 50

+51 20" Chy.
+38 20" Chy.

1145 R/W C-15 F-2 — 159+00 1143.79 — F-4 C-22 R/W

0 +84 12" Elm

1145 C-5 F-5 — 158+00 1143.39 — F-4 C-11

22' Drive Rt.

1140 157+11 1142.67

1140 C-5 F-4 — 157+00 1142.60 — F-3 C-17

1140 C-13 F-2 — 156+06 1141.82 — F-3 C-20

20' Drive Rt.

1140 155+07 1141.16

1140 C-15 F-2 — 155+00 1141.10 — F-3 C-22

1140 C-8 F-2 — 154+00 1140.33 — F-4 C-26

1140 C-5 F-3 — 153+00 1139.77 — F-2 C-9

R/W 0 +09

Culv. Sta. 152+54
F.L. 1135.99 29' Lt. F.L. 1136.36 29' Rt.

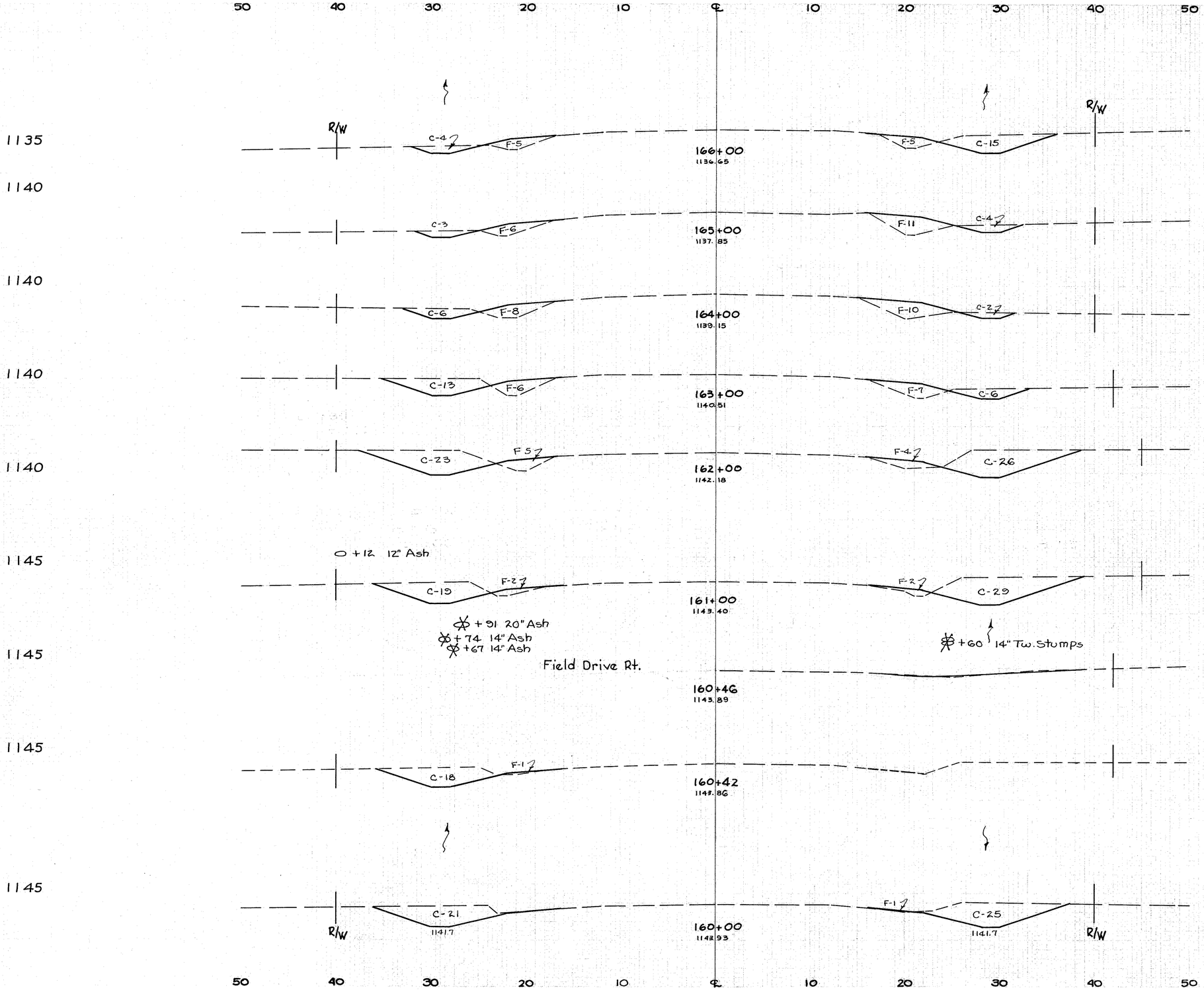
50 40 30 20 10 ℄ 10 20 30 40 50

CROSS SECTION STA 153+00 TO STA. 159+00

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	48		37	6		
		544			98	28
	50		16	9		
Dr.		544			70	30
						6
	48		22	7		
		501			96	21
	48		33	5		
		571			138	20
Dr.						6
	49		37	5		
		539			131	20
	48		34	6		
		539			89	20
	49		14	5		
		539			54	19
Sta. 152+00	48		15	5		

Excavation	2497 C.Y.
Embankment	684 C.Y.
Seeding	12829 S.Y.

POR-14 - 18.03



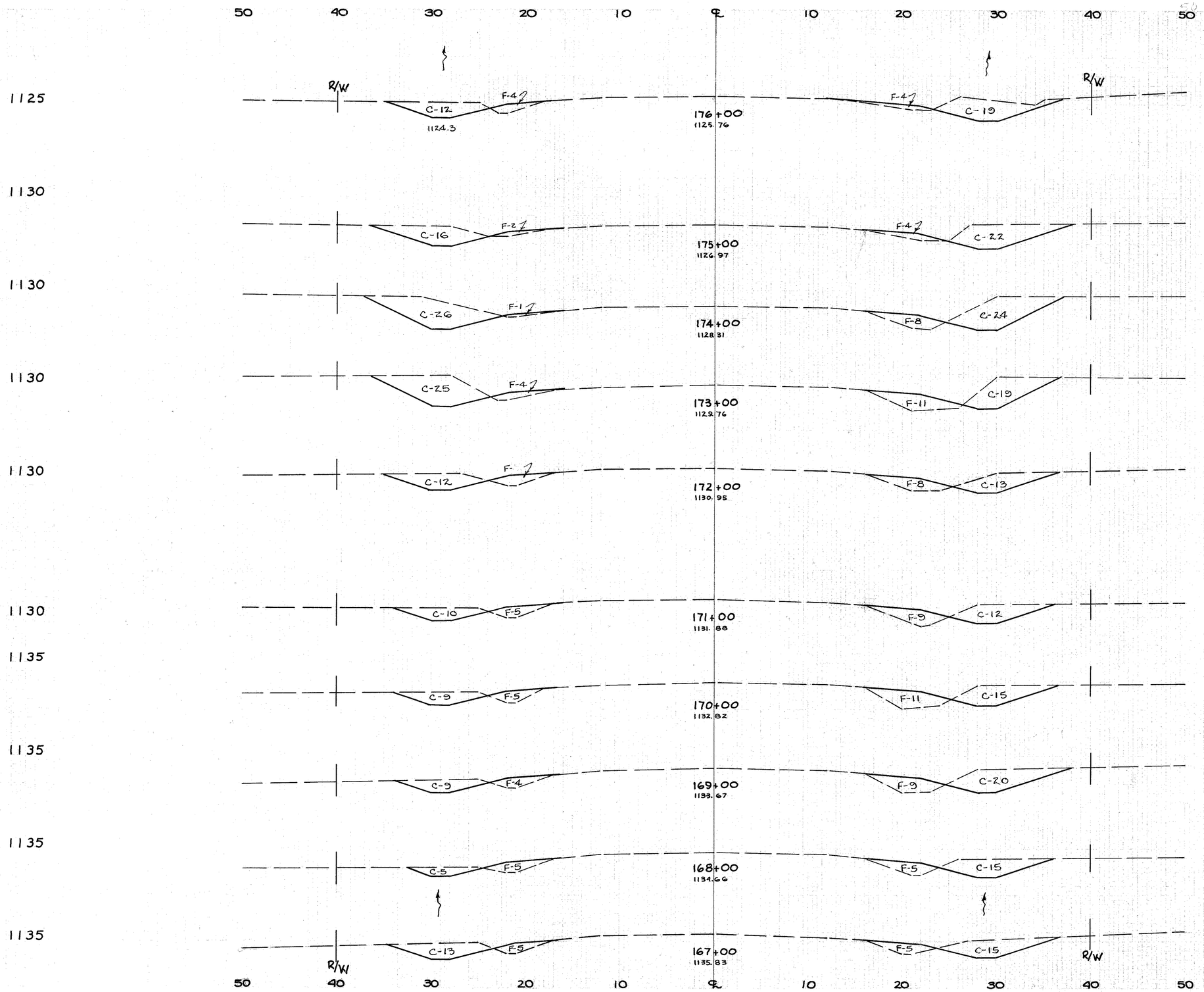
165+00

Sta. 159+00

Seeding		End Area		Cu. Yds.	
L.F	S.Y.	Cut	Fill	Exc.	Emb.
49		19	10		
	539			48	50
48		7	17		
	522			28	65
46		8	18		
	539			50	57
51		19	13		
	589			126	41
55		49	9		
	606			180	24
54		48	4		
	255			71	5
Dr.				17	
25		18	1		
	171			50	2
48		46	1		
	533			154	13
48		37	6		

CROSS SECTION STA 160 + 00 TO STA. 166 + 00

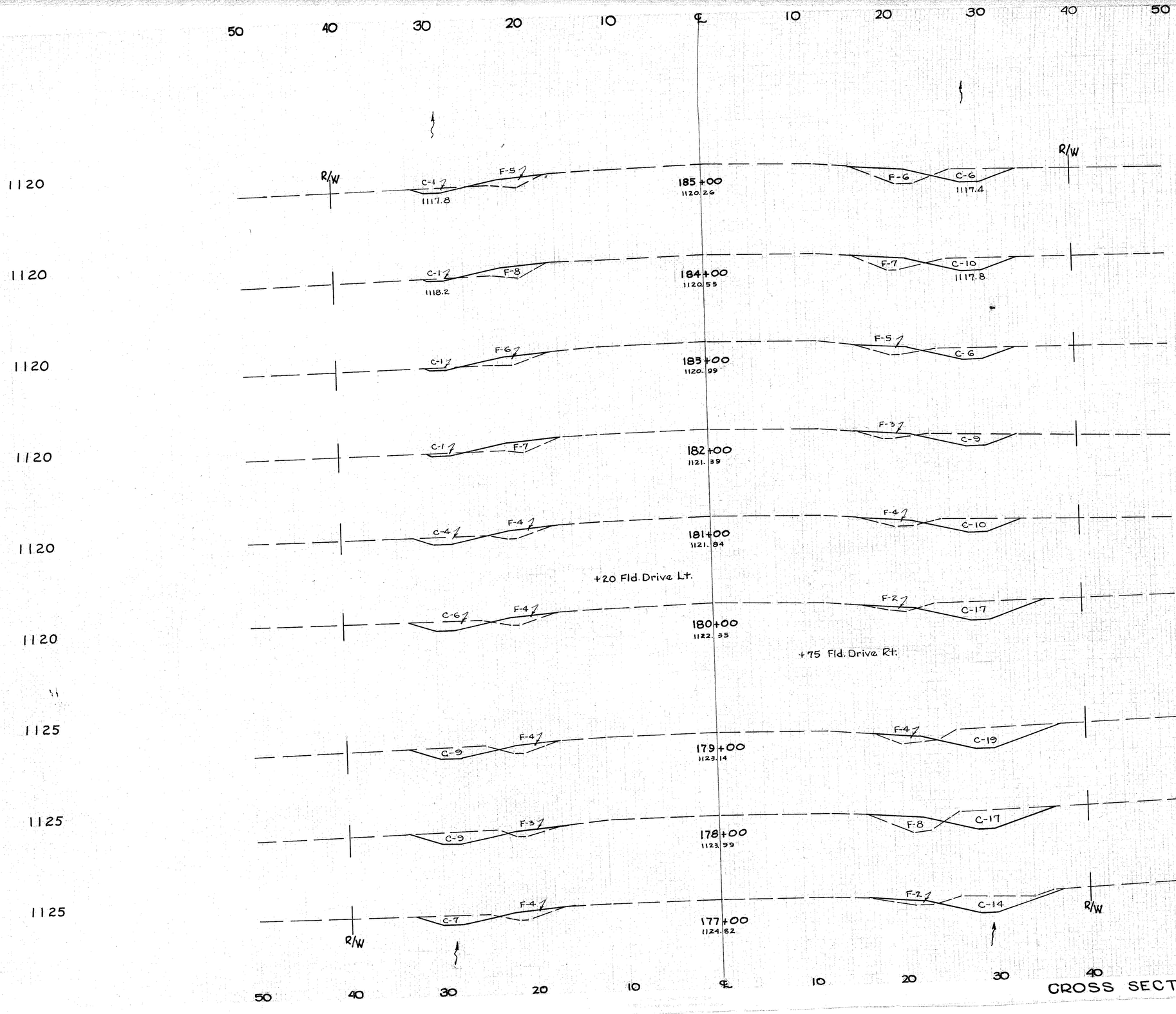
POR-14-18.03



Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
49		31	8		
	544			128	26
49		38	6		
	550			163	28
50		50	9		
	550			174	44
49		44	15		
	539			128	52
48		25	13		
	533			87	50
48		22	14		
	539			85	56
49		24	16		
	544			98	54
49		29	13		
	539			91	43
48		20	10		
	533			89	37
48		28	10		
	539			87	37
49		19	10		

Sta. 166+00

CROSS SECTION STA 167+00 TO STA. 176+00



POR-14 - 18.03

Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
48		7	11		
	533			33	48
48		11	15		
	539			33	48
49		7	11		
	544			31	39
49		10	10		
	544			44	33
49		14	8		
	533			69	26
49		23	6		
	528			94	26
47		28	8		
	528			100	35
48		26	11		
	533			87	31
49		21	6		
	556			96	26
49		31	8		

Dr.

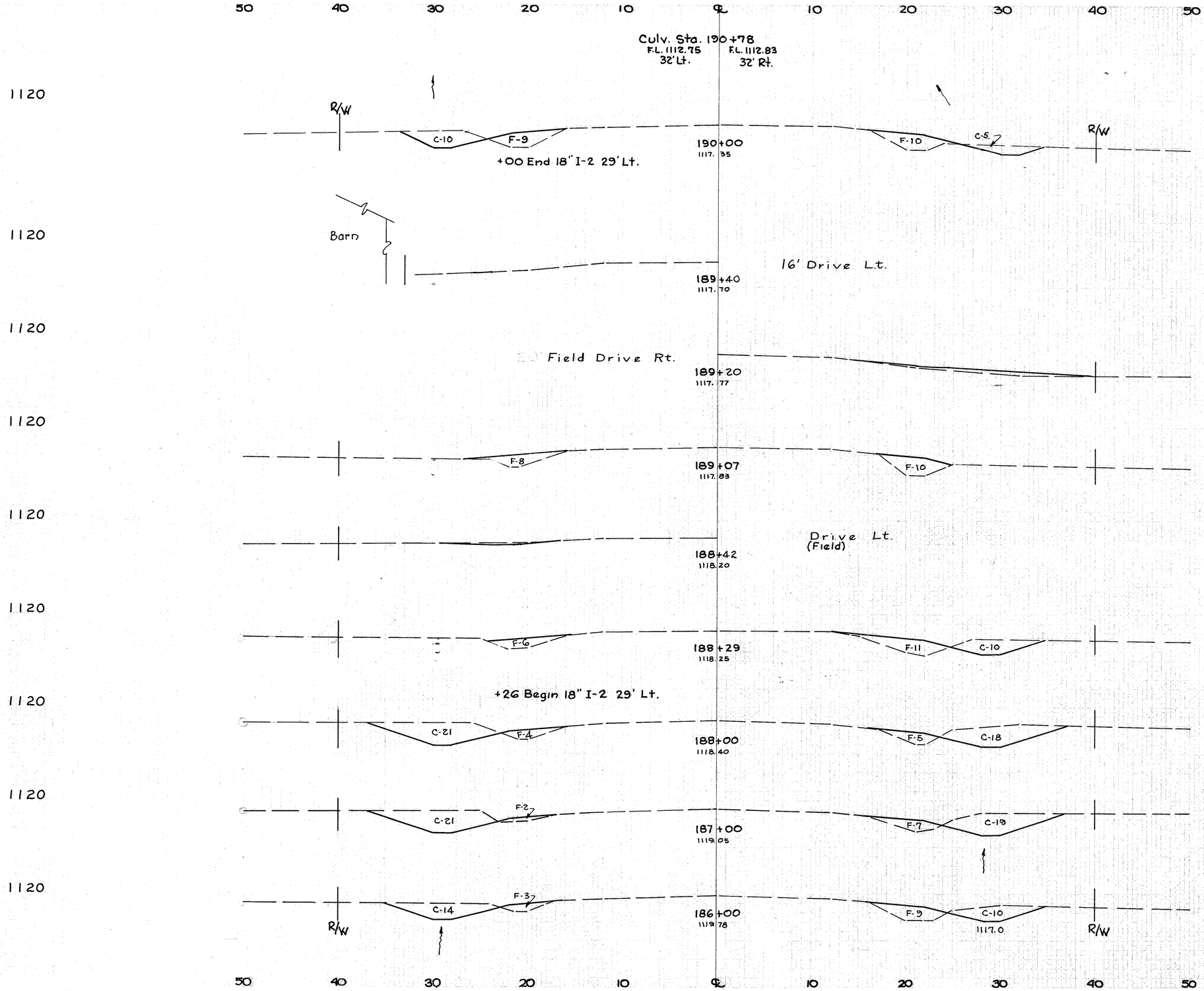
Dr.

Excavation	2087 C.Y.
Embankment	923 C.Y.
Seeding	12398 S.Y.

Sta. 176+00

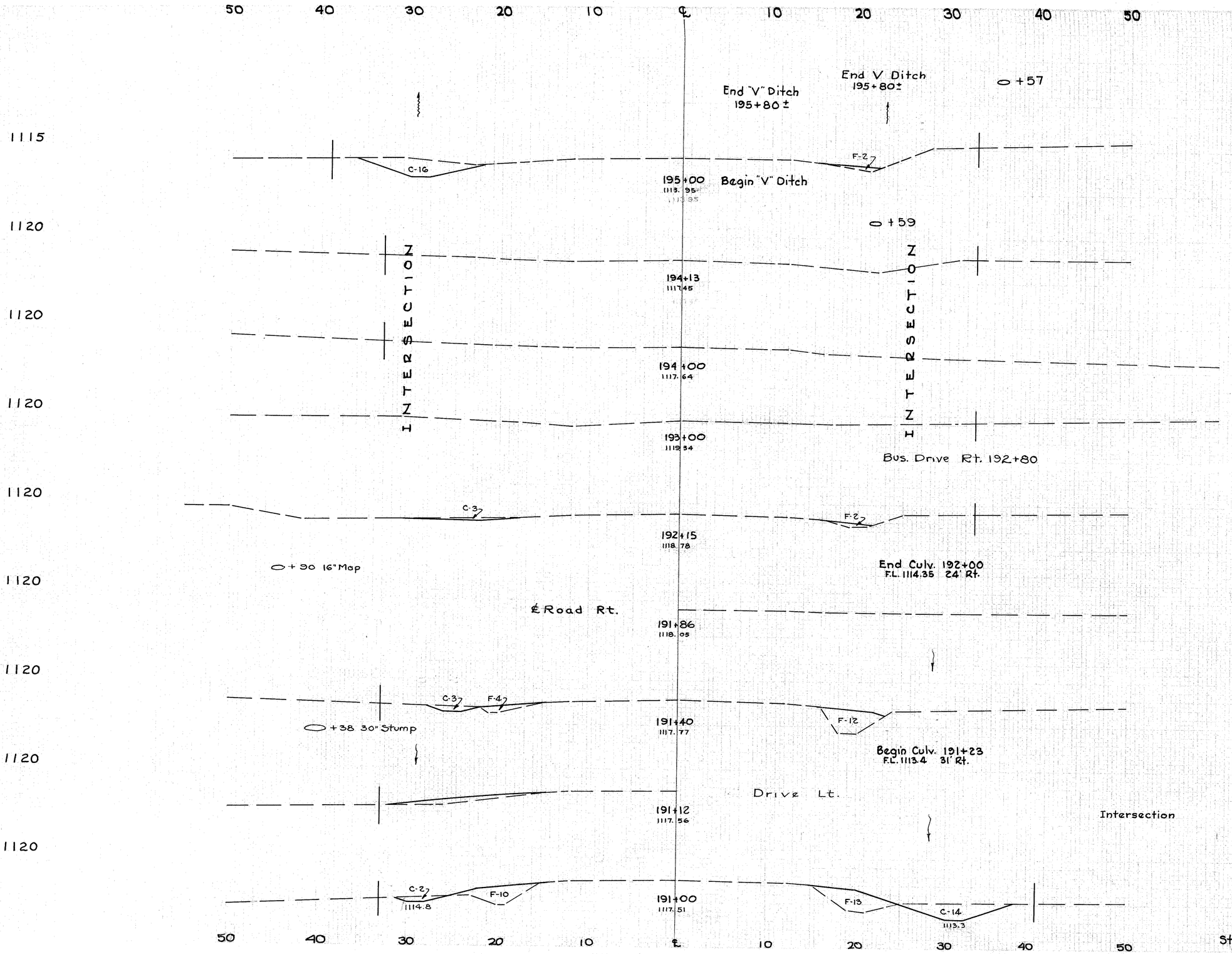
CROSS SECTION STA 177+00 TO STA. 185+00

POR - 14 - 18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	56		15	19		
Dr					14	
		667			26	64
Dr.						6
	80		0	18		
Dr.					14	
		551			15	51
	47		10	17		
		153			26	14
	48		39	9		
		539			146	33
	49		40	9		
		539			119	39
	48		24	12		
		533			57	43
	48		7	11		

CROSS SECTION STA 186+00 TO STA. 190+00



POR-14-18.03

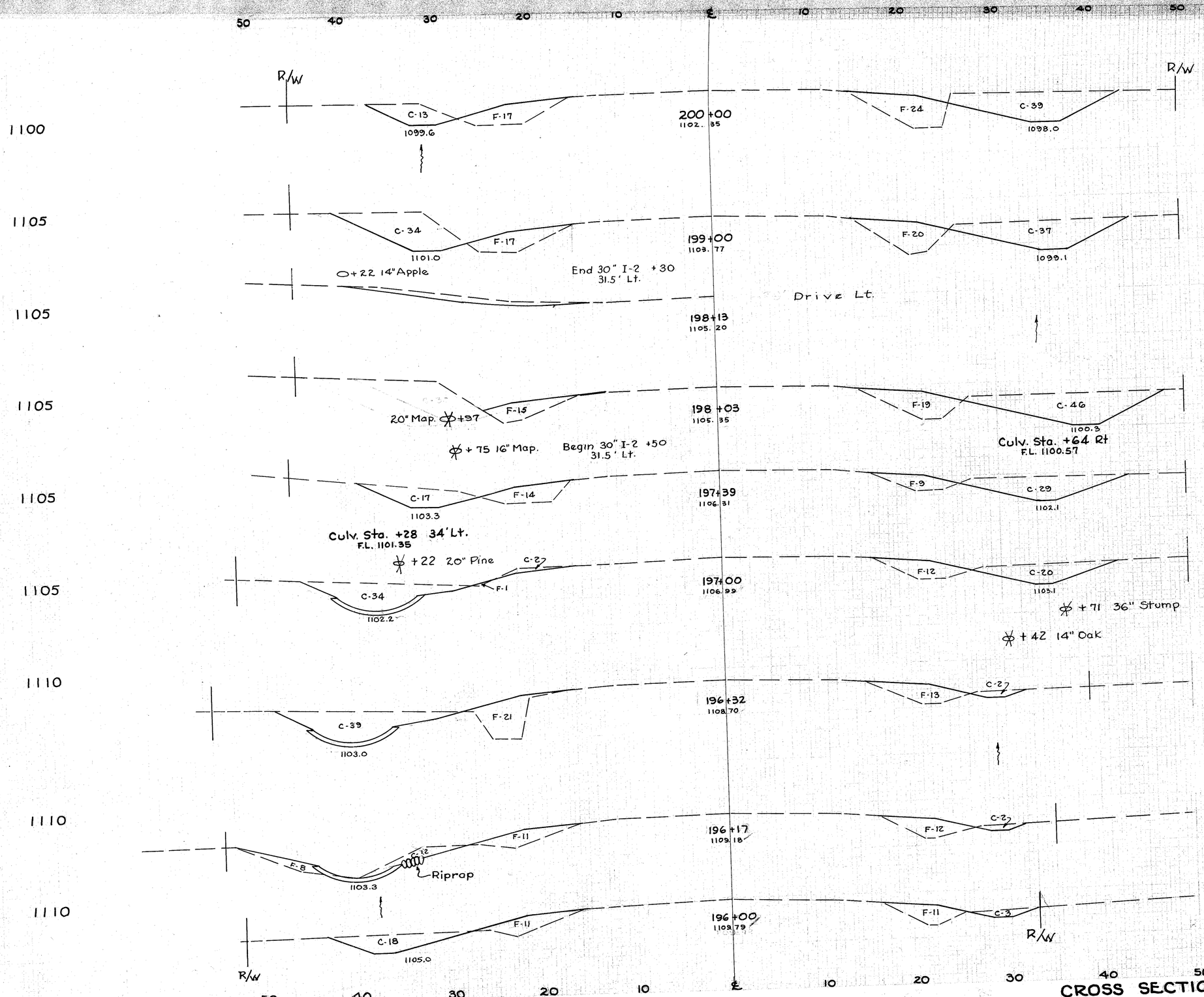
Seeding		EndArea		Cu	
L.F.	S.Y.	Cut	Fill	Exc.	
40		16	2		
	193			26	3
0		0	0		
0		0	0		
0		0	0		
	142			5	3
30		3	2		
	267			7	25
34		3	16		
	169			14	29
42		16	23		
	544			57	78
56		15	19		

Dr.

Sta. 190+00

CROSS SECTION STA. 191+00 TO STA. 195+00

POR-14 - 18.03



	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	65		52	41		
		722			228	144
	65		71	37		
Dr.						24
		624			210	127
	51		46	34		
		412			109	68
	65		46	23		
		293			74	26
	70		56	13		
		472			129	59
	55		46	34		
		83			16	18
	46		13	31		
		94			11	18
	54		21	22		
		522			69	44
Sta. 195+00	40		16	2		

EXCAVATION 3265 C.Y.
EMBANKMENT 1927 C.Y.
SEEDING 13839 S.Y.

CROSS SECTIONS STA. 196+00 TO STA. 200+00

POR-14 - 18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1095

R/W

C-10
1093.6

F-11

206+00
1096.19

F-15

C-29
1092.4

R/W

1095

C-17
1094.6

F-5

205+00
1097.30

F-15

C-44
1093.3

+74 20" Map.

1095

C-37
1095.2

F-17

204+00
1098.54

F-13

C-48
1094.2

203+82 20" Map.

Drive Lt.

202+91
1099.68

1100

C-46
1095.6

F-24

202+78
1099.81

F-16

C-54
1095.3

202+00 End 42" I-2 35.5 Rt.

1100

C-39
1096.6

F-18

202+00
1100.46

F-22

Drive Rt.

201+48
1100.91

1100

C-26
1097.5

F-15

201+35
1101.02

F-23

201+30 Begin 42" I-2
39' Rt.

1100

R/W

C-21
1098.0

F-17

201+00
1101.34

F-23

C-41
1096.8

R/W

50 40 30 20 10 ℄ 10 20 30 40 50

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	65		39	26		
		722			185	85
	65		61	20		
		750			270	93
	70		85	30		
		955			418	159
Dr.						41
	71		100	40		
		551			232	115
	56		39	40		
Dr.						16
		394			133	66
	53		49	15		
		231			72	36
	66		62	40		
		728			211	151
Sta. 200+00	65		52	41		

CROSS SECTIONS STA. 201+00 TO STA. 206+00

POR-14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1090

R/W — F-3 — C-27 — 1089.3 — 212+24 — 1092.99 — F-6 — C-20 — 1089.0 — R/W

1090

F-3 — C-9 — 1089.0 — 211+66 — 1092.86 — F-6 — C-12 — 1088.5

1090

F-4 — 1088.0 — End Sod Lt. — 211+50 — 1092.78 — F-6 — End Sod Rt. — 1087.5

1090

F-1 — C-9 — 1088.1 — 211+37 — 1092.83 — F-5 — C-18 — 1087.6

+10 22" Elm

1090

C-10 — 1088.5 — F-11 — 211+00 — 1092.74 — F-15 — C-21 — 1087.9

+25 34" Elm

1090

C-15 — 1089.6 — F-8 — 210+00 — 1092.92 — F-8 — C-25 — 1088.7

1090

C-16 — 1090.6 — F-8 — 209+00 — 1093.48 — F-12 — C-21 — 1080.6

1090

C-7 — 1091.6 — F-8 — 208+00 — 1094.17 — F-11 — C-26 — 1090.5

1090

R/W — C-10 — 1092.6 — F-9 — 207+00 — 1095.16 — F-12 — C-28 — 1091.5 — R/W

50 40 30 20 10 ℄ 10 20 30 40 50

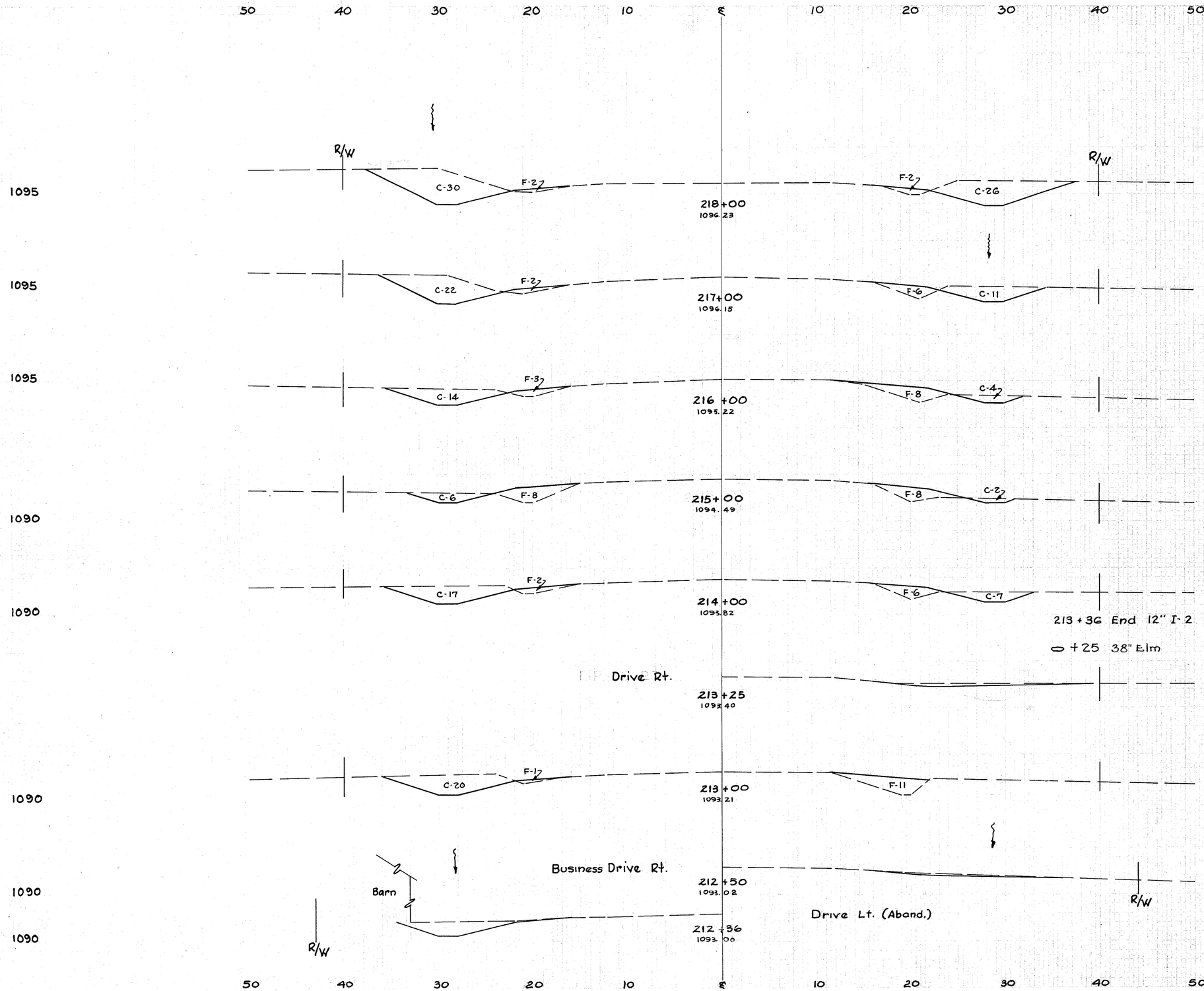
211+00

Sta. 206+00

Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
65		47	9		
	416			73	19
64		21	9		
	78			6	6
24		0	10		
	64			7	4
65		27	6		
	267			40	22
65		31	26		
	722			131	78
65		40	16		
	722			143	67
65		37	20		
	717			130	71
64		33	19		
	717			131	71
65		38	21		
	722			143	80
65		39	26		

CROSS SECTION STA. 207+00 TO STA. 212+24

POR-14-18.03

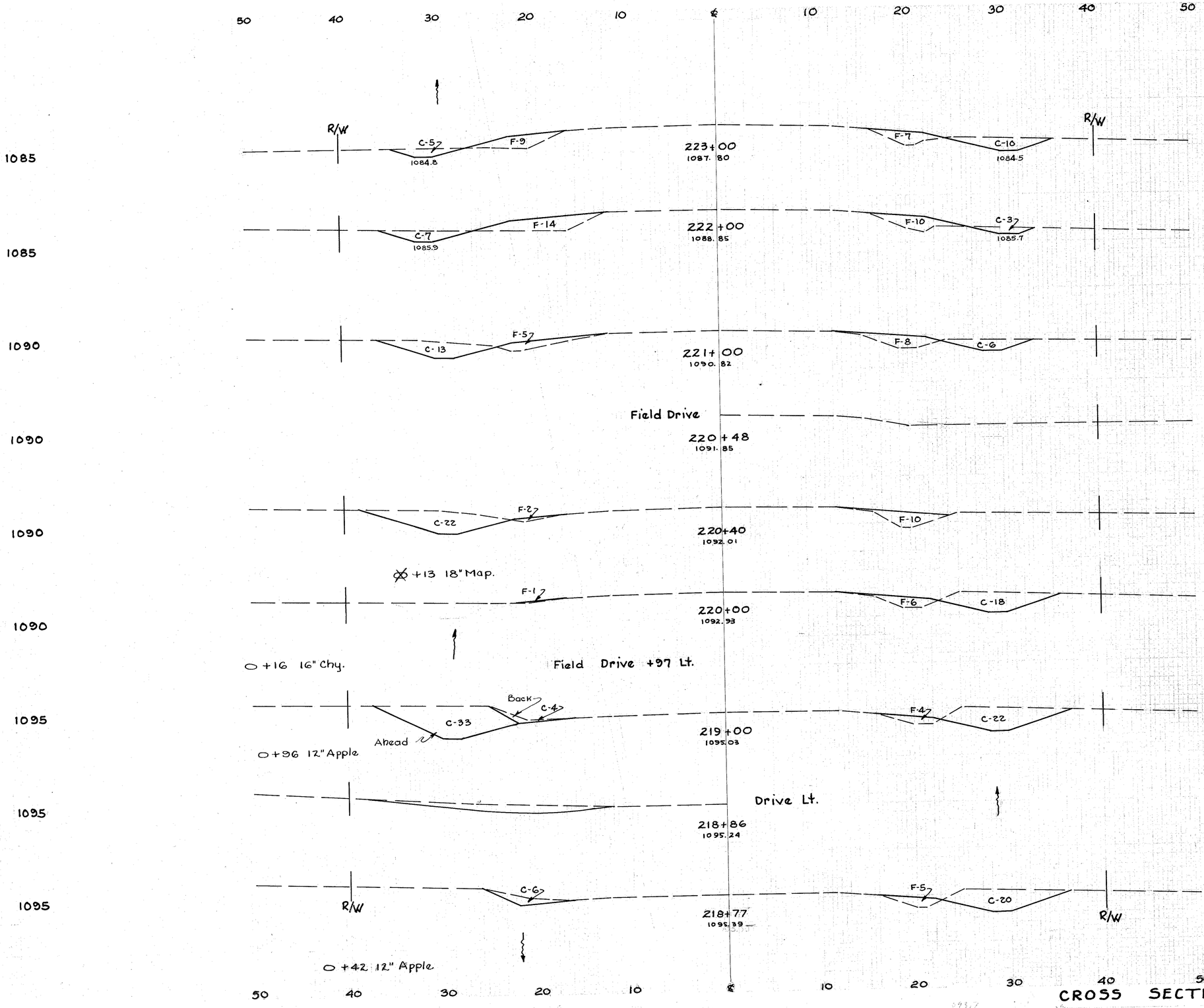


Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
50		56	4		
	550			165	22
49		33	8		
	544			94	35
49		18	11		
	539			48	50
48		8	16		
	533			59	44
48		24	8		
Dr.				16	
	556			81	37
52		20	12		
	494			93	30
Dr.				22	
65		47	9		

Sta. 212+24

CROSS SECTIONS STA. 212+96 TO STA. 218+00

POR-14-18.03

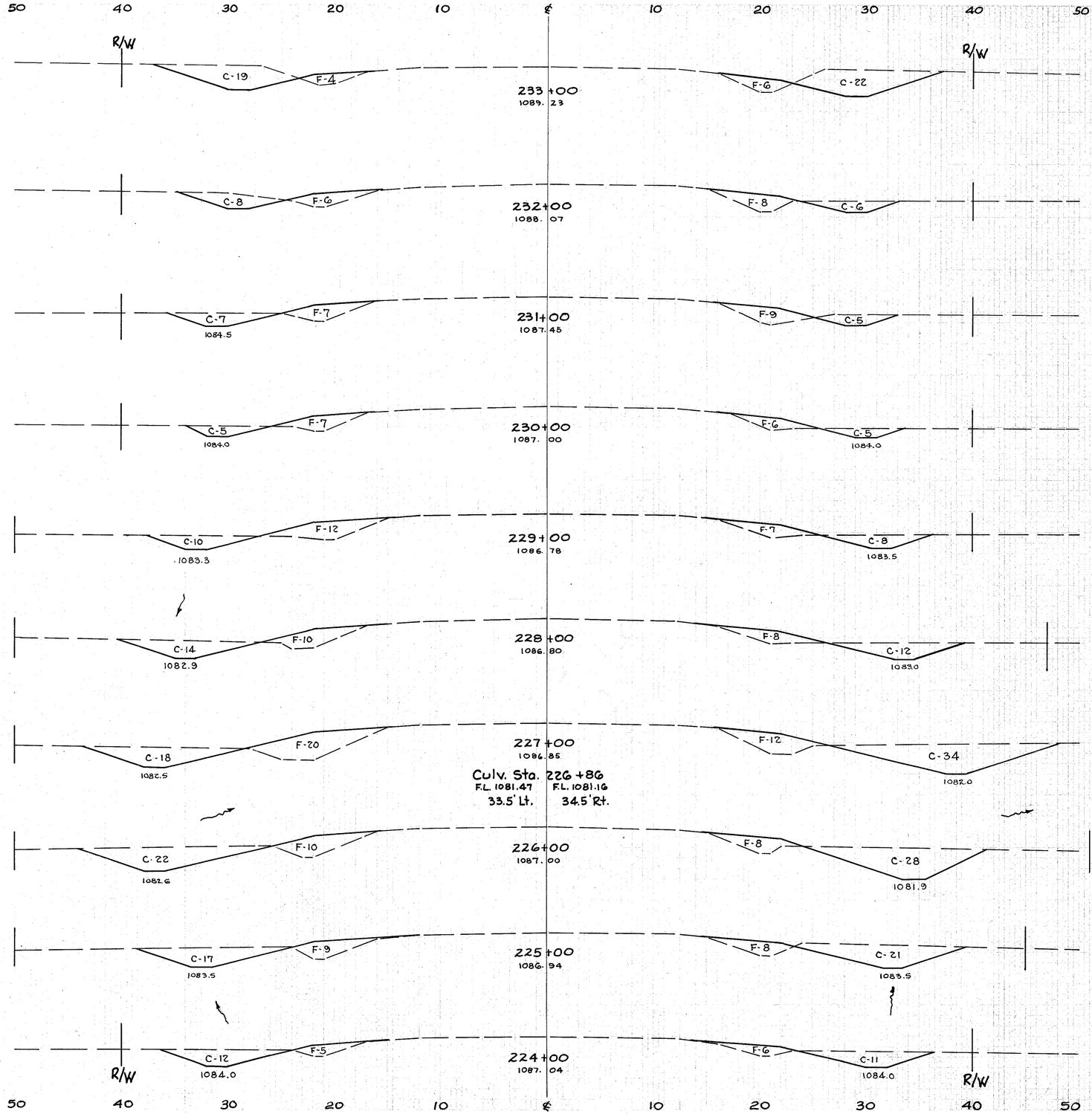


Excavation	2550 C.Y.
Embankment	1241 C.Y.
Seeding	14835 S.Y.

	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	49		15	16		
		567			46	74
	53		10	24		
		611			54	69
	57		19	13		
Dr.						5
		340			46	28
	45		22	12		
		198			30	14
	44		18	7		
Dr.						10
		522			135	20
Ahead	50		55	4		
Back	44		26	4		
		114			22	4
Dr.						34
	45		26	5		
		407			117	13
Sta. 218+00	50		56	4		

CROSS SECTIONS STA. 218+77 TO STA. 223+00

POR-14-18.03



Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
49		41	10		
	544			102	44
49		14	14		
	544			48	56
49		12	16		
	544			41	54
49		10	13		
	589			52	59
57		18	19		
	683			81	69
66		26	18		
	767			144	93
72		52	32		
	789			189	93
70		50	18		
	733			163	65
62		38	17		
	617			113	52
49		23	11		
	544			70	50
49		15	16		

Sta. 223+00

CROSS SECTIONS STA. 224+00 TO STA. 233+0

POR-14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1090

R/W C-5 F-8 1091.0

238+00
1093.20

F-6 C-5 1090.9 R/W

1090

C-6 F-8 1090.6

237+00
1093.03

F-10 C-2 1090.5

1090

C-10 F-6 1090.3

236+26
1092.80

F-6 C-6 1090.2

236+25 End 12" I-2 29' Lt.

236+00

Drive Lt. +74

House

1090

C-3

235+56
1092.36

F-6 C-13 1089.9

Begin row of trees
31' Rt at Sta 235+12
(118 trees)

All trees to be removed

Field Dr. Rt.

1090

234+78
1091.71

C-8

234+67
1091.57

F-8 C-15

Drive Lt.

1090

234+45
1091.27

1090

F-5 F-3 C-18

14" Map. ⌀ +35

234+36
1091.11

234+29 Begin 12" I-2 29' Lt.

1090

C-26 F-4

R/W

234+00
1090.59

F-4 C-20 R/W

⌀ +78 12" Map.

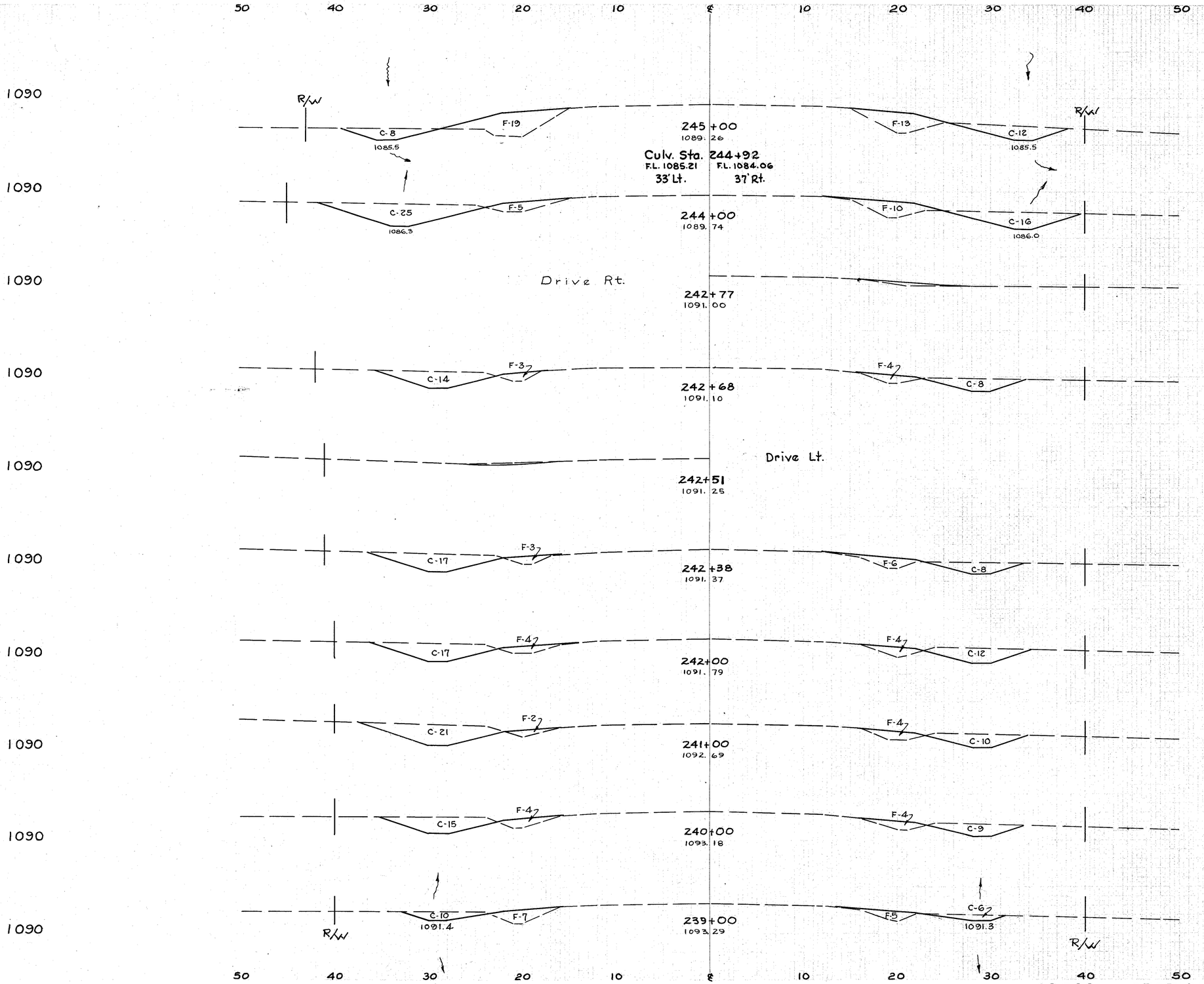
50 40 30 20 10 ℄ 10 20 30 40 50

Seeding		End Area		Cu. Yds	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
48		10	14		
	556			33	59
52		8	18		
	415			33	41
49		16	12		
	358			41 16	23
Dr.					
43		16	6		
Dr.					4
	455			64	23
49		23	8		
Dr.					7
	150			24	9
38		18	8		
	174			43	11
49		46	8		
	544			161	33
49		41	10		

Sta. 233+00

CROSS SECTIONS STA. 234+00 TO STA. 238+00

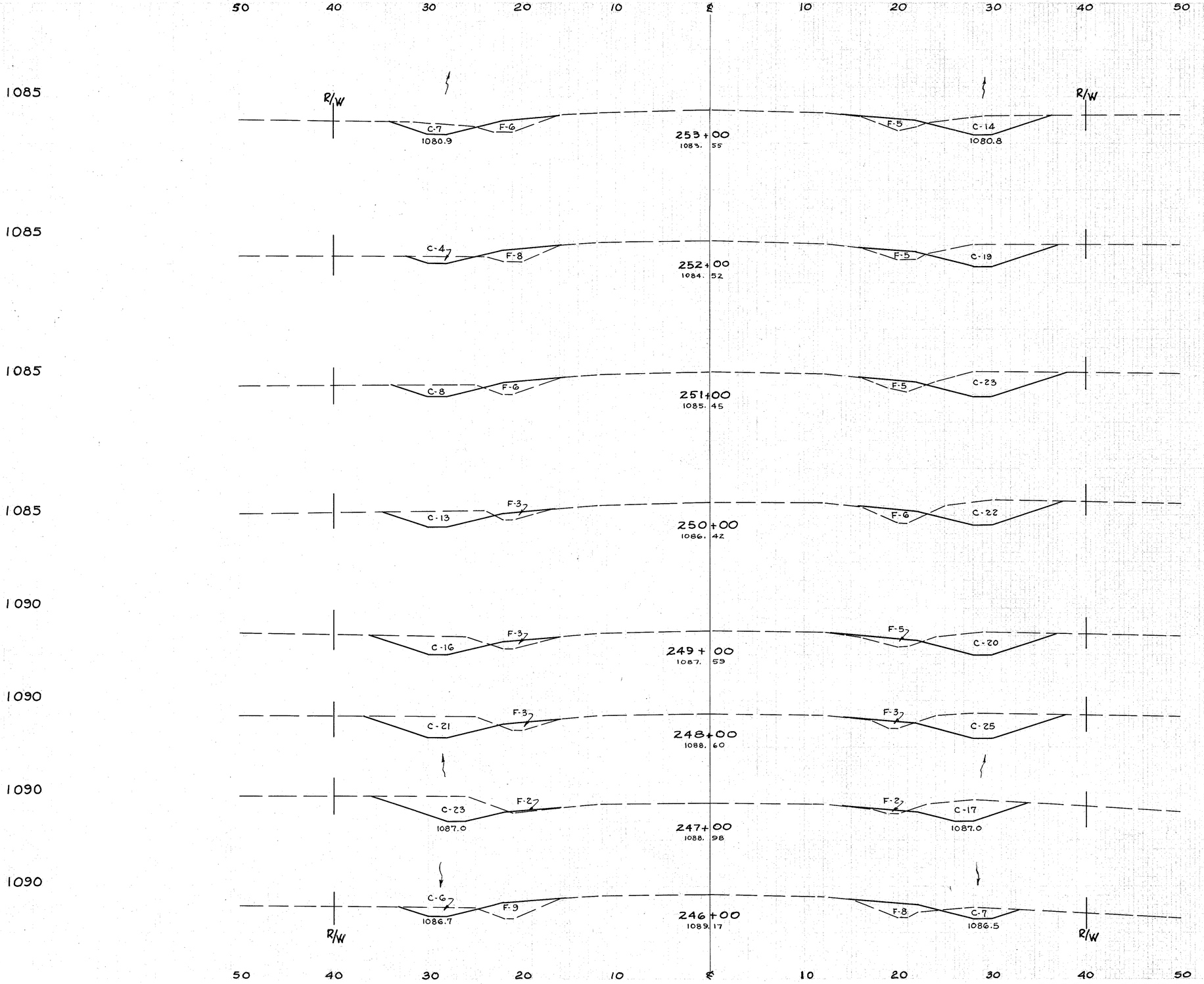
POR-14 - 18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	52		20	32		
		594			113	87
	55		41	15		
Dr.						7
		188			37	13
	51		22	7		
Dr.						8
		168			26	9
	50		25	9		
		207			38	12
	48		29	8		
		539			111	26
	49		31	6		
		544			102	26
	49		24	8		
		539			74	37
	48		16	12		
		533			48	48
Sta. 238+00	48		10	14		

CROSS SECTIONS STA. 239+00 TO STA. 245+00

POR-14 - 18.03



Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
48		21	11		
	539			81	44
49		23	13		
	539			100	44
48		31	11		
	539			122	37
49		35	9		
	539			131	31
48		36	8		
	539			152	26
49		46	6		
	544			159	19
49		40	4		
	539			98	39
48		13	17		
	556			61	91
52		20	32		

Excavation	2020 C.Y.
Embankment	1105 C.Y.
Seeding	12300 S.Y.

Sta. 245+00

CROSS SECTIONS STA. 246+00 TO STA. 253+00

POR-14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

House 80'

R/W

1085

C-6 F-6

260+00
1085.97

+75 36" Elm

+31 14" Stump
+11 14" Stump

1085

C-20 F-10
1080.0

259+00
1083.72

F-13

+67 14" Stump

+80 20" Map.
+65 18" Map.

Drive Rt.

1080

258+15
1082.11

1080

C-23 F-8
1078.5

258+00
1081.92

F-9

Culv. Sta. +61
F.L. 1077.17 30' Lt.
F.L. 1077.59 30' Rt.

+97 16" Map.
+58 12" Stump
+31 20" Map.
+20 14" Map.
16" Stump +07

1080

C-9 F-10

257+00
1081.69

F-10 C-6
1078.6

+53 18" Map.

End row of trees
31' Rt at Sta. 256+00
(118 trees)

All trees to be removed

1080

C-1
C-6 F-6
1079.3

256+00
1081.72

F-8 C-7

1080

C-20 F-4
1079.7

255+00
1082.07

F-9 C-9

1080

R/W
C-8 F-7
1080.4

254+00
1082.65

F-5 C-9

R/W

Drive 253+80 Lt. (Field)

50 40 30 20 10 ℄ 10 20 30 40 50

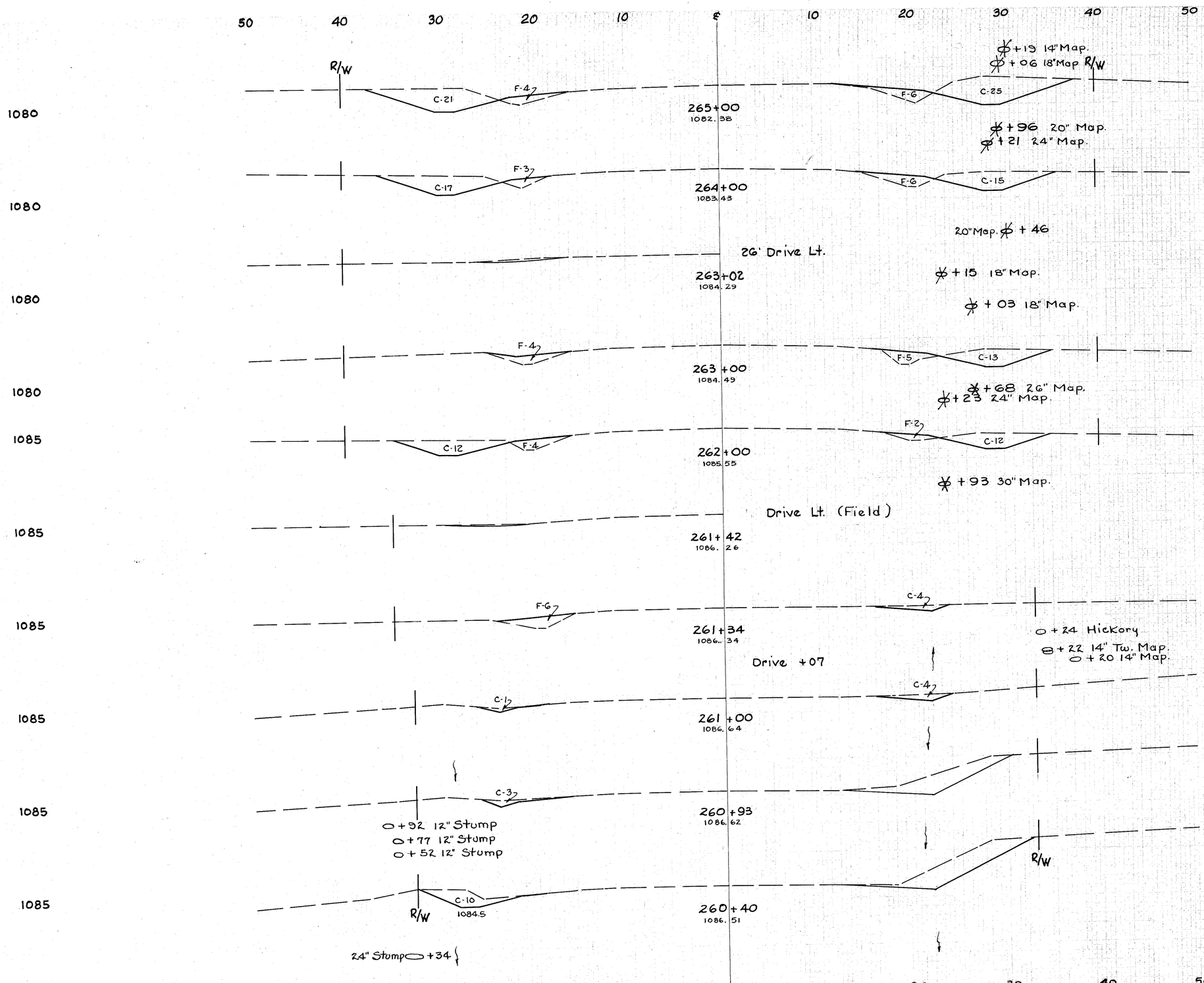
260+00

Sta. 253+00

Station	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	17		6	6		
		378			48	54
	51		20	23		
Dr.					14	
		578			80	74
	53		23	17		
		567			70	69
	49		15	20		
		544			54	63
	49		14	14		
		544			80	50
	49		29	13		
		539			85	46
	48		17	12		
Dr.		533			70	2 43
	48		21	11		

CROSS SECTIONS STA. 254+00 TO STA. 260+00

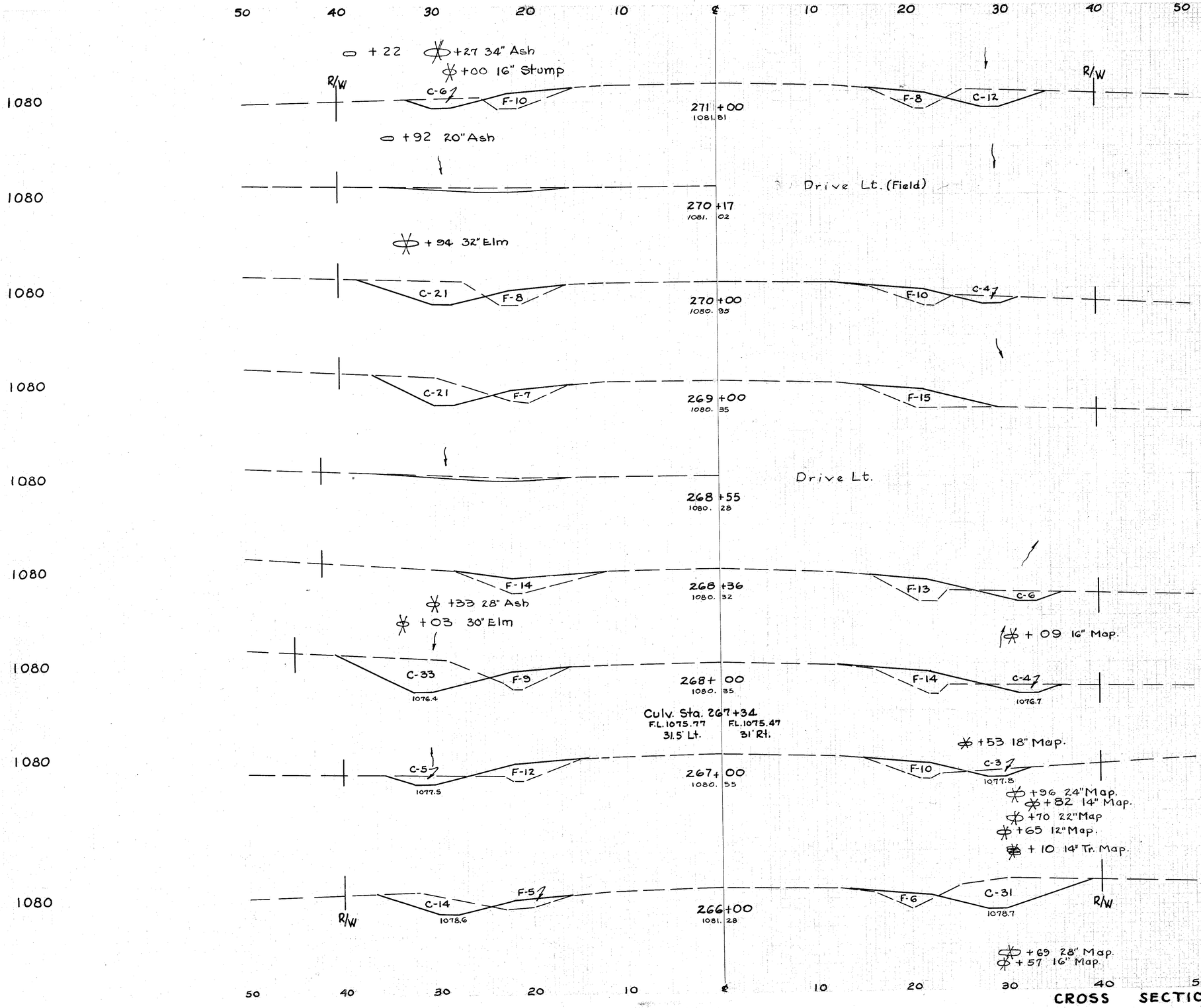
POR-14-18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	48		46	10		
		533			144	35
	48		32	9		
Dr.						6
		507			83	33
	43		13	9		
		507			69	28
	48		24	6		
Dr.						6
		304			34	15
	35		4	6		
		130			6	4
Dr.					14	
	34		5	0		
		20			1	0
	17		3	0		
		100			13	0
	17		10	0		
		76			12	4
Sta. 260+00	17		6	6		

CROSS SECTIONS STA. 260+40 TO STA. 265+00

POR-14 - 18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	49		18	18		
Dr.						8
		544			80	67
	49		25	18		
		539			85	74
	48		21	22		
Dr.						8
		331			49	42
	45		20	13		
		198			38	24
	55		37	23		
		578			98	83
	49		8	22		
		544			98	61
	49		45	11		
		539			169	39
	48		46	10		

Excavation	2024 C.Y.
Embankment	1296 C.Y.
Seeding	12439 S.Y.

Sta. 265+00

CROSS SECTIONS STA. 266+00 TO STA. 271 +00

POR-14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1080

R/W

C-18

F-6

1078.3

274+00
1080.68

F-2

C-21

R/W

1080

Drive Rt.

273+47
1081.91

1080

F-2

F-4

273+33
1082.01

1080

Drive Lt.

273+09
1082.22

+00 36" Stump

1080

F-5

273+00
1082.29

F-7

1080

C-3

F-8

272+00
1082.50

F-9

C-10

1080.1

1080

Field Drive Rt.

271+57
1082.32

1080

Drive Lt.

271+54
1082.30

1080

R/W

C-12

F-7

271+38
1082.19

F-8

C-14

1079.6

R/W

50 40 30 20 10 ℄ 10 20 30 40 50

Sta. 271+00

	Seeding L.F	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	53		39	8		
Dr.					16	
		328			48	17
	35		0	6		
Dr.					14	
		130			0	11
	36		0	12		
		461			24	54
	47		13	17		
Dr.						5
		310			45	37
Dr.						8
	49		26	15		
		207			31	23
	49		18	18		

POR-14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1070 — R/W — C-1 — F-11 — 278+00, 1072.04 — F-5 — C-7, 1069.0 — Intersection

End Culv. +87
F.L. 1069.3

+86 24" Elm

℄ Road Rt. — 277+60, 1072.41

1075 — C-2 — F-10 — 277+34, 1072.79 — F-13 — C-12, 1069.6 — Intersection

Begin Culv. +34
F.L. 1069.6

1075 — C-2 — F-8 — 277+00, 1073.19 — F-9 — C-9, 1070.3 — R/W

1075 — C-6, 1072.8 — F-10 — 276+00, 1075.33 — F-4 — C-32, 1072.5

1080 — C-5, 1076.0 — F-11 — 275+00, 1077.89 — F-6 — C-17, 1075.3

Drive Rt.

1080 — 274+42, 1079.48

1080 — R/W — C-10 — F-10 — 274+35, 1079.73 — F-1 — C-16 — R/W

50 40 30 20 10 ℄ 10 20 30 40 50

Sta.	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu.Yds. Exc.	Cu.Yds. Emb.
274+00	43		8	16		
		319			27	48
275+00	44		14	23		
		174			16	25
276+00	48		11	17		
		539			91	57
277+00	49		38	14		
		556			111	57
278+00	52		22	17		
Dr.		376			58	34
						9
	52		26	11		
		204			42	12
Sta. 274+00	53		39	8		

CROSS SECTIONS STA. 274+35 TO STA. 278+00

POR-14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1065 R/W C-6 F-8 1062.0 — 284+00 1064.63 — F-4 C-8 R/W

1065 C-10 F-8 — 283+00 1065.99 — F-5 C-6
⊗ +40 16" Ash
⊗ +20 12" Map.

DRIVE RT.

1065 — 282+06 1067.31

1070 C-5 F-10 — 281+94 1067.47 — F-6 C-17
⊗ +66 20" Ash
⊗ +40 20" Ash
⊗ +15 28" Pine

1070 C-24 F-9 — 281+00 1069.13 — F-7 C-30
⊗ +67 28" Pine
⊗ +15 16" Map.

1070 C-15 F-10 — 280+00 1070.48 — F-7 C-16 1068.0

FIELD DRIVE LT.

1070 — 279+87 1070.61

1070 C-13 F-9 — 279+78 1070.68 — F-8 F-8 C-7 1068.3

1070 R/W C-5 F-9 1068.6 — 279+00 1071.38 — F-10 C-2 1068.6 R/W

50 40 30 20 10 ℄ 10 20 30 40 50

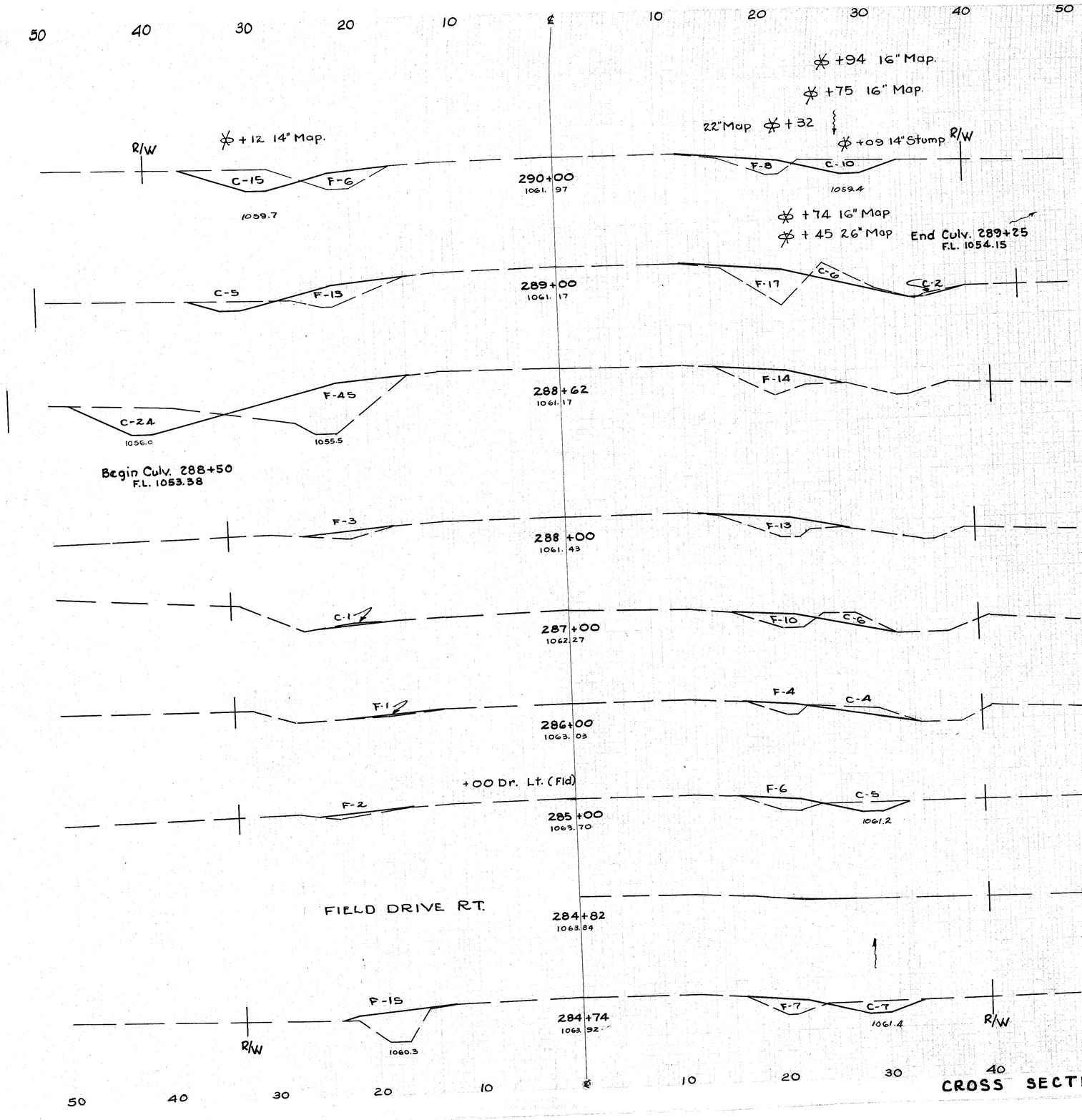
284+00

Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
49		14	12		
	550			56	46
50		16	13		
	595			74	57
Dr.					6
51		22	16		
	553			133	55
55		54	16		
	600			157	61
53		31	17		
	128			21	14
Dr.					6
52		20	17		
	442			39	52
50		7	19		
	517			28	65
43		8	16		

Sta. 278+00

CROSS SECTIONS STA. 279+00 TO STA. 284+0

POR-14-18.03

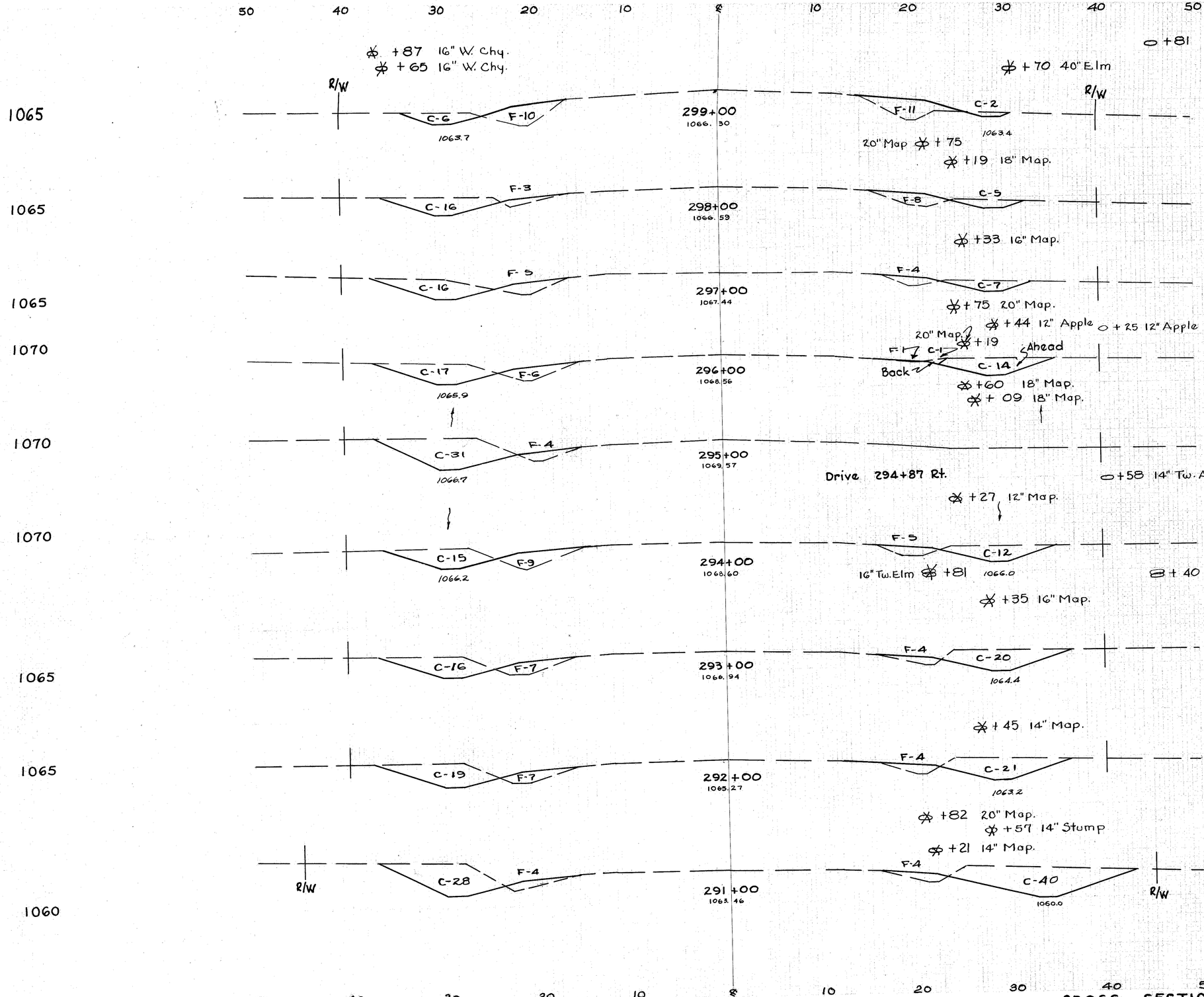


Seeding		End Area		Cu. Yds.	
L.F	S.Y.	Cut	Fill	Exc.	Emb.
53		25	14		
	628			70	81
60		13	30		
	255			26	63
61		24	59		
	355			27	86
42		0	16		
	467			13	48
42		7	10		
	456			20	28
40		4	5		
	461			17	24
Dr.				12	
43		5	8		
Dr.					4
	123			6	15
42		7	22		
	374			29	41
49		14	12		

Sta. 284+00

CROSS SECTIONS STA. 284+74 TO STA. 290+00

POR-14-18.03



EXCAVATION 2196 C.Y.
EMBANKMENT 1243 C.Y.
SEEDING 13112 S.Y.

	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	48		8	21		
		539			54	59
	49		21	11		
		544			81	37
	49		23	9		
		544			100	30
Ahead	49		31	7		
Back	43		18	7		
		378			91	20
Dr.	25		31	4		4
Dr.						4
		411			107	33
	49		27	14		
		544			117	46
	49		36	11		
		561			141	41
	49		40	11		
		600			200	35
	59		68	8		
		622			172	41
Sta. 290+00	53		25	14		

CROSS SECTIONS STA. 291+00 TO STA. 299+00

POR-14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1060

R/W
18" Map. 0+97
18" Map. 0+20
C-9
F-8
1055.5
306+12
1057.79
F-6
C-6
1055.3
R/W

1060

C-18
F-3
0+90 18" Map.
14" Map. 0+63
0+50 12" Map.
305+00
1059.69
F-4
C-13
1057.2
+73 FIELD DRIVE

Intersection

1060

304+28
1060.08
F-7
C-12
1057.5

Intersection

1060

+82 12" W. Chy.
C-24
F-4
1056.5
303+79
1060.04
F-8
C-20
1055.9

Culv. Sta. 303+07
F.L. 1054.81 35.5' Lt.
F.L. 1054.64 36' Rt.

1060

+17 48" Elm
+20 18" Elm
C-32
F-16
1055.4
303+00
1060.23
F-12
1056.8
C-29
1055.3
30" Oak +46

1060

+05 26" Elm
C-9
F-12
1058.0
302+04
1061.45
C-16
+95 12" Chy.

℄ DRIVE RT.

1060

301+84
1061.89

1060

+79 12" Chy.
C-6
F-12
301+64
1062.31
F-4
C-17

1065

+54 14" Chy.
+21 16" Stump
+08 18" Elm
C-9
26" Oak +65
1061.2
301+00
1063.66
F-5
C-22
+18 Stump
+71 Apple

1065

+40 24" Elm
+14 12" Chy.
C-22
F-10
R/W
1063.0
300+00
1065.54
F-10
C-6
1062.8
R/W

50 40 30 20 10 ℄ 10 20 30 40 50

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	49		15	14		
		609			95	44
	49		31	7		
		312			58	19
Dr.						6
	29		12	7		
		261			51	17
	67		44	12		
		601			153	58
	70		61	28		
		688			153	71
	59		25	12		
Dr.						6
		262			36	21
	59		23	16		
		398			64	25
	53		31	5		
		567			109	46
	49		28	20		
		539			67	76
Sta. 299+00	48		8	21		

CROSS SECTIONS STA. 300+00 TO STA. 306+12

POR 14-18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1055 1055 1060 1055 1055 1055 1055 1060

Culv. Sta. 314+50
F.L. 1049.34 31' Lt. | F.L. 1048.48 33' Rt.

R/W C-6 1049.8 F-10 — 314+00 1052.78 — F-12 C-2 1049.8 R/W

FIELD DRIVE LT.

313+16 1052.83

C-9 1050.4 F-5 — 313+00 1052.80 — F-6 C-16 1050.4

C-9 1050.0 F-6 — 312+00 1052.71 — F-6 C-5 1050.0

Culv. Sta. 311+38
F.L. 1048.76 31' Lt. | F.L. 1047.83 34' Rt.

C-9 1049.9 F-6 — 311+00 1052.72 — F-6 C-9 1049.8

0 +83 34" Elm

C-6 1050.3 F-6 — 310+00 1052.87 — F-6 C-5 1050.2

C-6 1050.7 F-7 — 309+00 1053.37 — F-6 C-6 1050.8

C-3 1051.9 F-8 — 308+00 1054.43 — F-8 C-6 1051.8

C-8 1053.5 F-8 — 307+00 1055.84 — F-8 C-15 1053.4 R/W

DRIVE LT.

306+42 1057.56 R/W

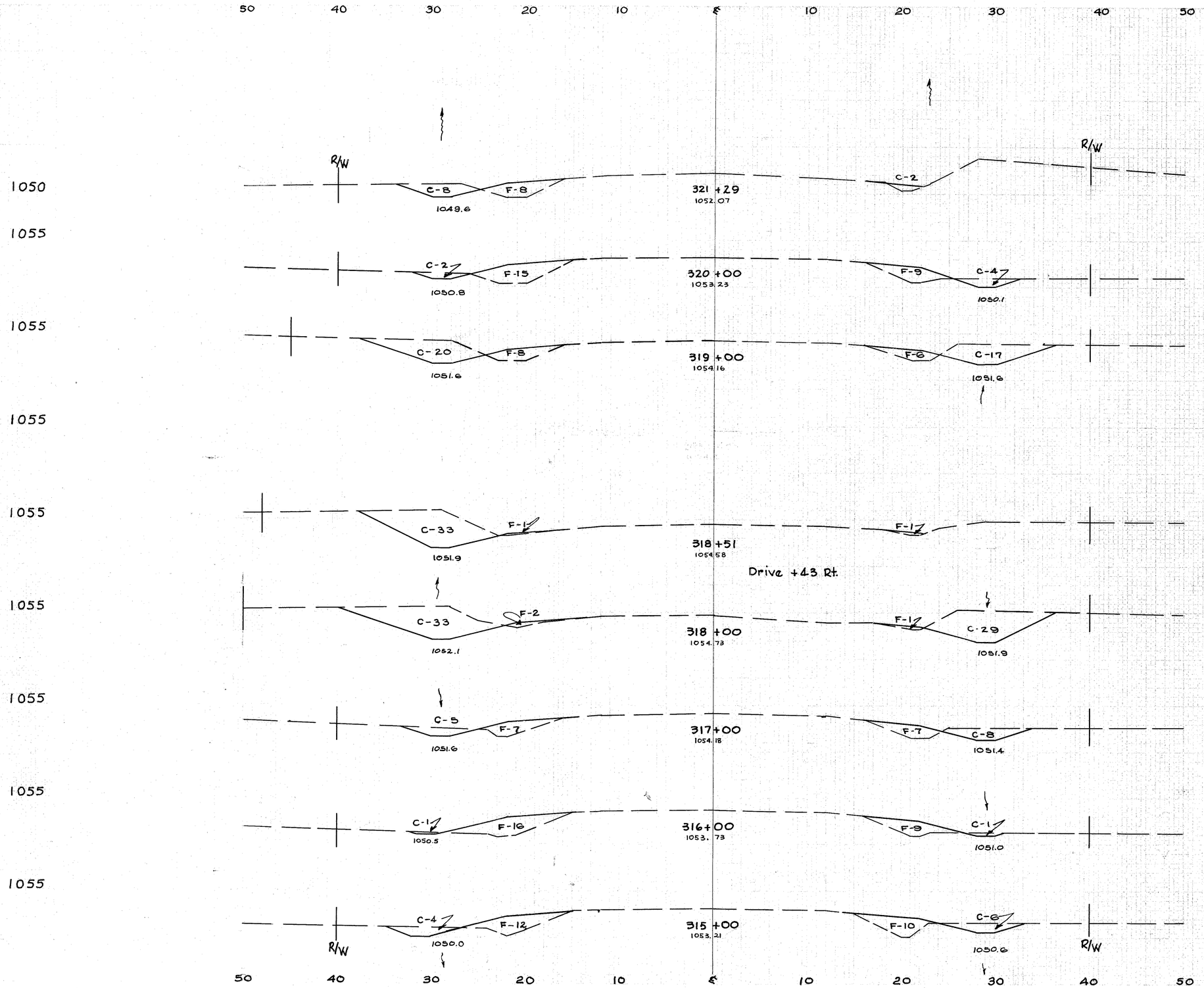
308+00

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	49		8	22		
Dr.					14	
		544			61	61
	49		25	11		
		544			72	43
	49		14	12		
		544			59	44
	49		18	12		
		539			54	44
	48		11	12		
		533			43	46
	48		12	13		
		539			39	54
	49		9	16		
		539			59	59
	48		23	16		
Dr		474			62	49
					G	
	49		15	14		

Sta. 306+12

CROSS SECTIONS STA. 306+72 TO STA. 314+00

POR-14 18.03

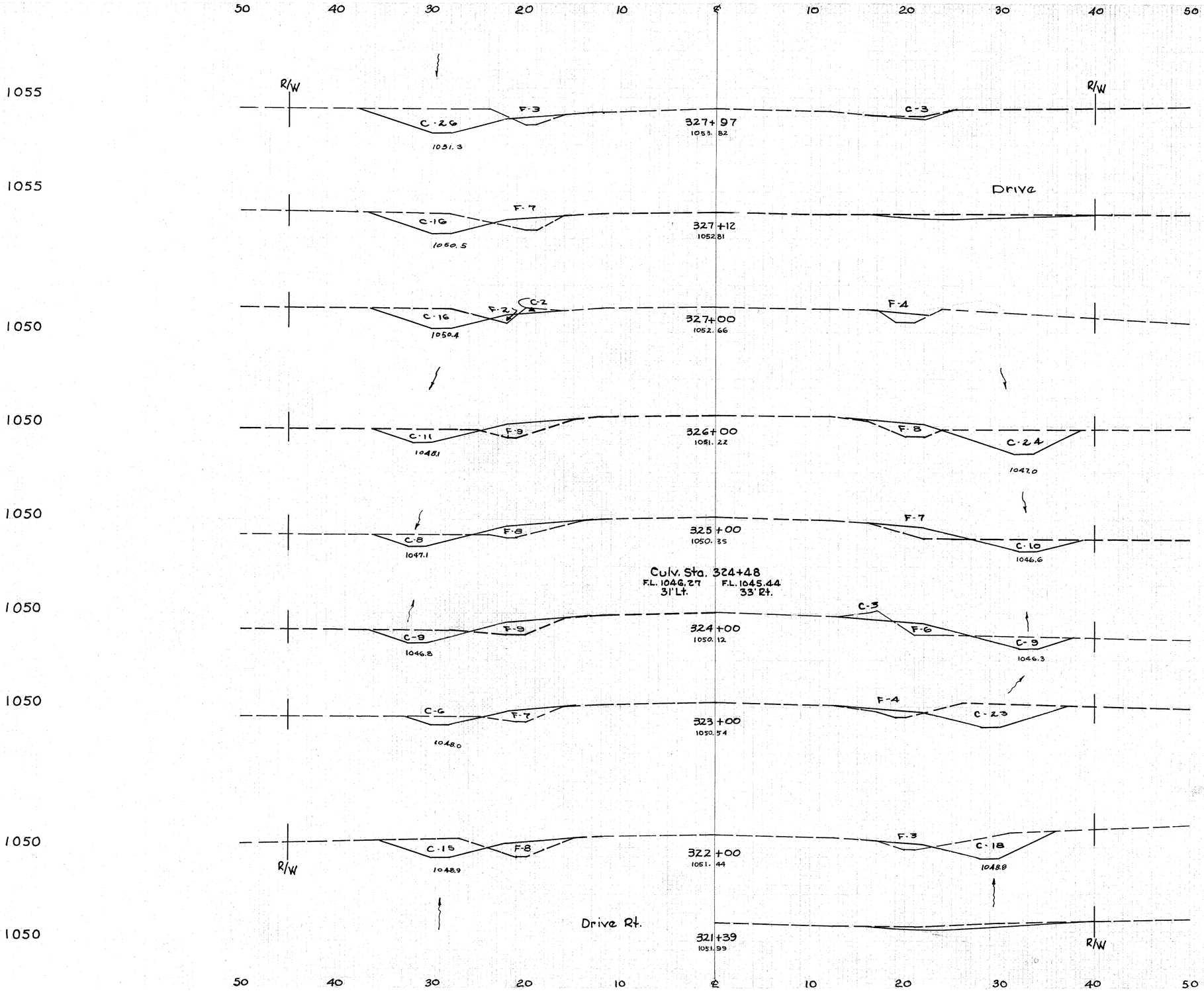


Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
40		10	8		
	631			39	76
48		6	24		
	567			80	70
54		37	14		
	253			64	15
39		33	2		
	277			90	5
Dr.					6
59		62	3		
	600			139	31
49		13	14		
	539			28	72
48		2	25		
	533			22	87
48		10	22		
	453			27	68
49		8	22		

Sta. 314+00

CROSS SECTIONS STA. 315+00 TO STA. 321+29

POR-14-18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb
	49		29	3		
		373			71	16
Dr.	30		16	7		
					16	
		51			8	3
	47		18	6		
		567			98	43
	55		35	17		
		606			98	59
	54		18	15		
		600			72	56
	54		21	15		
		583			93	48
	51		29	11		
		583			115	41
	54		33	11		
		371			57	25
Dr.						8
	40		10	8		

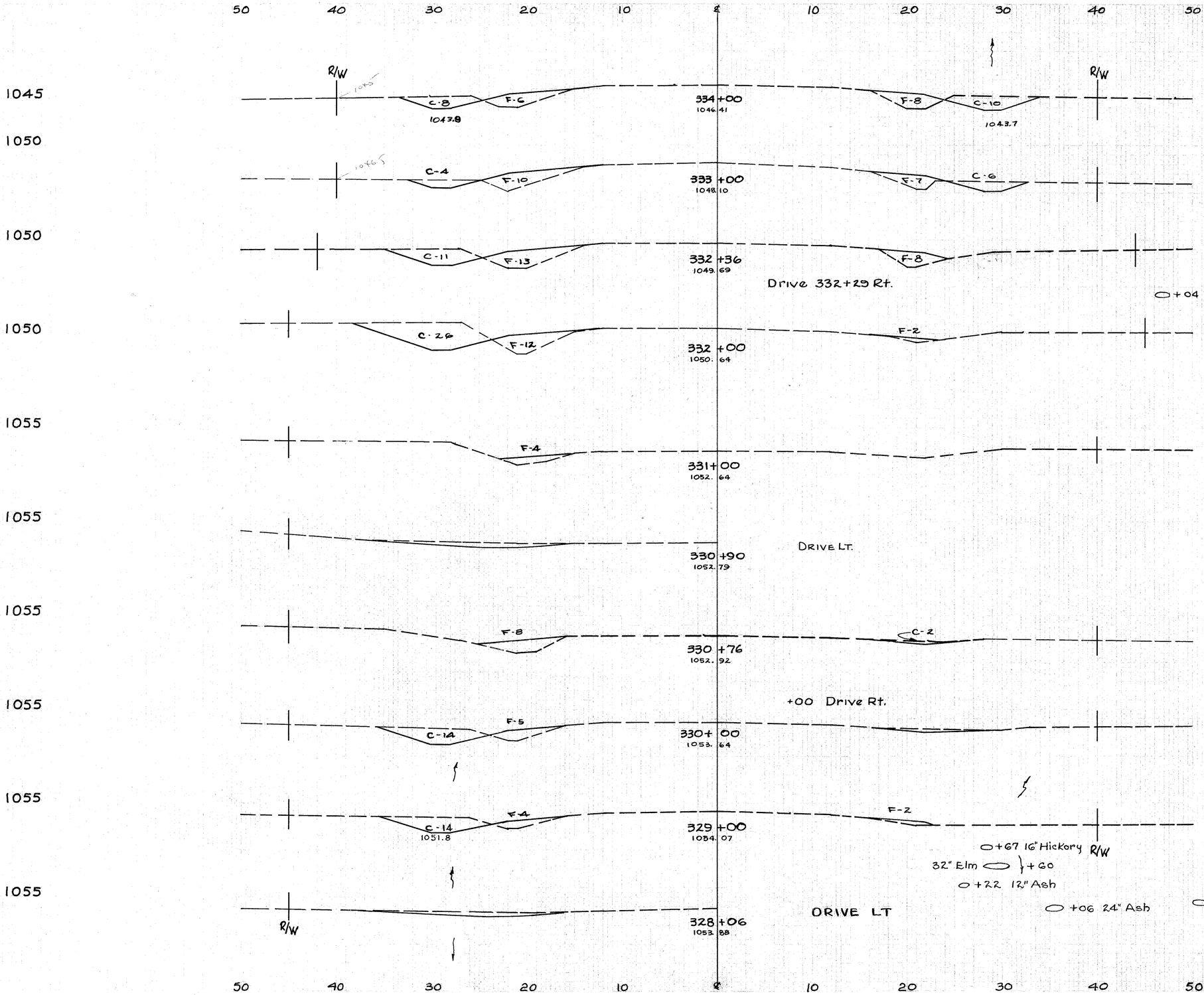
Excavation	1724 C.Y.
Enbankment	1123 C.Y.
Seeding	12497 S.Y.

Sta. 321+29

CROSS SECTIONS STA. 321+39 TO STA. 327+97

74
100

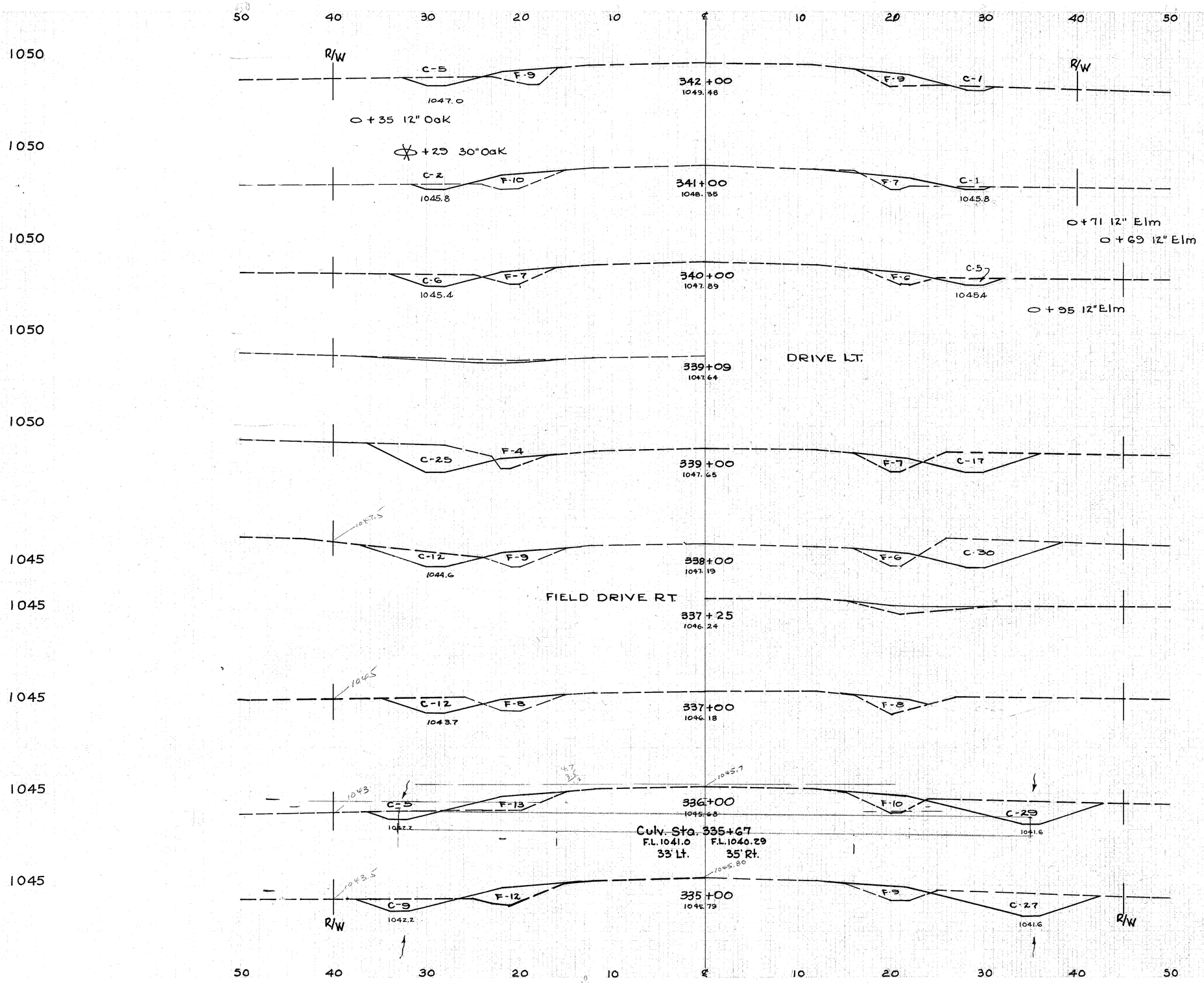
POR-14 18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	49		18	14		
		544			52	57
	49		10	17		
		331			25	45
	44		11	21		
Dr.		182			25	23
					16	
	47		26	14		
		350			48	33
	16		0	4		
		73			1	5
Dr.						8
	39		2	8		
		278			23	18
Dr.					45	
	29		14	5		
		422			52	20
	46		14	6		
		544			82	18
Dr.					14	
	49		29	3		

CROSS SECTIONS STA. 328+06 TO STA. 334+0

POR-14 18.03



	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	49		6	18		
		539			17	65
	48		3	17		
		557			26	56
	52		11	13		
Dr.						6
		589			98	44
	54		42	11		
		600			156	48
	54		42	15		
Dr.						11
		533			100	57
	42		12	16		
		533			85	72
	54		34	23		
		600			130	81
	54		36	21		
		572			100	65
Sta. 334+00	49		18	14		

CROSS SECTIONS STA. 335+00 TO STA. 342+00

POR – 14 18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1055

+29 22" Elm
+06 20" Elm
R/W
C-15 F-6
1052.2
349 +00
1054.76
F-9 C-8
1052.0
R/W

1055

+32 24" Stump
C-13 F-4
1052.6
348 +00
1055.43
F-5 C-9
1052.9

1055

+85 18" Chy.
26" Elm +57
C-8 F-5
1053.8
347 +00
1056.16
F-8 C-5
1053.3

1055

22" Elm +16
C-12 F-4
1053.4
346 +00
1055.94
F-4 C-4
1053.7

1055

C-12 F-7
345 +00
1055.53
F-7

1055

DRIVEWAY RT.
344 +76
1055.24

1055

C-11 F-8
344 +68
1055.14
F-7

1055

C-22 F-7
344 +00
1053.91
C-1 F-7 C-15
1053.

1050

R/W
C-26 F-9
343 +00
1051.55
F-12 C-5
1048.8
R/W

50 40 30 20 10 ℄ 10 20 30 40 50

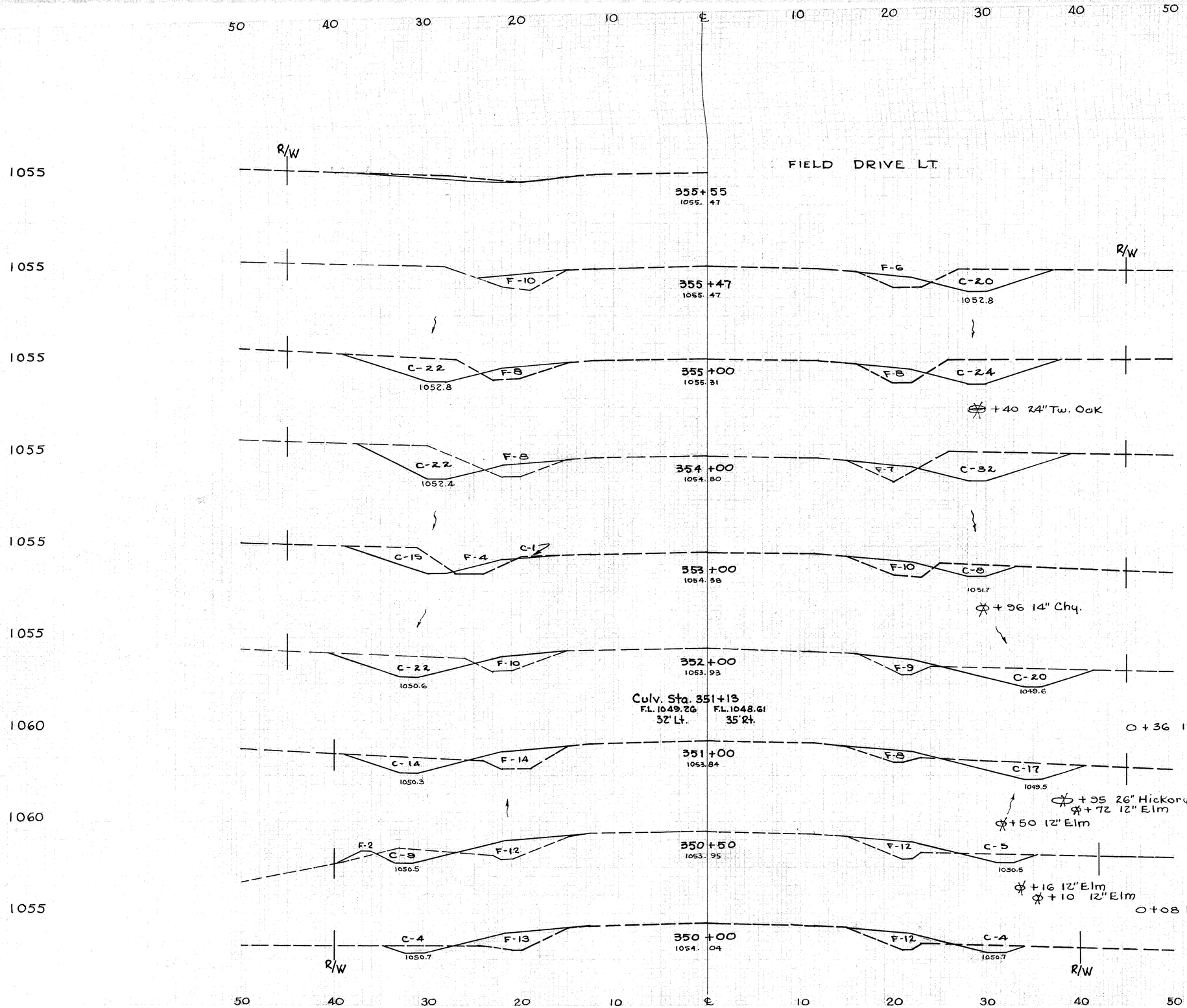
Sta. 342+00

Excavation	2216	C.Y.
Embankment	1533	C.Y.
Seeding	13902	S.Y.

	Seeding		End Area		Cu. Yds.	
	L.F	S.Y.	Cut	Fill	Exc.	Emb.
	49		23	15		
		544			83	44
	49		22	9		
		544			67	41
	49		14	13		
		539			56	39
	48		16	8		
		511			52	41
	44		12	14		
Dr.		155			14	17
					16	
	43		11	15		
		347			62	37
	49		38	14		
		544			128	65
	49		31	21		
		544			69	72
	49		6	18		

CROSS SECTIONS STA. 343+00 TO STA. 349+00

POR. 14 – 18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
Dr.						9
	48		20	16		
		279			57	27
	59		46	16		
		661			185	57
	60		54	15		
		650			144	54
	57		24	14		
		650			122	61
	60		42	19		
		633			135	76
	54		31	22		
		589			83	89
	52		14	26		
		278			21	47
	48		8	25		
		539			57	74
Sta. 349+00	49		23	15		

CROSS SECTIONS STA. 350+00 TO STA. 355+55

POR. 14 – 18.03

50 40 30 20 10 ℄ 10 20 30 40 50

+52 24" Elm

1055

R/W

C-9 F-6 1054.4

363+00 1057.19

F-10 C-6 1054.4

R/W

+65 16" Elm

1055

C-12 F-7 1053.8

Exist Dr. 361+70 (Aband.)

362+00 1057.03

F-6 C-14 1053.8

Culv. Sta. 361+81
F.L. 1052.95 28.8' Lt.
F.L. 1052.50 30.8' Rt.

Prop. Dr. 361+50

1055

C-13 F-10 1053.6

361+00 1056.85

F-9 C-13 1053.6

+94 16" Elm

C-1

1055

C-8 F-6 1054.0

360+00 1056.69

F-9 C-10 1054.0

+60 40" Map.

12" Oak +11

1055

C-4 F-6 1054.4

359+00 1056.57

F-10 C-7 1054.4

+90 20" Oak

+57 18" Elm

+50 16" Elm

1055

C-11 F-9 1054.0

358+00 1056.21

F-10 C-12 1054.0

+56 18" Oak

1055

FIELD Drive Rt.

357+29 1056.09

1055

C-14 F-8 1053.6

357+00 1056.00

F-6 C-14 1053.6

+14 16" Elm

20" Elm +00

1055

R/W

C-16 F-10 1053.2

356+00 1055.70

F-9 C-18 1053.2

R/W

50 40 30 20 10 ℄ 10 20 30 40 50

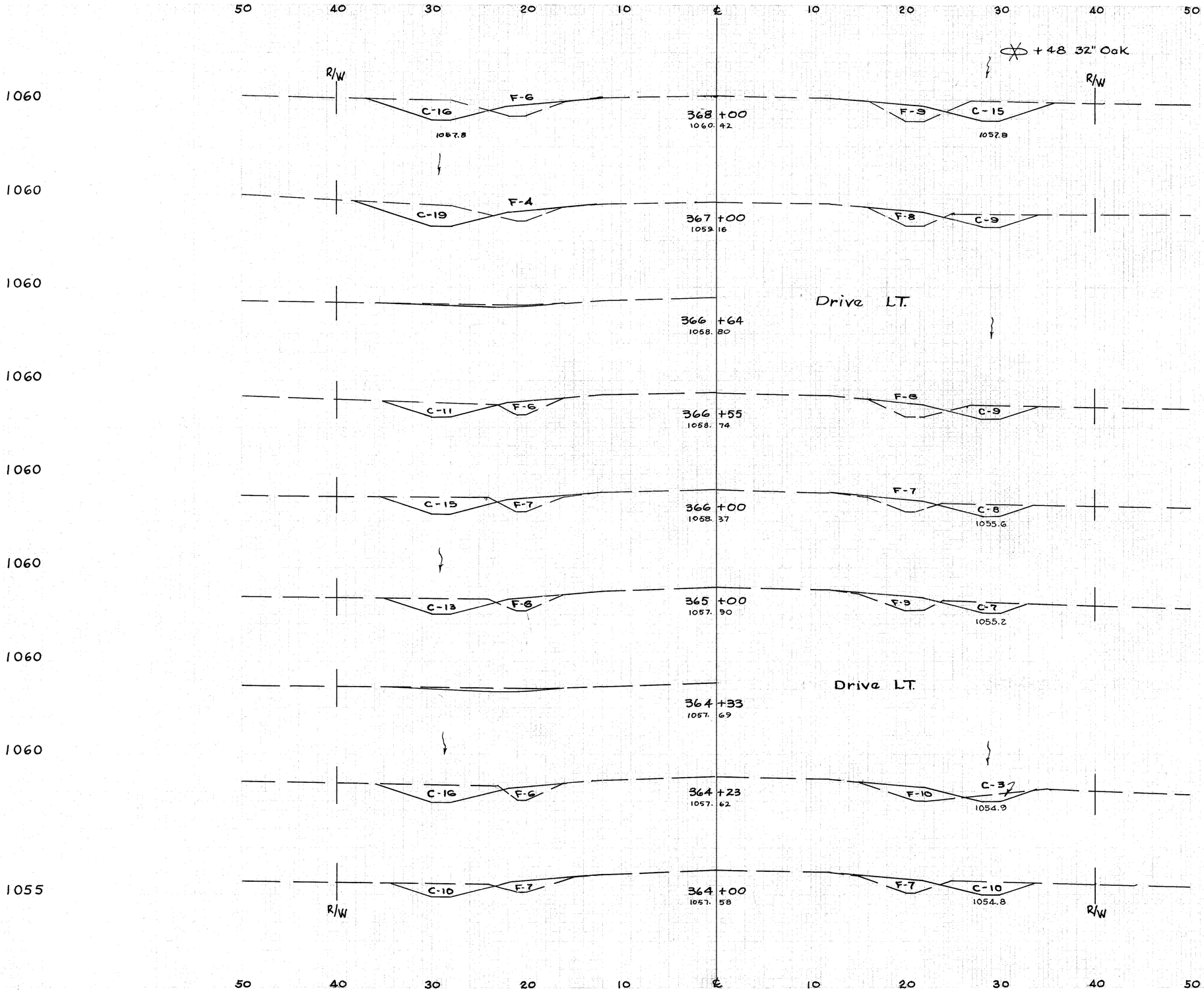
	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	49		15	16		
		544			76	54
	49		26	13		
		544			96	59
Dr.						6
	49		26	19		
		539			83	63
	48		19	15		
		533			56	57
	48		11	16		
		539			63	65
	49		23	19		
Dr						5
		544			94	61
	49		28	14		
		600			115	61
	59		34	19		
		315			53	34
	48		20	16		

356+00

Sta. 355+47

CROSS SECTIONS STA. 356+00 TO STA. 363+00

POR. 14 – 18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	49		31	15		
		544			109	50
	49		28	12		
Dr.						6
		245			40	22
	49		20	14		
		299			44	29
	49		23	14		
		544			80	54
	49		20	15		
Dr.						6
		419			55	44
	49		19	16		
		125			17	13
	49		20	14		
		544			65	56
	49		15	16		

Sta. 363+00

CROSS SECTIONS STA. 364+00 TO STA. 368+00

80
100

POR 14 – 18.03

50 40 30 20 10 ℄ 10 20 30 40 50

1065 — R/W — F-7 — 374 +93, 1067.20 — F-11 — C-16, 1063.0 — R/W

Culv. Sta. 374+76
F.L. 1062.98 31.5' Lt.
F.L. 1062.02 35.5' Rt.

1065 — FIELD DRIVE RT. (To Be Aband.) 374+58, 1066.93

1065 — C-5, 1064.2 — F-4 — 374 +50, 1066.89 — F-8, 1064.3

Drive 374+40 Rt.

1065 — C-15 — F-3 — 374+00, 1066.52 — F-7 — C-4, 1063.8

1065 — C-13 — F-4 — 373 +00, 1066.28 — F-10 — C-2, 1063.4

1065 — C-18 — F-4 — 372 +00, 1065.72 — F-5 — C-9

1065 — C-25 — F-4 — 371 +00, 1065.17 — F-4 — C-25

1065 — C-32, 1061.4 — F-5 — 370 +00, 1063.95 — F-8 — C-25

1060 — R/W — C-29, 1059.4 — F-5 — 369 +00, 1061.69 — F-10 — C-15, 1059.5 — R/W

50 40 30 20 10 ℄ 10 20 30 40 50

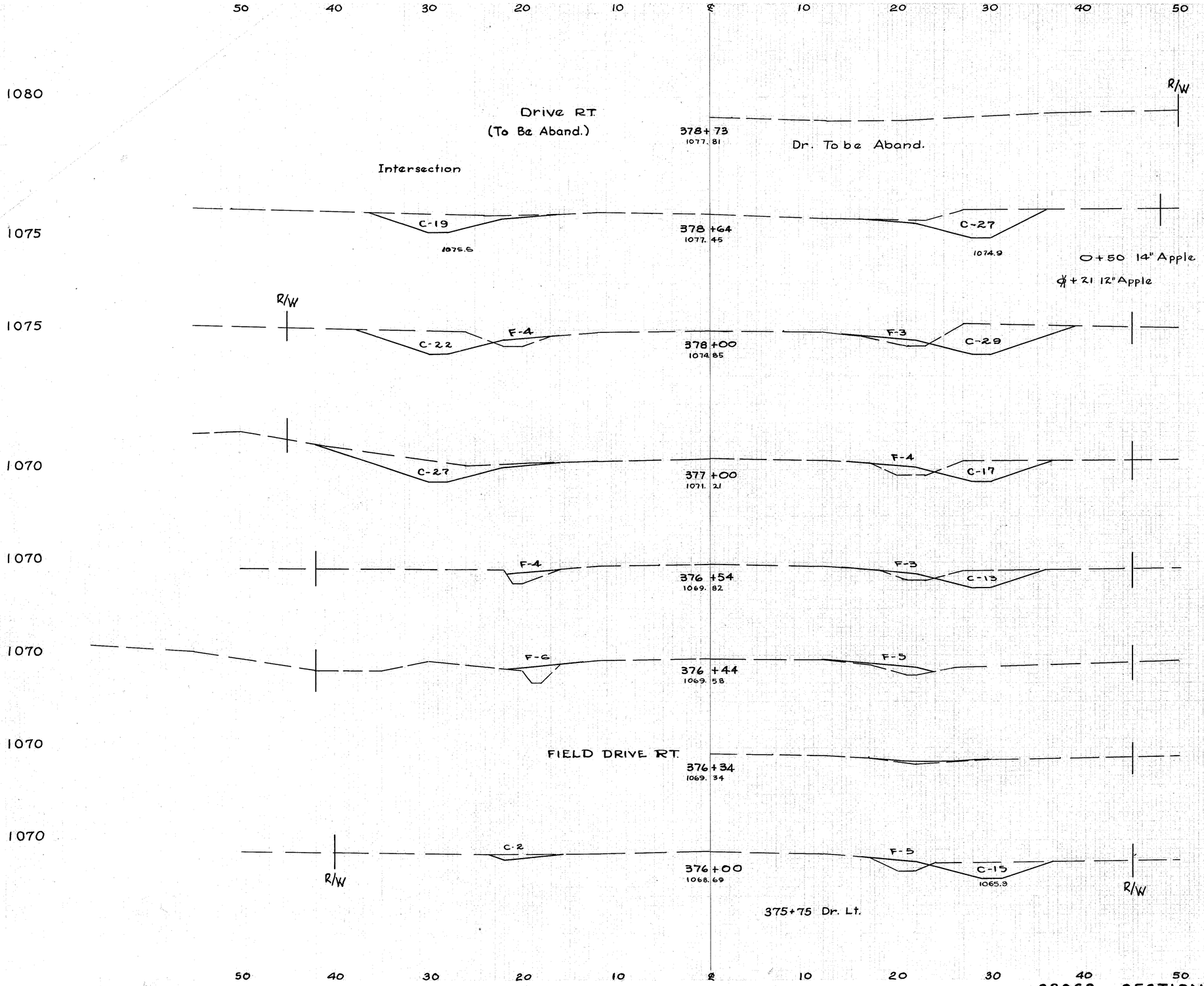
Sta. 368 +00

Excavation	2556 C.Y.
Embankment	1104 C.Y.
Seeding	13248 S.Y.

	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	45		16	18		
		212			17	24
	44		5	12		
Dr.					6	
		259			22	21
	49		19	10		
		544			63	44
	49		15	14		
		544			78	23
	49		27	9		
		611			143	31
	61		50	8		
		672			198	39
	60		57	13		
		661			187	52
	59		44	15		
		600			139	56
	49		31	15		

CROSS SECTIONS STA. 369+00 TO STA. 374+93

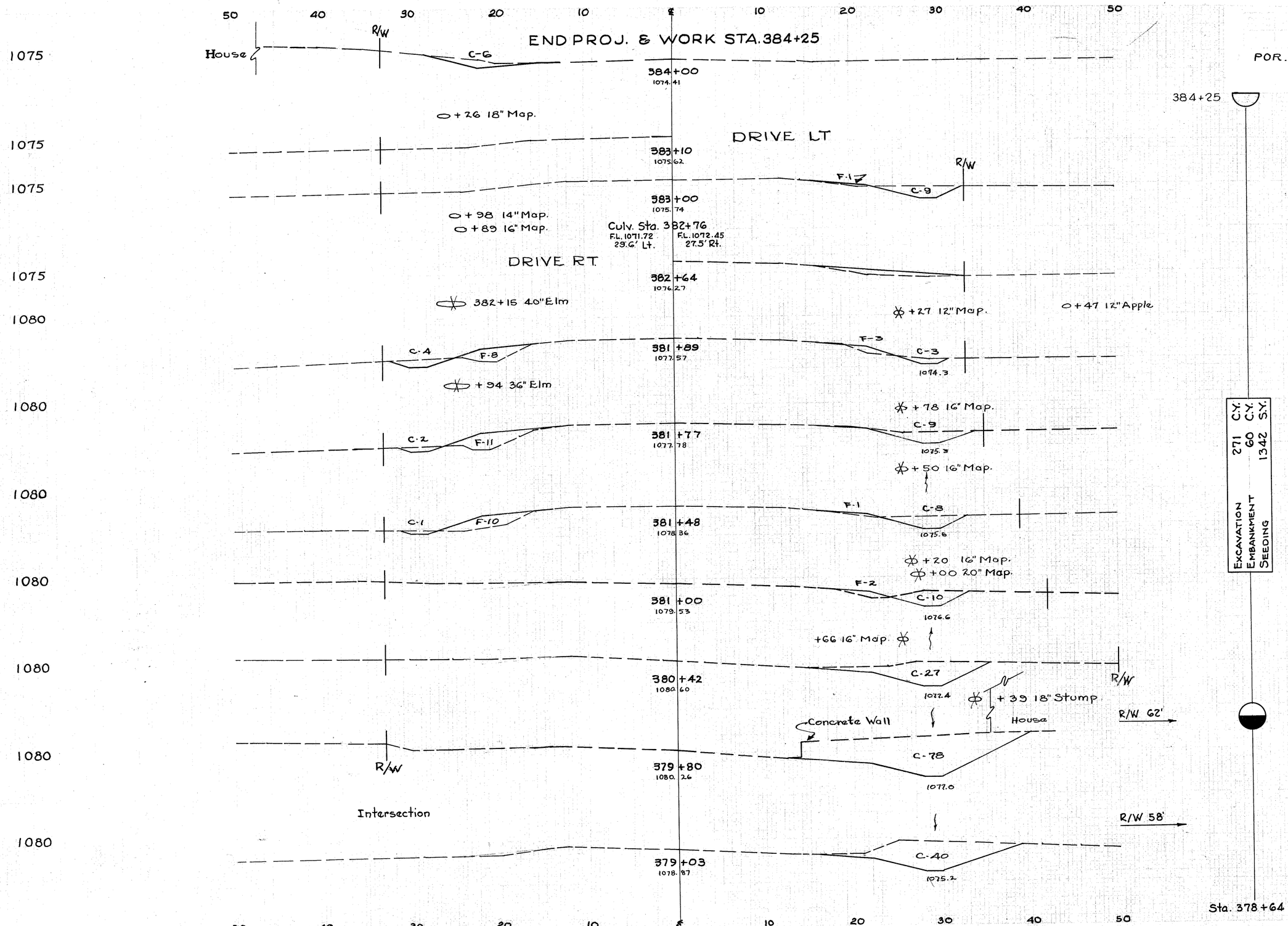
POR-14-18.03



	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	51		46	0		
		391			115	8
	59		51	7		
		656			176	20
	59		44	4		
		266			49	9
	45		13	7		
		43			2	3
	33		0	11		
Dr.						4
		195			14	13
	47		17	5		
		547			65	46
Dr.					58	
	45		16	18		

CROSS SECTIONS STA. 376+00 TO STA. 378+73

POR.-14-18.03



384+25

	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	17		6	0		
		194			28	2
Dr.	18		9	1	14	
		326			33	24
Dr.						3
	35		7	11		
		48			4	5
	37		11	11		
		126			11	12
	41		9	11		
		227			21	12
	28		10	2		
		190			40	2
	31		27	0		
		231			120	0
	36		78	0		
		300			169	0
	34		40	0		
		184			62	0
	51		46	0		

EXCAVATION 271 C.Y.
EMBANKMENT 60 C.Y.
SEEDING 1342 S.Y.

Sta. 378+64

CROSS SECTIONS STA. 379+03 TO STA. 384+00

STRUCTURES 20' SPAN & UNDER

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

83/100

POR-14-18.03

Culv. No.	Structure No.	Station	Drain. Area	Size & Type	Skew	EXISTING Flow Line Elevation Left	EXISTING Flow Line Elevation Right	Grade %	Length From ℄ Lt.	Length From ℄ Rt.	PROPOSED E-2 Struct. Exc. C.Y.	E-3 Chan. Exc. C.Y.	I-5 for S-27 18"x12" Tee Ea.	S-1 Class "E" End Walls C.Y.	S-1 Class "E" Collar C.Y.	S-1 Class "E" Walls & Foot'g C.Y.	S-1 Class "E" Exist. Culv. Floor C.Y.	S-1 C.L."C" Slab & Box C.Y.	S-4 Reinf. Steel Lbs.	S-9 Premold. Exp. Jt. Filler Sq. Ft.	S-22 Rem'l. Portion Exist. Struct. C.Y.	S-23 Dowel Holes 12"ℓ 15" Each	S-24 Rem'l Exist. Struct. Lump	S-27 12" L.F.	S-27 12" [M6.4 (d)] L.F.	S-27 18" L.F.	S-27 24" L.F.	S-27 30" L.F.	S-29 Porous Backfill C.Y.	I-8 No. 2-3 C.B. Each	I-5 30° Bend Type Spec. Ea.	I-10 Riprap Type "A" S.Y.	S-14 Railing Type I-13.13 L.F.	Spec. Pipe Clean Out L.F.	Flow Line Elevation Left	Flow Line Elevation Right	REMARKS
1	POR-14-1820	9+08		12" V.P.E. ‡																																No work proposed
2	POR-14-1825	11+80	7	18" V.P.E.	0°	1177.68		1.0	16'	—	2			0.3	0.3						0.3					14									1177.82		Remove existing headwall to Elev. 1180±. Build std. 18" pipe culvert extension 14' Lt. only. Std. concrete collar and end wall.
3	POR-14-1858	29+11	240	4'x3' Slab Top	0°	1161.61	1161.83	0.7	16'	16'	31	17				15.2			971		7.0	28													1161.50	1161.92	Std. 4'x3' Slab Top Culvert Extensions as shown on Detail Sheet No. 84
4	POR-14-1879	40+05	317	4'x4' Slab Top	0°	1147.28	1147.28		16'	17'	41	28				18.8			1234		5.0	30													1147.37	1147.20	Std. 4'x4' Slab Top Culvert Extensions as shown on Detail Sheet No. 85
5	POR-14-1899	50+62	11	18" C.I.P.	0°	1130.64	1130.55	0.3	17'	17'	11	9		0.6	0.54						1.0					32									1130.70	1130.50	Remove existing headwalls to Elev. 1133±. Build std. 18" pipe culvert extension 16' Lt. & Rt. Std. concrete collars & end walls.
6	POR-14-1915	59+06	458	10' Span	0°	1119.43	1119.0	0.16	13.5'	13.5'	86					54.8		6.5	2933	12.0	4.0	56							23				30		1119.43	1119.00	Std. 10' Concrete Slab Bridge Extensions as shown on Detail Sheet No. 86
7	POR-14-1926	65+15	81	4'x3' Slab Top	0°	1120.76	1120.92	0.47	17'	17'	37	2				20.0			1233		7.0	28													1120.66	1121.01	Std. 4'x3' Slab Top Culvert Extensions as shown on Detail Sheet No. 84
8	POR-14-1947	75+77	117	3'x2' Slab Top	0°	1112.22	1112.33	0.25	22.5'	22.5'	31					17.3			1002		4.0	22													1112.17	1112.38	Std. 3'x2' Slab Top Culvert Extensions as shown on Detail Sheet No. 87
9	POR-14-1961	83+52	191	4'x3' Slab Top	0°	1108.78	1108.79	0.03	17'	17'	21						1.3	16.4	1902		4.0	26													1108.72	1108.85	Std. 4'x4' Concrete Box Extensions as shown on Detail Sheet No. 85
10	POR-14-1984	*0+27	1	12" V.P.E.	46°10' R.F.	1104.6	1105.1	0.10	28'	20'	5			.46									Lump		42										1105.16	1106.00	Remove existing culvert. Build Std. 12" pipe culvert 28' Lt. & 14' Rt. of ℄ T.H. 17 at Sta. 0+42 Std. end walls
11	POR-14-1995	*0+27	1	12" V.P.E.	45°10 L.F.	1098.9	1099.1	0.40	19'	29'	7			.46									Lump		44										1099.11	1098.90	Remove existing culvert. Build Std. 12" pipe culvert 17' Lt. & 27' Rt. of ℄ T.H. 54 at Sta. 0+43 Lt. of S.R. 14. Std. end walls.
12	POR-14-1995A	*0+27	2	12" V.P.E.	46°5' L.F.	1097.53	1097.6	0.20	23'	25'	9			.46									Lump		64										1097.0	1097.8	Remove existing culvert. Build Std. 12" pipe culvert 27' Lt. & 37' Rt. of ℄ T.H. 54 at Sta. 0+45 Rt. of S.R. 14. Std. end walls.
13	POR-14-1998	102+94	358	10' Span	0°	1095.3	1095.3		13.5'	13.5'	72					46.4		5.69	2667	10.2	4.0	58							23				26		1095.3	1095.3	Std. 10' Concrete Slab Bridge Extensions as shown on Detail Sheet No. 88
14	POR-14-2019	114+07	338	30" C.I.P.	0°	1101.3	1101.49	0.5	19'	17.5'	10			1.02	1.0						0.8							32			15			1101.22	1101.57	Remove existing headwalls to Elev. 1105±. Build Std. 30" pipe culv. Ext. 16' Lt. & Rt. Std. Concrete collars & end walls. Riprap both ends.
15	POR-14-2067	139+38	42	18" V.P.E.	0°	1127.21	1126.90	1.0	16'	16'	5			0.6	0.54						0.5					26								1127.33	1126.76	Remove existing headwalls to Elev. 1129.5±. Build Std 18" pipe culvert Extension 12' Lt. & 14' Rt. Std. concrete collars & end walls.
16	POR-14-2092	152+54	6	12" V.P.E.	0°	1136.10	1136.35	0.78	16'	16'	5			.46	0.40						0.4				24									1135.99	1136.44	Remove existing headwalls to Elev. 1138± Build Std 12" pipe culvert Extension 12' Lt. & Rt. Std. concrete collars and end walls.
17	POR-14-2164	190+78	45	3'x2' Slab Top	0°	1112.75	1112.83	0.25	16'	16'	27					15.1			886		4.0	22													1112.50	1112.84	Std. 3'x2' Slab Top Culvert Extensions as shown on Detail Sheet No. 87
18	POR-14-2166	*0+28	.5	12" V.P.E.	45° R.F.	1114.35	1113.41	1.9	25'	25'	5			.23	0.40										24					1	2		52		1114.35	1113.41	Extend exist. culvert 22' Rt. & 6' Lt. with 30° bend on both ends & Std. Conc. collars. Std. I-8, 2-3 C.B. on Lt. end & Std. concrete end wall on Rt.
19	POR-14-2177	197+45.8	20	24" V.P.E.	31°37' R.F.	1101.17	1100.77	1.0	18.5	21.5'	11			.82	.68						3.0						38							1101.35	1100.57	Remove existing headwalls to Elev. 1104.±. Build Std. 24" pipe Culvert 18' Lt. & 20' Rt. Std. end walls & collars.
20	POR-14-2233	226+86	112	6'x3' Slab Top	0°	1081.39	1081.24	0.47	16'	16'	53					20.5			1334		4.0	30													1081.47	1081.16	Std 6'x3' Slab Top Culvert Extensions as shown on Detail Sheet No. 89
21	POR-14-2267	244+92	48	18" V.P.E.	0°	1084.94	1084.40	1.70	16'	16'	6			.60	.54						0.5					36									1085.21	1084.06	Remove existing headwalls to Elev. 1087±. Build Std. 18" pipe culvert 16' Lt & 20' Rt. Use Std. end walls & collars.
22	POR-14-2291	257+61	49	8'x2' Slab Top	0°	1077.60	1077.66	0.20	16'	16'	31					16.8			1283		4.0	32													1077.67	1077.59	Std. 8'x2' Slab Top Culvert Extensions as shown on Detail Sheet No. 90
23	POR-14-2309	267+34	51	6'x3' Box	0°	1075.23	1075.31	0.27	16'	16'	25							14.4	1909		4.0	36													1075.3	1075.24	Std. 6'x3' Concrete Box Culvert Extensions as shown on Detail Sheet No. 89
24	POR-14-2328	*0+19	2	12" V.P.E.	19° L.F.	1169.1	1169.6	1.0	24'	27	14			.46									Lump		52										1069.3	1069.6	Remove existing culvert. Build Std. 12" pipe culvert 26' Lt & 26' Rt. of ℄ T.H. 68, Sta. 0+31 Std. end walls.
25	POR-14-2350	288+87	138	4'x4' Slab Top	45°0' R.F.	1053.32	1053.22	0.23	22.5'	22.6'	53	24					1.7	30.2	3192		3.0	40													1053.38	1053.14	Std. 4'x5' Concrete Box Culvert Extensions as shown on Detail Sheet No. 91
26	POR-14-2377	303+07	45	4'x2' Slab Top	0°	1054.73	1054.72	0.03	16'	16'	51					19.3			1144		4.0	22													1054.81	1054.64	Std. 4'x2' Slab Top Culvert Extensions as shown on Detail Sheet No. 92
27	POR-14-2393	311+45	61	24" V.P.E.	0°	1048.56	1048.05	1.40	16'	16.5'	9			.82	.68						0.6						30							1048.76	1047.83	Remove headwalls to Elev. 1051.5±. Build 24" pipe culvert 14' Lt & 16' Rt. Std. concrete collars and end walls.
28	POR-14-2399	314+50	6	18" V.P.E.	0°	1049.34	1048.70	1.40	16'	16'	7			.60	.81						2.0					32								1049.34	1048.48	Remove Lt. hdw'l & portion Rt. hdw'l to El. 1051.5± Build Std. 18" pipe culvert 16' Lt & Rt. Double conc. std. collar Lt., single collar Rt. Std. end walls.
29	POR-14-2418	324+48	67	18" V.P.E.	0°	1046.09	1045.68	1.30	16'	17'	6			.60	.54						0.6					30								1046.27	1045.44	Remove existing headwalls to Elev. 1048.5± Build Std. 18" pipe culvert Ext. 14' Lt. & 16' Rt. Std. concrete collars & end walls.
30	POR-14-2439	335+67	115	24" V.P.E.	0°	1040.85	1040.47	1.20	16'	16'	6			.82	.68						0.6						34							1041.00	1040.29	Remove existing headwalls to Elev. 1044± Build std. 24" pipe culvert 16' Lt. & 18' Rt. Std. concrete collars & end walls.
31	POR-14-2468	351+13	34	6'x2' Slab Top	0°	1049.11	1048.79	1.0	16'	16'	47					18.9			1195		4.0	26													1049.26	1048.61	Std. 6'x2' Slab Top Culvert Extensions as shown on Detail Sheet No. 92
32	POR-14-2488	361+81	209	8'x2' Slab Top	0°	1052.78	1052.60	0.75	16'	16'	47					18.1			1383		4.0	32													1052.95	1052.50	Std. 8'x2' Slab Top Culvert Extensions as shown on Detail Sheet No. 90
33	POR-14-2513	374+76	7	18" V.P.E.	0°	1062.77	1062.29	1.50	16'	16.5'	5		1	.60	.54						1.0					28								1062.98	1062.02	Remove exist. headwalls to Elev. 1065.± Build Std. 18" pipe culv. Ext. 10' Lt. & 18' Rt. Use 18"x12" Tee 19.5' Lt. Std. conc. collars & end walls. See Sheet No. 20
34	POR-14-2528	382+76		18" V.P.E.	0°	1072.90	1073.3	1.10	19.5'	17.5'	6			.60	.54						0.7					20						37	1072.85	1073.40	Remove existing headwalls to Elev. 1075.5± & clean out culvert. Build Std. 18" pipe culvert 10' Lt. & 10' Rt. Std. concrete collars & end walls.
				TO RECAPITULATION										10.51	8.19	281.2	3.0				78.0								1		15	56					
				TO GENERAL SUMMARY							782	80	1					73.19	24768	22.2		488	Lump	24	226	218	102	32	46		2			89			

* Sta. No. C-10 on T.H. 117
* Sta. No. C-11 & C-12 on T.H. 54
* Sta. No. C-18 on T.H. 55
* Sta. No. C-24 on T.H. 68

‡ V.P.E. – Vitrified Pipe Encased

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

84/100

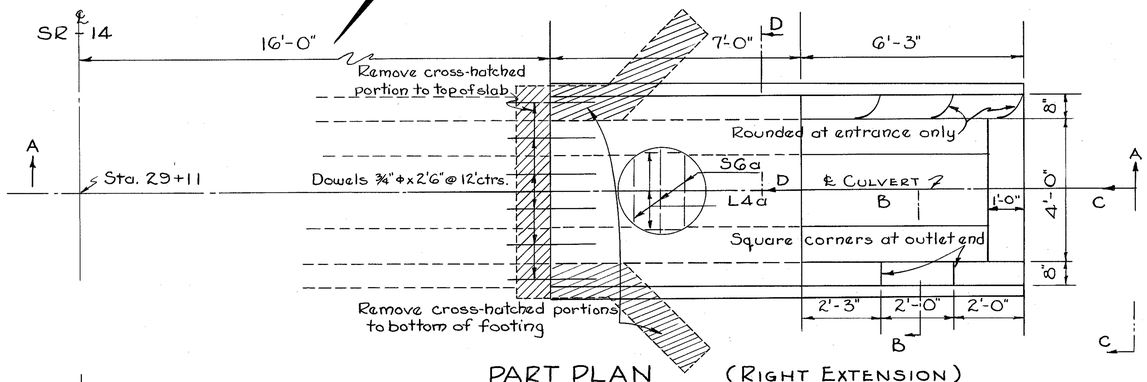
POR-14-18.03

DRAINAGE STRUCTURE C-3 CULV. NO. PO-14-186

STATION 29+11 DRAINAGE AREA ACRES

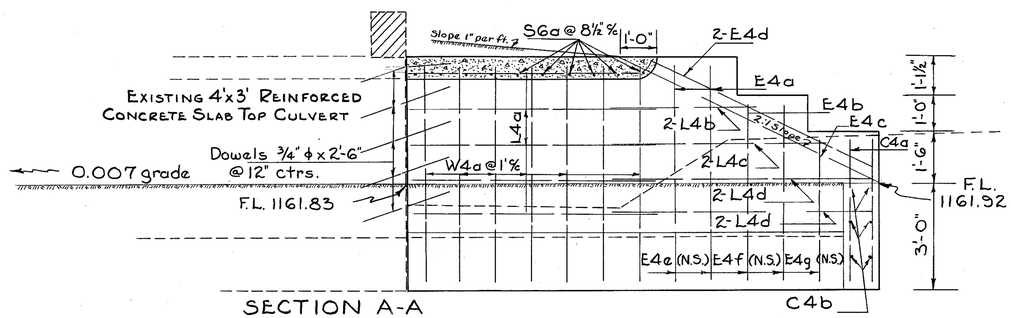
Surveyed By E.T. Drawn By W.B Checked By J.L.H.

Scale ½" = 1'-0"



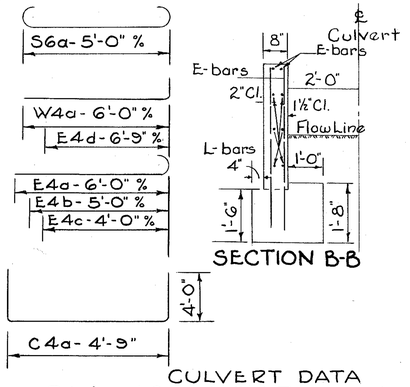
PART PLAN (RIGHT EXTENSION)

(LEFT EXTENSION SIMILAR – LENGTH OF BARREL 8'-8")



SECTION A-A

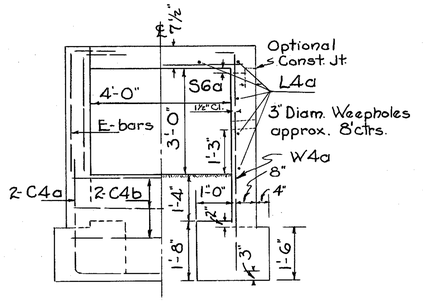
STEEL LIST								
EXTENSION	MARK	LOCATION	SIZE	SHAPE	SPACING	LENGTH	NO.	WEIGHT
LT. & RT.	S6a	Slab	¾" ϕ	Bent	8½" %	6'-4"	22	209
RT.	L4a	Slab & Side Walls	½" ϕ	Str.	12" %	6'-9"	13	59
LT. & RT.	L4b	End Walls	½" ϕ	Str.	12" %	4'-0"	8	21
LT. & RT.	L4c	End Walls	½" ϕ	Str.	12" %	5'-9"	8	31
LT. & RT.	L4d	End Walls	½" ϕ	Str.	12" %	7'-3"	16	77
LT.	L4e	Slab & Side Walls	½" ϕ	Str.	12" %	8'-5"	13	73
LT. & RT.	W4a	Side Walls	½" ϕ	Bent	12" %	6'-5"	32	137
LT. & RT.	E4a	End Walls	½" ϕ	Bent	12" %	6'-6"	8	35
LT. & RT.	E4b	End Walls	½" ϕ	Bent	12" %	5'-6"	8	29
LT. & RT.	E4c	End Walls	½" ϕ	Bent	12" %	4'-6"	4	12
LT. & RT.	E4d	End Walls	½" ϕ	Bent		7'-2"	8	38
LT. & RT.	E4e	End Walls	½" ϕ	Str.	12" %	6'-0"	8	32
LT. & RT.	E4f	End Walls	½" ϕ	Str.	12" %	5'-0"	8	27
LT. & RT.	E4g	End Walls	½" ϕ	Str.	12" %	4'-0"	4	11
LT. & RT.	C4a	Cut-off Walls	½" ϕ	Bent		12'-9	4	34
LT. & RT.	C4b	Cut-off Walls	½ ϕ	Str.	10" %	5'-0"	12	40
LT. & RT.	Dowels	Barrel & Slab	¾" ϕ	Str.	12" %	2'-6"	28	105
		TOTAL						971



SECTION B-B

CULVERT DATA

TYPE : Reinforced Concrete Slab Top Extension
SIZE : 4' x 3'
SKEW : 0°
LENGTH : 13'-3" Rt. & 14'-11" Lt.
STD. DRW'G : STC-47
WORK REQ'D : Remove portions of existing culvert as shown. Build Std. concrete slab top culvert extensions. Clean outlet channel ± 50 ft. Lt.



VIEW C-C TYPICAL SEC. D-D

ESTIMATED QUANTITIES

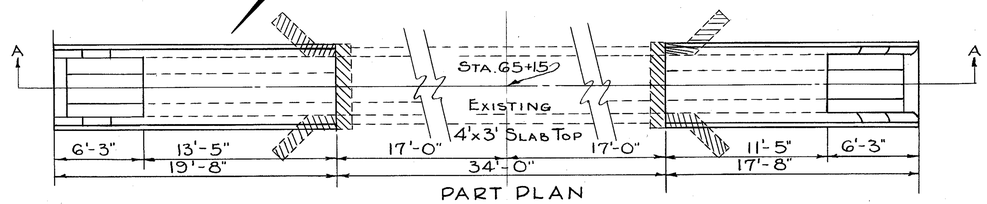
E-2	Excavation for Structures	31 C.Y.
E-3	Channel Excavation	17 C.Y.
S-1	Concrete for Structures Class "E"	15.2 C.Y.
S-4	Reinforcing Steel	971 Lbs.
S-22	Removal of portions of Existing Structure	7 C.Y.
S-23	Dowel Holes	28 EA.

DRAINAGE STRUCTURE C-7 CULV. NO. PO-14-192

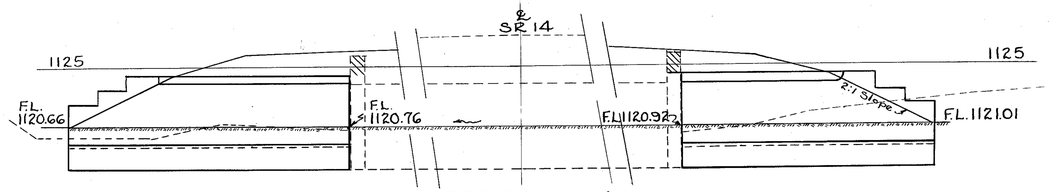
STATION 65+15 DRAINAGE AREA ACRES

Surveyed By Drawn By W.B. Checked By J.L.H.

Scale ½" = 1'-0"



PART PLAN



SECTION A-A

CULVERT DATA

TYPE : Reinforced Conc. Slab Top Extension
SIZE : 4' x 3'
SKEW : 0°
STD. DRW'G : STC-47
WORK REQ'D : Remove portions of existing structure as shown. Build std. concrete slab top culvert extensions. Shape inlet channel to fit entrance.

ESTIMATED QUANTITIES

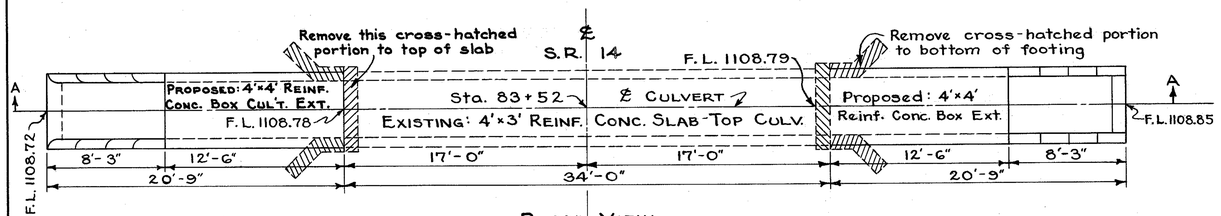
E-2	Excavation for Structures	37 C.Y.
E-3	Channel Excavation	2 C.Y.
S-1	Concrete for Structures Class "E"	20 C.Y.
S-4	Reinforcing Steel	1233 Lbs.
S-22	Removal of portions of Existing Structure	7 C.Y.
S-23	Dowel Holes	28 EA.

NOTE: For typical section and steel diagram see C-3, this sheet.

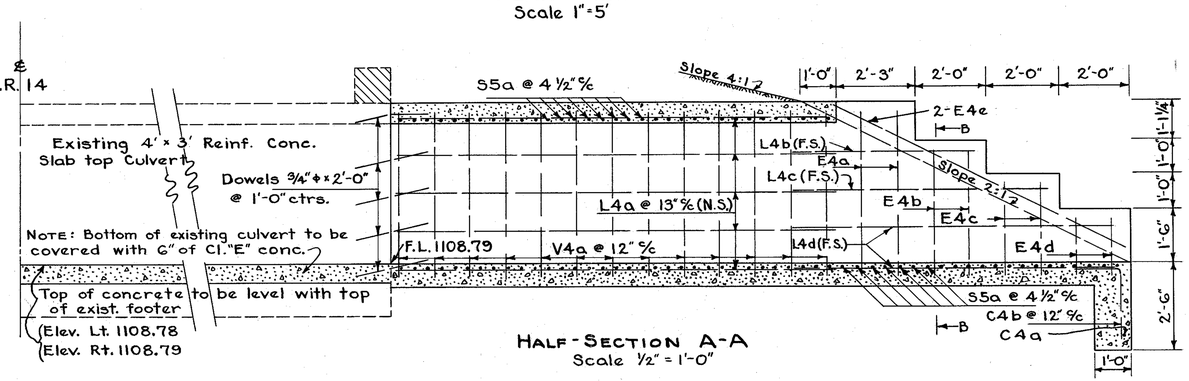
STEEL LIST								
Extension	Mark	Location	Size	Shape	Spacing	Length	No.	Weight
Lt. & Rt.	S6a	Slab	¾" ϕ	Bent	8½" %	6'-4"	34	323
Rt.	L4a	Slab & S. Walls	½" ϕ	Str	12" %	11'-2"	13	57
Lt. & Rt.	L4b	End Walls	½" ϕ	Str.	12" %	4'-0"	8	21
Lt. & Rt.	L4c	End Walls	½" ϕ	Str.	12" %	5'-9"	8	31
Lt. & Rt.	L4d	End Walls	½" ϕ	Str.	12" %	7'-3"	16	77
Lt.	L4e	Slab & S. Walls	½" ϕ	Str.	12" %	13'-2"	13	114
Lt. & Rt.	W4a	Side Walls	½" ϕ	Bent	12" %	6'-5"	48	206
Lt. & Rt.	E4a	End Walls	½" ϕ	Bent	12" %	6'-6"	8	35
Lt. & Rt.	E4b	End Walls	½" ϕ	Bent	12" %	5'-6"	8	29
Lt. & Rt.	E4c	End Walls	½" ϕ	Bent	12" %	4'-6"	4	12
Lt. & Rt.	E4d	End Walls	½" ϕ	Bent		7'-2"	8	38
Lt. & Rt.	E4e	End Walls	½" ϕ	Str.	12" %	6'-0"	8	32
Lt. & Rt.	E4f	End Walls	½" ϕ	Str.	12" %	5'-0"	8	27
Lt. & Rt.	E4g	End Walls	½" ϕ	Str.	12" %	4'-0"	4	11
Lt. & Rt.	C4a	Cut-off Walls	½" ϕ	Bent		12'-9"	4	34
Lt. & Rt.	C4b	Cut-off Walls	½" ϕ	Str.	12" %	5'-0"	12	40
Lt. & Rt.	Dowels	Barrel & Slab	¾" ϕ	Str.	12" %	2'-6"	28	105
		TOTAL						1232

DRAINAGE STRUCTURE C-9 CULV. NO. PO-14-196

SURVEYED BY E.T. DRAWN BY W.B. CHECKED BY J.L.H.

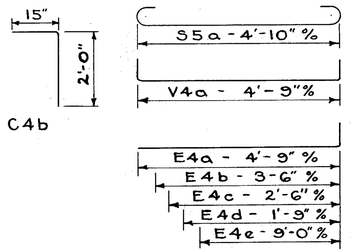


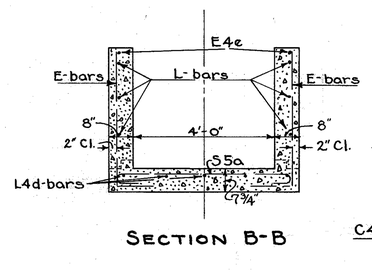
PLAN VIEW
Scale 1"=5'



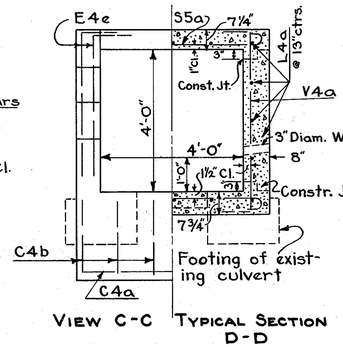
HALF-SECTION A-A
Scale ½" = 1'-0"

STEEL BENDING DIAGRAM





SECTION B-B



VIEW C-C TYPICAL SECTION D-D

STEEL LIST

Extension	Mark	Location	Size	Shape	Spacing	Length	No.	Weight
Lt. & Rt.	S5a	Top & bottom Slabs	5/8" ϕ	Bent	4½"c/c	6'-0"	174	1089
Lt. & Rt.	L4a	Walls & Slab	½" ϕ	Str.	13"c/c	12'-3"	32	262
Lt. & Rt.	L4b	End Walls	½" ϕ	Str.	13"c/c	5'-3"	4	14
Lt. & Rt.	L4c	End Walls	½" ϕ	Str.	13"c/c	7'-3"	4	19
Lt. & Rt.	L4d	End Walls	½" ϕ	Str.	13"c/c	9'-3"	14	87
Lt. & Rt.	V4a	Barrel Walls	½" ϕ	Bent	12"c/c	5'-7"	52	194
Lt. & Rt.	E4a	End Walls	½" ϕ	Bent	12"c/c	5'-2"	8	28
Lt. & Rt.	E4b	End Walls	½" ϕ	Bent	12"c/c	3'-11"	8	21
Lt. & Rt.	E4c	End Walls	½" ϕ	Bent	12"c/c	2'-11"	8	16
Lt. & Rt.	E4d	End Walls	½" ϕ	Bent	12"c/c	2'-2"	8	12
Lt. & Rt.	E4e	End Walls	½" ϕ	Bent	~	9'-5"	8	50
Lt. & Rt.	C4a	Cut-off Walls	½" ϕ	Str.	~	4'-10"	2	6
Lt. & Rt.	C4b	Cut-off Walls	½" ϕ	Bent	12"c/c	3'-3"	12	26
Lt. & Rt.	Dowels	Top Slab & Barrel Walls	¾" ϕ	Str.	12"c/c	2'-0"	26	78
TOTAL								1902

CULVERT DATA

EXIST. TYPE: Reinforced Conc. Slab Top Culvert
PROP. TYPE: Reinforced Conc. Box Culvert Extensions
SIZE: 4' × 4'
SKEW: 0°
STD. DRWG.: SBC-45
WORK REQD.: Remove portions of existing structure as shown. Remove wooden boards in bottom of existing structure. Grade bottom and insert 6" of concrete below top of existing footer, cost to be included in the unit price bid for concrete for structures, Class "E". Build std. reinforced concrete Box Culvert Extensions.

ESTIMATED QUANTITIES

E-2	Excavation for Structures	21 C.Y.
S-1	Concrete for Structures Class "C"	16.4 C.Y.
S-1	Concrete for Structures Class "E"	1.3 C.Y.
S-4	Reinforcing Steel	1902 Lbs.
S-22	Rem'l. of portions of Exist. Structure	4 C.Y.
S-23	Dowel Holes	26 Ea.

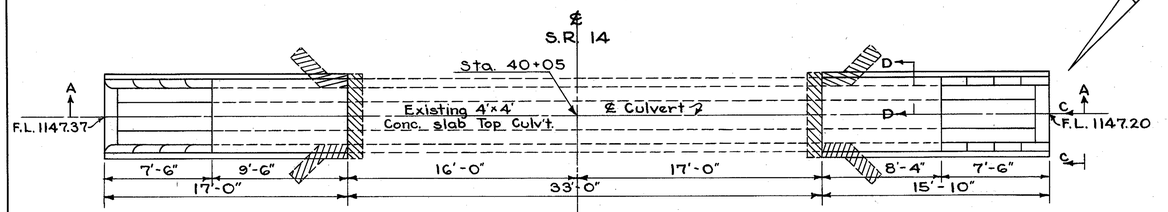
DRAINAGE STRUCTURE C-4 CULV. NO. PO-14-188

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

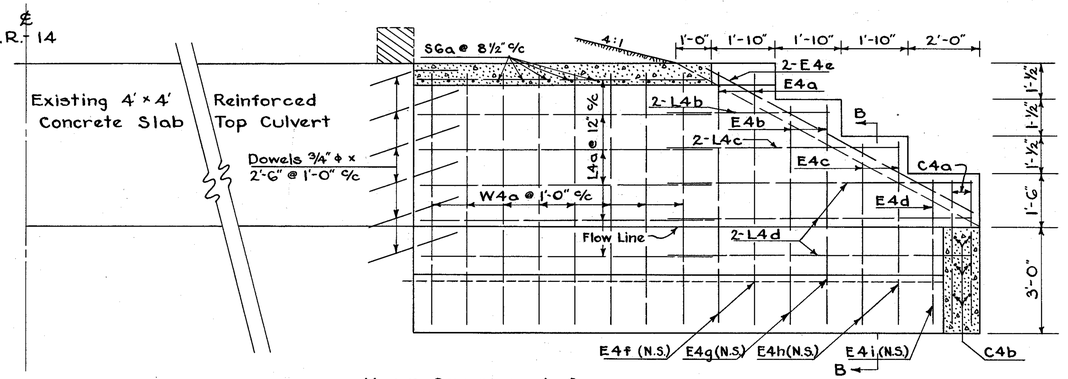
85/100

POR-14-18.03

SURVEYED BY E.T. DRAWN BY W.B. CHECKED BY J.L.H.

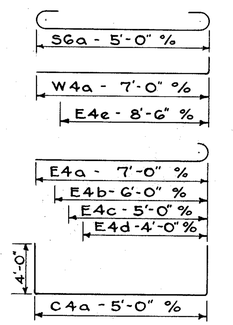


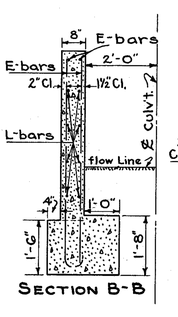
PART PLAN
Scale 1" = 5'



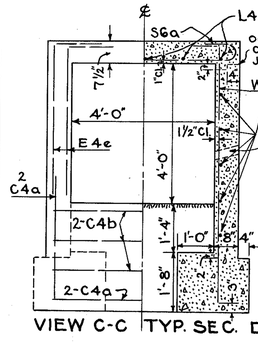
HALF SECTION A-A
Scale ½" = 1'-0"

STEEL DIAGRAM





SECTION B-B



VIEW C-C TYP. SEC. D-D

STEEL LIST

Extension	Mark	Location	Size	Shape	Spacing	Length	No.	Weight
Lt. & Rt.	S5a	Slab	¾" ϕ	Bent	8½"c/c	6'-4"	25	238
Rt.	L4a	Slab & Side Walls	½" ϕ	Str.	12" c/c	8'-0"	15	80
Lt. & Rt.	L4b	End Walls	½" ϕ	Str.	12" c/c	4'-6"	8	24
Lt. & Rt.	L4c	End Walls	½" ϕ	Str.	12" c/c	6'-6"	8	35
Lt. & Rt.	L4d	End Walls	½" ϕ	Str.	12" c/c	8'-6"	24	136
Lt.	L4e	Slab & Side Walls	½" ϕ	Str.	12" c/c	5'-3"	15	93
Lt. & Rt.	W4a	Side Walls	½" ϕ	Bent	12" c/c	7'-5"	34	169
Lt. & Rt.	E4a	End Walls	½" ϕ	Bent	12" c/c	7'-6"	8	40
Lt. & Rt.	E4b	End Walls	½" ϕ	Bent	12" c/c	6'-6"	8	35
Lt. & Rt.	E4c	End Walls	½" ϕ	Bent	12" c/c	5'-6"	8	29
Lt. & Rt.	E4d	End Walls	½" ϕ	Bent	12" c/c	4'-6"	4	12
Lt. & Rt.	E4e	End Walls	½" ϕ	Bent	~	8'-11"	8	48
Lt. & Rt.	E4f	End Walls	½" ϕ	Str.	12" c/c	7'-0"	8	37
Lt. & Rt.	E4g	End Walls	½" ϕ	Str.	12" c/c	6'-0"	8	32
Lt. & Rt.	E4h	End Walls	½" ϕ	Str.	12" c/c	5'-0"	8	27
Lt. & Rt.	E4i	End Walls	½" ϕ	Str.	12" c/c	4'-0"	4	11
Lt. & Rt.	C4a	Cut-off Walls	½" ϕ	Str.	~	13'-0"	4	35
Lt. & Rt.	C4b	Cut-off Walls	½" ϕ	Bent	10" c/c	5'-0"	12	40
Lt. & Rt.	Dowels	Slab & Barrel Walls	¾" ϕ	Str.	12" c/c	2'-6"	30	113
TOTAL								1234

CULVERT DATA

TYPE: Reinforced Concrete Slab Top Extension
SIZE: 4' × 4'
SKEW: 0°
STD. DRWG: STC-47
WORK REQD.: Remove portions of existing structure as shown. Build Std. Reinforced Concrete Slab Top Extensions. Excavate channel 85± Lt. from end of prop. extension to meet exist. channel.

ESTIMATED QUANTITIES

E-2	Excavation for Structures	41 C.Y.
E-3	Channel Excavation	28 C.Y.
S-1	Concrete for Structures Class "E"	18.8 C.Y.
S-4	Reinforcing Steel	1234 Lbs.
S-22	Removal of portions of existing structure	5 C.Y.
S-23	Dowel Holes	30 Ea.

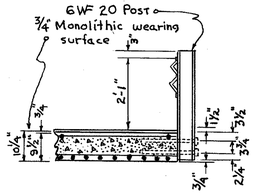
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

86/100

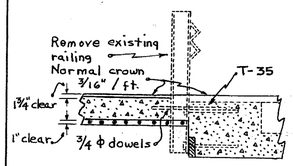
POR-14-(18.03)

DRAINAGE STRUCTURE C-6 BRIDGE NO. PO-14-191

STATION 59+05



SEC C-C
Scale 1/2" = 1'-0"



SEC E-E
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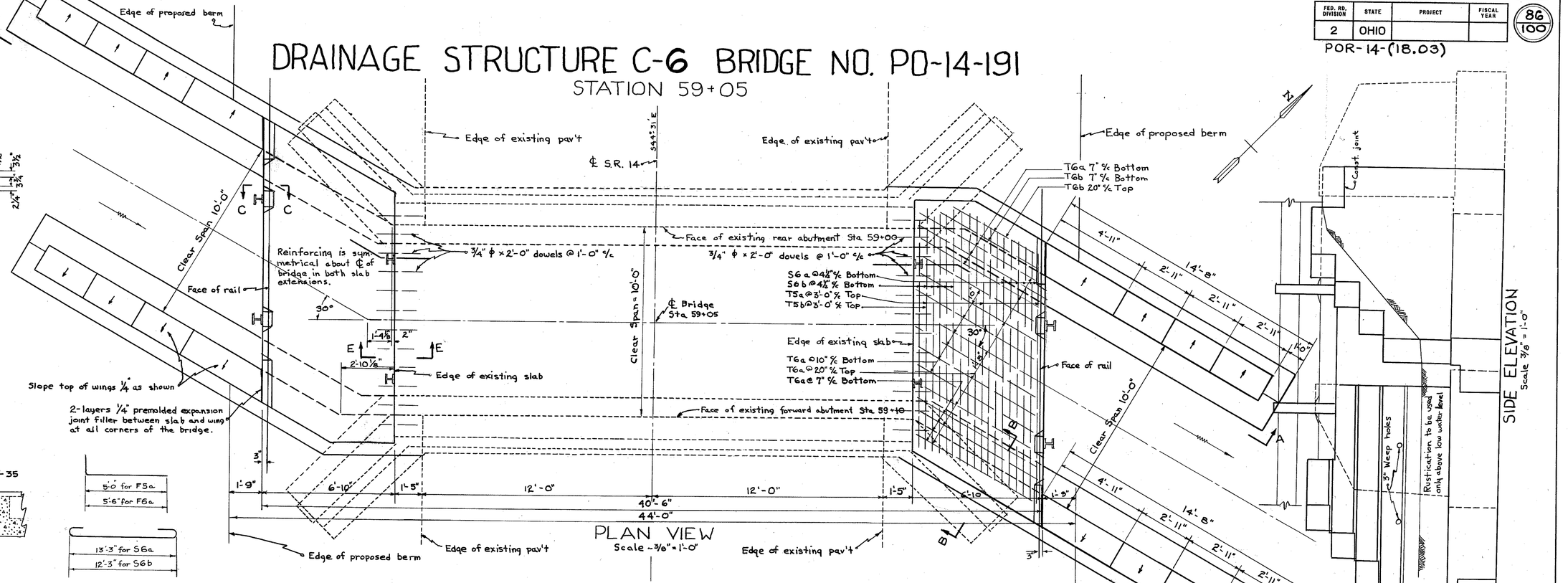
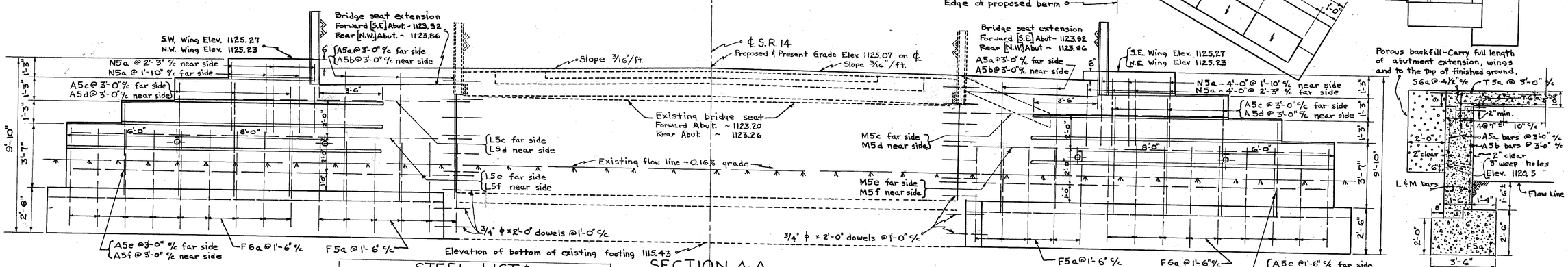


PLAN VIEW
Scale ~ 3/8" = 1'-0"

SIDE ELEVATION
Scale 3/8" = 1'-0"



SECTION A-A
Scale 3/8" = 1'-0"

SECTION B-B
Scale 3/8" = 1'-0"

+ The bar sizes do not correspond to those given in SB-1-47. The sizes are as listed in the 1955 Construction and Material Specifications.

STEEL LIST +

MARK	LOCATION	SHAPE	SIZE	NUMBER	LENGTH	WEIGHT
A5a	Abut.	Str.	5/8 ϕ	10	7'-0"	73
A5b	Abut.	Str.	5/8 ϕ	10	6'-6"	68
A5c	Wing	Str.	5/8 ϕ	12	6'-4"	73
A5d	Wing	Str.	5/8 ϕ	12	5'-10"	73
A5e	Wing	Str.	5/8 ϕ	4	5'-2"	22
A5f	Wing	Str.	5/8 ϕ	4	4'-8"	20
F5a	Footing	Bent	5/8 ϕ	22	5'-6"	126
F6a	Footing	Bent	5/8 ϕ	36	6'-2"	334
L5c	Abut-Wing	Str.	5/8 ϕ	2	14'-11"	31
L5d	Abut-Wing	Str.	5/8 ϕ	2	15'-3"	32
L5e	Abut-Wing	Str.	5/8 ϕ	4	20'-9"	87
L5f	Abut-Wing	Str.	5/8 ϕ	4	21'-1"	88

STEEL LIST +

MARK	LOCATION	SHAPE	SIZE	NUMBER	LENGTH	WEIGHT
M5c	Abut-Wing	Str. *	5/8 ϕ	2	14'-11"	31
M5d	Abut-Wing	Str. *	5/8 ϕ	2	14'-3"	30
M5e	Abut-Wing	Str. *	5/8 ϕ	4	20'-9"	87
M5f	Abut-Wing	Str. *	5/8 ϕ	4	20'-4"	85
S6a	Slab	Bent	3/4 ϕ	24	14'-7"	526
S6b	Slab	Bent	3/4 ϕ	12	13'-7"	245
T5a	Slab	Str.	5/8 ϕ	4	13'-3"	55
T5b	Slab	Str.	5/8 ϕ	2	12'-0"	25
T6a	Slab	Str.	3/4 ϕ	46	7'-3"	501
T6b	Slab	Str.	3/4 ϕ	6	5'-3"	47
	Dowels	Str.	3/4 ϕ	56	2'-0"	168
N5a	Wing	Str.	5/8 ϕ	24	4'-0"	100

* M bars are to be bent in the field to fit northeast and southwest abutments and wings — TOTAL 2933

CULVERT DATA

Type : Slab bridge extension (S-15-46)
Size : 10'-0" Clear span
Skew : Wings ~ 30° as shown
Std. Drwgs: SB-1-47
Work Req'd : Remove existing railings and place new railing on slab extension as shown.

Place dowels and build slab extension with 3/4" wearing surface as shown. Remove sufficient portions of wings and footings to permit construction of new portions of abutments and wings.

ESTIMATED QUANTITIES

S-1	Concrete for structures - Class "C" - (Bridge slab)	6.5 Cu. Yds.
S-1	Concrete for structures - Class "E" - (Walls and footings)	54.8 Cu. Yds.
S-4	Reinforcing steel	2933 Pounds
* S-14	Railing type I-15.13 per plan	30 L.F.
S-22	Removal of portions of existing structure	4 C.Y.
S-23	Dowel holes for 3/4" dowels	56 Ea.
E-2	Excavation for structures (Unclassified)	86 Cu. Yds.
S-9	Premolded expansion joint filler - 1/4"	12 Sq. Ft.
S-29	Drainage of structures	23 Cu. Yds.

* Includes new anchor bolts

DRAINAGE STRUCTURE C-6

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

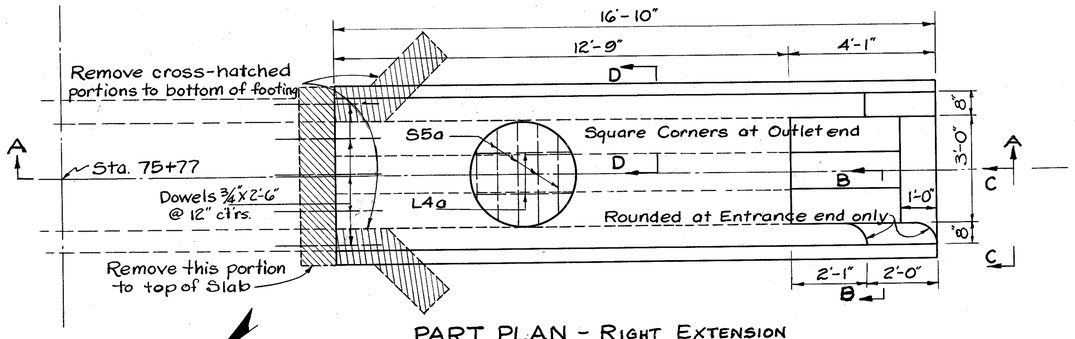
87/100

POR-14-18.03

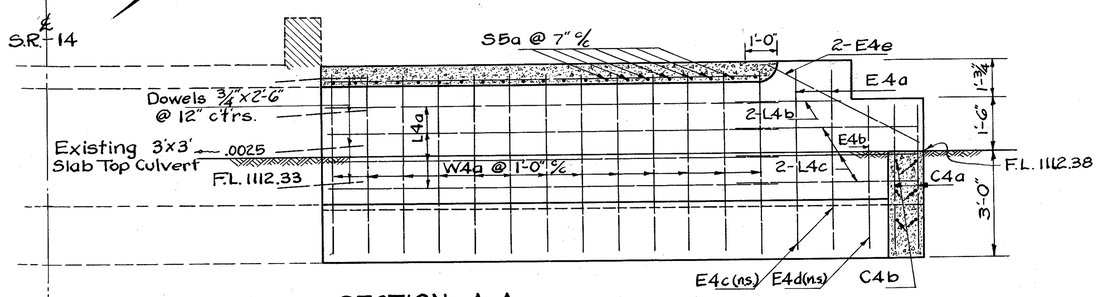
DRAINAGE STRUCTURE C-8 STRUCTURE No. Po-14-194

SURVEY BY E.T. DRAWN BY W.B. CHECKED BY J.L.H.

Scale:- 1/2" = 1'-0"



PART PLAN - RIGHT EXTENSION
LEFT EXTENSION - LENGTH OF BARREL - 14'-6"



SECTION A-A

CULVERT DATA

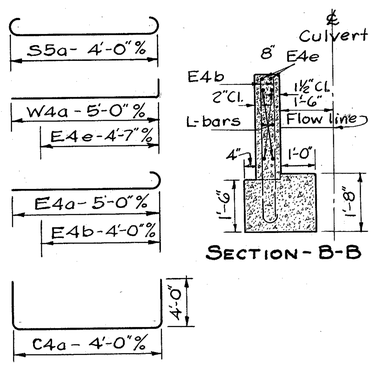
TYPE: Reinforced Concrete Slab Top Extension
SIZE: 3'x2'
SKEW: 0°
STD. DR'WG: STC.-47
WORK REQ'D.: Remove portions of existing structure as shown. Build standard concrete slab top extensions.
LENGTH: 16'-10" Rt. & 18'-7" Lt.

ESTIMATED QUANTITIES

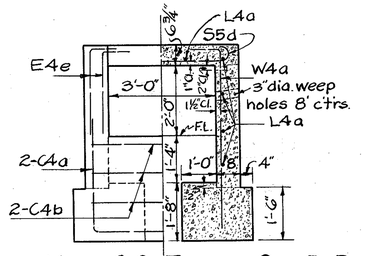
E-2	Excavation for Structures.	31 C.Y.
E-3	Channel Excavation.	
S-1	Concrete for Structures. Class "E"	17.3 C.Y.
S-4	Reinforcing Steel.	1002 Lbs.
S-22	Removal of portions of Existing Structure.	4 C.Y.
S-23	Dowel Holes.	22 Ea.

STEEL LIST

EXTENSION	MARK	LOCATION	SIZE	SHAPE	SPACING	LENGTH	NO.	WEIGHT
Lt. & Rt.	S5a	Slab	5/8" ϕ	Bent	7" %	5'-2"	45	243
Rt.	L4a	Slab & Side Walls	1/2" ϕ	Str.	9" %	12'-6"	12	100
Lt & Rt.	L4b	Endwalls	1/2" ϕ	Str.	9" %	2'-11"	8	16
Lt & Rt.	L4c	Endwalls	1/2" ϕ	Str.	9" %	5'-0"	24	80
Lt.	L4d	Slab & Side Walls	1/2" ϕ	Str.	9" %	14'-3"	12	114
Lt. & Rt.	W4a	Side Walls	1/2" ϕ	Bent	12" %	5'-5"	54	196
Lt. & Rt.	E4a	Endwalls	1/2" ϕ	Bent	12" %	5'-6"	8	29
Lt. & Rt.	E4b	Endwalls	1/2" ϕ	Bent	12" %	4'-6"	4	12
Lt. & Rt.	E4c	Endwalls	1/2" ϕ	Str.	12" %	5'-0"	8	27
Lt. & Rt.	E4d	Endwalls	1/2" ϕ	Str.	12" %	4'-0"	4	11
Lt. & Rt.	E4e	Endwalls	1/2" ϕ	Bent	—	5'-0"	8	27
Lt. & Rt.	C4a	Cut-off Wall	1/2" ϕ	Bent	—	12'-0"	4	32
Lt. & Rt.	C4b	Cut-off Wall	1/2" ϕ	Str.	10" %	4'-0"	12	32
Lt. & Rt.	Dowels	Slab & Side Walls	3/4" ϕ	Str.	12" %	2'-6"	22	83
TOTAL								1002



SECTION - B-B

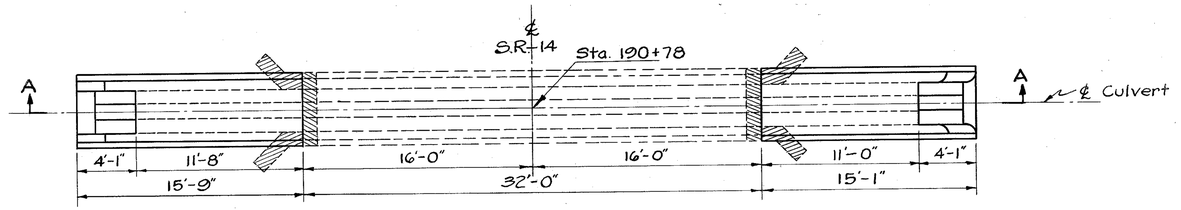


VIEW C-C TYPICAL SEC. D-D

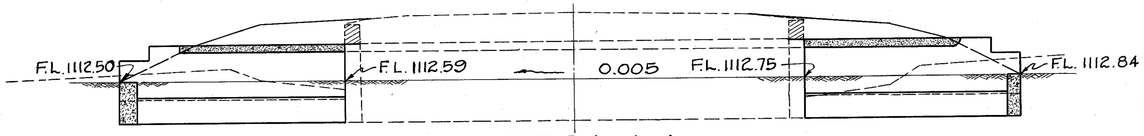
DRAINAGE STRUCTURE C-17 STRUCTURE No. Po-14-216

SURVEY BY E.T. DRAWN BY W.B. CHECKED BY J.L.H.

Scale:- 1" = 5'-0"



PLAN



SECTION A-A

CULVERT DATA

TYPE: Reinforced Concrete Slab Top Extension
SIZE: 3'x2'
SKEW: 0°
STD. DR'WG: STC.-47
WORK REQ'D.: Remove portions of existing structure as shown. Build standard slab top culvert extensions.

ESTIMATED QUANTITIES

E-2	Excavation for Structures.	27 C.Y.
S-1	Concrete for Structures. Class "E"	15.1 C.Y.
S-4	Reinforcing Steel.	886 Lbs.
S-22	Removal of portions of Existing Structure.	4 C.Y.
S-23	Dowel Holes.	22 Ea.

Note: For steel diagram and additional sections see C-8 this sheet.

STEEL LIST

EXTENSION	MARK	LOCATION	SIZE	SHAPE	SPACING	LENGTH	NO.	WEIGHT
Lt. & Rt.	S5a	Slab	5/8" ϕ	Bent	7" %	5'-2"	37	200
Rt.	L4a	Slab & Side Walls	1/2" ϕ	Str.	9" %	10'-9"	12	86
Lt. & Rt.	L4b	Endwalls	1/2" ϕ	Str.	9" %	2'-11"	8	16
Lt. & Rt.	L4c	Endwalls	1/2" ϕ	Str.	9" %	5'-0"	24	80
Lt.	L4d	Slab & Side Walls	1/2" ϕ	Str.	9" %	11'-5"	12	92
Lt. & Rt.	W4a	Side Walls	1/2" ϕ	Bent	12" %	5'-5"	44	159
Lt. & Rt.	E4a	Endwalls	1/2" ϕ	Bent	12" %	5'-6"	8	29
Lt. & Rt.	E4b	Endwalls	1/2" ϕ	Bent	12" %	4'-6"	4	12
Lt. & Rt.	E4c	Endwalls	1/2" ϕ	Str.	12" %	5'-0"	8	27
Lt. & Rt.	E4d	Endwalls	1/2" ϕ	Str.	12" %	4'-0"	4	11
Lt. & Rt.	E4e	Endwalls	1/2" ϕ	Bent	—	5'-0"	8	27
Lt. & Rt.	C4a	Cut-off Wall	1/2" ϕ	Bent	—	12'-0"	4	32
Lt. & Rt.	C4b	Cut-off Wall	1/2" ϕ	Str.	10" %	4'-0"	12	32
Lt. & Rt.	Dowels	Slab & Side Walls	3/4" ϕ	Str.	12" %	2'-6"	22	83
TOTAL								886

DRAINAGE STRUCTURE C-13 BRIDGE NO. PO-14-200

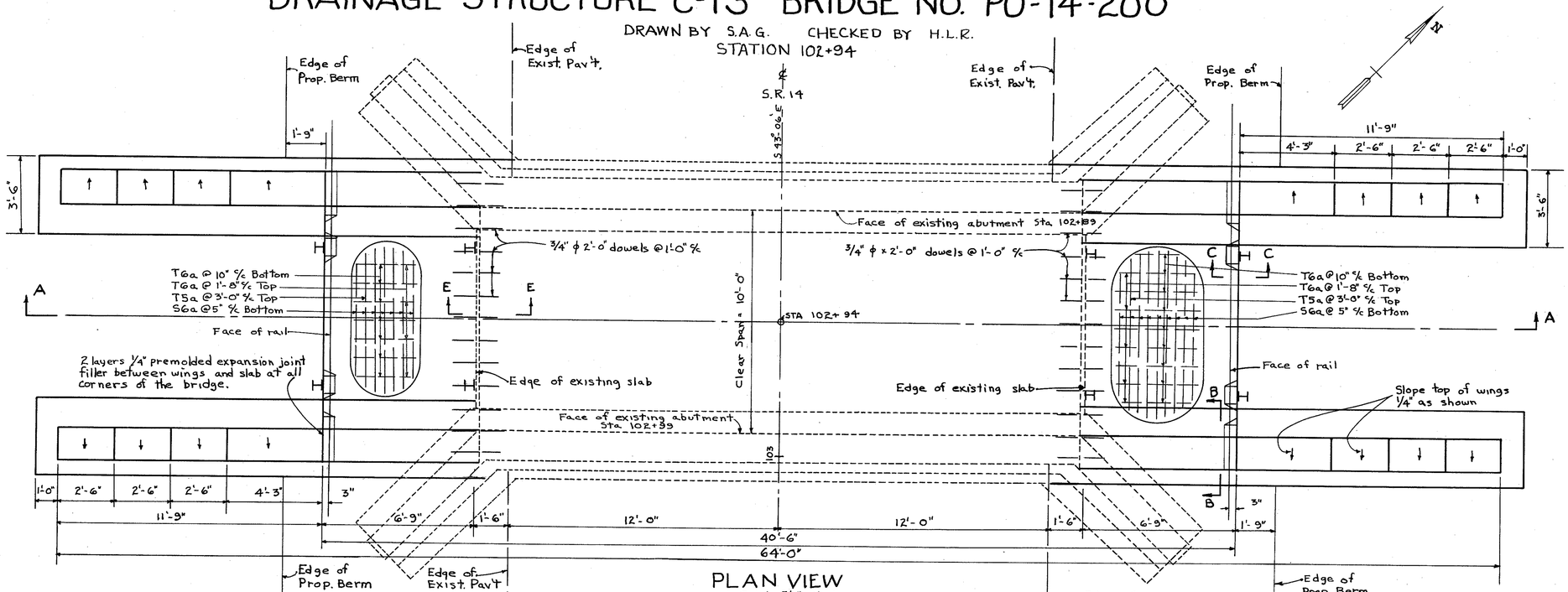
DRAWN BY S.A.G. CHECKED BY H.L.R.

STATION 102+94

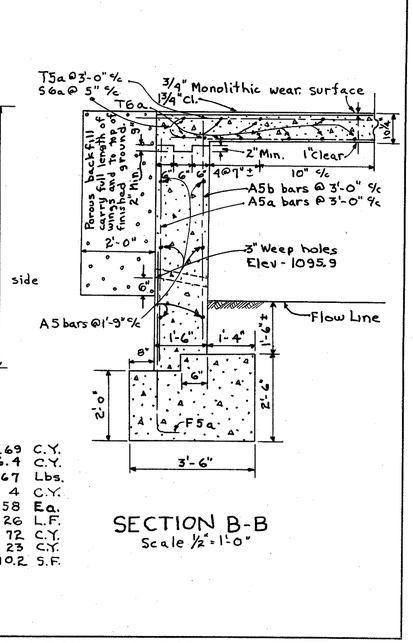
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

88/100

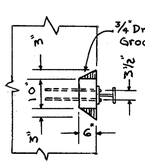
POR-14-(18.03)



PLAN VIEW
Scale 3/8" = 1'-0"

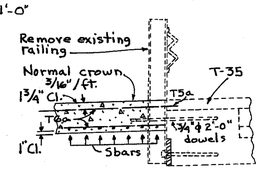


SIDE ELEVATION
Scale 3/8" = 1'-0"

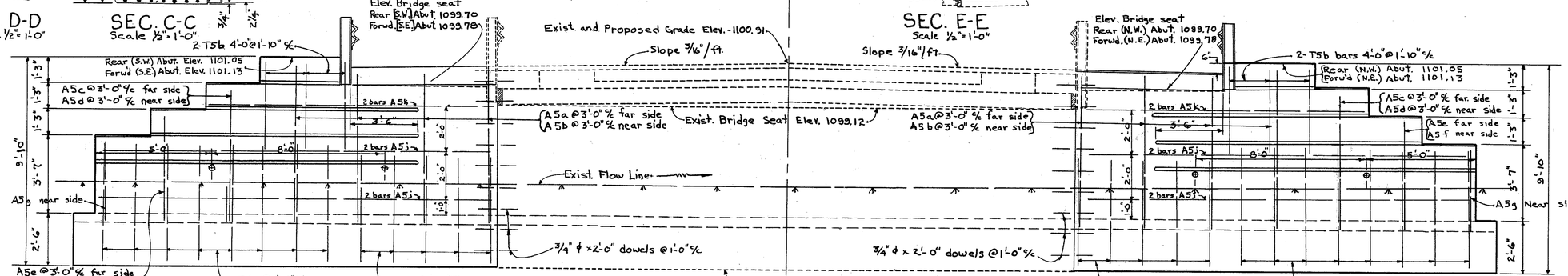


SEC. D-D
Scale 1/2" = 1'-0"

SEC. C-C
Scale 1/2" = 1'-0"



SEC. E-E
Scale 1/2" = 1'-0"



SECTION A-A
Scale 3/8" = 1'-0"

SECTION B-B
Scale 1/2" = 1'-0"

STEEL LIST

MARK	LOCATION	SHAPE	SIZE	NUMBER	LENGTH	WEIGHT
A5a	Abut.	Str.	5/8 ϕ	16	6'-8"	111
A5b	Abut.	Str.	5/8 ϕ	16	7'-2"	120
A5c	Wing	Str.	5/8 ϕ	4	6'-3"	26
A5d	Wing	Str.	5/8 ϕ	4	5'-9"	24
A5e	Wing	Str.	5/8 ϕ	4	5'-0"	21
A5f	Wing	Str.	5/8 ϕ	4	4'-6"	19
F5a	Footing	Bent	5/8 ϕ	20	5'-6"	115
F6a	Footing	Bent	3/4 ϕ	32	6'-2"	296
A5j	Abut.-Wing	Str.	5/8 ϕ	16	18'-2"	304
A5k	Abut.-Wing	Str.	5/8 ϕ	8	13'-4"	111
S6a	Slab	Bent	3/4 ϕ	32	13'-0"	625
A5g	Wing	Str.	5/8 ϕ	4	3'-5"	14

T5a	Slab	Str.	5/8 ϕ	6	11'-8"	73
T6a	Slab	Str.	3/4 ϕ	52	6'-5"	501
T5b	Abut	Str.	5/8 ϕ	24	4'-0"	100
-	Dowels	Str.	3/4 ϕ	58	2'-0"	174
		REPLACEMENT BARS				
Re 5	-	Str.	5/8 ϕ	2	6'-0"	13
Re 6	-	Str.	3/4 ϕ	2	6'-7"	20
		TOTAL				2667

NOTE: The bar sizes do not correspond to those given in SB-1-47. The sizes are as listed in the 1955 Construction and Material Specifications.

CULVERT DATA

TYPE : Slab bridge extension (S-15-46)
SIZE : 10'-0" Clear Span
SKEW : 0°
STD. DRWGS.: SB-1-47
WORK REQD. : Remove exist railings and place new railing on slab extension as shown.

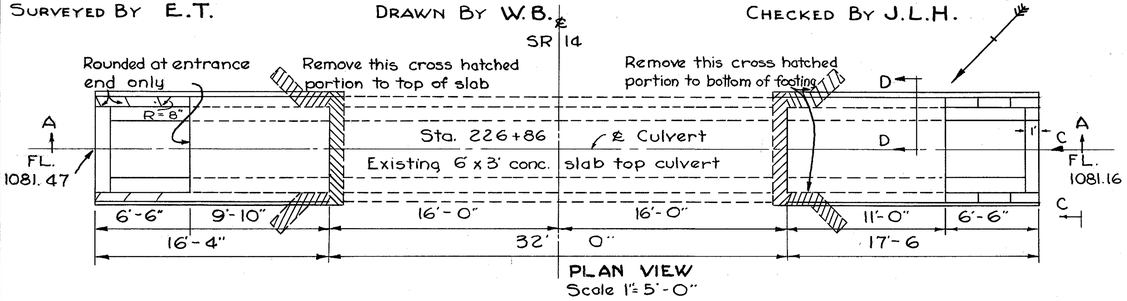
Place dowels and build slab extension with 3/4 monolithic wearing surface as shown. Remove sufficient portions of wings and footings for the construction of new portions of abutments and wings.

ESTIMATED QUANTITIES

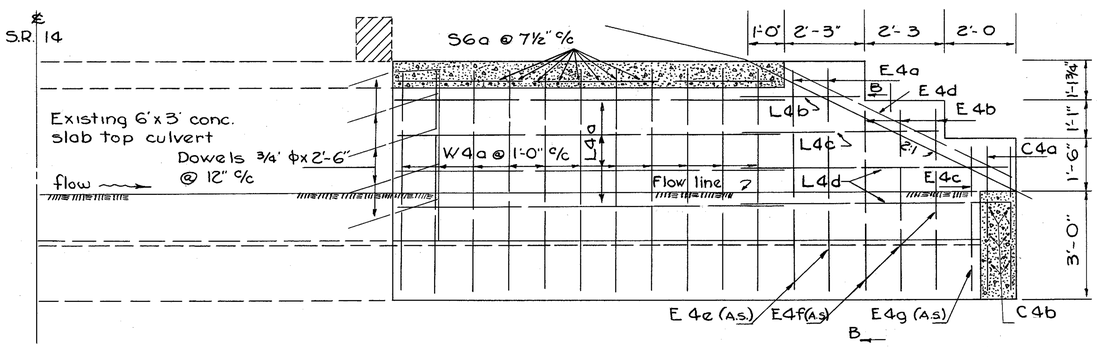
S-1	Concrete for Structures - Class "C" (Bridge Slab)	5.69	C.Y.
S-1	Concrete for Structures - Class "E" (Walls and footings)	46.4	C.Y.
S-4	Reinforcing Steel	2667	Lbs.
S-22	Removal of portions of existing structure	4	C.Y.
S-23	Dowel holes for 3/4" dowels	58	Ea.
S-14	Guard rail, type I-15.13 per plan	26	L.F.
E-2	Excavations for structures (Unclassified)	72	C.Y.
S-29	Drainage of Structures	23	C.Y.
S-9	Premolded expansion joint filler-1/4"	10.2	S.F.

DRAINAGE STRUCTURE C-20-PO-14-223

SURVEYED BY E.T. DRAWN BY W.B. CHECKED BY J.L.H.

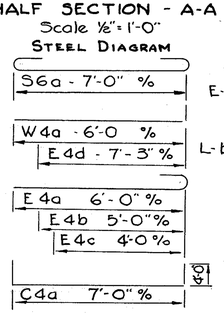


PLAN VIEW
Scale 1"= 5'-0"

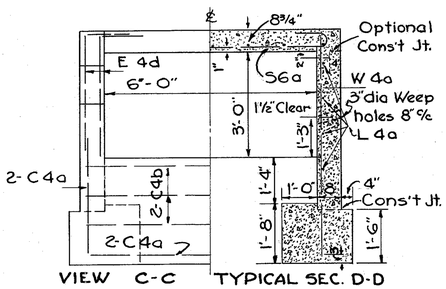


HALF SECTION - A-A
Scale ½"= 1'-0"

STEEL DIAGRAM



SECTION B-B



VIEW C-C TYPICAL SEC. D-D

C-20	STEEL LIST							
Extension	Mark	Location	Size	Shape	Spacing	Length	No.	Weight
Lt.& Rt.	S6a	Slab	¾" ϕ	Bent	7½" %	8'-4"	32	400
Rt.	L4a	Slab & Bar'l W.	½ ϕ	Str.	12" %	10'-9"	15	108
Lt.& Rt	L4b	End Walls	½ ϕ	Str.	12" %	3'-3"	8	17
Lt.& Rt.	L4c	End Walls	½ ϕ	Str.	12" %	5'-6"	8	29
Lt.& Rt.	L4d	End Walls	½ ϕ	Str.	12" %	7'-6"	16	80
Lt.	L4e	Slab & Bar'l W.	½ ϕ	Str.	12" %	9'-7"	15	96
Lt.& Rt	W4a	Bar'l Walls	½ ϕ	Bent	12" %	6'-5"	42	180
Lt.& Rt.	E4a	End Walls	½ ϕ	Bent	12" %	6'-6"	8	35
Lt.& Rt.	E4b	End Walls	½ ϕ	Bent	12" %	5'-6"	12	44
Lt.& Rt.	E4c	End Walls	½ ϕ	Bent	12" %	4'-6"	4	12
Lt.& Rt.	E4d	End Walls	½ ϕ	Bent		7'-8"	8	41
Lt.& Rt.	E4e	End Walls	½ ϕ	Str.	12" %	6'-0"	8	32
Lt.& Rt.	E4f	End Walls	½ ϕ	Str.	12" %	5'-0"	12	40
Lt.& Rt.	E4a	End Walls	½ ϕ	Str.	12" %	4'-0"	4	11
Lt.& Rt.	C4a	Cut-off Wall	½ ϕ	Bent		15'-0"	4	40
Lt.& Rt.	C4b	Cut-off Wall	½ ϕ	Str.	10" %	7'-0"	12	56
Lt.& Rt.	Dowels	Slab & Bar'l W.	¾ ϕ	Str.	12" %	2'-6"	30	113
TOTAL								1334

CULVERT DATA

TYPE: Reinforced Concrete Slab Top Extension
SIZE: 6'x3'
SKEW: 0°
STD. DRW'G: STC-47
WORK REQ'D: Remove portions of existing structure as shown. Build Std. concrete slab top culvert extensions.

ESTIMATED QUANTITES

E-2	Excavation for Structures	53 C.Y.
S-1	Concrete for Structures "Class E"	20.5 C.Y.
S-4	Reinforcing Steel	1334 lbs.
S-22	Rem'l of portions of Exist. Str.	4 C.Y.
S-23	Dowel Holes	30 EA.

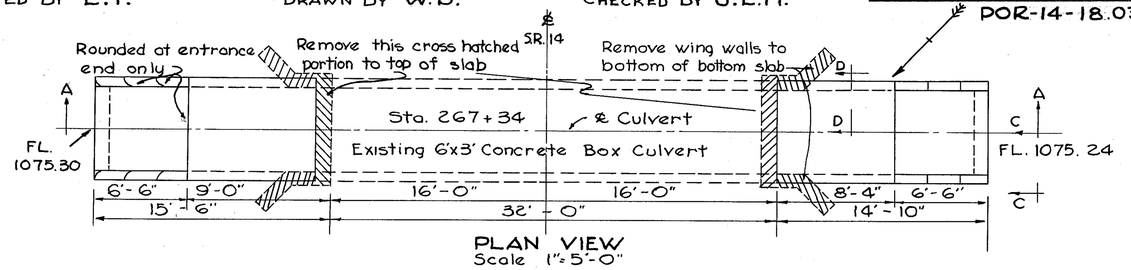
DRAINAGE STRUCTURE C-23-PO-14-231

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

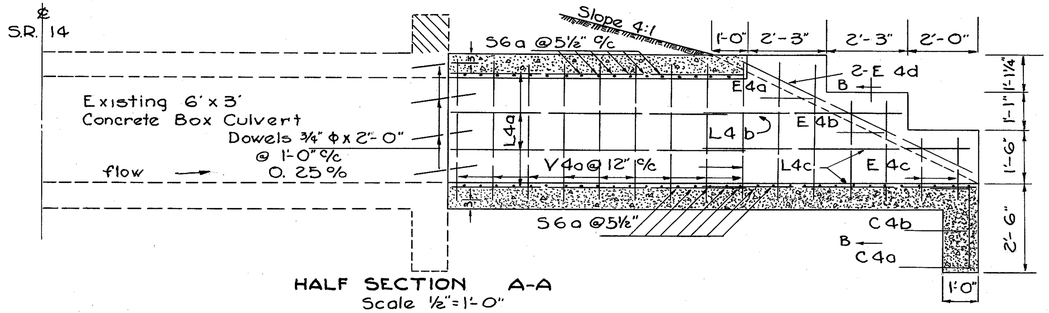
89/100

SURVEYED BY E.T. DRAWN BY W.B. CHECKED BY J.L.H.

POR-14-18.03

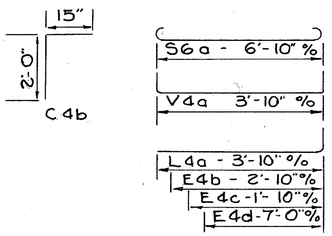


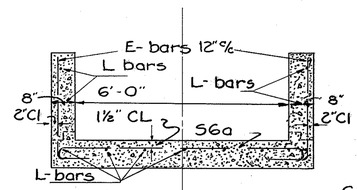
PLAN VIEW
Scale 1"= 5'-0"



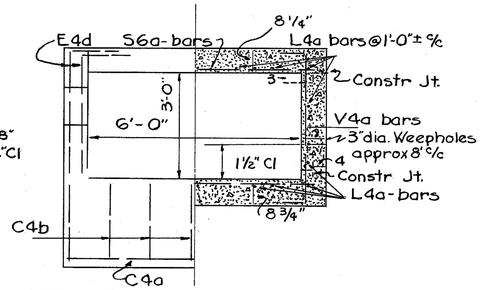
HALF SECTION A-A
Scale ½"=1'-0"

STEEL BENDING DIAGRAM





SECTION B-B



VIEW C-C TYPICAL SECTION D-D

C-23	STEEL LIST							
Extension	Mark	Location	Size	Shape	Spacing	Length	No.	Weight
Lt.& Rt.	S6a	Top & Bottom	¾" ϕ	Bent	5½" %	8'-2"	102	1252
Rt.	L4a	Top, Bot, & Wall	½" ϕ	Str.	12" %	8'-0"	18	96
Lt. & Rt.	L4b	End Walls	½" ϕ	Str.	12" %	5'-6"	4	15
Lt.& Rt.	L4c	End Walls	½" ϕ	Str.	12" %	7'-6"	18	90
Lt.	L4d	Top, Bot, & Walls	½" ϕ	Str	12" %	8'-9"	18	105
Lt.& Rt.	V4a	Bar'l Walls	½" ϕ	Bent	12" %	4'-8"	36	112
Lt.& Rt.	E4a	End Walls	½" ϕ	Bent	12" %	4'-3"	8	23
Lt.& Rt.	E4b	End Walls	½" ϕ	Bent	12" %	3'-3"	8	17
Lt.& Rt.	E4c	End Walls	½" ϕ	Bent	12" %	2'-3"	8	12
Lt.& Rt.	E4d	End Walls	½" ϕ	Bent		7'-5"	8	40
Lt. & Rt.	C4a	Cut-of Wall	½" ϕ	Str.		6'-10"	2	9
Lt.& Rt.	C4b	Cut-of Wall	½" ϕ	Bent	12" %	3'-3"	14	30
Lt.& Rt.	Dowels	Top, Bot, & Walls	¾" ϕ	Str.	12" %	2'-0"	36	108
TOTAL								1909

CULVERT DATA

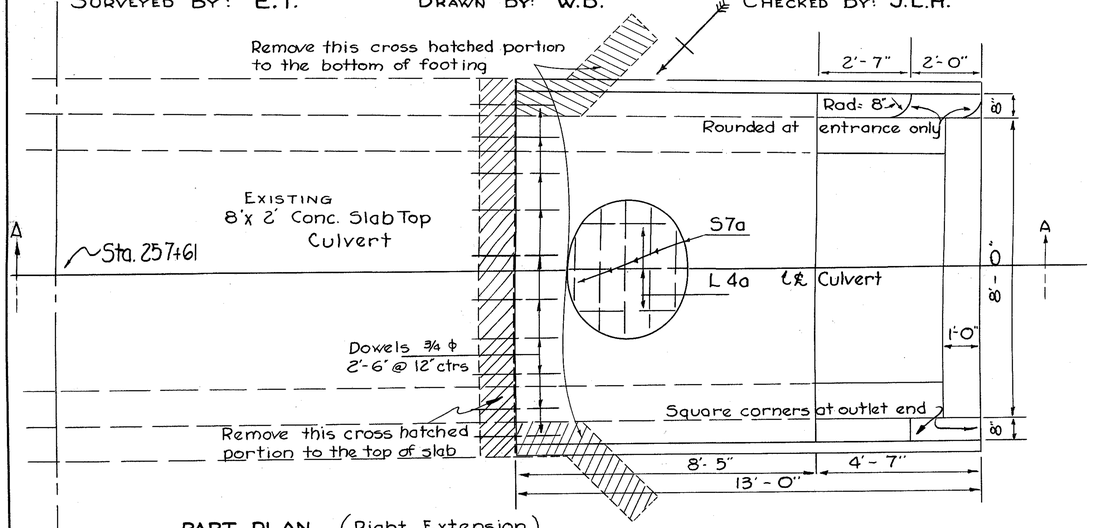
TYPE: Reinforced Concrete Box Culvert Extensions
SIZE: 6'x3'
SKEW: 0°
STD. DRW'G: SBC-45
WORK REQ'D Remove portions of existing structure as shown. Build Std. Concrete box culvert extensions.

ESTIMATED QUANTITIES

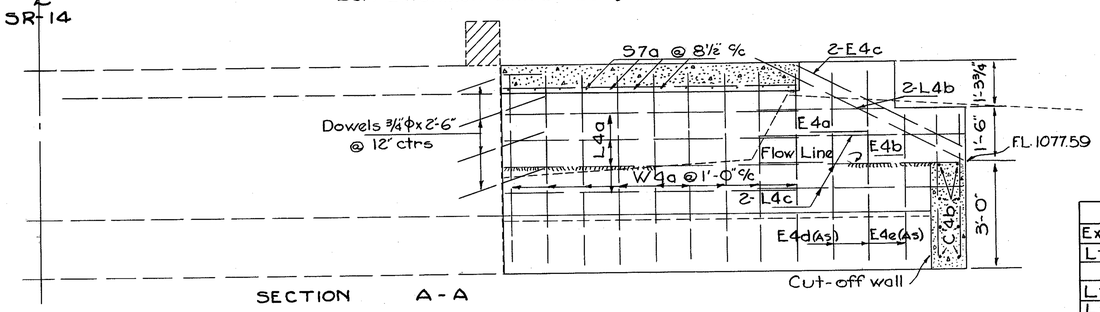
E-2	Excavation for Structures	25 C.Y.
S-1	Concrete for Structures Class "C"	14.4 C.Y.
S-4	Reinforcing Steel	1909 lbs.
S-22	Remov'l of portions of exist. structures	4 C.Y.
S-23	Dowel Holes	36 EA.

DRAINAGE STRUCTURE C-22 PO-14-229

SURVEYED BY: E.T. DRAWN BY: W.B. CHECKED BY: J.L.H.

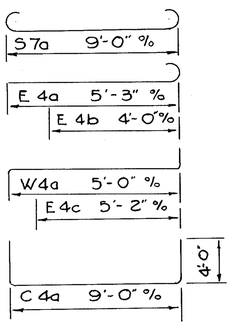


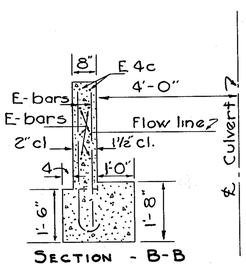
PART PLAN (Right Extension)
Left Extension similar-Length of barrel- 8'-3"

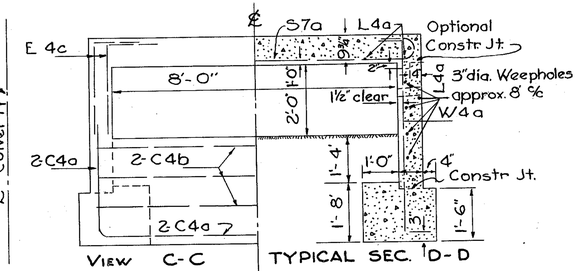


SECTION A-A

STEEL DIAGRAM







CULVERT DATA

TYPE: Reinforced Concrete Slab Top Culvert Extension
SIZE: 8'x 2'
SKEW: 0°
LENGTH: Rt. 13'-0" Lt. 12'-10"
STD. DRW'G: STC.- 47
WORK REQ'D: Remove portions of existing structure as shown. Build std. concrete slab top culvert extensions.

ESTIMATED QUANTITIES

E-2	Excavation for Structures	31 C.Y.
S-1	Concrete for Structures Class "E"	16.8 C.Y.
S-4	Reinforcing Steel	1283 lbs
S-22	Removal of Portions of Exist. Str.	4 C.Y.
S-23	Dowel Holes	32 EA.

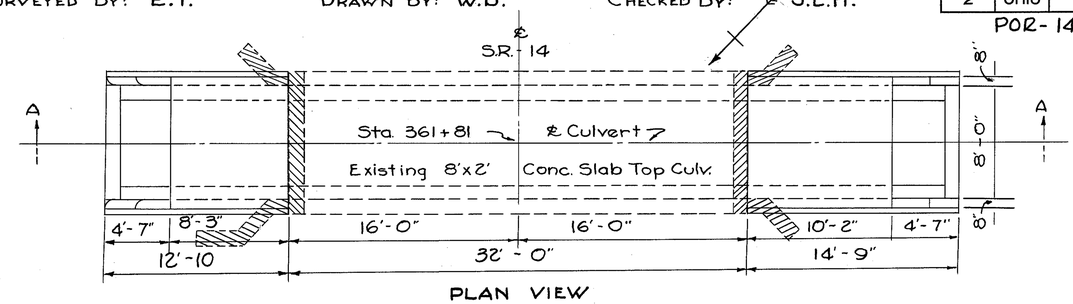
DRAINAGE STRUCTURE C-32 PO-14-249

SURVEYED BY: E.T. DRAWN BY: W.B. CHECKED BY: J.L.H.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

POR-14-18.03

90/100



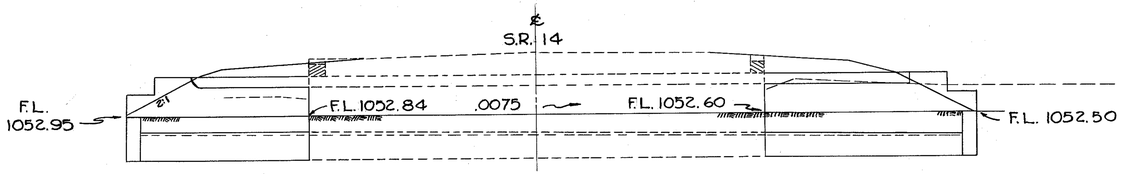
PLAN VIEW

CULVERT DATA

TYPE: Reinforced Concrete Slab Top Extension.
SIZE: 8'x 2'
SKEW: 0°
STD. DRW'G: STC- 47
WORK REQ'D: Remove portions of existing structure as shown. Build std. concrete slab top culvert extensions.

ESTIMATED QUANTITIES

E-2	Excavation for Structures	47 C.Y.
S-1	Concrete for Structures "Class E"	18.1 C.Y.
S-4	Reinforcing Steel	1383 lbs.
S-22	Removal of Portions of Exist. Structure	4 C.Y.
S-23	Dowel Holes	32 EA.



SECTION A-A

C-22 STEEL LIST

Extension	Mark	Location	Size	Shape	Spacing	Length	No.	Weight
Lt.& Rt.	S7a	Slab	⅞" ϕ	Bent	8½" c/c	10'- 8"	24	523
Rt.	L4a	Slab-Bar'l.	½" ϕ	Str.	12"& 8½" c/c	8'- 0"	17	91
Lt.& Rt.	L4b	End Walls	½" ϕ	Str.	8½" c/c	3'- 7"	8	19
Lt.& Rt.	L4c	End Walls	½" ϕ	Str.	8½" c/c	5'- 7"	24	90
Lt.	L4d	Slab&Bar'l	½" ϕ	Str.	12"& 8½" c/c	7'- 9"	17	88
Lt.& Rt.	W4a	Barrel	½" ϕ	Bent	12" c/c	5'- 5"	34	123
Lt.& Rt.	E4a	End Walls	½" ϕ	Bent	12" c/c	5'- 9"	88	31
Lt.& Rt.	E4b	End Walls	½" ϕ	Bent	12" c/c	4'- 6"	4	12
Lt.& Rt.	E4c	End Walls	½" ϕ	Bent		5'- 7"	8	30
Lt.& Rt.	E4d	End Walls	½" ϕ	Str.	12" c/c	5'- 3"	8	28
Lt.& Rt.	E4e	End Walls	½" ϕ	Str.	12" c/c	4'- 0"	4	11
Lt.& Rt.	C4a	Cut-off Walls	½ ϕ	Bent		17'- 0"	4	45
Lt.& Rt.	C4b	Cut-off Walls	½" ϕ	Str.	10" c/c	9'- 0"	12	72
Lt.& Rt.	Dowels	Slab&Bar'l	¾" ϕ	Str.	12" c/c	2'- 6"	32	120
TOTAL								1283

C-32 STEEL LIST

Extension	Mark	Location	Size	Shape	Spacing	Length	No.	Weight
Lt.& Rt.	S7a	Slab	⅞ ϕ	Bent	8½" c/c	10'- 8"	27	589
Rt.	L4a	Slab&Bar'l	½" ϕ	Str.	12"& 8½" c/c	9'- 8"	17	110
Lt.& Rt.	L4b	End Walls	½" ϕ	Str.	8½" c/c	3'- 7"	8	19
Lt.& Rt.	L4c	End Walls	½" ϕ	Str.	8½" c/c	5'- 7"	24	90
Lt	L4c	Slab&Bar'l	½" ϕ	Str.	12"& 8½" c/c	7'- 9"	17	88
Lt.& Rt.	W4a	Side Walls	½" ϕ	Bent	12" c/c	5'- 5"	38	138
Lt.& Rt.	F4c	End Walls	½" ϕ	Bent	12" c/c	5'- 9"	8	31
Lt.& Rt.	E4b	End Walls	½" ϕ	Bent	12" c/c	4'- 6"	4	12
Lt.& Rt.	E4c	End Walls	½" ϕ	Bent		5'- 7"	8	30
Lt.& Rt.	E4d	End Walls	½" ϕ	Str.	12" c/c	5'- 3"	8	28
Lt.& Rt.	E4e	End Walls	½" ϕ	Str.	12" c/c	4'- 0"	4	11
Lt.& Rt.	C4d	Cut-off Walls	½" ϕ	Bent		7'- 0"	4	45
Lt.& Rt.	C4b	Cut-off Walls	½" ϕ	Str.	10" c/c	9'- 0"	12	72
Lt.& Rt.	Dowels	Slab&Bar'l	¾ ϕ	Str.	12" c/c	2'- 6"	32	120
TOTAL								1383

DRAINAGE STRUCTURE C-25

Po-14-235

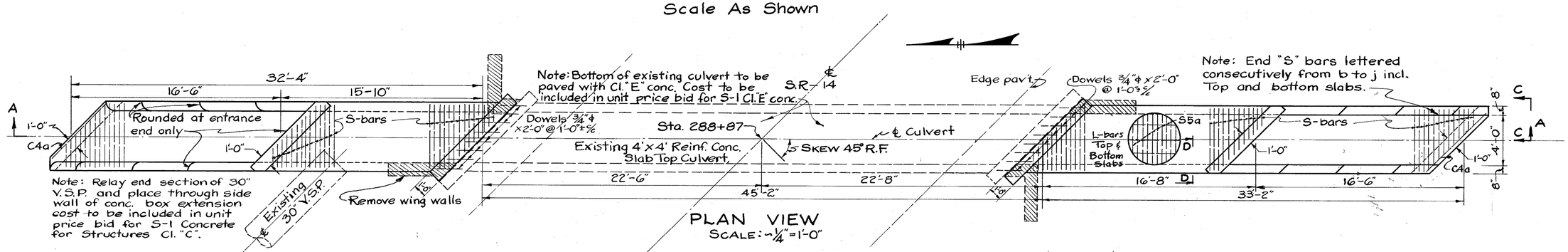
SURVEYED BY E.T. DRAWN BY W.B. CHECKED BY J.L.H.

Scale As Shown

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

POR-14-(18.03)

91/100

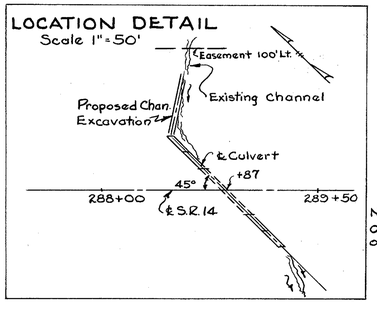


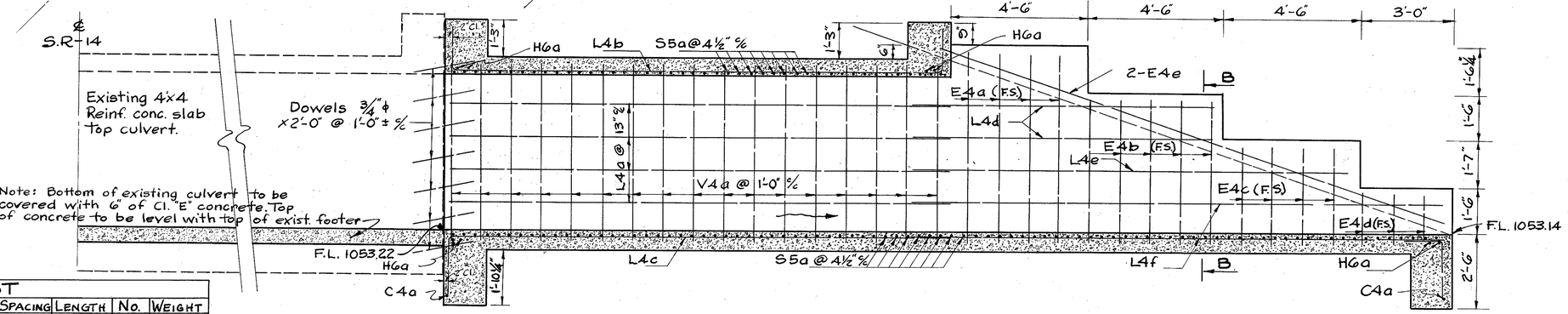
PLAN VIEW

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

LOCATION DETAIL

Scale 1"=50'





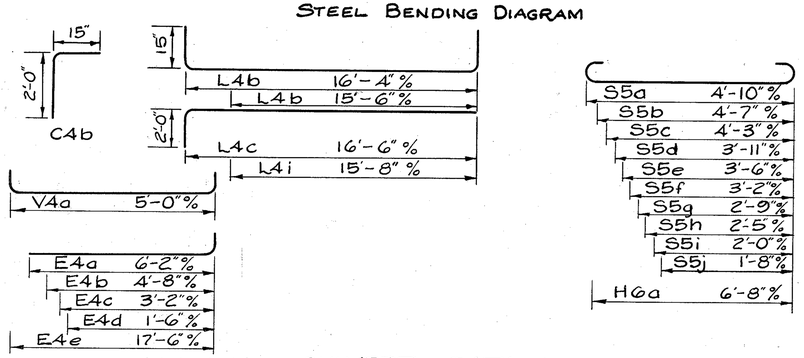
HALF SECTION - A-A

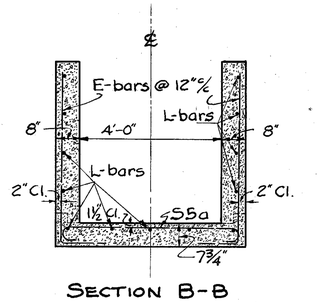
SCALE: ~ ½"=1'-0"

STEEL LIST

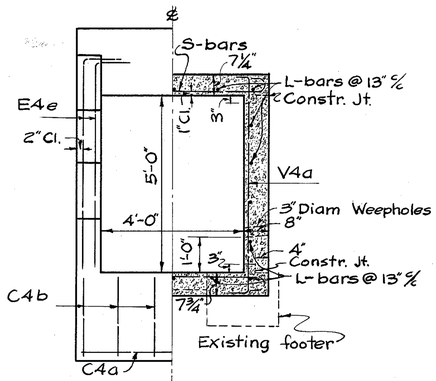
EXTENSION	MARK	LOCATION	SIZE	SHAPE	SPACING	LENGTH	NO.	WEIGHT
Lt. & Rt.	S5a	Top & Bot. Slabs	5/8" ϕ	Bent	4½"%	6'-0"	203	1270
Lt & Rt.	S5b	Top & Bot. Slabs	5/8" ϕ	Bent	4½"%	5'-9"	8	48
Lt. & Rt.	S5c	Top & Bot. Slabs	5/8" ϕ	Bent	4½"%	5'-5"	8	45
Lt. & Rt.	S5d	Top & Bot. Slabs	5/8" ϕ	Bent	4½"%	5'-1"	8	42
Lt. & Rt.	S5e	Top & Bot. Slabs	5/8" ϕ	Bent	4½"%	4'-8"	8	39
Lt. & Rt.	S5f	Top & Bot. Slabs	5/8" ϕ	Bent	4½"%	4'-4"	8	36
Lt. & Rt.	S5g	Top & Bot. Slabs	5/8" ϕ	Bent	4½"%	3'-11"	8	33
Lt. & Rt.	S5h	Top & Bot. Slabs	5/8" ϕ	Bent	4½"%	3'-7"	8	30
Lt. & Rt.	S5i	Top & Bot. Slabs	5/8" ϕ	Bent	4½"%	3'-2"	8	26
Lt. & Rt.	S5j	Top & Bot. Slabs	5/8" ϕ	Bent	4½"%	2'-10"	8	24
Rt.	L4a	Barrel walls	½" ϕ	Str.	13"%	16'-5"	8	88
Rt.	L4b	Top Slab	½" ϕ	Bent	13"%	18'-10"	5	63
Rt.	L4c	Bottom Slab	½" ϕ	Bent	13"%	18'-6"	5	62
Lt. & Rt.	L4d	Endwalls	½" ϕ	Str.	13"%	10'-0"	8	53
Lt. & Rt.	L4e	Endwalls	½" ϕ	Str.	13"%	14'-3"	4	38
Lt. & Rt.	L4f	Endwalls & Slab	½" ϕ	Str.	13"%	17'-6"	14	164
Lt.	L4g	Barrel walls	½" ϕ	Str	13"%	15'-7"	8	83
Lt.	L4h	Top Slab	½" ϕ	Bent	13"%	18'-0"	5	60
Lt.	L4i	Bottom Slab	½" ϕ	Bent	13"%	17'-8"	5	59
Lt. & Rt.	V4a	Barrel walls	½" ϕ	Bent	12"%	6'-6"	66	287
Lt. & Rt.	E4a	Endwalls	½" ϕ	Bent	12"%	6'-7"	16	70
Lt. & Rt.	E4b	Endwalls	½" ϕ	Bent	12"%	5'-1"	20	68
Lt. & Rt.	E4c	Endwalls	½" ϕ	Bent	12"%	3'-7"	16	38
Lt. & Rt.	E4d	Endwalls	½" ϕ	Bent	12"%	1'-11"	12	15
Lt. & Rt.	E4e	Endwalls	½" ϕ	Bent	——	17'-11"	8	96
Lt. & Rt.	C4a	Cut-off-walls	½" ϕ	Str.	——	6'-6"	4	17
Lt. & Rt.	C4b	Cut-off-walls	½" ϕ	Bent	12"%	3'-3"	12	26
Lt. & Rt.	H6a	Headwalls & Cut-off-walls	¾" ϕ	Bent	——	8'-0"	16	192
Lt. & Rt.	Dowels	Slab & Barrel walls	¾" ϕ	Str.	12"%	2'-0"	40	120
TOTAL								3192

STEEL BENDING DIAGRAM





SECTION B-B



VIEW C-C TYPICAL SEC. D-D

CULVERT DATA

EXISTING TYPE: Reinforced Concrete Slab Top Culvert.
PROPOSED TYPE: Reinforced Concrete Box Culvert Extension.
SIZE: 4'x5'
SKEW: 45° R.F.
STD. DRWG.: SBC-45
WORK REQ'D.: Grade bottom of existing structure and pave with 6" of Class "E" concrete. Top of concrete to be level with top of existing footing. Cost to be included in the unit price bid for Concrete for Structures, Class "E". Remove existing wing walls. Build Standard Reinforced Concrete Box Culvert Extensions. Place end of existing 30" V.S.P. into Lt. extension as shown above. Cost to be included in unit price bid for Concrete for Structures, Class "C". Excavate inlet channel to fit the extension. See Detail above.

ESTIMATED QUANTITIES

E-2	Excavation for Structures.	53 C.Y.
E-3	Channel Excavation.	24 C.Y.
S-1	Concrete for Structures (Class "C").	30.2 C.Y.
S-1	Concrete for Structures (Class "E").	1.7 C.Y.
S-4	Reinforcing Steel.	3192 Lbs.
S-22	Removal of Portions of Existing Structure.	3 C.Y.
S-23	Dowel Holes.	40 Ea.

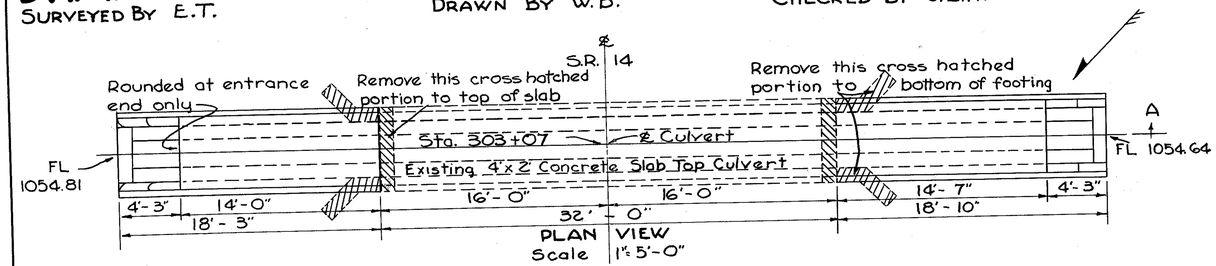
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

POR-14-18.03

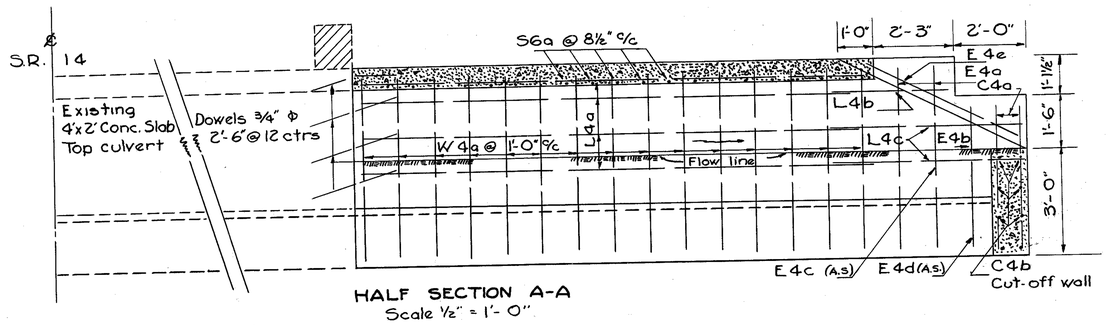
92/100

DRAINAGE STRUCTURE C-26 - PO-14-237

SURVEYED BY E.T. DRAWN BY W.B. CHECKED BY J.L.H.

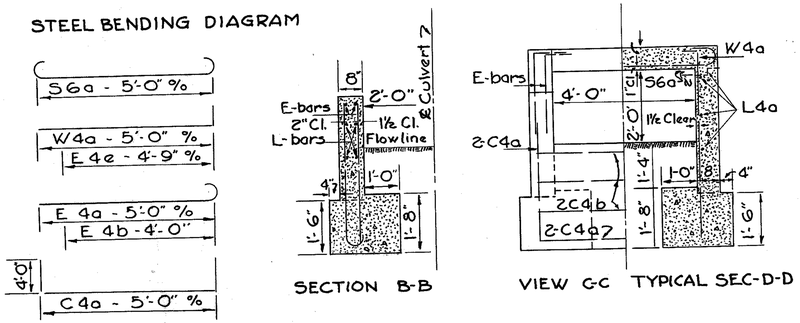


PLAN VIEW
Scale 1"= 5'-0"



HALF SECTION A-A
Scale ½" = 1'-0"

STEEL BENDING DIAGRAM



C-26	STEEL LIST							
Extension	Mark	Location	Size	Shape	Spacing	Length	No.	Wt.
Lt. & Rt.	S 6 a	Slab	¾" ϕ	Bent	8½" c/c	6'-4"	41	390
Rt.	L 4 a	Slab & S.Wl.	½" ϕ	Str	12" c/c	14'-3"	11	105
Lt. & Rt.	L 4 b	End Walls	½" ϕ	Str	12" c/c	3'-3"	8	17
Lt. & Rt.	L 4 c	End Walls	½" ϕ	Str	12" c/c	5'-3"	16	56
Lt.	L 4 d	Slab & S. Wl.	½" ϕ	Str	12" c/c	13'-9"	11	101
Lt. & Rt.	W 4 a	Side Walls	½" ϕ	Bent	12" c/c	5'-5"	58	210
Lt. & Rt.	E 4 a	End Walls	½" ϕ	Bent	12" c/c	5'-6"	8	29
Lt. & Rt.	E 4 b	End Walls	½" ϕ	Bent	12" c/c	4'-6"	4	12
Lt. & Rt.	E 4 c	End Walls	½" ϕ	Str	12" c/c	5'-0"	8	27
Lt. & Rt.	E 4 d	End Walls	½" ϕ	Str	12" c/c	4'-0	4	11
Lt. & Rt.	E 4 e	End Walls	½" ϕ	Bent		5'-2"	8	28
Lt. & Rt.	C 4 a	Cut-off Walls	½" ϕ	Bent		13'-0"	4	35
Lt. & Rt.	C 4 b	Cut-off Walls	½" ϕ	Str	10" c/c	5'-0"	12	40
Lt. & Rt.	Dowels	Slab & S.Wl.	¾" ϕ	Str	12" c/c	2'-6"	22	83
TOTAL								1144

CULVERT DATA

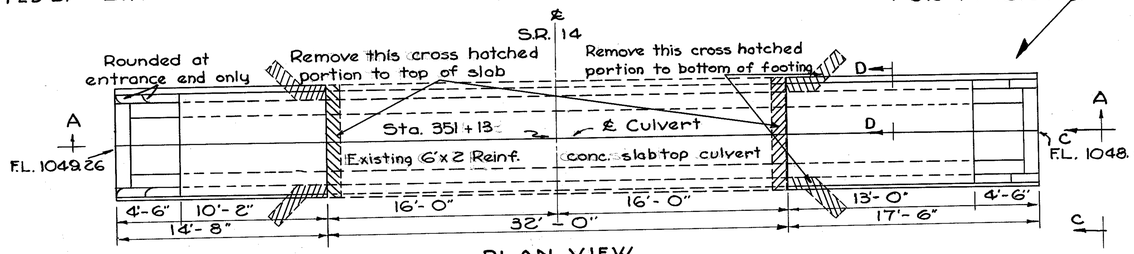
TYPE: Reinforced Concrete Slab Top Extension
SIZE: 4' x 2'
SKEW: 0°
STD. DRW'G: STC-47
WORK REQ'D: Remove portion of existing structure as shown. Build std. reinforced concrete slab top extensions.

ESTIMATED QUANTITIES

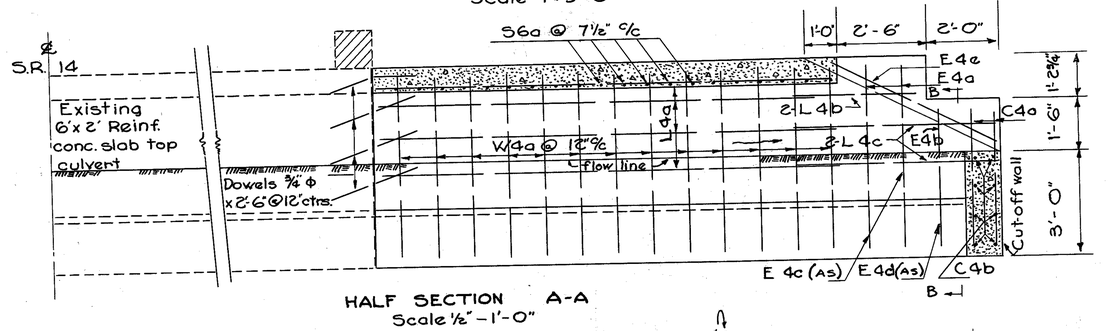
E-2	Excavation for Structures	51 C.Y.
S-1	Concrete for Structures Class "E"	19.3 C.Y.
S-4	Reinforcing Steel	1144 Lbs.
S-22	Rem'l of portions of exist. structures	4 C.Y.
S-23	Dowel Holes	22 E.A.

DRAINAGE STRUCTURE C-31-PO-14-247

SURVEYED BY E.T. DRAWN BY W.B. CHECKED BY J.L.H.

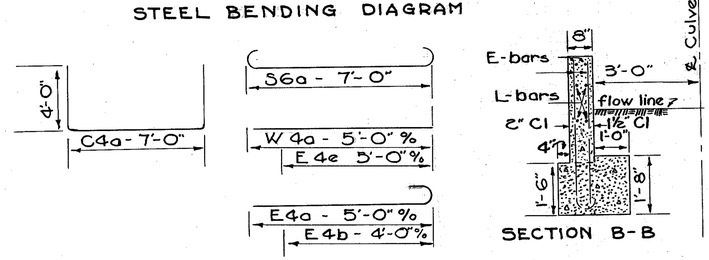


PLAN VIEW
Scale 1"= 5'-0"



HALF SECTION A-A
Scale ½" - 1'-0"

STEEL BENDING DIAGRAM



C-31	STEEL LIST							
Extension	Mark	Location	Size	Shape	Spacing	Length	No	Wt.
Lt. & Rt.	S 6 a	Slab	¾ ϕ	Bent	7½" c/c	8'-4"	36	451
Rt.	L 4 a	Slab & S.Wl.	½" ϕ	Str	12" c/c	12'-9"	13	111
Lt. & Rt.	L 4 b	End Walls	½" ϕ	Str	12" c/c	3'-6"	8	19
Lt. & Rt.	L 4 c	End Walls	½" ϕ	Str	12" c/c	5'-6"	16	59
Lt.	L 4 d	Slab & S.Wl.	½" ϕ	Str	12" c/c	9'-11"	13	86
Lt. & Rt.	W 4 a	Side Walls	½" ϕ	Bent	12" c/c	5'-5"	46	167
Lt. & Rt.	E 4 a	End Walls	½" ϕ	Bent	12" c/c	5'-6"	8	29
Lt. & Rt.	E 4 b	End Walls	½" ϕ	Bent	12" c/c	4'-6"	4	12
Lt. & Rt.	E 4 c	End Walls	½" ϕ	Str	12" c/c	5'-0"	8	27
Lt. & Rt.	E 4 d	End Walls	½" ϕ	Str	12" c/c	4'-0"	4	11
Lt. & Rt.	E 4 e	End Walls	½" ϕ	Bent		5'-5"	8	29
Lt. & Rt.	C 4 a	Cut-off Walls	½" ϕ	Bent		15'-0"	4	40
Lt. & Rt.	C 4 b	Cut-off Walls	½" ϕ	Str	10" c/c	7'-0"	12	56
Lt. & Rt.	Dowels	Slab & S.Wl.	¾" ϕ	Str	12" c/c	2'-6"	26	98
TOTAL								1195

CULVERT DATA

TYPE: Reinforced Concrete Slab Top Culvert
SIZE: 6'x2'
SKEW: 0°
STD. DRW'G: STC-47
WORK REQ'D: Remove portions of existing structure as shown. Build std. reinforced concrete slab top extensions.

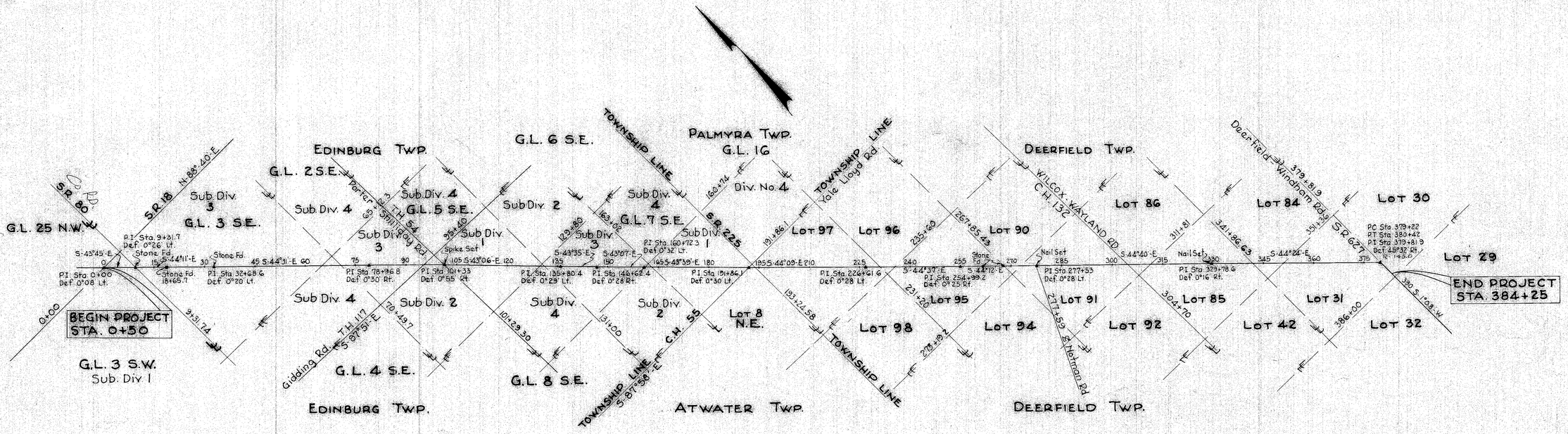
ESTIMATED QUANTITIES

E-2	Excavation for Structures	47 C.Y.
S-1	Concrete for structures Class "E"	18.9 C.Y.
S-4	Reinforcing Steel	1195 Lbs.
S-22	Rem'l of portions of exist. structures	4 C.Y.
S-23	Dowel Holes	26 E.A.

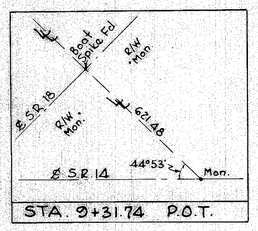
14-POR-18.03

LOCATION PLAT
POR-14-18.03
CLEVELAND-EAST LIVERPOOL RD.
PORTAGE COUNTY
EDINBURG-ATWATER-DEERFIELD TOWNSHIP

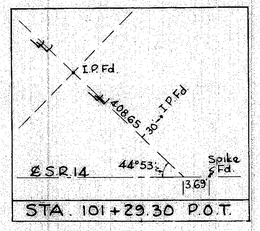
SCALE 1" = 1500'



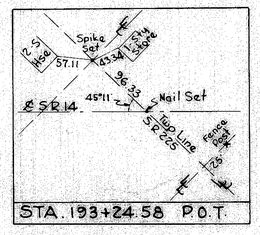
NOTE: Stones noted on centerline are set in Standard Monument Boxes and will not be disturbed by this project.



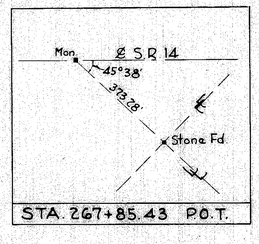
STA. 9+31.74 P.O.T.



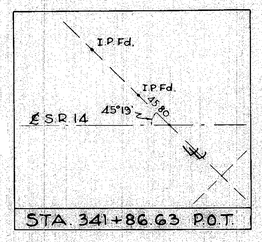
STA. 101+29.30 P.O.T.



STA. 193+24.58 P.O.T.



STA. 267+85.43 P.O.T.



STA. 341+86.63 P.O.T.

I HEREBY CERTIFY THIS PLAT TO BE CORRECT
Signed By Carl L. Campbell
ACTING DIVISION DEPUTY DIRECTOR

Recieved For Record _____ 19__
Recorded Feb 29 1956 Vol. 11 Page 18

PORTAGE COUNTY RECORDS
RECORDER,

S.R. 14

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

1

POR-14-18.03

BEGIN SHEET STA. 0-400

P.I. Sta. 0+00
Def. 0°08' Lt.

G.L. No. 25 N.W.

G.L. No. 25 N.W.

N. 88° 40' E

+00

CHARLES RAY ALDRICH

5

6

2-Sty. Brick School Bld.

H.B. GARDNER JR. & CLARA M. GARDNER

S.R. 18

RUTH N. ELLIO

1

2-Sty. Fr. Bld.

1-Sty. Bldg.

2-Sty. Fr. Bld.

Gas Pumps

Conc. Is. & Pumps

Blk. Top

Pumps

Conc.

Dr.

G.L. No. 3 S.W.
Sub. Div. 1

CHARLES D. DAVIS

2

Rest.

Sign

12" Map.

20" Map.

22" Map.

6" V.S.P.

10" Corr.

14" Wal.

2-S.F. Hse

Gar.

Dr. +98 Aband.

+30

7

MARIE B. BUEHLER

8

Sub Div. Line

Sub Div. 2

+79

Dr. +18

+31.74

S.R. 80

G.L. No. 3 S.E.
Sub Div. 4

P.I. Sta. 9+31.7
Def. 0°26' Lt.

PAULINE FAGERT

3 0.033 Ac.

3B

Barn

Gar. 0.019 Ac.

Septic Tank

ROBERT L. THOMAS & BETTY LEE THOMAS

4 0.101 Ac.

Barn

Drain Tile

Dr. +117

Dr. +30

Dr. +138

Dr. +67

Dr. +32

4" Dr.

Dr. +38 8" Elm

8" Pipe

12" Birch

12" W.Chy.

30" Map.

24" Map.

26" Map.

18" Map.

16" Map.

12" Map.

8" Pine

8" Tile

6" Dr. Tile

S-44°11'-E

S.R. 14

Sani Sewer

M.H.

Pumps

Dr. +98

Dr. +105

Dr. +67

Dr. +132

10

HEDWIG GORAY

12" Oak

18" Pipe

Sub Div. Line

RALPH LAZEAR

11 0.088 Ac.

G.L. No. 3 S.E.
Sub Div. 4

DR. R.K. NABOURS & MAYME DAVIS NABOURS

9

G.L. No. 3 S.W.
Sub Div. 1

EDINBURG TWP.
TOWN 2-N RANGE 7-W

EDINBURG TWP.
TOWN 2-N RANGE 7-W

Sub Div. Line

Sub Div. 4

ADOLPH F. SCHAER & RUTH E. SCHAER

12 0.122 Ac.

4

+39

4" Fld. Dr.

24" W.Chy

Dr. Tile

10" Drain Tile

22" Map

24" Map

18" Map

20" Map

1-Sty. Hse.

Gar.

18" Elm

12" Elm

THOMAS C. BOTHEL & JENNIE LEE BOTHEL

17

MAUDE M. THOMS
LLOYD L. THOMS &
CORRINE Y. THOMS

0.050 Ac.

Sub Div. 4

G.L. No. 3 S.E.
Sub Div. 3

P.I. Sta. 32+68.6
Def. 0°20' Lt.

12 X 0.034 Ac.

13 0.043 Ac.

EFFIE KISTLER

JOSEPH GRUDOWSKY & MARYANNA GRUDOWSKY

18 0.088 Ac.

G.L. No. 3 S.E.
Sub Div. 3

Sub Div. 2

FRANK ELLIOTT & MILDRED ELLIOTT

15

Pond

Silo

Barn

Gar

14 X 0.088 Ac.

CARRIE L. GOURLEY

14 0.183 Ac.

Dr. +80

20" Map.

8" Pine

2" App.

24" Map.

16" Map.

Dr. +107

Dr. +55

Dr. +64

Dr. +67

Dr. +87

Dr. +66

Dr. +85

Dr. +145

Dr. +65

Dr. +104

Dr. +100

Dr. +68.6

Dr. +28.6

Dr. +08

Dr. +56

Dr. +63

Dr. +37

Dr. +30

Dr. +39

Dr. +97

Dr. +00

Dr. +68

Dr. +72

Dr. +19

Dr. +05

Dr. +00

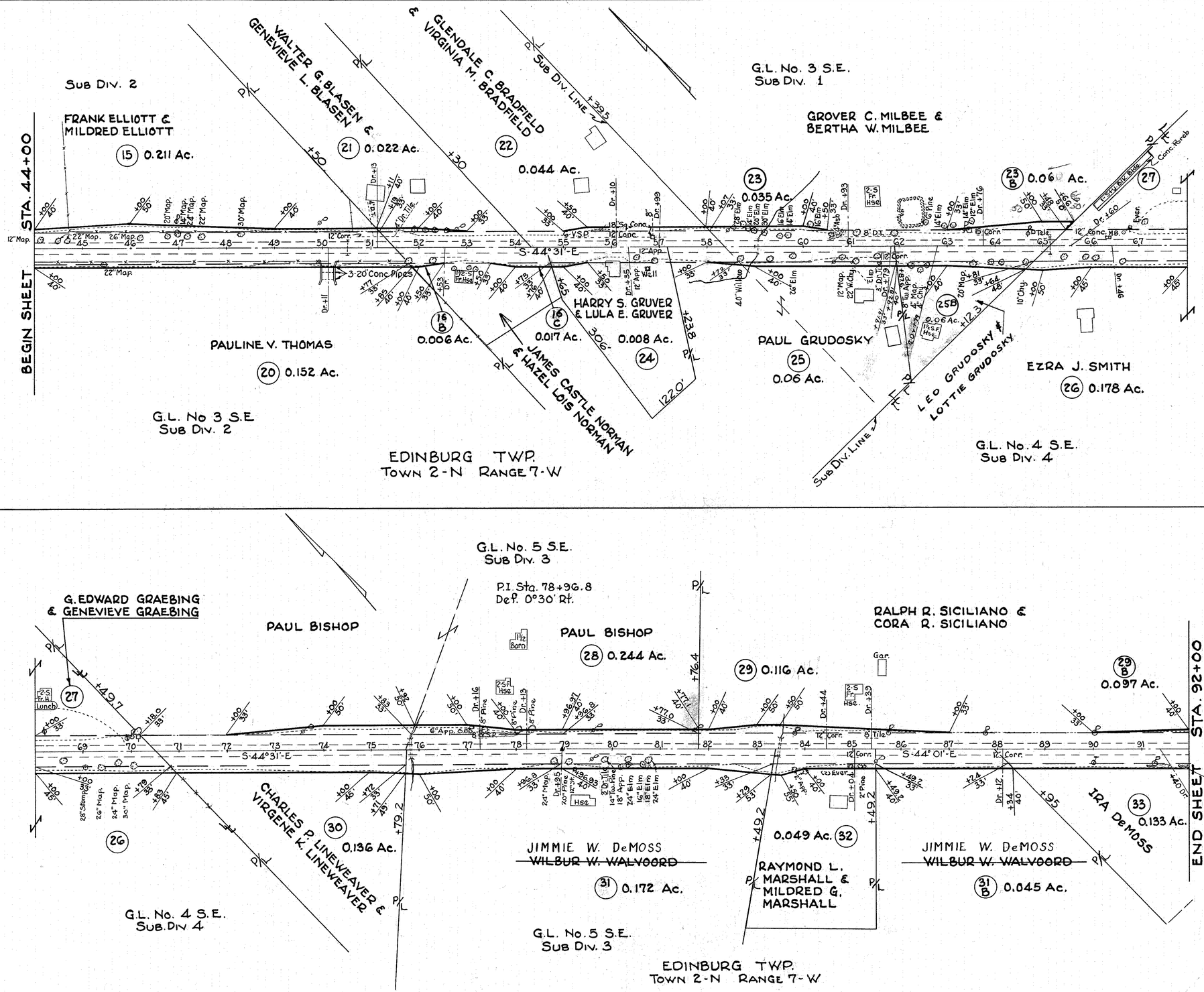
Dr. +00

Dr. +00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

2

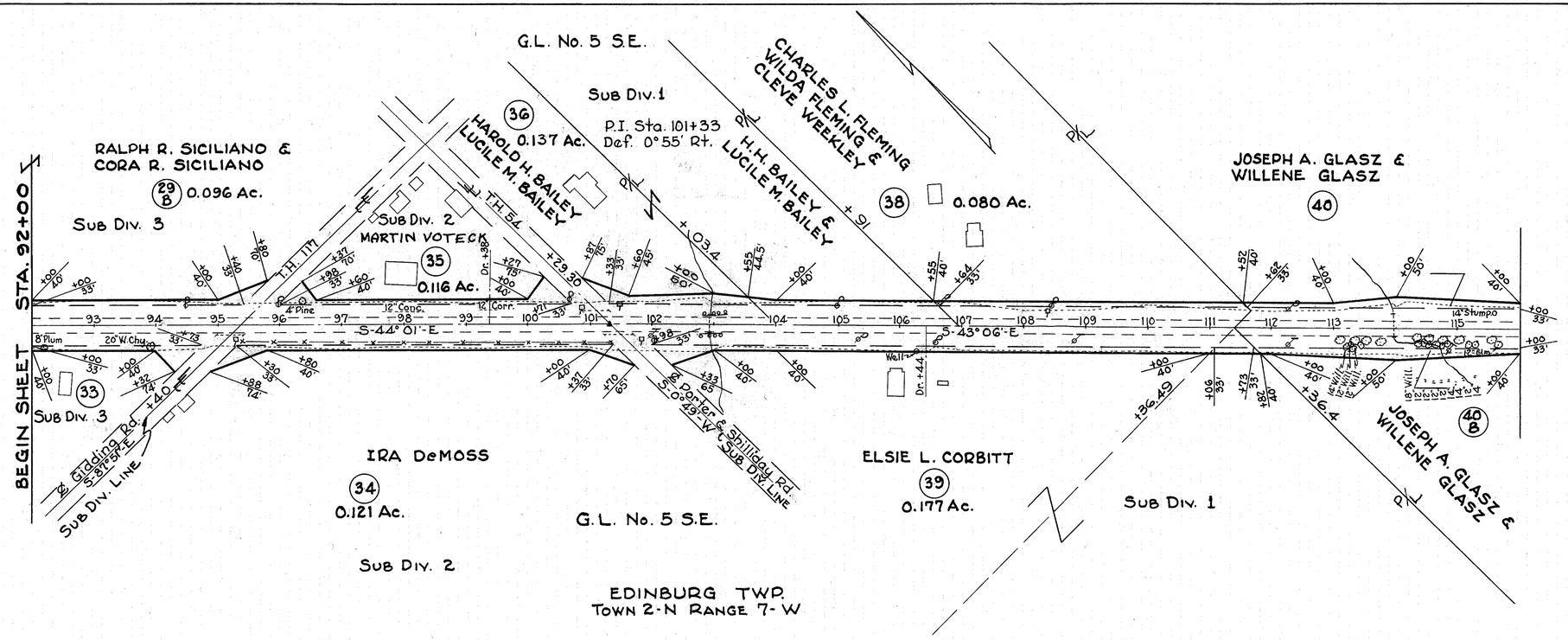
POR-14-18.03

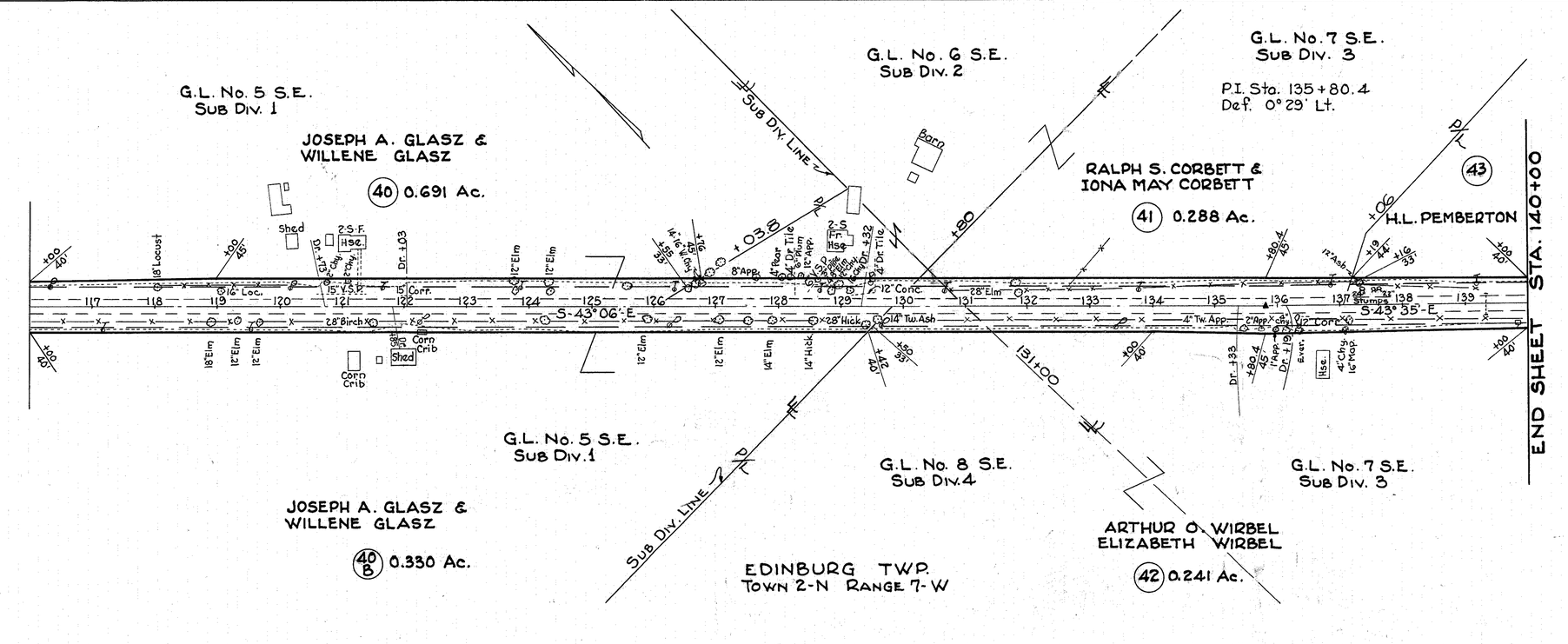


FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

3
8

POR-14-18.03



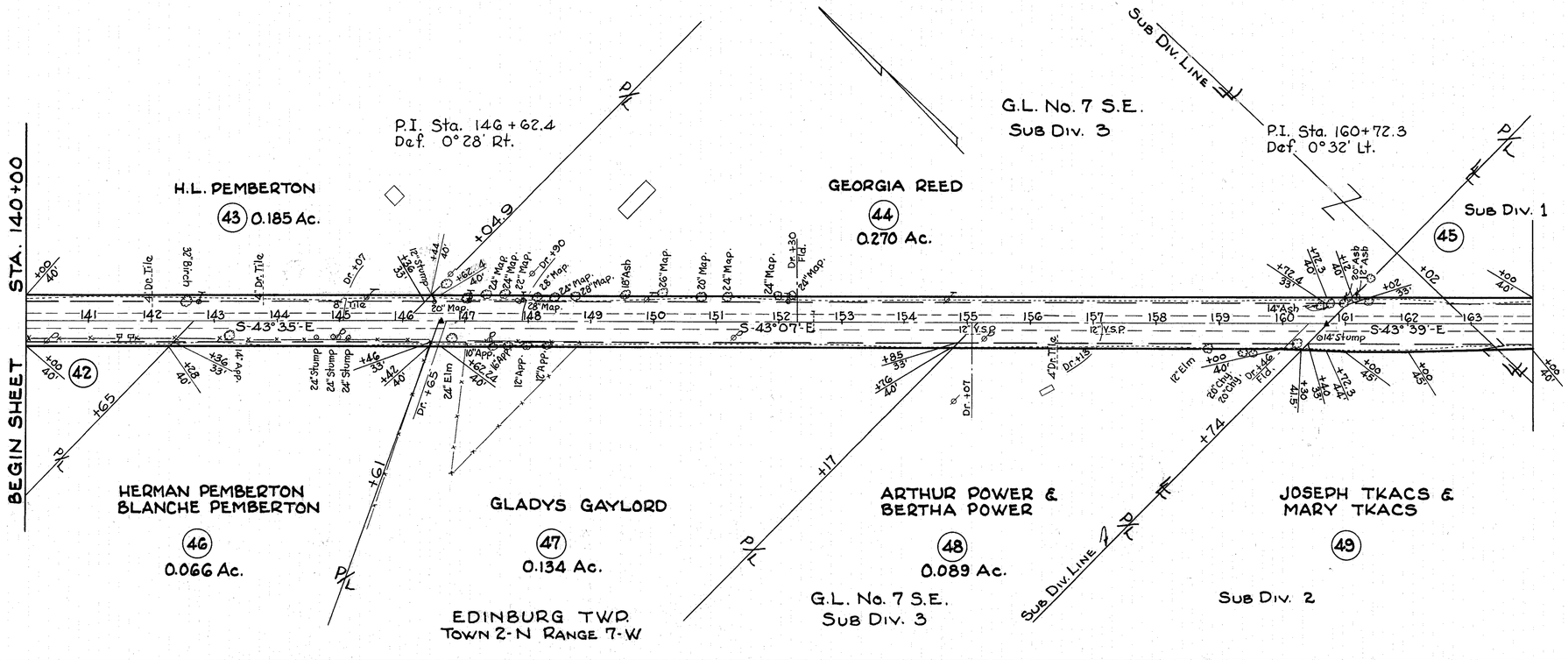


RIGHT-OF-WAY STA. 92+00 TO STA. 140+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

4 / 8

POR-14-18.03



RIGHT-OF-WAY STA. 140+00 TO STA. 188+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

5
8

POR-14-18.03

EDINBURG TWP.
TOWN 2-N RANGE 7-W

P.I. Sta. 191+86.1
Def. 0°30' Lt.

PALMYRA TWP.
TOWN 2-N RANGE 6-W

DEERFIELD TWP.
TOWN 1-N RANGE 6-W
LOT 97

BEGIN SHEET STA. 188+00

Township Line

Alliance-Yale-North Rd. S.R. 225 60' R/W

C.H. 55-A 40' R/W

Township Line

Hunsicker Allotment 5-A P.B. 9 Pg.

FRANCIS A. HUNSICKER

JOSEPH TKACS & MARY TKACS

45

ALICE SHILLIDAY

51
0.099 Ac.

ANNIE BETTY FRENCH

50
0.037 Ac.

52
0.122 Ac.

WILLIAM HERRON & GLADYS HERRON

53
0.095 Ac.

54
0.228 Ac.

Dd. Line

Barn
Res.
Res. & Store
Gar's Sta.
Gar.
Shed

S-43°39'-E
S-44°09'-E

JOSEPH TKACS & MARY TKACS
Yale-Lloyd Rd. ± BG.

49

BOARD OF COUNTY COMMISSIONERS

55

PLIMON E. NORTON & ESTELLE NORTON

57

56

CLARENCE ENO & ALICE ENO

ESTELLE NORTON

58
0.149 Ac.

PEARL HAIMERL

59
0.135 Ac.

PETER J. TWARK
MARY J. TWARK

60
0.265 Ac.

ADAM W. STARCHER & GENEVA STARCHER

61
0.132 Ac.

ATWATER TWP.
TOWN 1-N RANGE 7-W
G.L. No. 8

Township Line

DEERFIELD TWP.
TOWN 1-N RANGE 6-W

LOT No. 96

LOT 97

P.I. Sta. 226+61.6
Def. 0°28' Lt.

CYRUS W. HERRON & ALICE HERRON

0.349 Ac. 62

54

Sheds
Gar.
2-S Hse
2-S-F Hse
Buried Cable

S-44°09'-E

ADAM W. STARCHER & GENEVA STARCHER

61

Am. T & T Co.

PETER J. TWARK & MARY J. TWARK

62 B
0.365 Ac.

HARRY KORPITA & MARY KORPITA

63
0.083 Ac.

63 B
0.059 Ac.

Gar.
1-S-F Hse
Res.
Wall

S-44°37'-E

END SHEET STA. 236+00

LOT 95

64 B

CLARENCE ENO

LOT 98

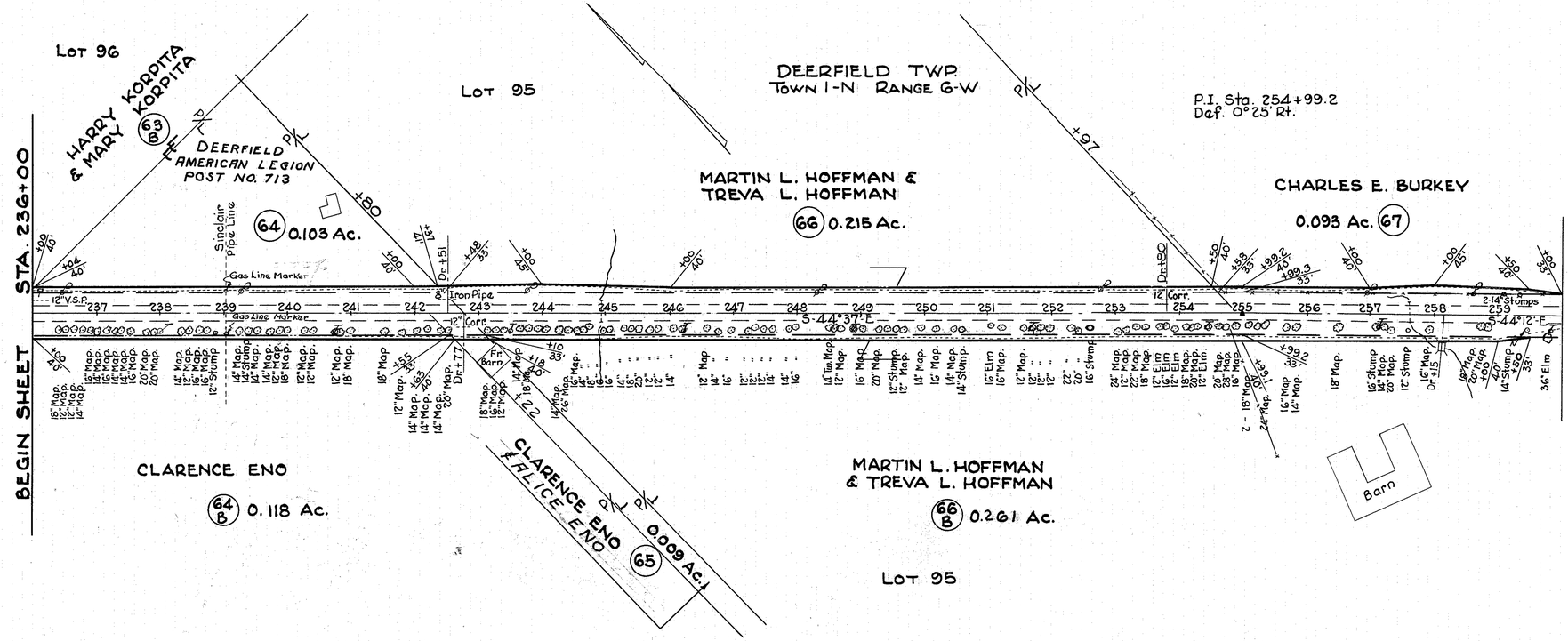
LOT 97

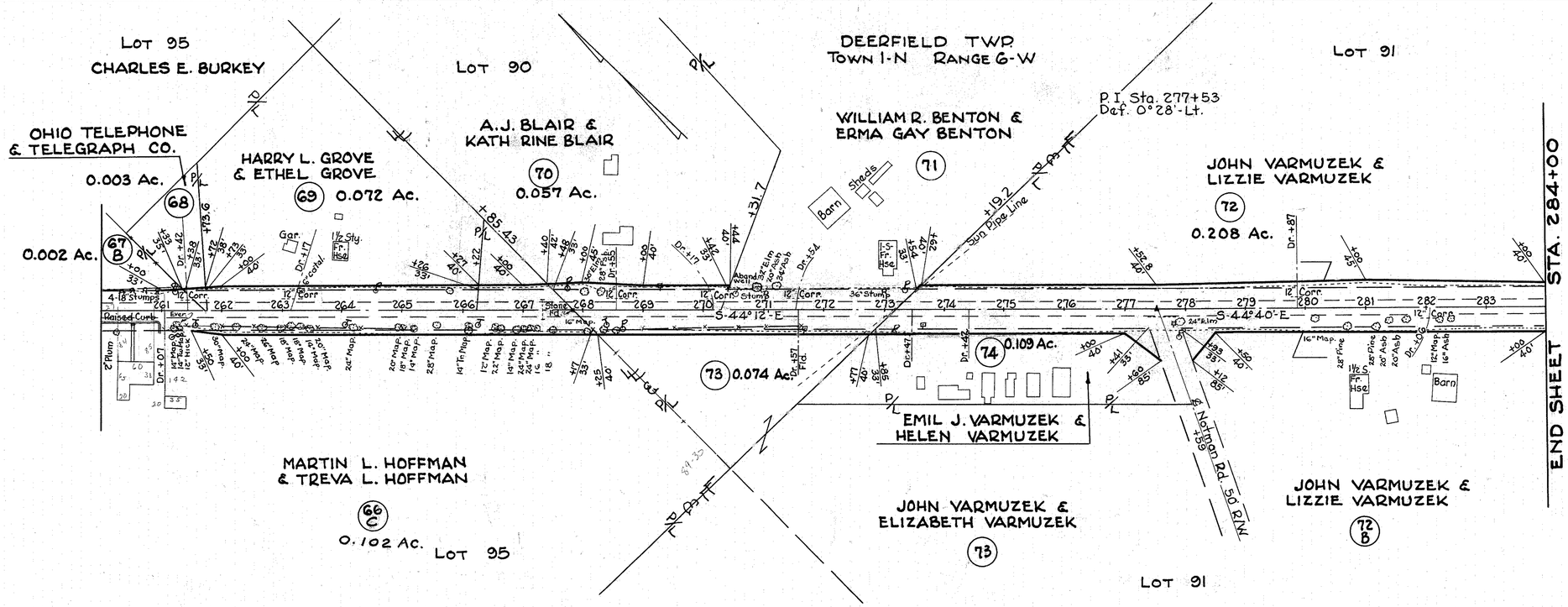
RIGHT-OF-WAY STA. 188+00 TO STA. 236+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

6
8

POR - 14 - 18.03





RIGHT-OF-WAY STA. 236+00 TO STA. 284+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

7
8

POR-14-18.03

DEERFIELD TWP.
TOWN 1-N RANGE 6-W
LOT 91

LOT 86

JOHN VARMUZEK &
LIZZIE VARMUZEK
72X 0.071 Ac.

72 0.353 Ac.

E. Wilcox-Wayland Rd. +70 - 60' R/W

RICHARD E. CARVER &
BARBARA LEA CARVER
77

STA. 284+00

BEGIN SHEET

30" C.I.P. & 30 V.S.P.

10" Corr.

S-44°40'-E

12" Corr.

Barn

JOHN VARMUZEK &
LIZZIE VARMUZEK
72B 0.224

JESSE L. CARVER
75 0.187 Ac.

LOT 91

EDNA D. WILCOX N.KA.
EDNA D. WILCOX HALE
76 0.143 Ac.

Gar.

Fld. Dr. +73

HARRY E. LORDEN
78

LOT 86

LOT 86

LOT 85

DEERFIELD TWP.
TOWN 1-N. RANGE 6-W

RICHARD E. CARVER &
BARBARA LEA CARVER
77 0.230 Ac.

BERNICE M. KALTENBACH
79
0.310 Ac.

P.I. Sta. 329+78.6
Def. 0°16' Rt.

HOMER I. WELKER &
BERNICE M. WELKER
80 0.137 Ac.

Barn

HARRY E. LORDEN
78 0.103 Ac.

S-44°40'-E

12" Corr.

S-44°24'-E

12" Pipe

JESSE L. CARVER
81 0.154 Ac.

LOT 85

ROBERT ABBUHL &
TWILA ABBUHL
82 0.055 Ac.

81B
0.040 Ac.

EDNA D.
WILCOX
HALE
83
0.031 Ac.

Gar.

WARNER E. ARONHALT &
LETHA B. ARONHALT
84

END SHEET

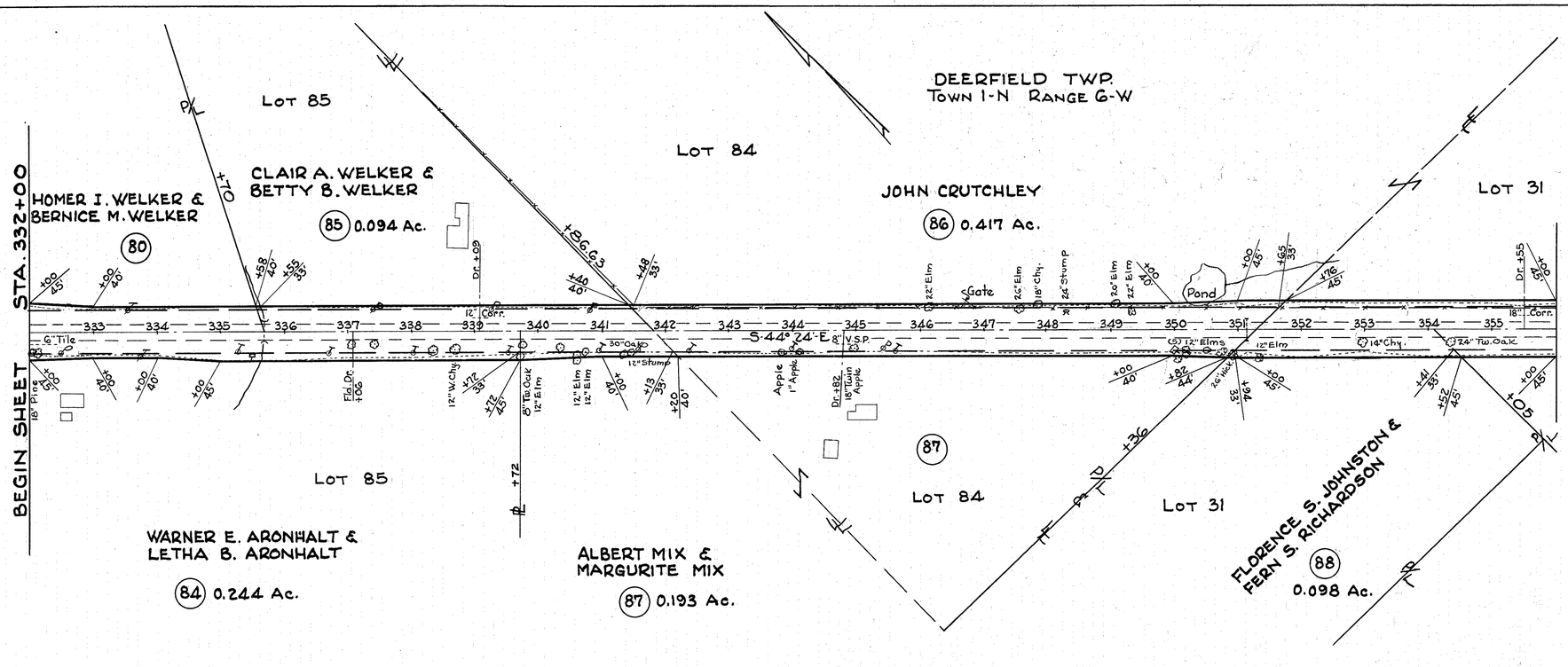
STA. 332+00

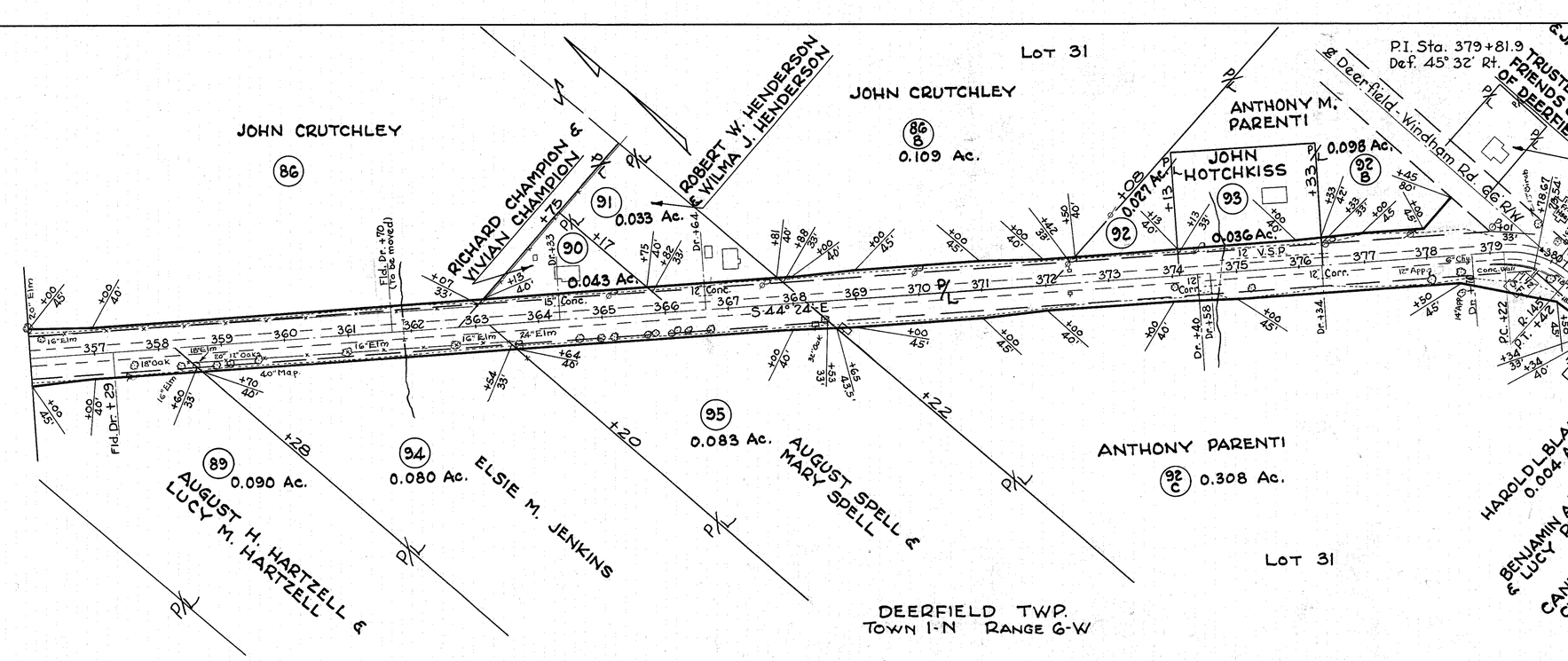
RIGHT-OF-WAY STA. 284+00 TO STA. 332+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

8
8

POR-14-18.03





RIGHT-OF-WAY STA. 332+00 TO STA. 384+25

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	STATE	

1/100

POR-14-18.03

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
POR-14-(18.03)
PORTAGE COUNTY
EDINBURG-ATWATER & DEERFIELD TOWNSHIPS

352-E

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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PLAN & PROFILE	5-21
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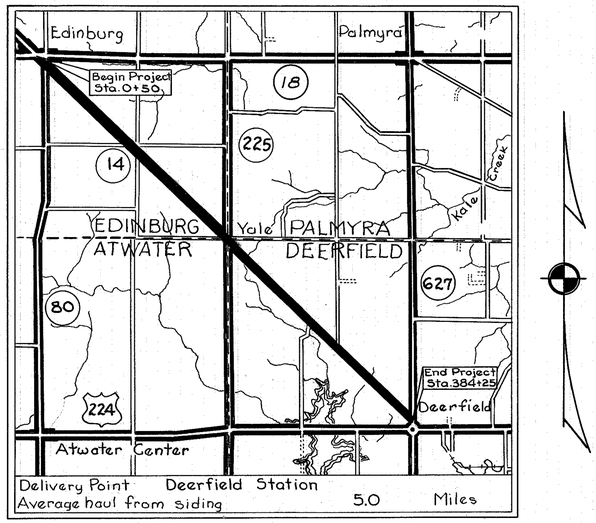
RIGHT-OF-WAY	93-100



LOCATION MAP
SCALE 1" = 1 MILE

LINE DATA

BEGIN WORK AND PROJECT STA. 0+50
END WORK AND PROJECT STA. 384+25

NET LENGTH OF WORK AND PROJECT = 38375 L.F.
OR 7.267 MILES

Portion to be improved
State Roads
Other Roads

SCALES

PLAN	1" = 100'
PROFILE-HORIZONTAL	1" = 100'
PROFILE-VERTICAL	1" = 10'
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 W. L. [signature]
Date 2-9-1956 Division Deputy Director

Approved John J. Heer [signature]
Date 3-9-56 Deputy Director of Planning & Programming

Approved
Date Engineer of Bridges

Approved E. S. Preston
Date 3-7-56 Engineer of Location & Design

Approved H. F. Gerold
Date 3-7-56 Deputy Director of Design & Construction

Approved V. F. Chamblin
Date 3-9-56 First Assistant Director

Approved [signature]
Date 3-12-56 Director of Highways

CONSTRUCTION BUREAU
AUG 5 1959
GROUND PHOTOLAB

528

Supplemental Prints of Standard Construction Drawings					
L-1	4-1-50	S-27 P.C. 4	1-4-54	G-7.07	1-2-53
L-3	4-1-50	I-1,2,3,4 & 5	2-20-45	I-15 No. 1	8-1-55
L-3A	4-1-50			I-15 No. 2	12-1-54
DR-1	1-3-55	I-8 C.B. 2-3 & 2-4	5-1-52	SBC-45 Shts. 1 & 2	9-18-47
RI-1	1-3-55	I-8 C.B. No. 7	5-1-52	STC-47	9-18-47
T-35	1-2-56	I-14G	1-22-52	SB-1-47	1-20-48
S-27 P.C. 3	2-20-45	L.J. No. 1	7-1-55		

Supplemental Specifications		
L-209.12	7-17-54	
6	12-28-55	

FILE No. 528
POR-14-(18.03)
DATE OF LETTING:
CONTRACT NO.

TITLE SHEET

S.R. 14

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

1

POR-14-18.03

BEGIN SHEET STA. 0-400

P.I. Sta. 0+00
Def. 0°08' Lt.

G.L. No. 25 N.W.

G.L. No. 25 N.W.

N. 88° 40' E

+00

CHARLES RAY ALDRICH

5

6

2-Sty. Brick School Bld.

H.B. GARDNER JR. & CLARA M. GARDNER

S.R. 18

RUTH N. ELLIO

1

2-Sty. Fr. Bld.

1-Sty. Bldg.

2-Sty. Fr. Bld.

Gas Pumps

Conc. Is. & Pumps

Blk. Top

Pumps

Conc.

Dr.

G.L. No. 3 S.W.
Sub. Div. 1

CHARLES D. DAVIS

2

Rest.

Sign

12" Map.

20" Map.

22" Map.

6" V.S.P.

10" Corr.

14" Wal.

2-S.F. Hse

Gar.

Dr. +98 Aband.

+30

7

MARIE B. BUEHLER

8

Sub Div. Line

Sub Div. 2

+79

Dr. +18

+31.74

S.R. 80

G.L. No. 3 S.E.
Sub Div. 4

P.I. Sta. 9+31.7
Def. 0°26' Lt.

PAULINE FAGERT

3 0.033 Ac.

3B

Barn

Gar. 0.019 Ac.

Septic Tank

ROBERT L. THOMAS & BETTY LEE THOMAS

4 0.101 Ac.

Barn

Drain Tile

Dr. +117

Dr. +30

Dr. +138

Dr. +67

Dr. +32

4" Dr.

Dr. +38 8" Elm

8" Pipe

12" Birch

12" W.Chy.

30" Map.

24" Map.

26" Map.

18" Map.

16" Map.

12" Map.

8" Pine

8" Tile

6" Dr. Tile

S-44°11'-E

S.R. 14

Sani Sewer

M.H.

Pumps

Dr. +98

Dr. +105

Dr. +67

Dr. +132

10

HEDWIG GORAY

12" Oak

18" Pipe

Sub Div. Line

RALPH LAZEAR

11 0.088 Ac.

G.L. No. 3 S.E.
Sub Div. 4

DR. R.K. NABOURS & MAYME DAVIS NABOURS

9

G.L. No. 3 S.W.
Sub Div. 1

EDINBURG TWP.
TOWN 2-N RANGE 7-W

EDINBURG TWP.
TOWN 2-N RANGE 7-W

Sub Div. Line

Sub Div. 4

ADOLPH F. SCHAER & RUTH E. SCHAER

12 0.122 Ac.

4

+39

4" Fld. Dr.

24" W.Chy

Dr. Tile

10" Drain Tile

22" Map

24" Map

18" Map

20" Map

1-Sty. Hse.

Gar.

18" Elm

12" Elm

THOMAS C. BOTHEL & JENNIE LEE BOTHEL

17

MAUDE M. THOMS
LLOYD L. THOMS &
CORRINE Y. THOMS

0.050 Ac.

Sub Div. 4

G.L. No. 3 S.E.
Sub Div. 3

P.I. Sta. 32+68.6
Def. 0°20' Lt.

12 X 0.034 Ac.

13 0.043 Ac.

EFFIE KISTLER

JOSEPH GRUDOWSKY & MARYANNA GRUDOWSKY

18 0.088 Ac.

G.L. No. 3 S.E.
Sub Div. 3

Sub Div. 2

FRANK ELLIOTT & MILDRED ELLIOTT

15

Pond

Silo

Barn

Gar

14 X 0.088 Ac.

CARRIE L. GOURLEY

14 0.183 Ac.

Dr. +80

20" Map.

8" Pine

2" App.

24" Map.

16" Map.

Dr. +107

Dr. +55

Dr. +64

Dr. +67

Dr. +87

Dr. +66

Dr. +85

Dr. +145

Dr. +65

Dr. +104

Dr. +100

Dr. +68.6

Dr. +28.6

Dr. +08

Dr. +56

Dr. +63

Dr. +37

Dr. +30

Dr. +39

Dr. +97

Dr. +00

Dr. +68

Dr. +72

Dr. +19

Dr. +05

Dr. +00

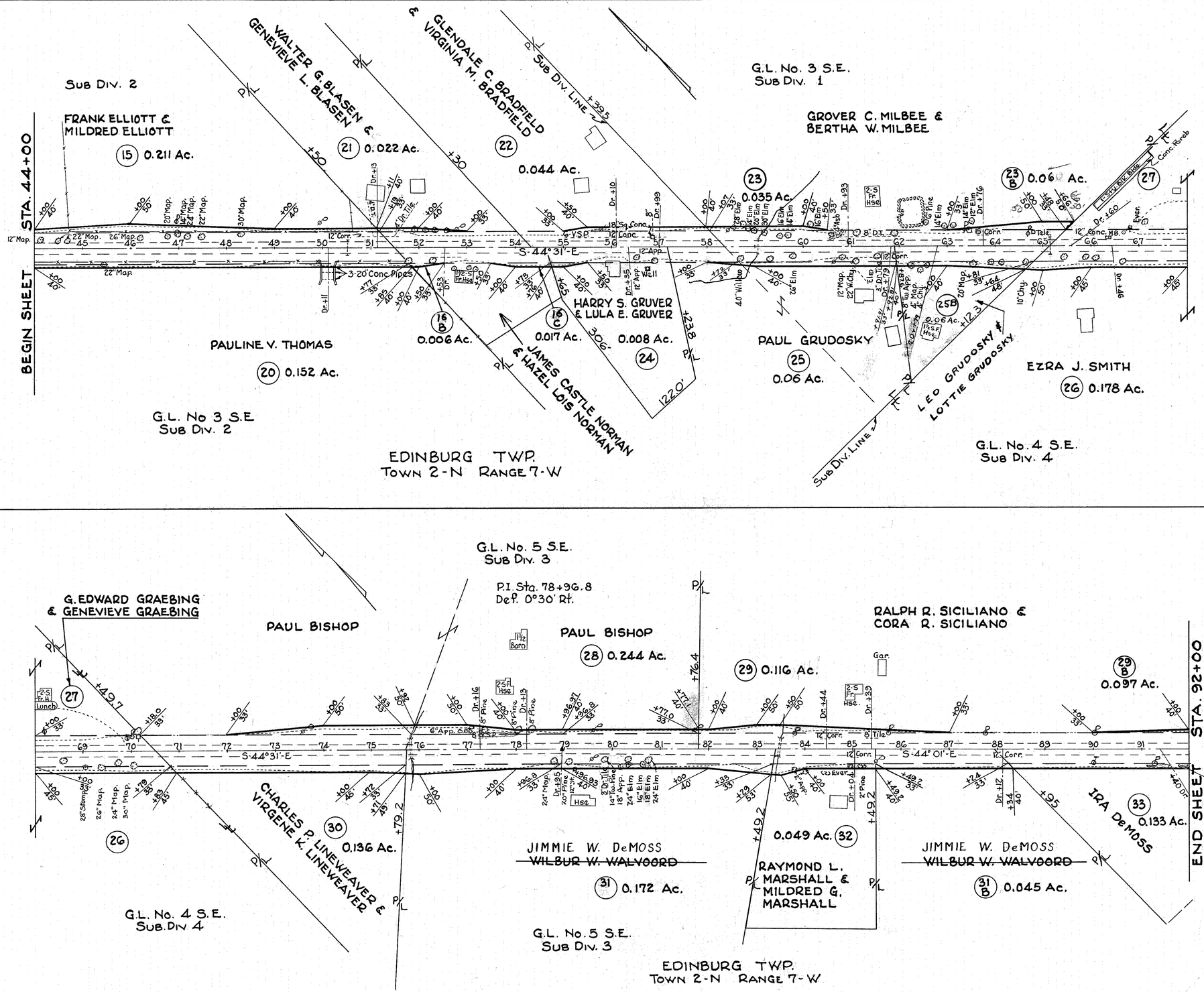
Dr. +00

Dr. +00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

2

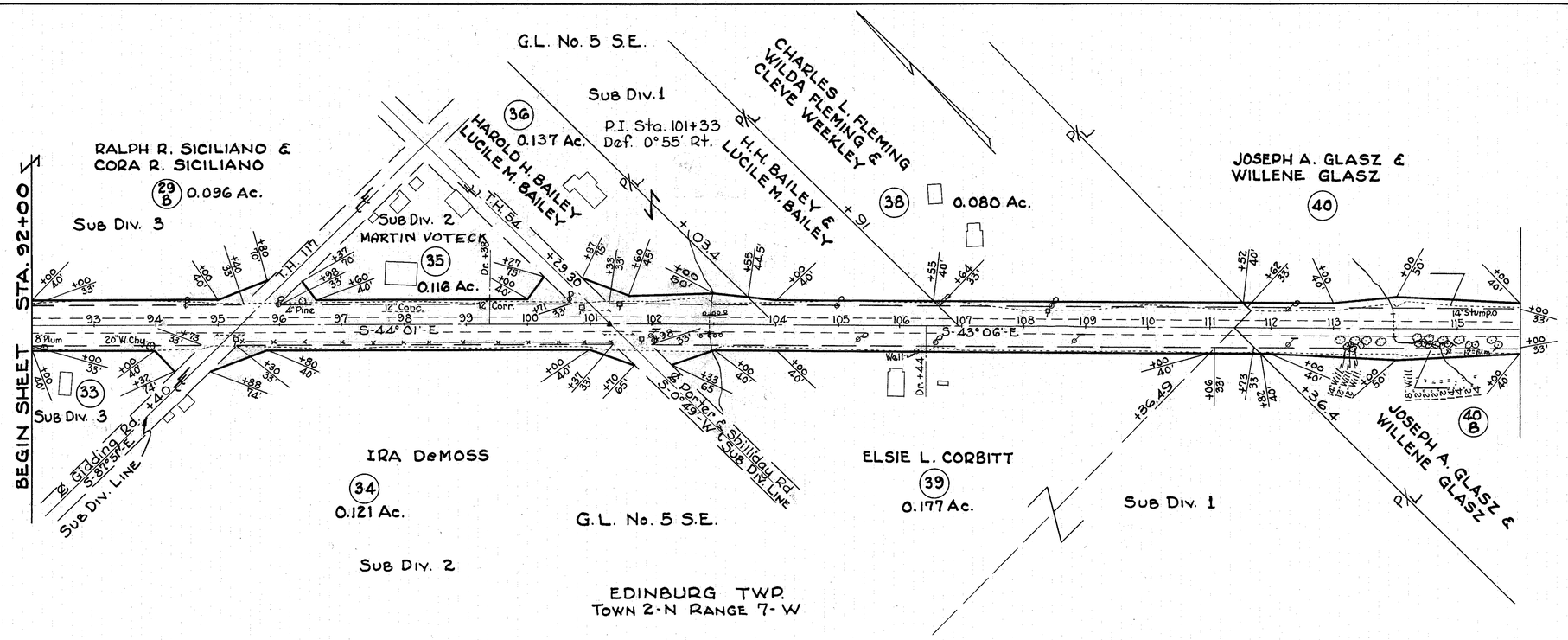
POR-14-18.03

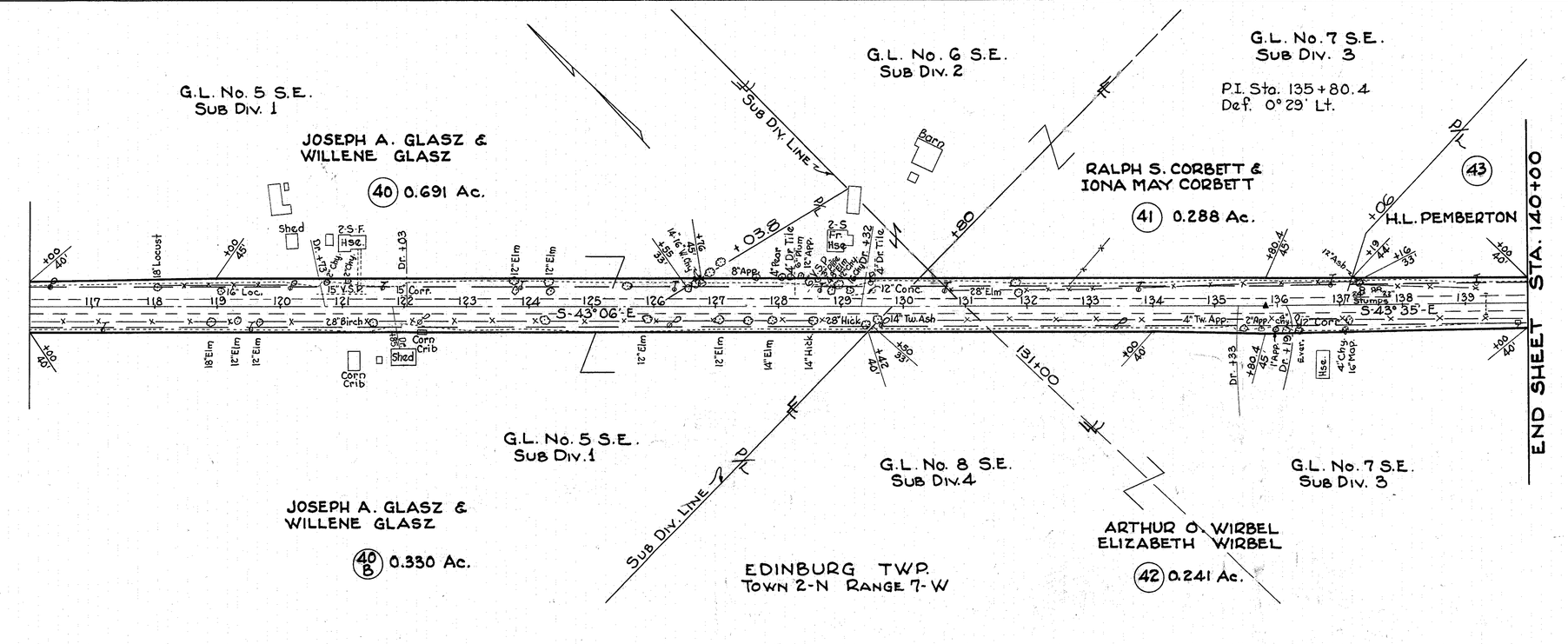


FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

3
8

POR-14-18.03



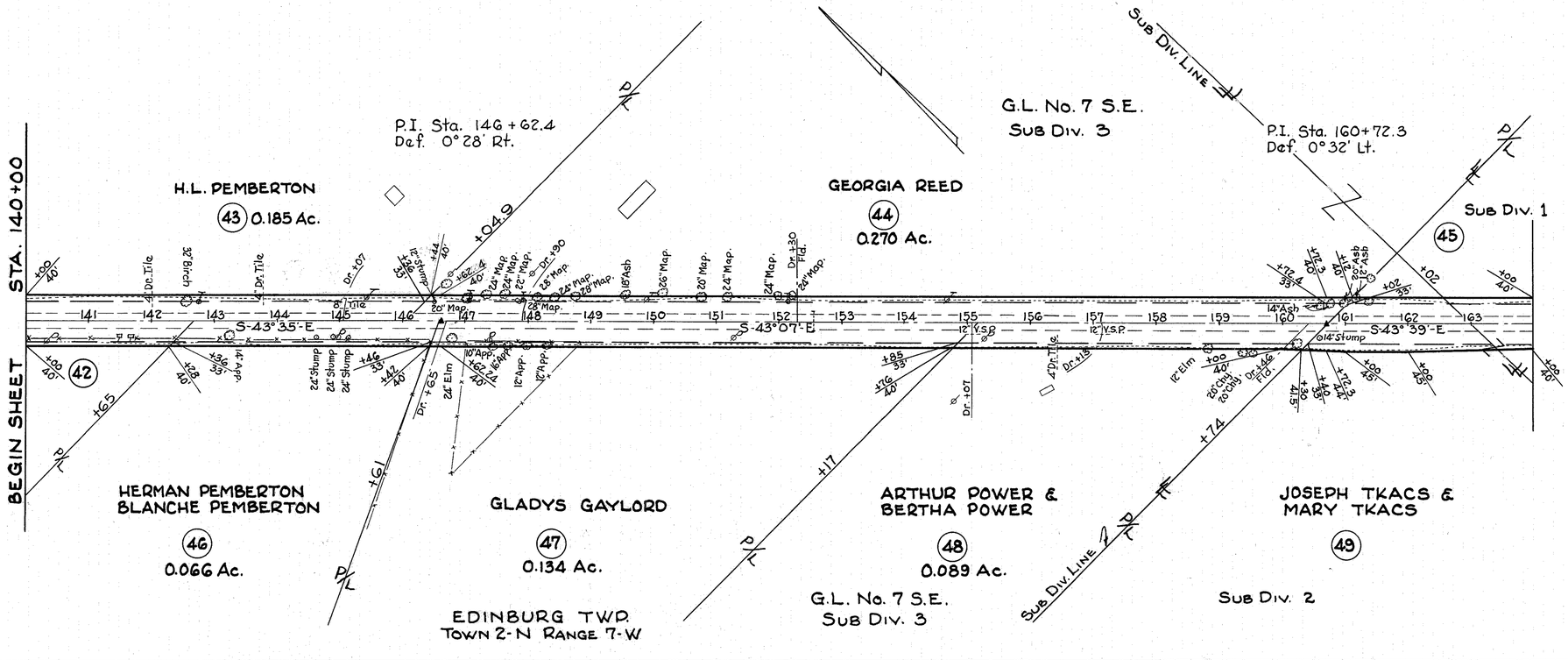


RIGHT-OF-WAY STA. 92+00 TO STA. 140+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

4 / 8

POR-14-18.03



RIGHT-OF-WAY STA. 140+00 TO STA. 188+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

5
8

POR-14-18.03

EDINBURG TWP.
TOWN 2-N RANGE 7-W

P.I. Sta. 191+86.1
Def. 0°30' Lt.

PALMYRA TWP.
TOWN 2-N RANGE 6-W

DEERFIELD TWP.
TOWN 1-N RANGE 6-W
LOT 97

BEGIN SHEET STA. 188+00

Township Line

Alliance-Yale-North Rd. S.R. 225 60' R/W

C.H. 55-A 40' R/W

Township Line

Hunsicker Allotment 5-A P.B. 9 Pg.

FRANCIS A. HUNSICKER

JOSEPH TKACS & MARY TKACS

45

ALICE SHILLIDAY

51
0.099 Ac.

ANNIE BETTY FRENCH

50
0.037 Ac.

52
0.122 Ac.

WILLIAM HERRON & GLADYS HERRON

53
0.095 Ac.

54
0.228 Ac.

Dd. Line

Barn
Res.
Res. & Store
Gar's Sta.
Gar.
Shed

S-43°39'-E
S-44°09'-E

JOSEPH TKACS & MARY TKACS
Yale-Lloyd Rd. ± BG.

49

BOARD OF COUNTY COMMISSIONERS

55

PLIMON E. NORTON & ESTELLE NORTON

57

56

CLARENCE ENO & ALICE ENO

ESTELLE NORTON

58
0.149 Ac.

PEARL HAIMERL

59
0.135 Ac.

PETER J. TWARK
MARY J. TWARK

60
0.265 Ac.

ADAM W. STARCHER & GENEVA STARCHER

61
0.132 Ac.

ATWATER TWP.
TOWN 1-N RANGE 7-W
G.L. No. 8

Township Line

DEERFIELD TWP.
TOWN 1-N RANGE 6-W

LOT No. 96

LOT 97

P.I. Sta. 226+61.6
Def. 0°28' Lt.

CYRUS W. HERRON & ALICE HERRON

0.349 Ac. 62

54

Sheds
Gar.
2-S Hse
2-S-F Hse
Buried Cable

S-44°09'-E

ADAM W. STARCHER & GENEVA STARCHER

61

Am. T & T Co.

PETER J. TWARK & MARY J. TWARK

62 B
0.365 Ac.

HARRY KORPITA & MARY KORPITA

63
0.083 Ac.

63 B
0.059 Ac.

Gar.
1-S-F Hse
Res.
Wall

S-44°37'-E

END SHEET STA. 236+00

LOT 95

64 B

CLARENCE ENO

LOT 98

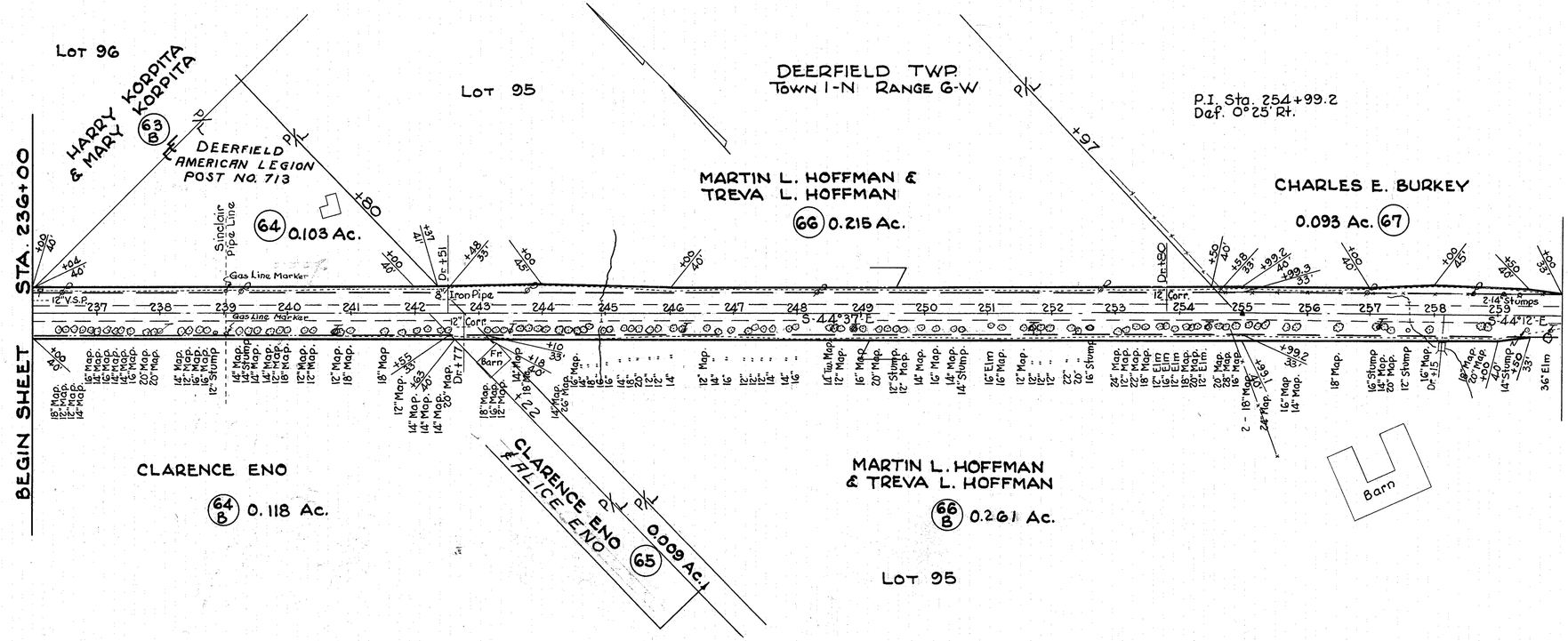
LOT 97

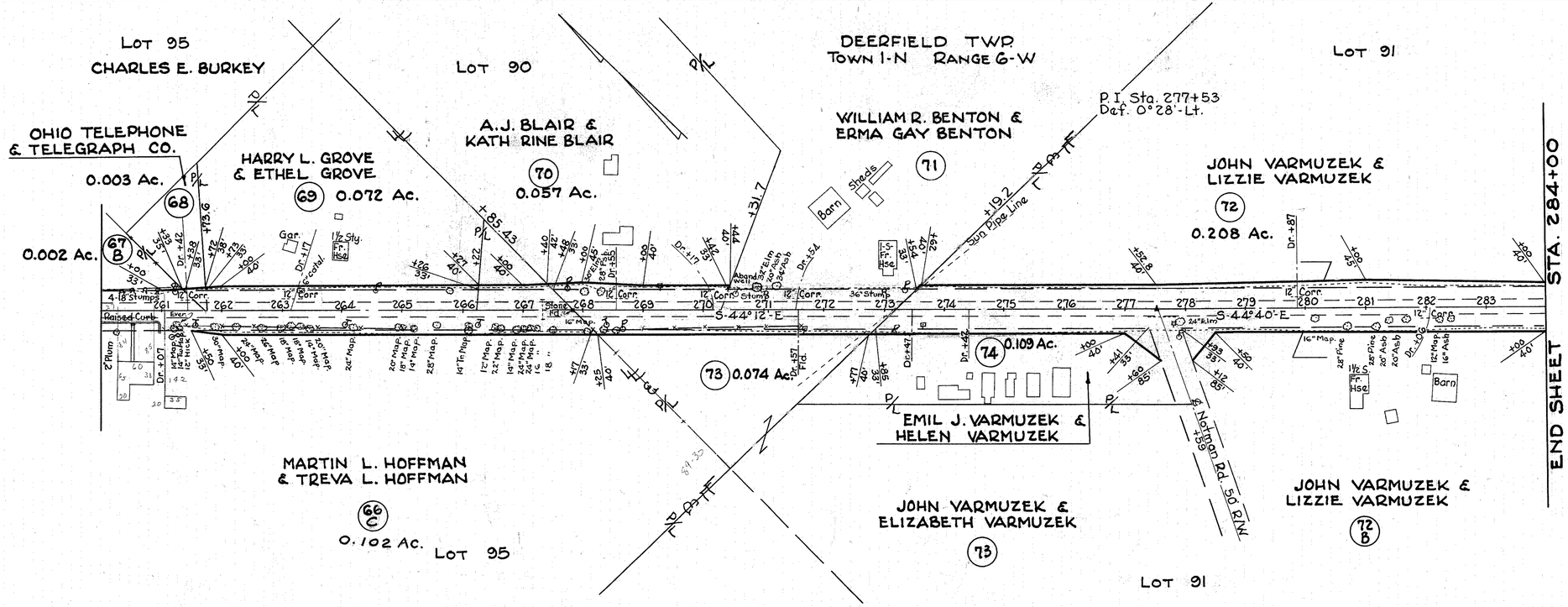
RIGHT-OF-WAY STA. 188+00 TO STA. 236+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

6
8

POR - 14 - 18.03





RIGHT-OF-WAY STA. 236+00 TO STA. 284+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

7
8

POR-14-18.03

DEERFIELD TWP.
TOWN 1-N RANGE 6-W
LOT 91

LOT 86

JOHN VARMUZEK &
LIZZIE VARMUZEK
72X 0.071 Ac.

72 0.353 Ac.

E. Wilcox-Wayland Rd. +70 - 60' R/W

RICHARD E. CARVER &
BARBARA LEA CARVER
77

STA. 284+00

BEGIN SHEET

30" C.I.P. & 30 V.S.P.

10" Corr.

S-44°40'-E

12" Corr.

Barn

JOHN VARMUZEK &
LIZZIE VARMUZEK
72B 0.224

JESSE L. CARVER
75 0.187 Ac.

LOT 91

EDNA D. WILCOX N.KA.
EDNA D. WILCOX HALE
76 0.143 Ac.

Gar.

Fld. Dr. +73

HARRY E. LORDEN
78

LOT 86

LOT 86

LOT 85

DEERFIELD TWP.
TOWN 1-N. RANGE 6-W

RICHARD E. CARVER &
BARBARA LEA CARVER
77 0.230 Ac.

BERNICE M. KALTENBACH
79
0.310 Ac.

P.I. Sta. 329+78.6
Def. 0°16' Rt.

HOMER I. WELKER &
BERNICE M. WELKER
80 0.137 Ac.

Barn

HARRY E. LORDEN
78 0.103 Ac.

S-44°40'-E

12" Corr.

S-44°24'-E

12" Pipe

JESSE L. CARVER
81 0.154 Ac.

LOT 85

ROBERT ABBUHL &
TWILA ABBUHL
82 0.055 Ac.

81B
0.040 Ac.

EDNA D.
WILCOX
HALE
83
0.031 Ac.

Gar.

WARNER E. ARONHALT &
LETHA B. ARONHALT
84

END SHEET

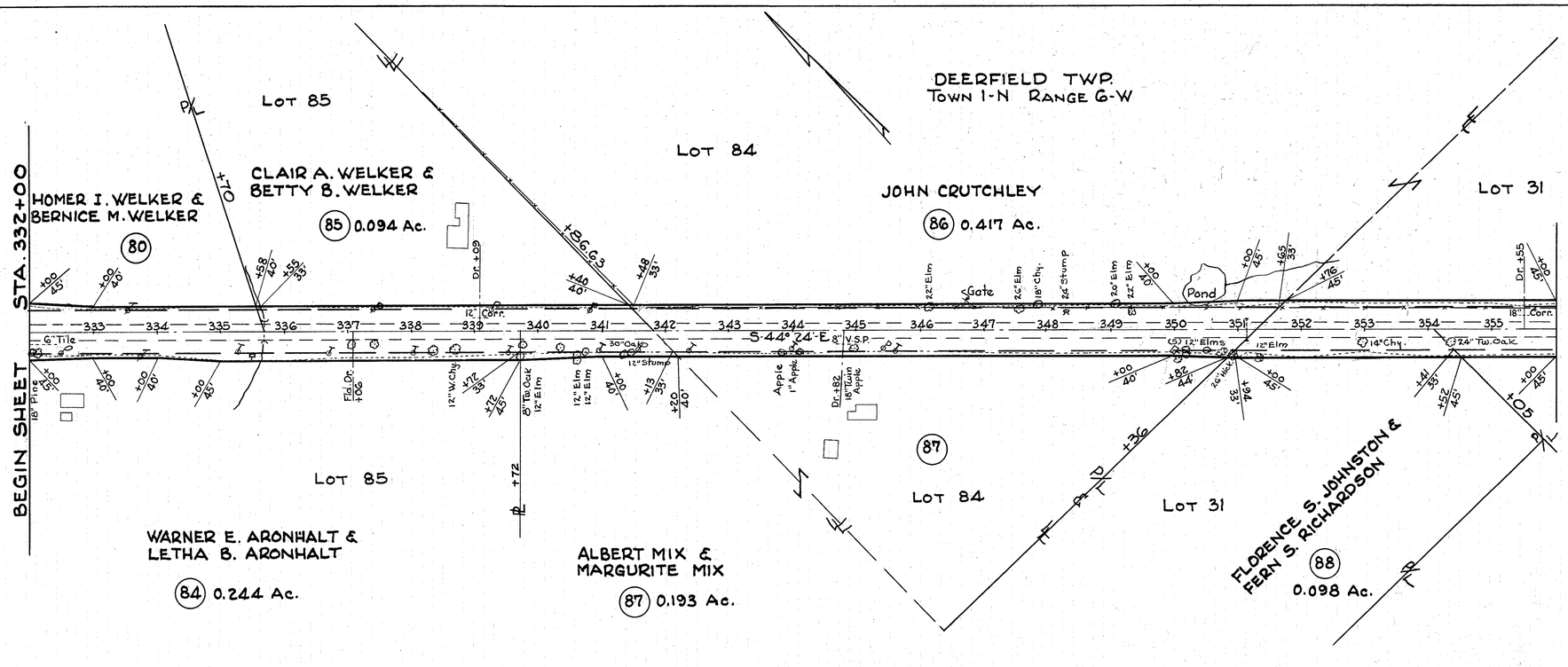
STA. 332+00

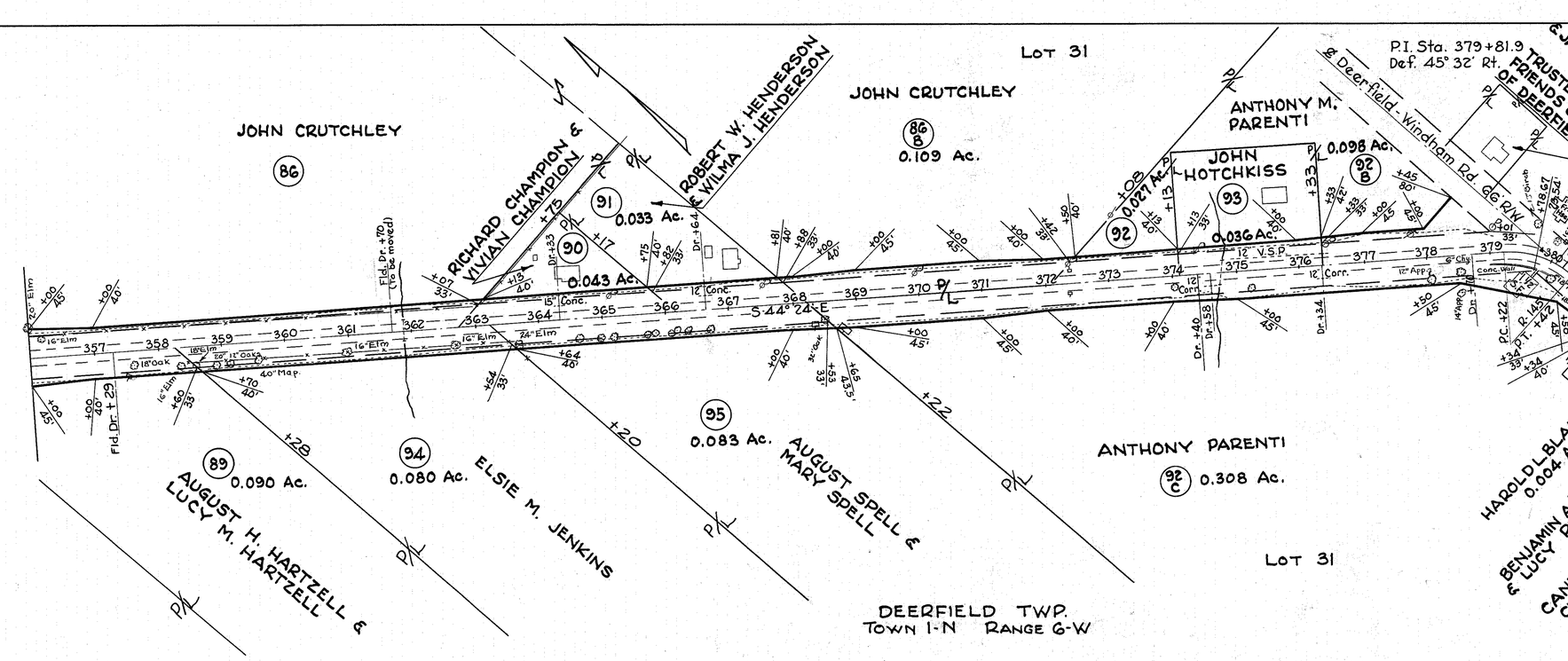
RIGHT-OF-WAY STA. 284+00 TO STA. 332+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

8
8

POR-14-18.03



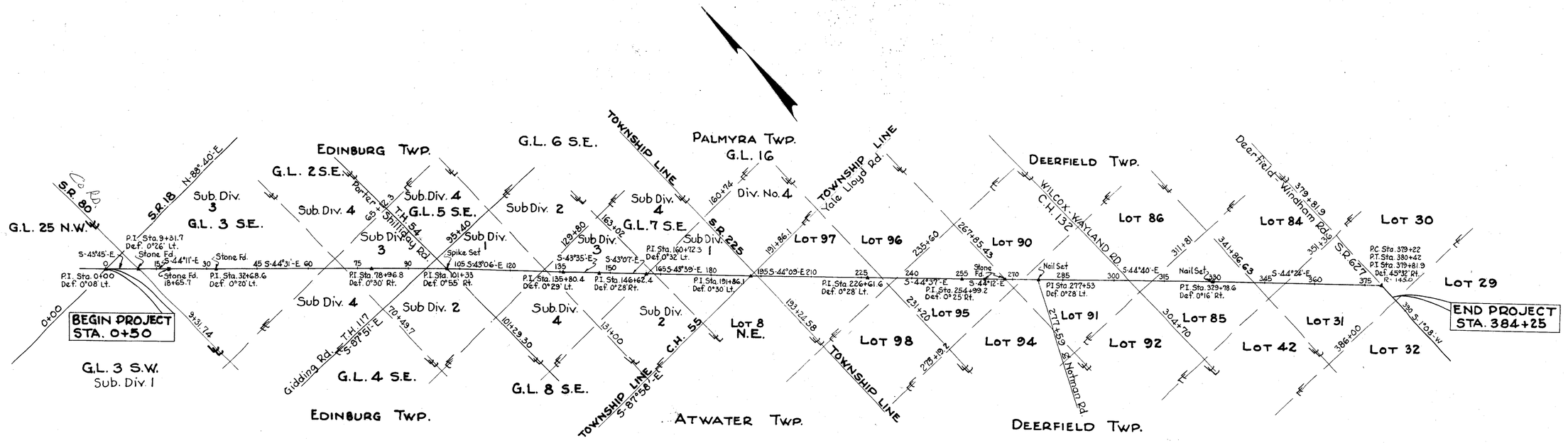


RIGHT-OF-WAY STA. 332+00 TO STA. 384+25

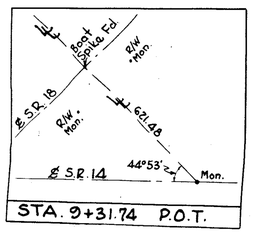
14-POR.-18.03

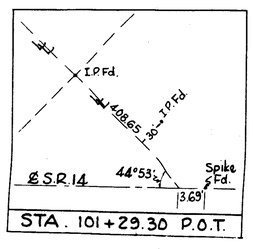
LOCATION PLAT
POR-14-18.03
CLEVELAND-EAST LIVERPOOL RD.
PORTAGE COUNTY
EDINBURG-ATWATER-DEERFIELD TOWNSHIP

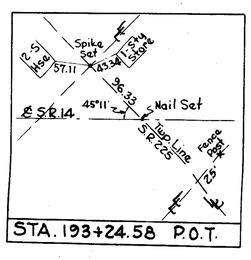
SCALE 1" = 1500'

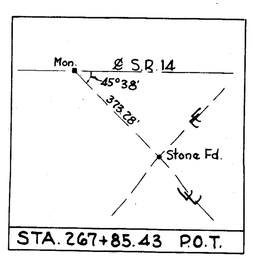


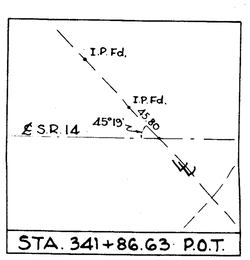
NOTE: Stones noted on centerline are set in Standard Monument Boxes and will not be disturbed by this project.











I HEREBY CERTIFY THIS PLAT TO BE CORRECT.
Signed By Earl L. Campbell
ACTING DIVISION DEPUTY DIRECTOR

Recieved For Record _____ _____ 19 ____
Recorded FEB 29 1956 Vol. 11 Page 18

PORTAGE COUNTY RECORDS
RECORDER.