



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

ROANOKE COUNTY

REVISED
DATE 7-18-43
BY 5-12-43

FED. ROAD DIST. NO.	STATE	FEDERAL AID ROUTE	PROJECT	STATE ROUTE	PROJECT	SHEET NO.	TOTAL SHEETS
14	VA.	3		220	118 AR-2	1	23

PROJ. AR-2
FROM 1.530 MI. S. OF S.C.L. OF ROANOKE
TO 6.065 MI. S. OF S.C.L. OF ROANOKE

SECTION B-1
SPECIAL DESIGN BRIDGE OVER BACK CREEK

SECTION B-2
20' ARCH CULVERT STANDARD AC-2

SECTION B-3
20' ARCH CULVERT STANDARD AC-2

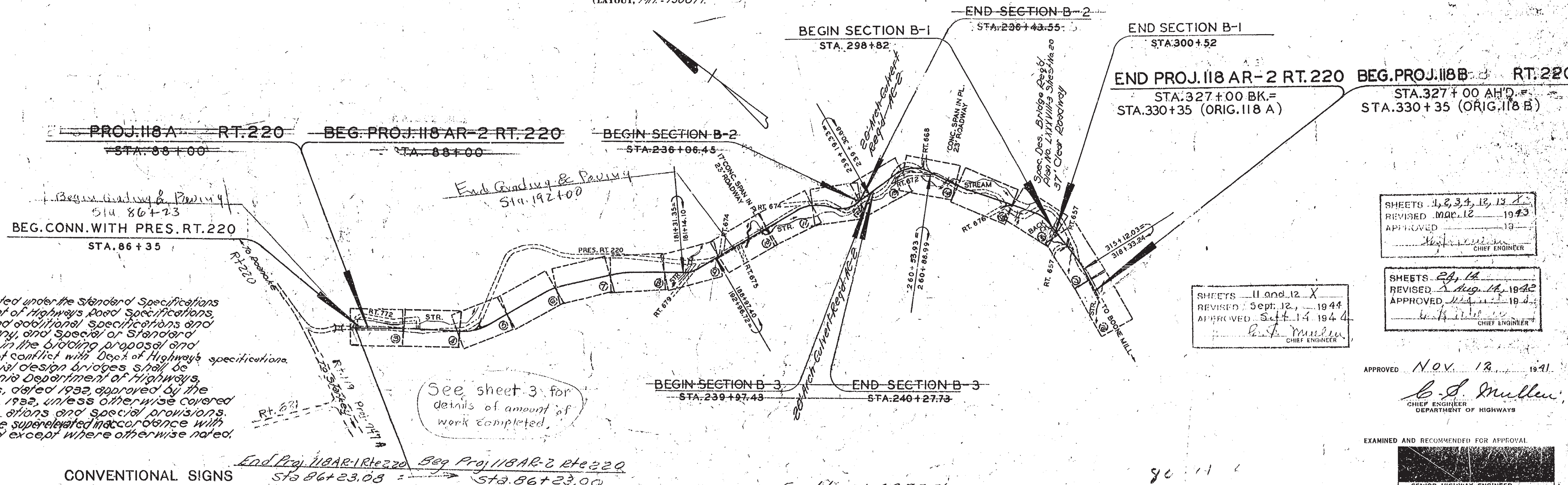
Sheet No.	Title Sheet
2-28	Summary Sheet
3	Plan & Profile Sta. 83+00 to Sta. 99+00
4	Supplementary Sheet 99+00 to 115+00
5	Supplementary Sheet 115+00 to 131+00
6	Supplementary Sheet 131+00 to 147+00
7	Supplementary Sheet 147+00 to 163+00
8	Supplementary Sheet 163+00 to 179+00
9	Supplementary Sheet 179+00 to 189+00
10	Supplementary Sheet 189+00 to 205+00
11	Supplementary Sheet 205+00 to 221+00
12	Supplementary Sheet 221+00 to 237+00
13	Supplementary Sheet 237+00 to 253+00
14	Supplementary Sheet 253+00 to 269+00
15	Supplementary Sheet 269+00 to 285+00
16	Supplementary Sheet 285+00 to 301+00
17	Supplementary Sheet 301+00 to 320+00
18	Supplementary Sheet 320+00 to 327+00
19	Remodeling of existing 20' Span Bridge 327+00 to 328+58
20-208	Special Design Bridge Plan No. LXXXVIII-3
Box	Culvert Stds.; C-2; C-7; AC-19 AC-2
III	Sheets of Cross Sections

CROSS SECTIONS
DESTROYED 1963

FROM 1.530 MI. S. OF S.C.L. OF ROANOKE TO 6.065 MI. S. OF S.C.L. OF ROANOKE

0.861

SCALES
PLAN, 1 IN. = 50 FT.
PROFILE, HOR. 1 IN. = 50 FT., VERT., 1 IN. = 10 FT.
LAYOUT, 1/4" = 100 FT.



This project to be constructed under the Standard Specifications of the Virginia Department of Highways Road Specifications, dated January 1, 1938, and additional specifications and special provisions, if any, and special or standard designs, as provided in the bidding proposal and contract, if they do not conflict with Dept. of Highways specifications, construction of special design bridges shall be governed by the Virginia Department of Highways Bridge Specifications, dated 1932, approved by the Bureau November 30, 1932, unless otherwise covered by additional specifications and special provisions. All curves are to be super-elevated in accordance with the Standard Method except where otherwise noted.

See sheet 3 for details of amount of work completed.

CONVENTIONAL SIGNS

STATE LINE	-----
COUNTY LINE	-----
CITY, TOWN OR VILLAGE	-----
RIGHT OF WAY LINE	-----
FENCE LINE	-----
UNFENCED PROPERTY LINE	-----
FENCED PROPERTY LINE	-----
TRAVELED WAY	-----
GUARD RAIL	-----
RETAINING WALL	-----
RAILROADS	-----
BASE OR SURVEY LINE	-----

LEVEE OR EMBANKMENT	-----
BRIDGES	-----
CULVERTS	-----
DROP INLET	-----
TROLLEY POLES	-----
POWER POLES	-----
TELEPHONE OR TELEGRAPH POLES	-----
MARSH	-----
HEDGE	-----
WOODS	-----
GROUND ELEVATION	-----
GRADE ELEVATION	-----
POLES WITHIN CONSTRUCTION LIMITS	-----

Equalities: 1.25 Ft. = 4.569 Mi.
Total Net Length = 4.569 Mi.
Section AR-2
Equalities: 1.25 Ft. = 4.569 Mi.
Net Length = 4.569 Mi.
Section B-1
Net Length = 1.000 Mi.
Section B-2
Net Length = 1.000 Mi.
Section B-3
Net Length = 1.000 Mi.
Connection With Present Rt. 220
Net Length = 1.000 Mi.
Secondary Conns.
Net Length = 1.000 Mi.

SHEETS 1, 2, 3, 4, 12, 13, 14
REVISED MAR. 12, 1943
APPROVED 13
CHIEF ENGINEER

SHEETS 24, 14
REVISED Sept. 12, 1944
APPROVED Sept. 14, 1944
CHIEF ENGINEER

APPROVED NOV. 12, 1941

C. S. Muller
CHIEF ENGINEER
DEPARTMENT OF HIGHWAYS

EXAMINED AND RECOMMENDED FOR APPROVAL

SENIOR HIGHWAY ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED

COMMISSIONER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

A 2391-1

GENERAL NOTES

Grading:

The excavated quantities on these plans are based on the typical Sections as shown on this Sheet, if any other type is built, the grades are to be corrected accordingly, if necessary.

All slopes are to be finished in accordance with Std. Plan C.S-3.

Where excavated material is suitable, contractor must use it to replace unsuitable subgrade where and as directed by the Engineer.

Material for subgrade treatment is to be placed where and as directed by the Engineer.

Any unsuitable subgrade removed will be paid for at regular excavation price, and shall be replaced with suitable material and paid for as subgrade treatment material. The cost of the removal of any existing concrete steps, walks, walls, curbs, etc. in the way of construction is to be included in the unit price bid for excavation.

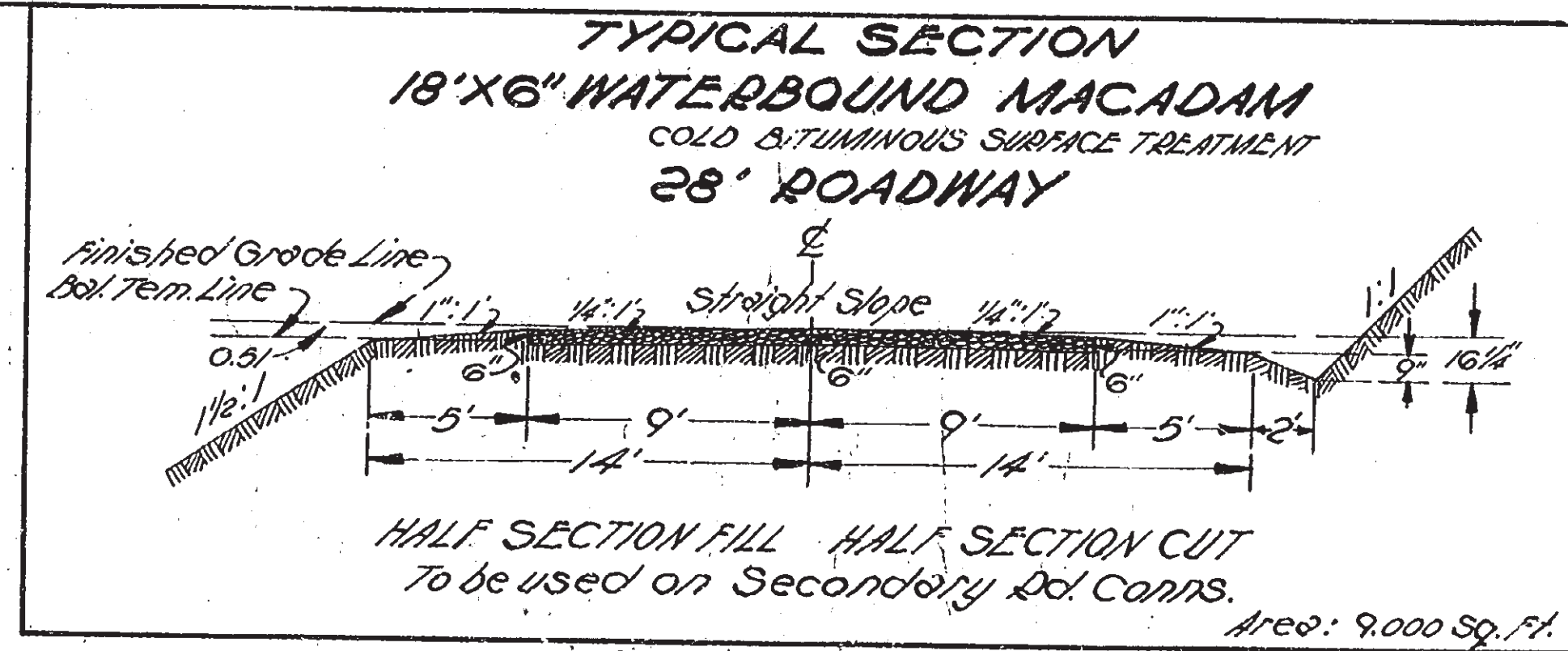
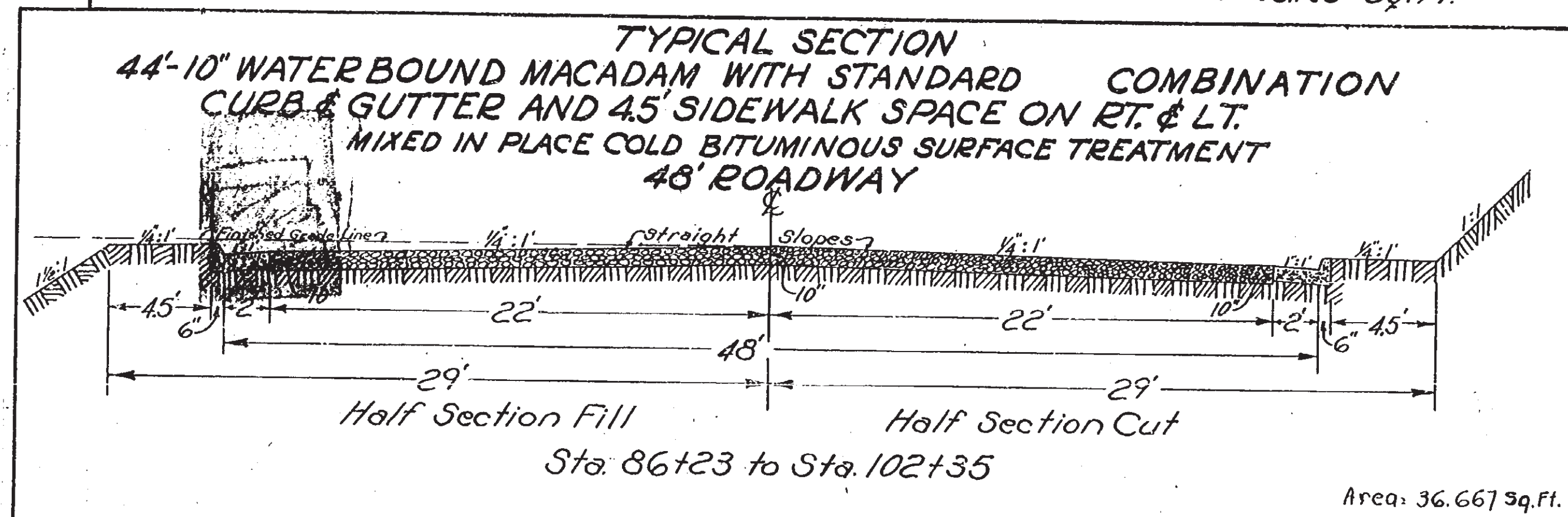
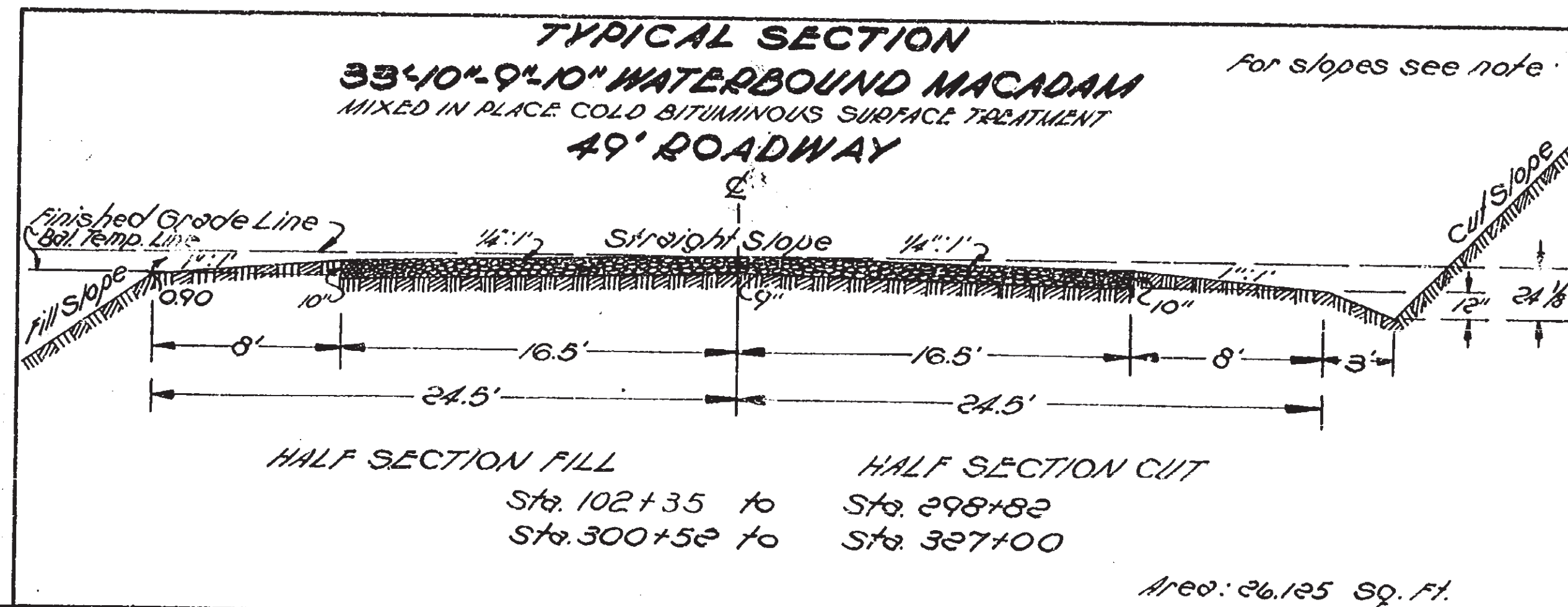
Oranges:

All culverts are to be furnished and laid, and endwalls placed except where otherwise noted.
For pipe culverts, either of the following types may be used: Copestone or vitrified clay.
The location of all drainage structures shown on these plans is approximate only.
See Standard Plan DB-1 for safe heights of fill over pipe culverts and method of installation.
Strength designations apply to rigid pipe only.
Standard CD-1 may be substituted for Std. CD-2 or vice versa and shall be constructed at such places as may be shown on the plans or as may be directed by the Engineer.
For details of widening existing box culverts and bridges, see Std. Plan C-20.
Spans of 20 and under on horizontal curves are to be super-elevated and widened in accordance with the standard method of super-elevating and widening curves.

Miscell Notes

Entrances except field entrances to be surfaced with crusher run stone 1 1/2" down, 4" in depth.

Entrances except field entrances to be surfaced with crusher run stone 1/2 down, 4" in depth.



SUBGRADE UNDERDRAINS			
Station	CD-1 Lin.Ft.	CD-2 Lin.Ft.	
88+50	52		
97+00	52		
106+00	52		
113+00	52		
121+50	52		
144+50	52		
150+50	52		
167+00	52		
176+50	52		
194+00	52		
201+00	52		
214+50	52		
235+25	52		
239+50	52		
249+60	52		
266+50	52		
280+00	52		
284+00		58	
284+30	52		
290+25	52		
295+60	52		
300+70		58	
311+00	52		
322+00	52		
Total	1804	116	

Sect. AD 2

Topsoil to be salvaged:

Sta. 189+75 to Sta. 191+50	10 Cu. yds.
Sta. 215+00 to Sta. 219+00	50 Cu. yds.
Sta. 223+00 to Sta. 225+50	40 Cu. yds.
Sta. 231+00 to Sta. 237+00	50 Cu. yds.
Sta. 301+00 to Sta. 303+00	25 Cu. yds.
<u>Total</u>	<u>175 Cu. yds.</u>

This topsoil is to be stock piled within the limits of the project as directed by the Engineer.

Selective thinning and grubbing is to be done over areas near the right of way line and such trees as are selected by the Engineer are to be protected from mechanical damage during construction.

[illegible]

A 2391 - 2

T/B 106
134-6

GRADING SUMMARY									
to		Cut	Fill	Road Dumps		Channel Change	Subgrade Treatment for Arch Excav (ft/s)	Excavation Culverts & Bridges	Remarks
Sta	Sta	Cu. yds.	Cu. yds.	Cut Cu. yds.	Fill Cu. yds.	Cu. yds.	Cu. yds.		
88+00	93+00	329							Use 66 Cu. yds. from Conn. with Pres. Rt. 220.
88+00	112+00		6892	110	35				Use 193 cu. yds. on Conn. with Rt. 772
96+00	102+50	1444							
106+00	111+86	5995							
111+86	115+14	3089							
112+00	122+50		29455						Use 1330 Cu. yds. on Conn. with Pres. Rt. 220.
121+00	134+00	31926							
126+00	129+00		161			400		320	
136+50	138+00		13						
140+50	144+16		602						
133+00	144+50		18427						
144+16	149+38	51000							
149+38	151+50		1739						
150+00	159+00		24172						
155+50	162+35	23371							
162+35	167+50	14241							
164+00	165+50		20		15				
166+50	172+00		16130						
171+50	172+37	2724							
172+37	179+50	17624							
179+50	200+50		17031	30	80	1459			Use 1522 Cu. yds. on Conn. with Rt. 657.
188+50	194+50	982							Use 93 Cu. yds. on Conn. with Pres. Rt. 220.
196+00	203+00	604							
200+50	215+50		3454	30	130				Use 160 Cu. yds. from Ch. on. For refilling old channel.
206+00	217+93	3227						196 97 **	
217+93	222+50	7749							Use 1021 Cu. yds. from Conn. with Rt. 657.
220+70	231+50		20561	200	200	689			
229+00	233+41	12127							
233+41	234+00	13343							
234+00	236+10		1952						
236+10	236+10		4						
236+10	236+10		4676			433		400	
236+10	236+10		530					353	
236+10	236+10		330						
236+10	236+10		13906			241			
236+10	237+11	1769	29320			2360		210	Use 1946 Cu. yds. from Conn. with Rt. 657.
237+11	243+50	9778							
243+50	276+70		10235	160	205				
270+50	275+50	1594							
275+50	281+00	21640							
279+00	290+50		53763	10	255	861		85	Use 2611 Cu. yds. on Conn. with Rt. 657.
289+73	292+22	38034							
292+22	295+15	36556							
295+15	299+13		26751						
302+30	303+33		6720						
303+33	311+50		21338						
307+50	324+50	31131							Use 229 Cu. yds. on Conn. with Rt. 657.
324+50	327+00		4191	180		551			Use 1023 Cu. yds. on Proj. 118 B.E. Md.
327+00	327+00	137							
34+35	38+00	90							
36+35	38+00		35	15					Use 66 Cu. yds. on Rt. 220.
0+27+22	1+00		178						
0+50	1+00	5							Use 193 Cu. yds. from Rt. 220.
112+70	122+00		4521						
121+00B	128+00B	37		</					

* Use 133 cu.yds. from channel/change
Use 10923 cu.yds. from Sect. AP² 8k.
Use 2844 cu.yds. from Sect. AP² 8k.

DRAINAGE SUMMARY															FED. ROAD DIST. No.		STATE	ROUTE	PROJECT	STATE ROUTE PROJECT		SHEET No.	TOTAL SHEETS
															14	VA.	3			220	118 AD ² B-1-2-3	22	22
Station	Len. of pipe culverts				Pipe Extension		Pipe Strength	Len. Pipe Culvert	Pipe to be Replaced	Sq. Endwall	Box & Arch Culverts			Bridges		Concrete			Reinforcing Steel	Remarks	REVISED DATE 5-1-42		
	15'	18'	24'	36'	18'	24'					Len.	Size	Type	Span	Abt.	File	Type	Class "A"				Class "B"	Class "C"
86+40	15'						1700d																
87+48	15'						1700d																
88+10	15'						1700d																
89+97						27	1500d																
89+50		18'					1600d																
89+75		12'					1600d																
91+58		15'					1600d																
92+79	12'						1700d																
94+32					18'		1600d																
95+09							1600d																
96+56	12'						1700d																
97+25																							
100+65	15'						1700d																
105+00		75'					1600d																
108+75	15'						1700d																
112+50		63'					1600d																
116+03																							
118+15		105'					1600d																
118+64		102'					3000d																
127+50		63'					1600d																
134+85																							
139+00																							
143+55																							
155+00																							
170+00																							
184+31																							
190A+16	15'						1700d																

[illegible]

A 2391-3

7-1308

RIGHT OF WAY DATA

NO.	GRANTOR	INSTRUMENT	DEED BK	PAGE	COUNTY	SHEET NO.	REMARKS
1	ROBERTS, MITTIE JORDAN	Deed	11-10-42	302	442	Roanoke	30' R with easement for slopes
2	JORDAN, MARY	"	11-10-42	302	440	"	30' L
3	JORDAN, CHAS. ESTATE	"	11-10-42	303	478	"	30' R
4	TINLEY, JOHN T. ESTATE	"	11-10-42	310	231	"	30' L (Partially exsolved)
5	SMITH, DAN & RETIA	"	11-10-42	302	443	"	30' L (Partially exsolved)
6	DUNGER, RO.	"	6-7-43	307	536	"	30' R
7	BARBER, JANE	"	11-10-42	302	433	"	30' R
8	WALKER, BERTHA & MARGARET	"	11-10-42	302	444	"	30' R
9	HENDRICK, O. L.	"	11-10-42	302	438	"	30' L
10	TYLER, G. W. ESTATE	Condemn.	11-10-42	"	"	"	30' R
11	GRAVELLY, EDMOND	Deed	11-10-42	302	436	"	30' R & L
12	CLARK, THOMAS WILLIAM	"	11-10-42	303	211	"	Var. 30' to 35' R with easement for slopes
13	HOLLOWAY, SUSIE ANNA	"	11-10-42	307	439	"	40' L
14	WHITFIELD, THOMAS B.	Agreement	10-21-42	"	"	"	Easement for slopes
15	JEANIGAN, WILLIAM MORRIS	"	10-18-42	"	"	"	Easement for slopes
16	BECKNER, ARTHUR	Deed	11-10-42	302	435	"	40' L with easement for slopes and Conn. Rt. 772
17	VIRGINIA IRON COAL & COKE CO.	"	2-5-43	303	444	"	Var. 80' to 90' R; 80' L; and Conn. (Mineral rights reserved)
18	CRAIGHEAD, F. L.	"	5-25-43	306	33	"	80' L with easement for Conn. Rt. 772
19	PAGE, FRANK E.	"	5-25-43	306	35	"	80' L
20	PERDUE, LYDIA M. & U. L.	"	2-25-44	311	23	"	80' L (Portion of old R/W relinquished to U.L. Perdue 6-2-44)
21	Existing R/W	For details see plans and R/W Data Sheet for Proj. 118A.					4,5,9,11,12,13,14,15,16
22	GRIFFIN	"	"	"	"	Roanoke	5,6
23	VIRGINIA IRON COAL & COKE CO.	Deed	3-30-43	321	371	"	80' R & L (Mineral rights reserved)
24	SHIFFLETT, L. W.	"	1-25-43	303	442	"	Var. 80' to 100' R; Var. 80' to 85' L
25	COLUMBIA BUILDING & LOAN ASSOCIATION	"	1-26-43	304	26	"	80' R; Var. 80' to 85' L
26	CAMPBELL, MARGIE V.	Condemn.	12-8-44	"	"	"	Entire tracts - 80' R & L on Proj. 118A; remainder on Proj. 1073 J.
27	CAMPBELL, LLOYD W.	Deed	10-21-45	330	79	"	8,9
28	MILLER, R. L. & ANNA L.	Deed	3-22-43	304	472	"	80' R & L, and Conn. Rt. 677
29	ROANOKE COUNTY SCHOOL BOARD	"	"	"	"	"	9
30	MARTIN, MAUDE D., ET AL	Deed	5-26-43	307	558	"	9,10
31	CAMPBELL, W. D. ESTATE	"	10-27-52	432	404	"	10
32	BANDY, LOU C. & J. T.	Deed	5-25-43	307	519	"	10
33	CALHOUN, C. E.	"	1-26-43	303	477	"	10,11
34	HARBOR, W. R.	"	1-26-43	304	487	"	10,11
35	AMOS, M. S.	"	5-26-43	307	582	"	11
36	CAMPBELL, D. A.	"	"	"	"	"	11
37	COON, L. J.	"	"	"	"	"	11
38	HARTMAN, H. L.	Deed	4-11-44	313	492	"	11
39	GRISBOM, J. W., ET AL	Condemn.	10-8-43	309	116	"	11
40	GRISBOM, NAOMI W.	"	11-22-44	"	"	"	11, 3A
41	NEWMAN, MRS. LULA, ET AL	"	10-8-43	"	"	"	11,12
42	SIMMONS, MRS. INEZ	"	7-27-43	"	"	"	12
43	SIMMONS, C. E., ESTATE	"	6-2-43	"	"	"	12
44	JONES, S. J.	Deed	1-25-43	303	480	"	11,12,13,14
45	HAIBEL, J. H.	"	5-25-43	306	248	"	13,14
46	Doss, THELMA C.	"	5-26-43	307	555	"	13
47	COX, W. H.	"	5-26-43	307	583	"	14
48	HURT, J. C.	"	2-9-44	311	378	"	14, 3A
49	SIMMONS, U. B.	"	5-26-43	307	561	"	14
50	CAMPBELL, H. T.	"	8-8-44	317	76	"	14,15
51	CAMPBELL, W. M.	"	"	"	"	"	14
52	CRAFT, LUTHER	Deed	5-25-43	306	465	"	14
53	KINGREY, MRS. LORA, ESTATE	"	"	"	"	"	14
54	CAMPBELL, H. T., ET AL	Deed	5-25-43	306	247	"	14,15
55	RED HILL CHURCH OF THE BRETHREN	"	5-26-43	307	557	"	15
56	SINK, ARTHUR D.	"	1-26-43	304	93	"	15,16
57	WEAVER, S. H.	"	5-26-43	307	563	"	15,16
58	KINGREY, J. C.	"	"	"	"	"	16
59	BARNHART, B. L.	Deed	6-5-43	306	356	"	16
60	RIDGEWAY, W. B.	"	"	"	"	"	16,17
61	Campbell, Lloyd W.	Deed	10-1-43	308	338	"	8,9
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RIGHT OF WAY SHEET	
ROUTE 220	PROJECT 118 AR-2
DATE 11-21-45	COMPILED BY: Dusen
DATE	CHECKED BY:
DATE REVISED	4-3-46 Dusen; 5-23-47 Dusen; 3-30-48 J.L.
	10-16-53 Manning

sheet no. 2 B

0.79 acre residue conveyed to RALPH O. & ELLIE J. KNOWLES by COMMONWEALTH 4-1-46.

* Baseline parcel conveyed to Campbell, H.T. by Deed 3-25-48

* All or part of R/W acquired under these three instruments to be traded for R/W on Proj. 118 AR-3

* Baseline parcel conveyed to H.H. Weaver by Deed 3-25-48

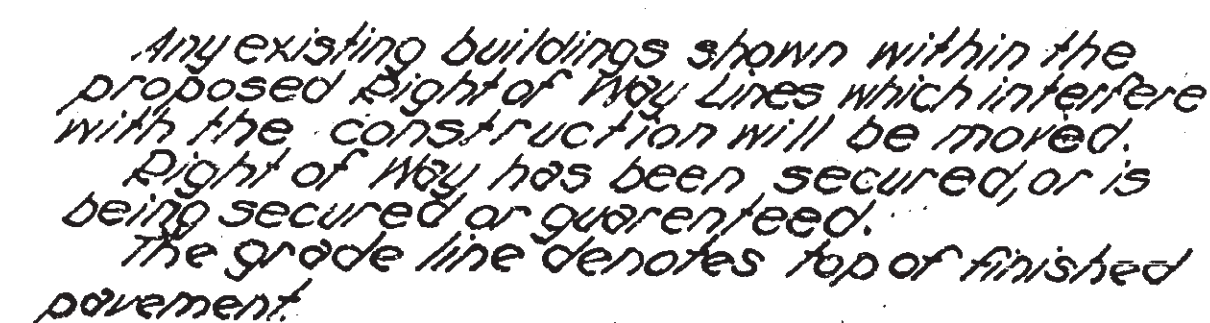
A 2391 - 4

T/30.8

154-6

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A

RIGHT OF WAY REVISED 11-21-45	RIGHT OF WAY REVISED 9-16-48	RIGHT OF WAY REVISED 11-9-48	RIGHT OF WAY REVISED 1-28-43
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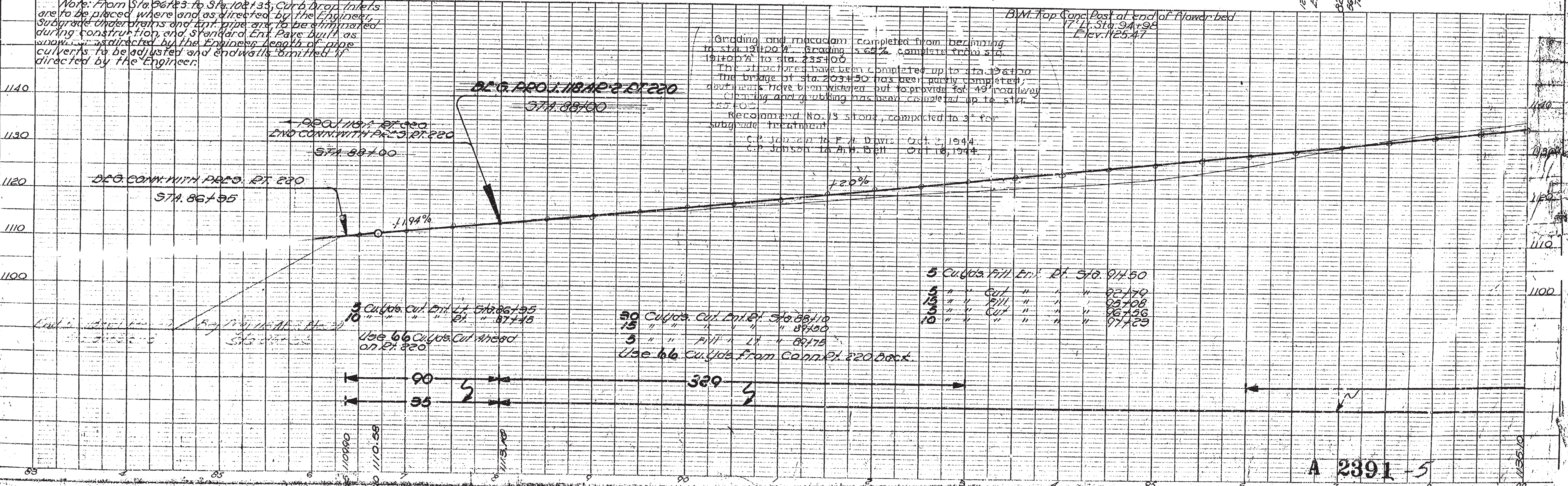
Note: 160' E/W to be acquired with additional necessary for construction shown in brackets, except where restrictions are shown.

60 R/W plus slope easements is to be acquired through curb and gutter section

Note: From Sta. 56+83 to Sta. 102+33, Curb Drop Inlets are to be placed where and as directed by the Engineer. Subgrade under drains and lint pipe are to be eliminated during construction and Standard Ent. Pipe built as shown. It is directed by the Engineer. Length of pipe culverts to be adjusted and endwalls omitted if directed by the Engineer.

Sta.	to Sta.	Side	Inside Const.	Acres
+00	99+00	Rt.		0.05

B.M. Top Conc. Post at end of flower bed
17' L. Sta. 94+98
Elev. 1125.47



A 2391-5

1-1308

RIGHT OF WAY REVISED 11-21-45	RIGHT OF WAY REVISED 9-16-42 5-10-43	RIGHT OF WAY REVISED 4-9-42	RIGHT OF WAY REVISED 1-27-43
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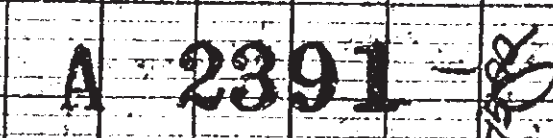
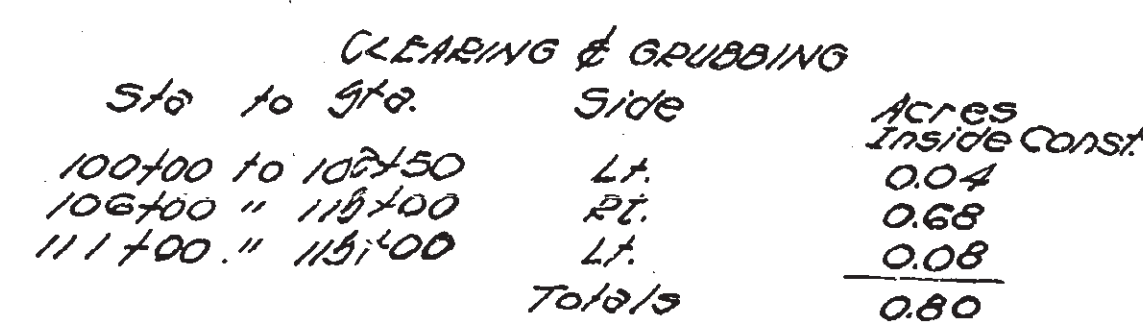


PLATE 11 PLAN - PROFILE OF R. & R. E. STANDARD
HUFFEL & ESSER CO. NEW YORK

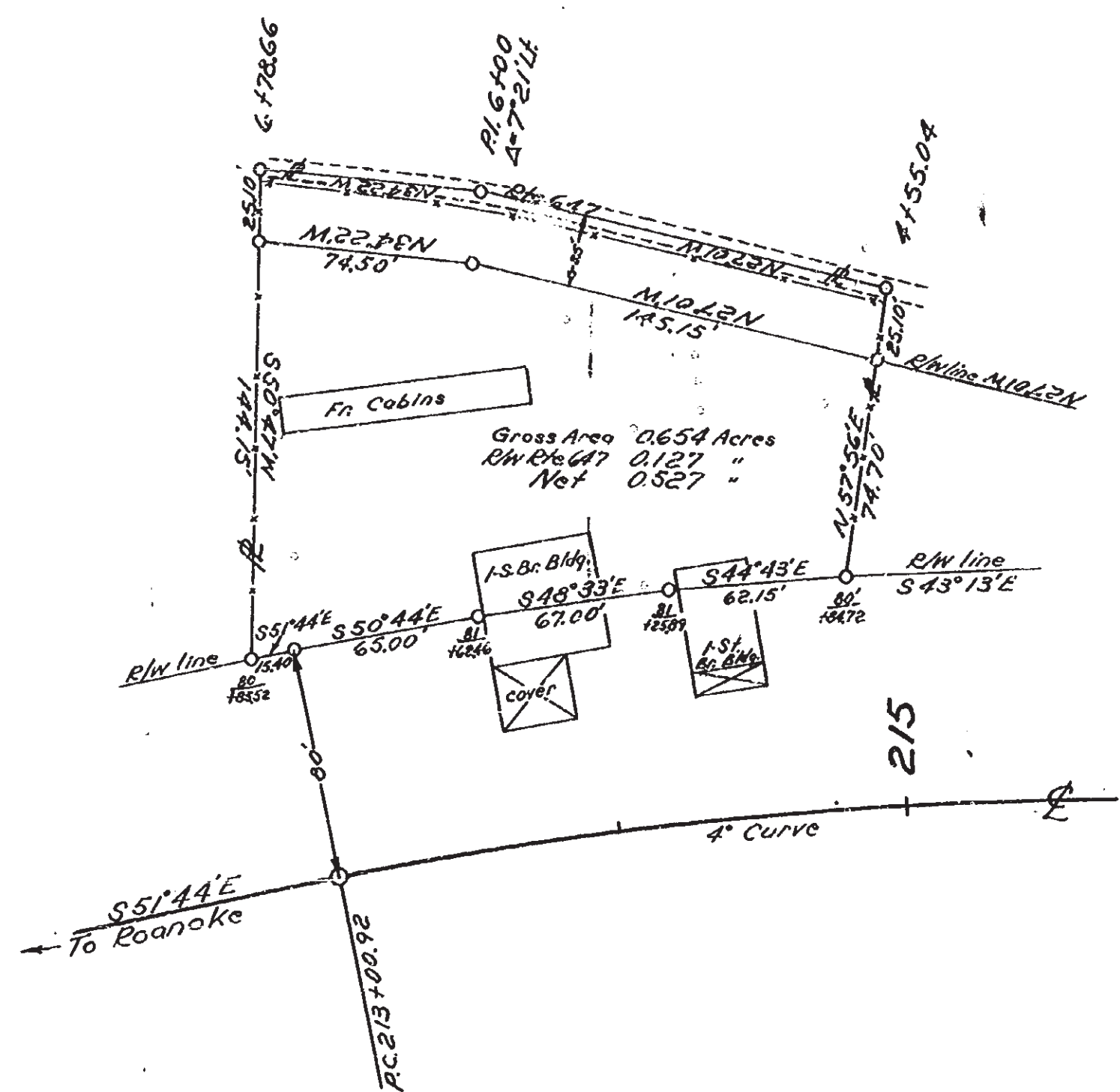
RIGHT OF WAY
REVISED 11-8-44

FED. ROAD DIST. No.	STATE	ROUTE	PROJECT	ROUTE	PROJECT	SHEET No.	TOTAL SHEET
14	VA.			220	118 AR-2	5-A	

Supplementary Sheet

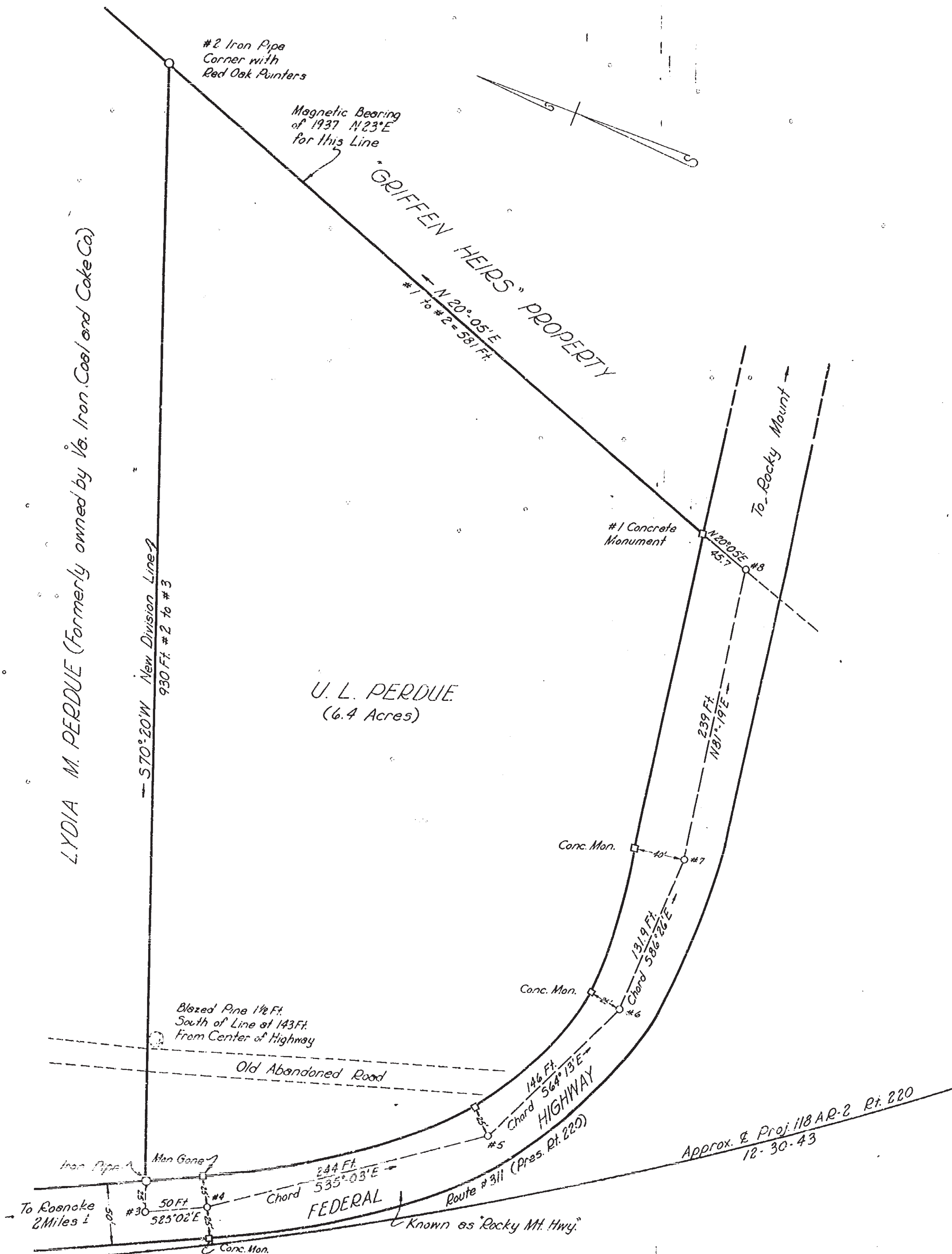
RIGHT OF WAY
REVISED 2-10-44

RIGHT OF WAY
REVISED 10-31-44

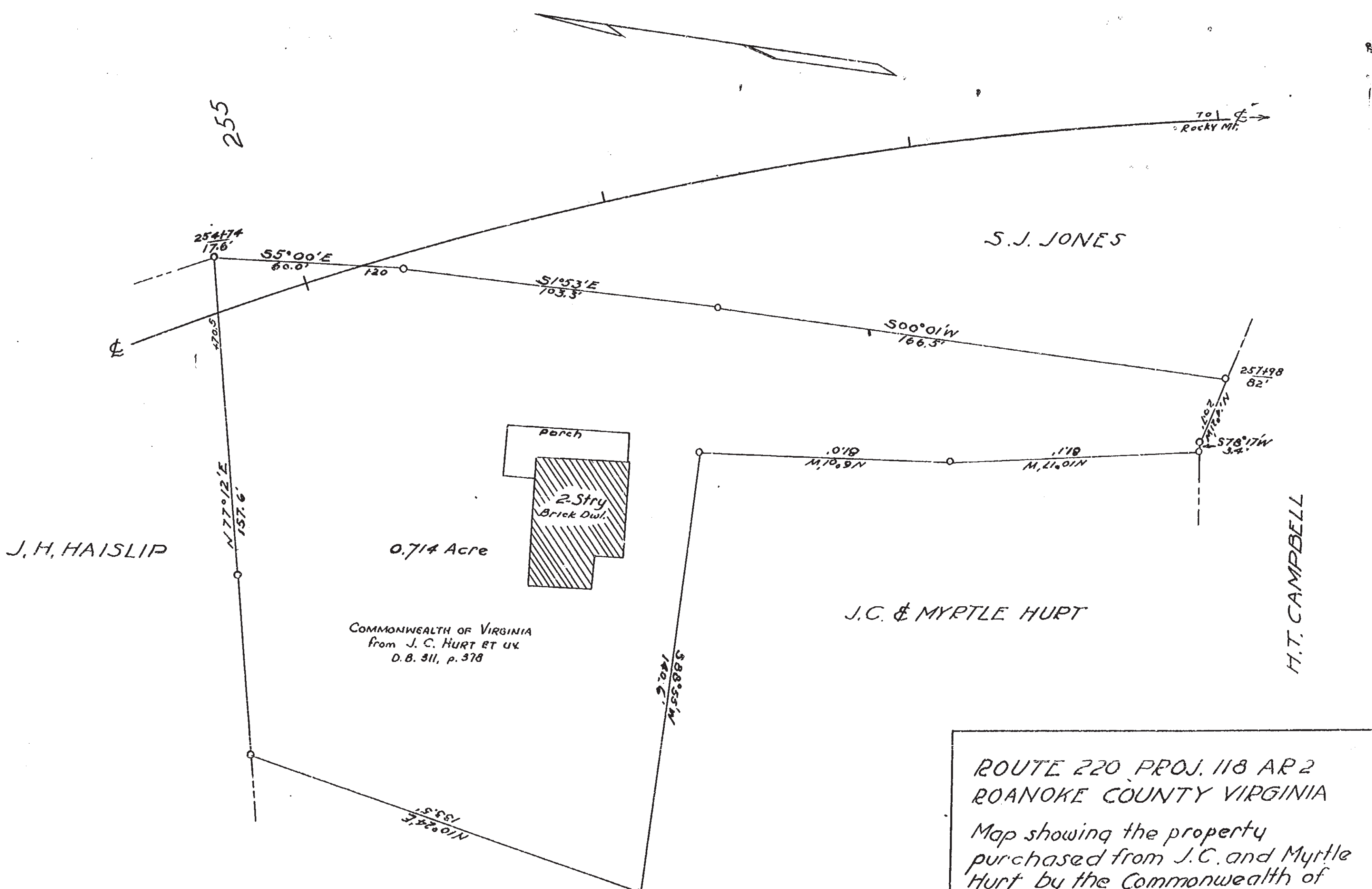


Map showing proposed new location E,
RW lines, plot of land and buildings
to be purchased by the Commonwealth
from Mrs. Naomi V. Grissom.

October 23, 1944 Scale 1"=50' T.C. Melton



Traced by the Virginia Department of Highways Dec. 30, 1943
From Map Showing Survey of 6.4 Acres of Land Conveyed by
Virginia Iron Coal and Coke Co. to U.L. Perdue Roanoke Co. Va.
By C.B. Malcolm State Cert. Engr.
Date: Feb. 12, 1937 Scale 1"=60'



Note:
This Tract is part of Lot #2 & part of Tract #1, as described in the deeds of J.C. Hurt.

ROUTE 220, PROJ. 118 AR-2
ROANOKE COUNTY VIRGINIA
Map showing the property
purchased from J.C. and Myrtle
Hurt by the Commonwealth of
Virginia.
Surveyed by Department of Highways
Scale 1"=25'
January 7, 1944 T.C. Melton
d.p.e.

7-130-8

154-6

DATE
BY
CHECKED
NOTED
ALIGNED
RT. OF WAY
11/20/22
11/20/22

PROFILE
SURVEYED
PLOTTED
NOTED
11/20/22
11/20/22

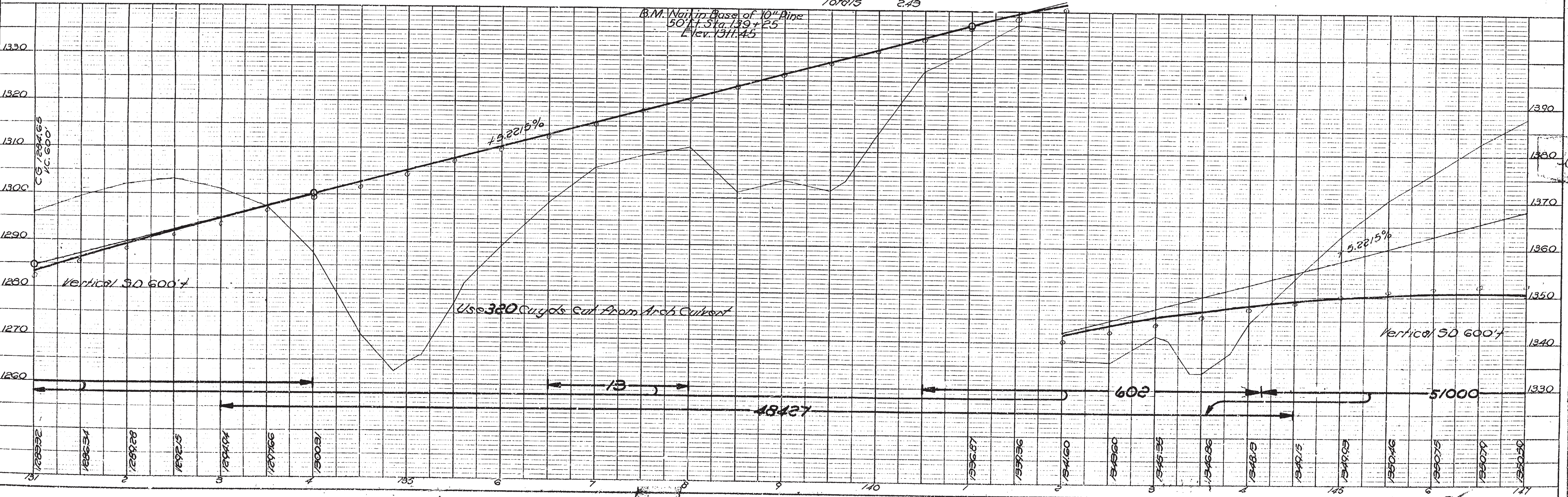
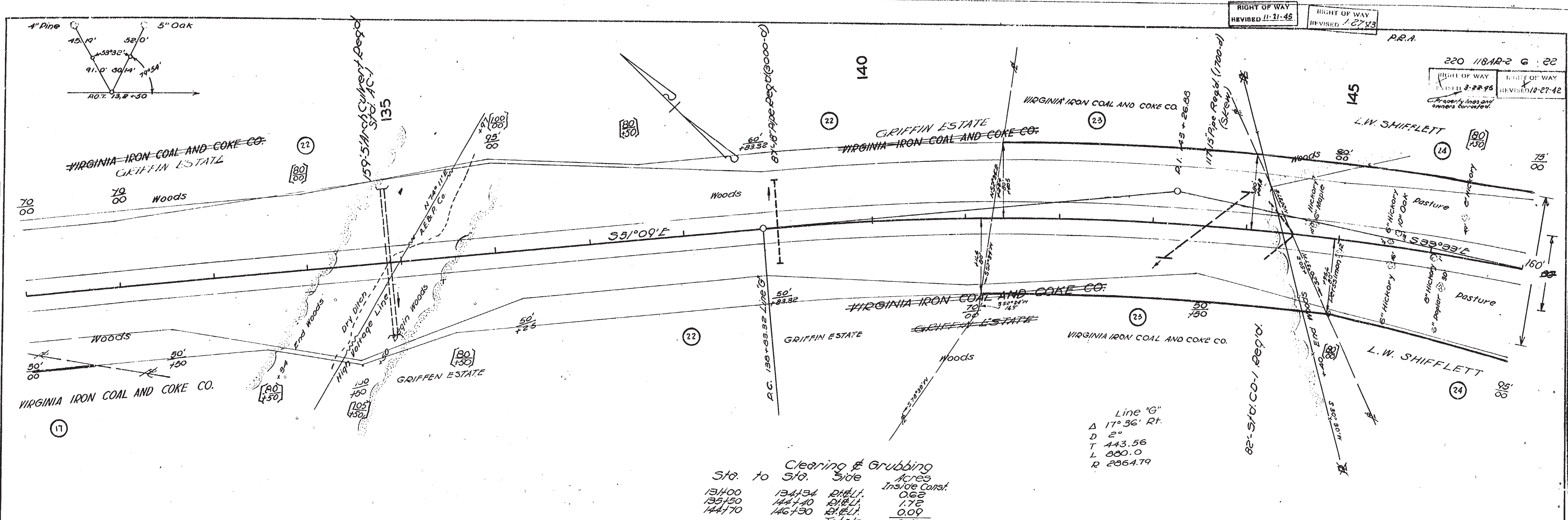


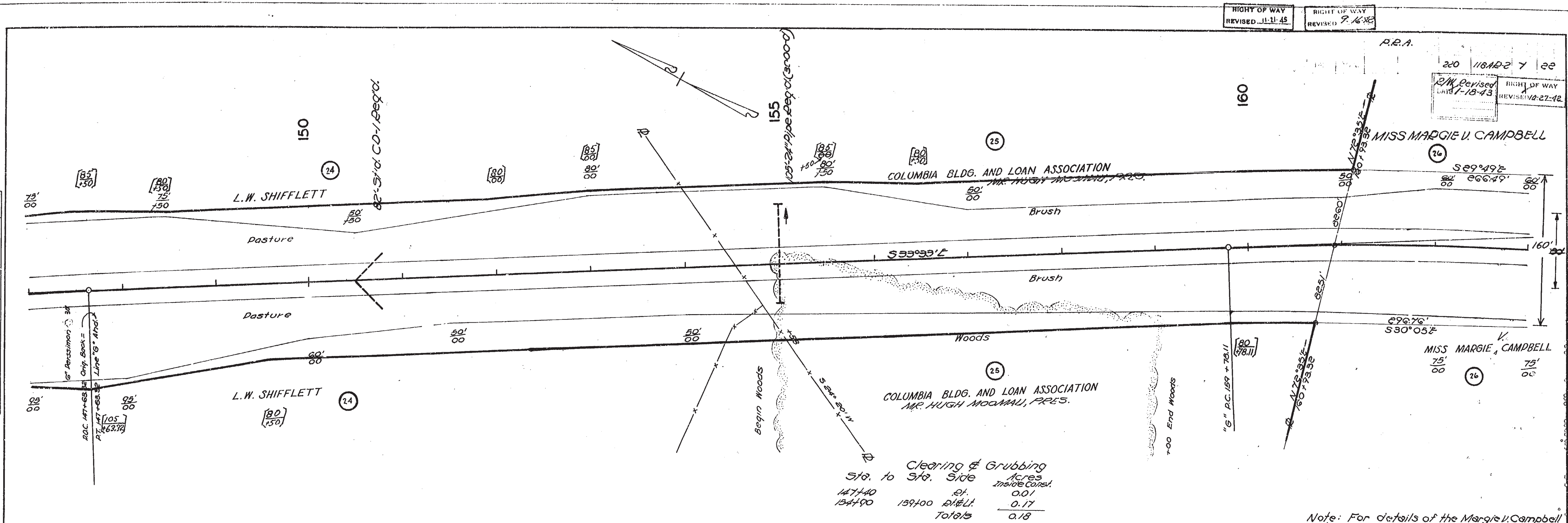
PLATE 1 - PLAN - PROFILE OF P.R.R. STANDARD
KUEFFEL & ESSER CO. NEW YORK

A 2391-9 T 130.8

A 2391-9 T 130.8

NOTE: BOOK ALIGNMENT CHECKED
NO. 17807
P.C. OF WAY CHECKED

NOTE: BOOK GRADES CHECKED
NO. 17807
STRUCTURE NOTATIONS CH'G



Clearing & Grubbing

Sta. to Sta.	Side	Acres
147+40	St.	0.01
159+00	St.	0.17
Totals		0.18

Note: For details of the Margie V. Campbell property see Sheet 7A

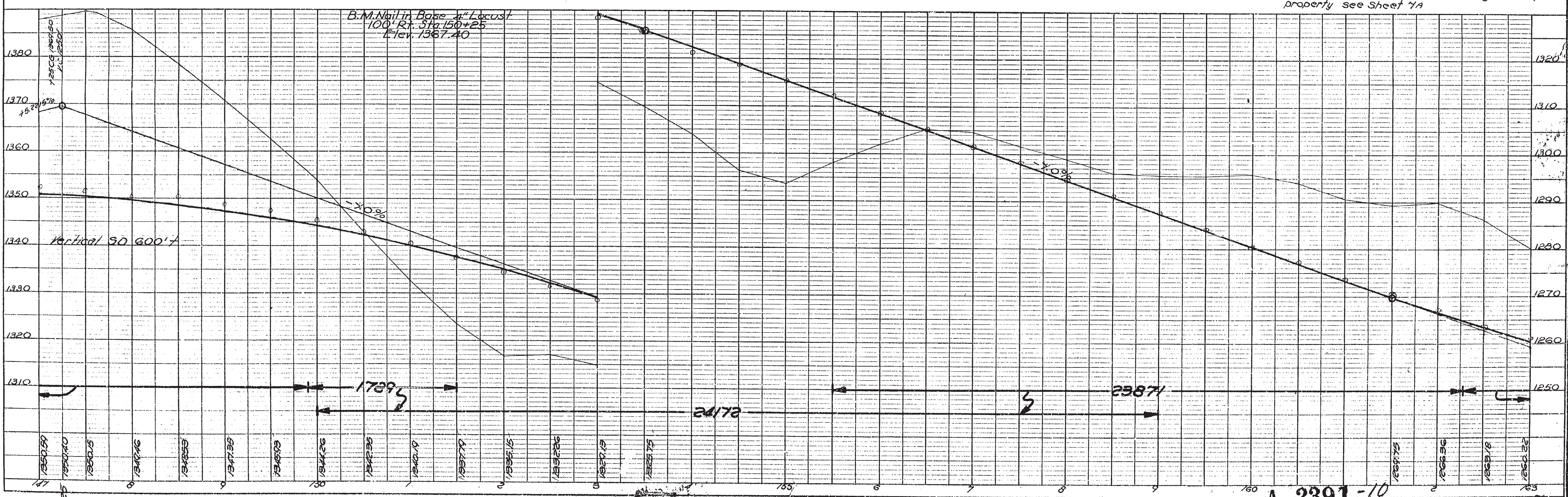
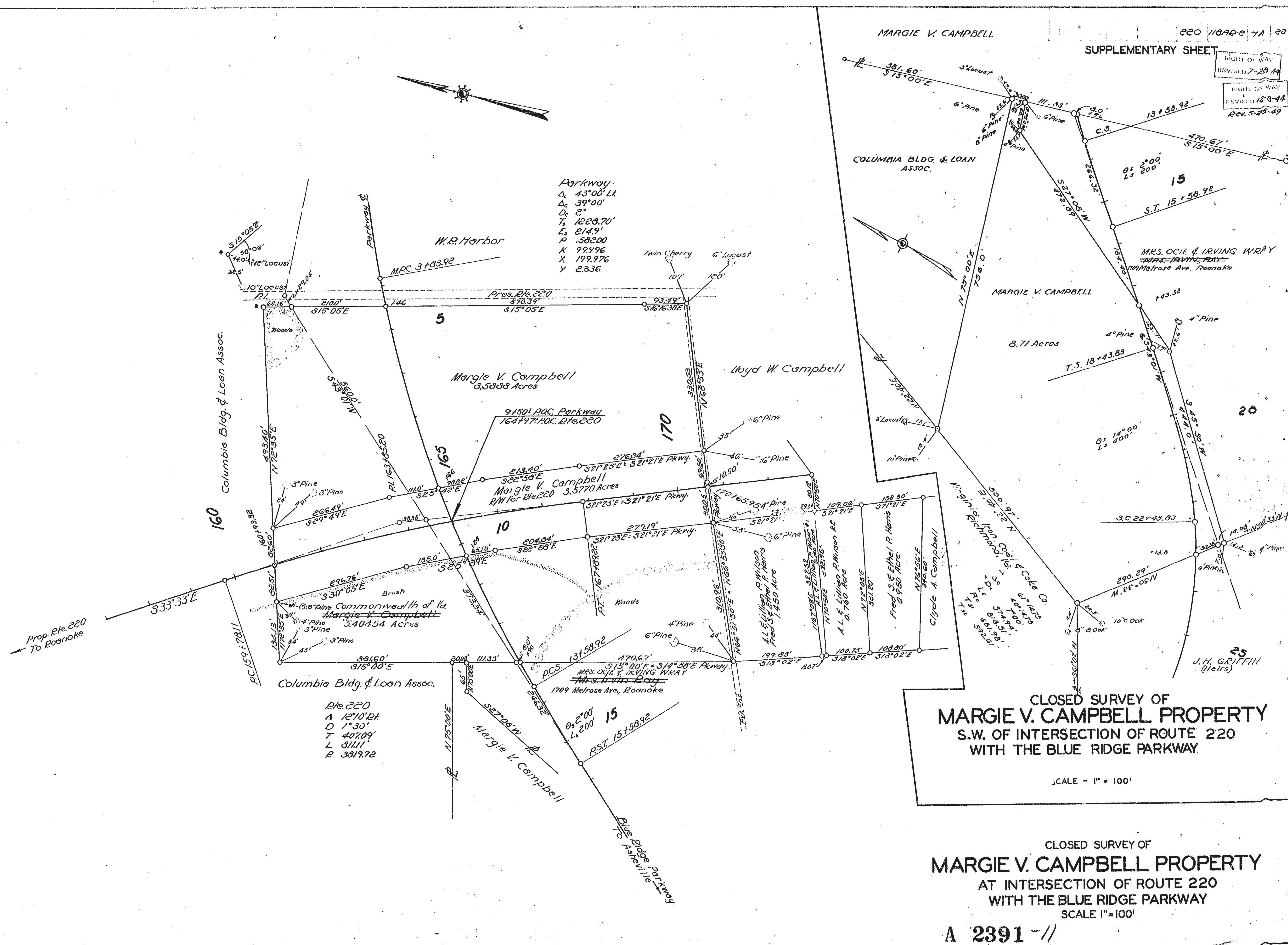


PLATE 1 - PLAN - PROFILE
KEUFFEL & ESS
P. R. & E. STANDARD
NEW YORK

A 2391-10

71300

A 2391-10



Parkway
Δ 43°00' L.
Δ 39°00'
D 2°
T 1228.70'
E 214.9'
P .58200
K 99996
X 199.976
Y 2.836

Rte 220
Δ 12°10' E
D 1°30'
T 40709'
L 31111'
R 3819.72

CLOSED SURVEY OF
MARGIE V. CAMPBELL PROPERTY
S.W. OF INTERSECTION OF ROUTE 220
WITH THE BLUE RIDGE PARKWAY

CLOSED SURVEY OF
MARGIE V. CAMPBELL PROPERTY
AT INTERSECTION OF ROUTE 220
WITH THE BLUE RIDGE PARKWAY
SCALE 1"=100'

A 2391-11

7130-8

SURVEYED
 NOTE BOOK
 PLAN
 NO. 12307
 CHECKED
 J.C.B. E.S.C.
 RT. OF WAY CHECKED
 NO. 12307

SURVEYED
 NOTE BOOK
 PLAN
 NO. 12307
 CHECKED
 J.C.B. E.S.C.
 RT. OF WAY CHECKED
 NO. 12307

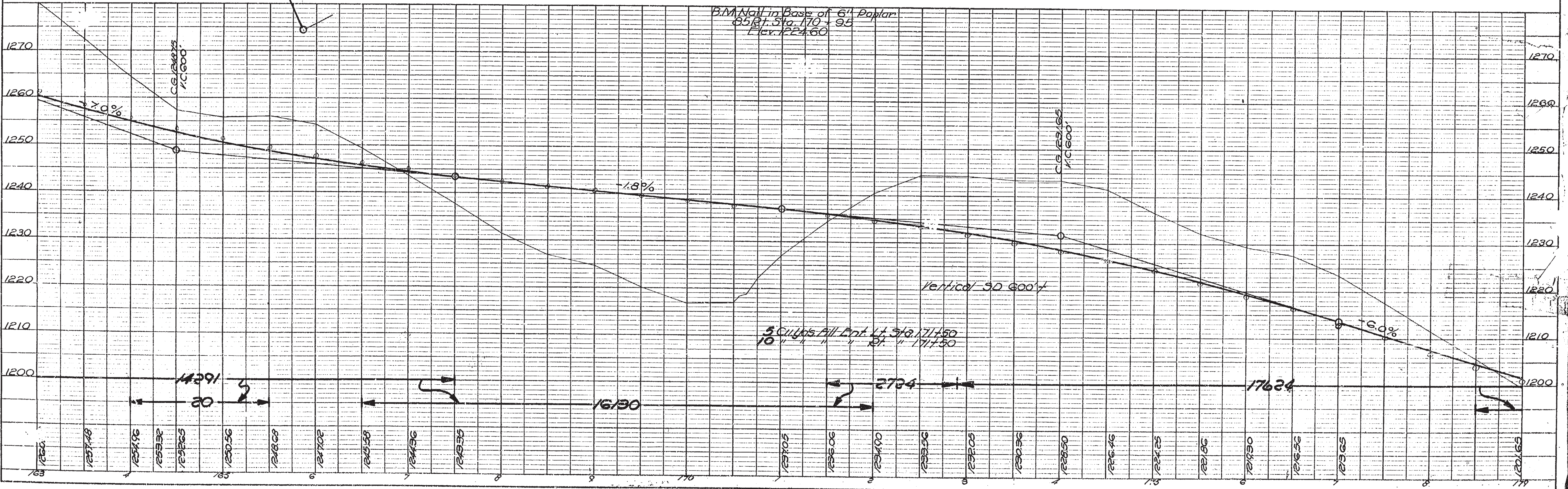
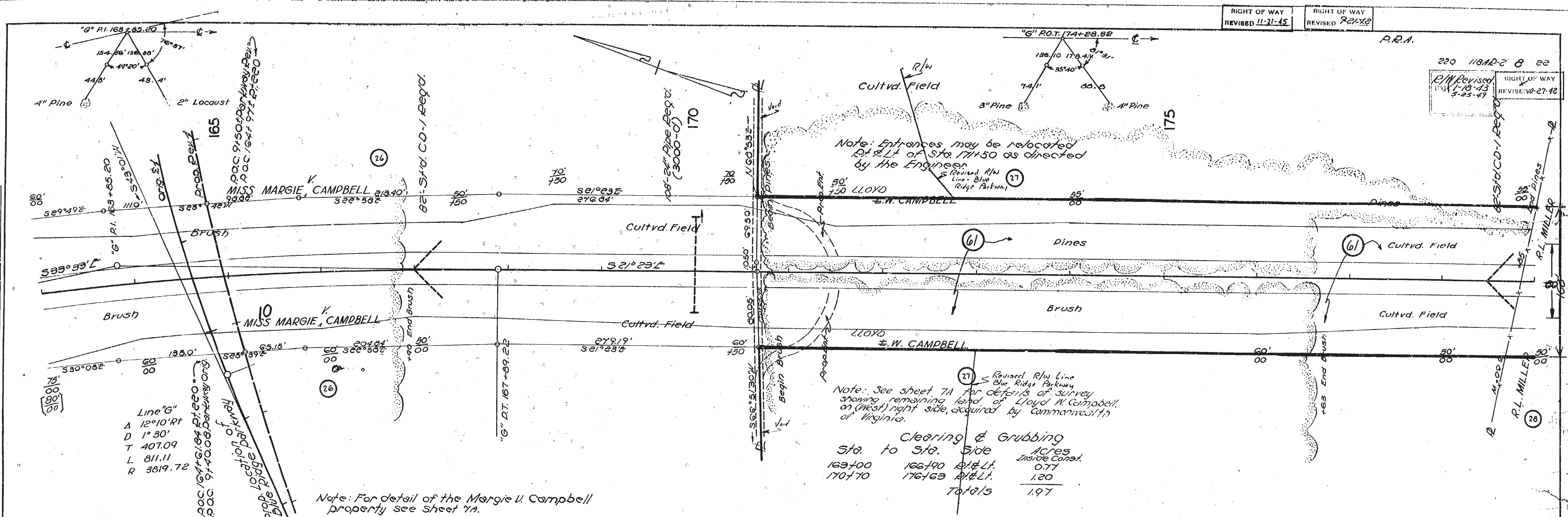


PLATE 1 - PLAN - PROFILE OF P.A.R.E. STANDARD
 REUPPE & ESSER, CO. NEW YORK

A 2391-12

F 130

A 2391-12
 012

Note: Dotted right of way line and figures in parenthesis denote approximate limits of construction.

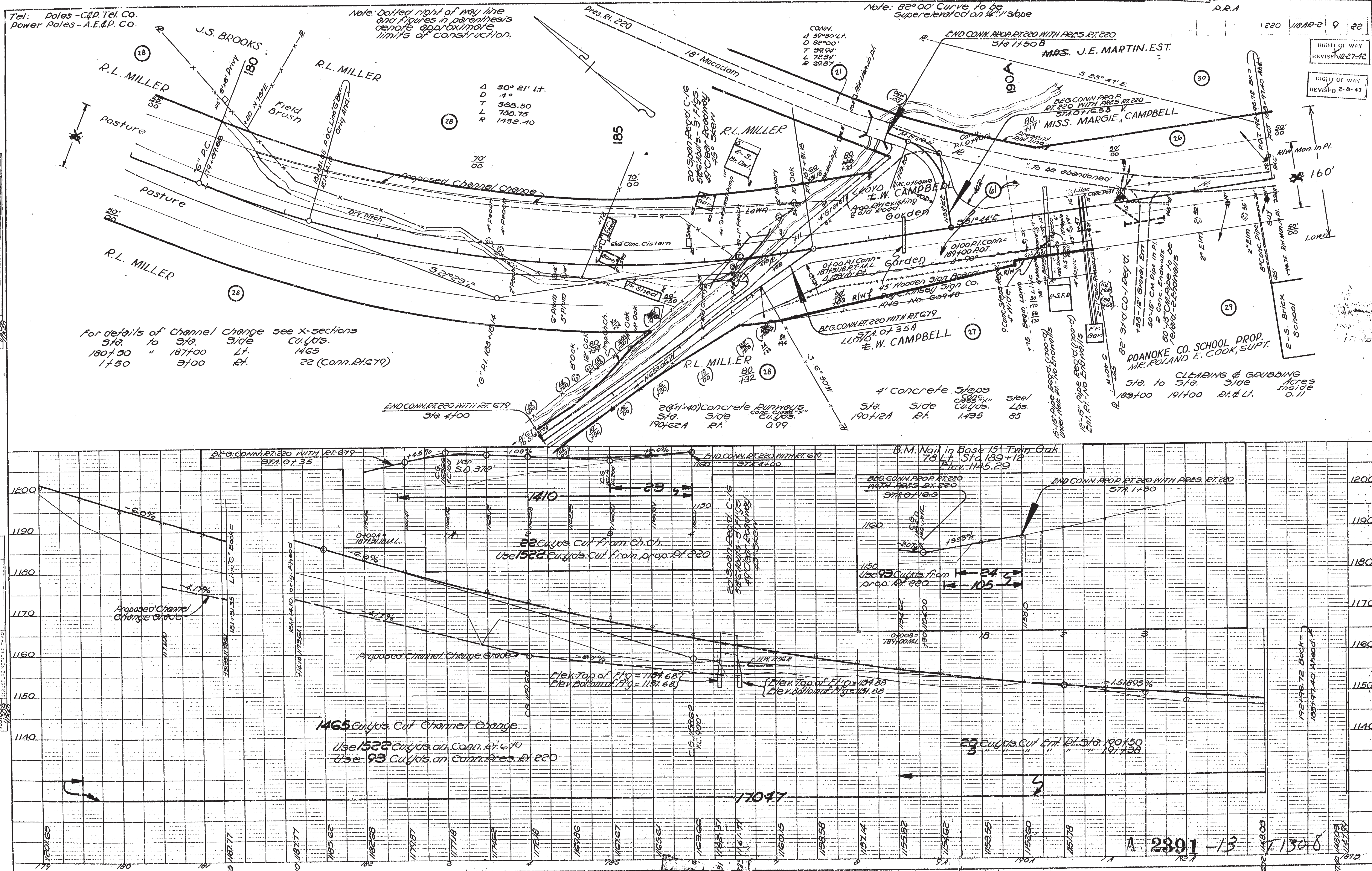
Note: 82°00' Curve to be
superelated on 14" slope

220 118AR-2 9 2

RIGHT OF WAY
REVISED 10-27-

RIGHT OF WAY
REVISED 2-8-4

DATE		9A	<i>L.P.I.R.</i>	
SERVICES			<i>C.F.F.</i>	
PLANTED				
GRAPES CHECKED				
NOTE BOOK				
8. M. NOTES				
11-907				



Tel. Poles - C. & P. Tel. Co.
Power Poles - A.E. & P. Co.

RIGHT OF WAY
REVISED 11-21-48

RIGHT OF WAY
REVISED 7-21-48

RIGHT OF WAY
REVISED 1-27-43

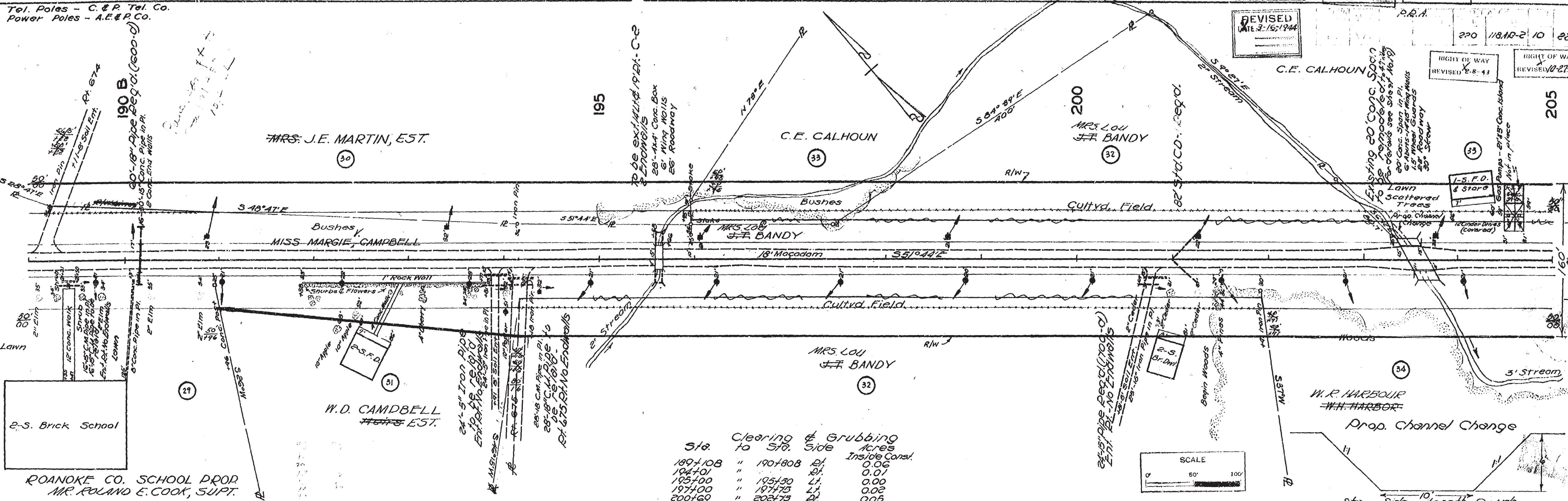
REVISED
DATE 3-15-1944

P.R.A.

220 118.10-2 10 22

RIGHT OF WAY
REVISED 2-8-43

RIGHT OF WAY
REVISED 10-27-42



Sta.	Clearing & Grubbing to Sta.	Side	Acres
189+108	190+808	DI	0.06
194+01	195+50	LI	0.07
195+00	197+75	LI	0.00
197+00	202+75	DI	0.05
200+69	202+75	DI	0.05
Totals			0.14

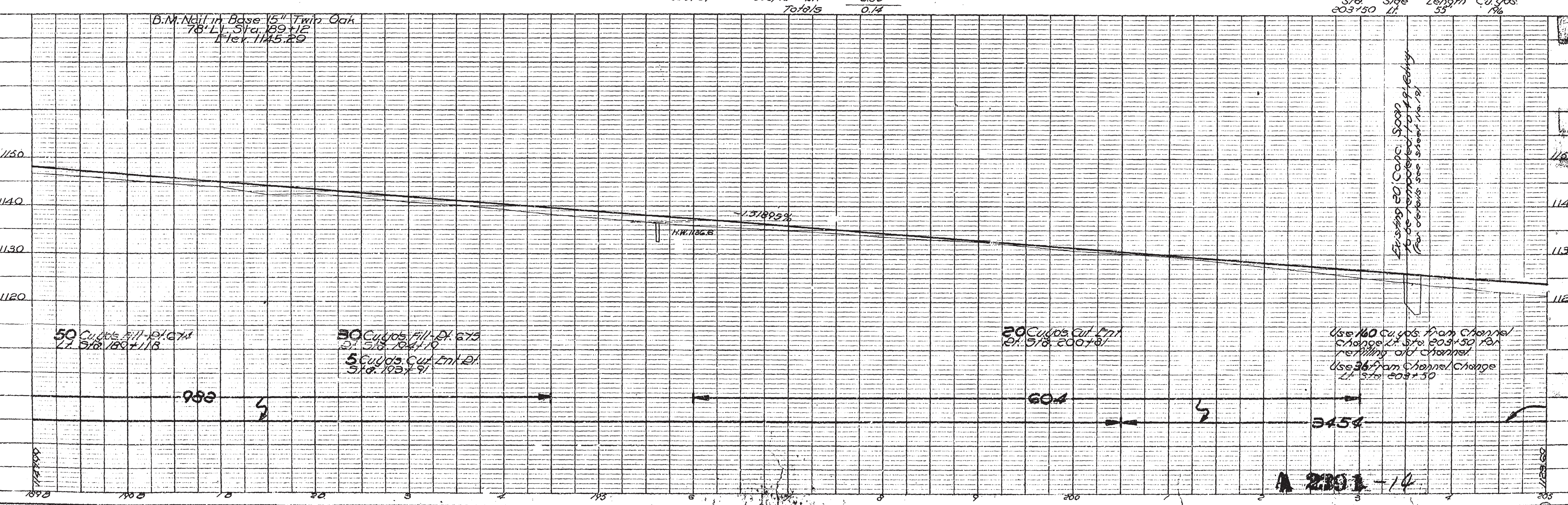
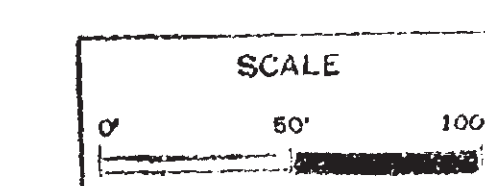


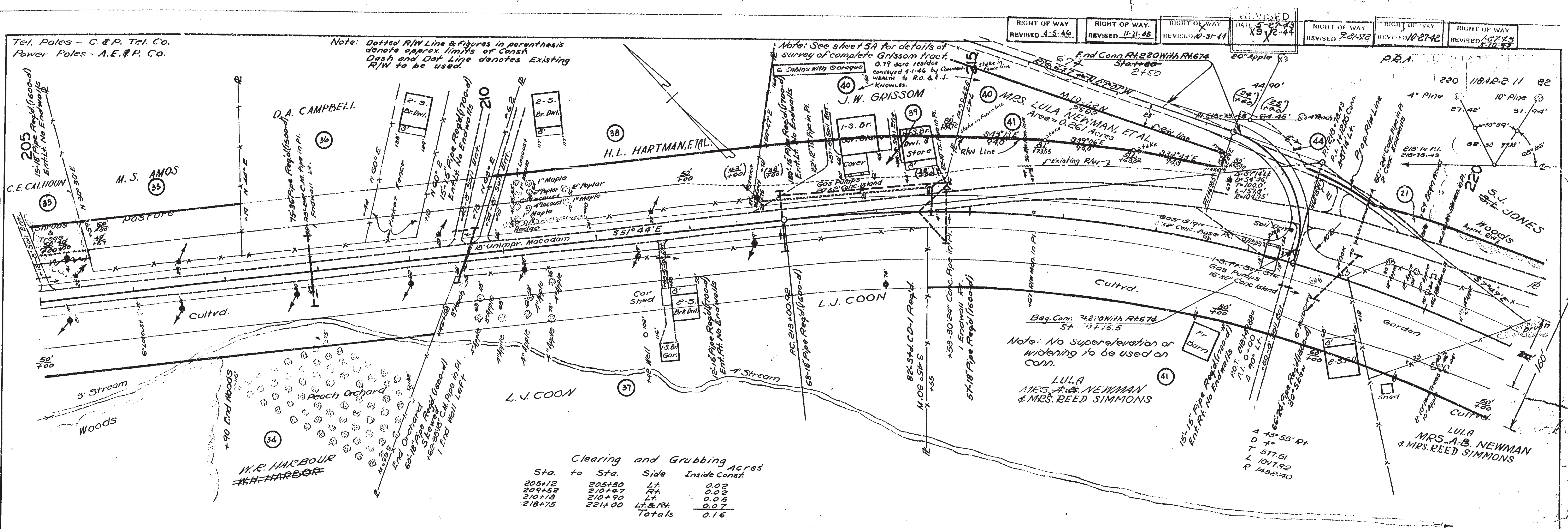
PLATE 1 - PLAN AND PROFILE
KEUFFEL & ESSER CO. NEW YORK

A 2391-14

7-1308

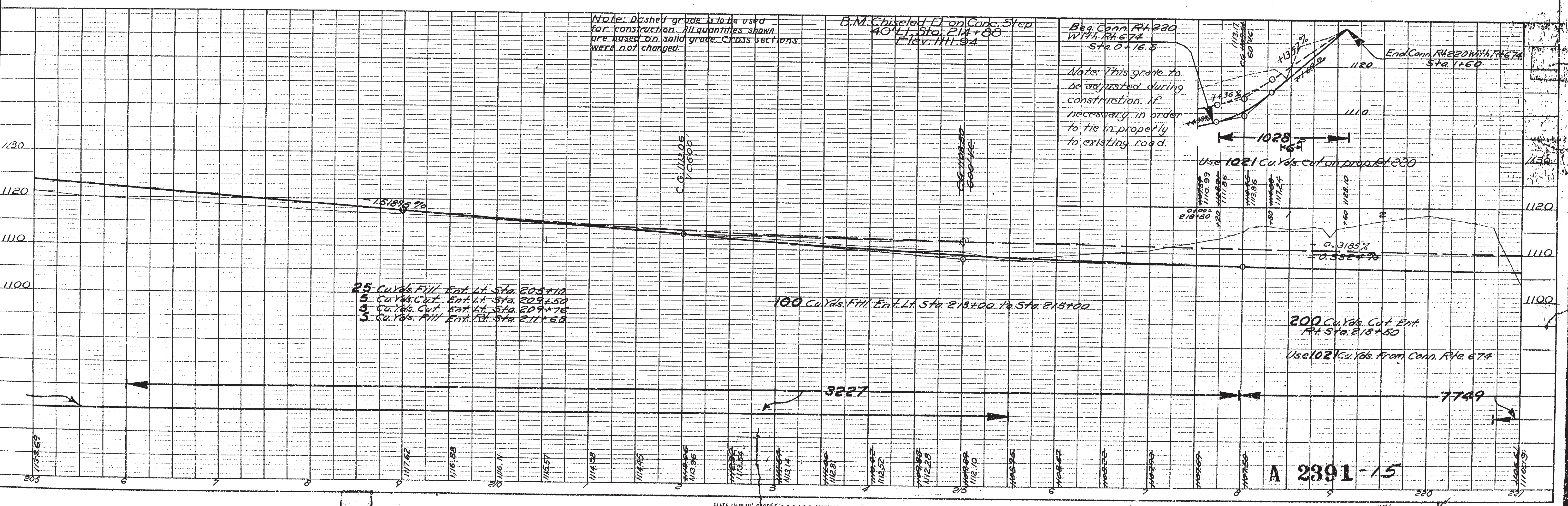
SURVEYED
 NOTE BOOK
 NO. 1800
 11/20/06
 L.C.B. & S.C.
 ALGUMENT CHECKED
 RT. OF WAY CHECKED

PLOTTED
 BY
 11/20/06
 C.F.E.
 NOTE BOOK
 NO. 1800
 11/20/06
 STRUCTURE ADJUSTED



Clearing and Grubbing Acres

Sta.	to Sta.	Side	Inside Const.	Acres
205+12	205+50	LT.		0.02
209+52	210+47	RA		0.00
210+18	210+90	LT.		0.00
218+75	221+00	LT. & RA		0.07
		Totals		0.16



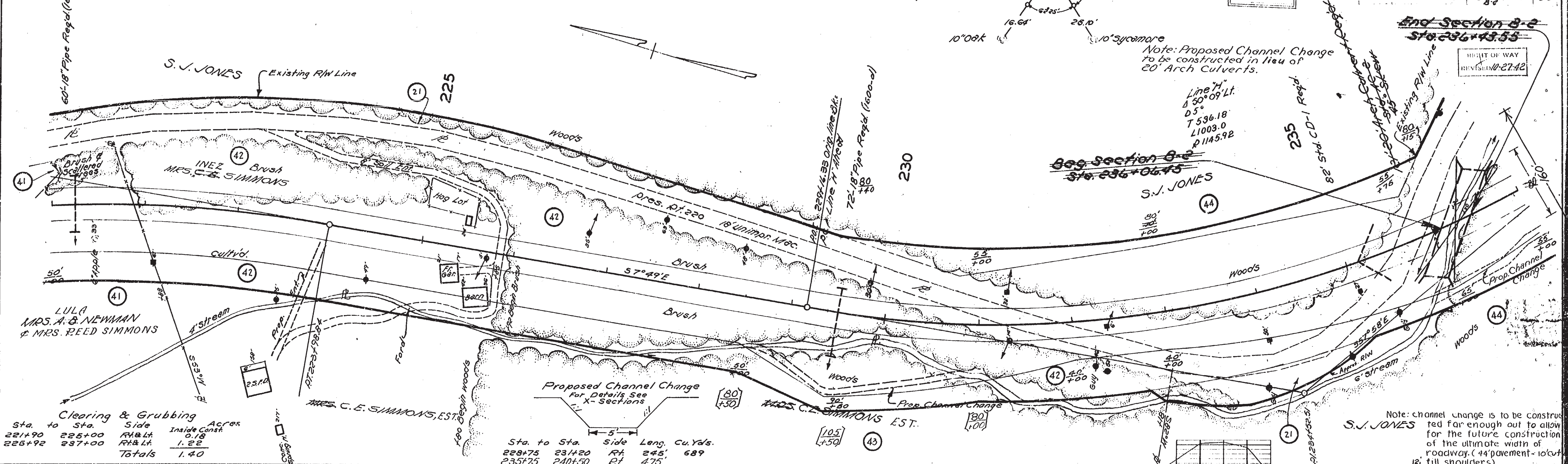
A 2391-15
 01015

PLAN
 DATE
 SURVEYED
 PLANNED
 ALIGNED
 CHECKED
 NO. 1230
 1/23/30

Tel. poles: C.B. Pfeiffer Co.
 POWER A.E.B. Co.

Note: Dot & Dash R/W Line denotes exist R/W to be used.

RIGHT OF WAY
 REVISED 11-21-15
 REVISED 1-27-23
 REVISED 3-12-43
 REVISED 5-12-44

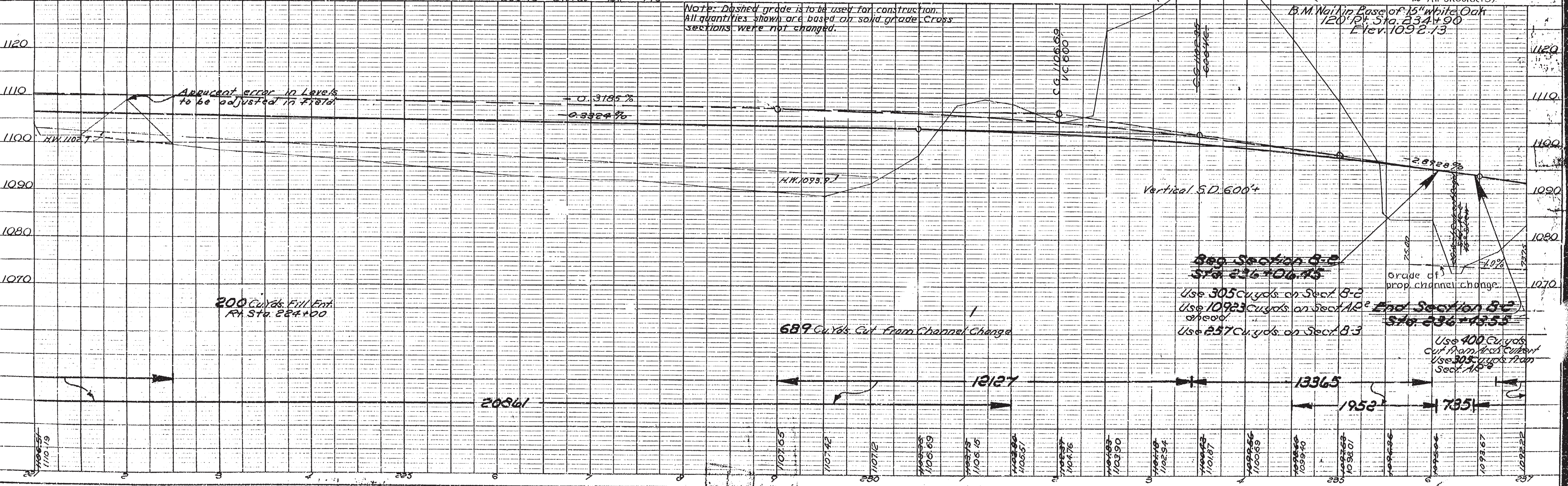


Clearing & Grubbing

Sta. to Sta.	Side	Acres
221+90	Inside Const.	0.18
226+92	Rt. & Lt.	1.22
	Totals	1.40

Sta. to Sta.	Side	Length	Cu. Yds.
228+75	Rt.	245'	689
235+75	Rt.	475'	

Note: Dashed grade is to be used for construction. All quantities shown are based on solid grade. Cross sections were not changed.



200 Cu. Yds. Fill Ent.
 Rt. Sta. 224+00

689 Cu. Yds. Cut from Channel Change

Bag Section B-2
 Sta. 236+06.45
 Use 305 Cu. Yds. on Sect. B-2
 Use 10923 Cu. Yds. on Sect. A-2
 Use 257 Cu. Yds. on Sect. B-3

End Section B-2
 Sta. 236+43.55
 Use 400 Cu. Yds. cut from Arch Culvert
 Use 305 Cu. Yds. from Sect. A-2

2391-10 7/30-8

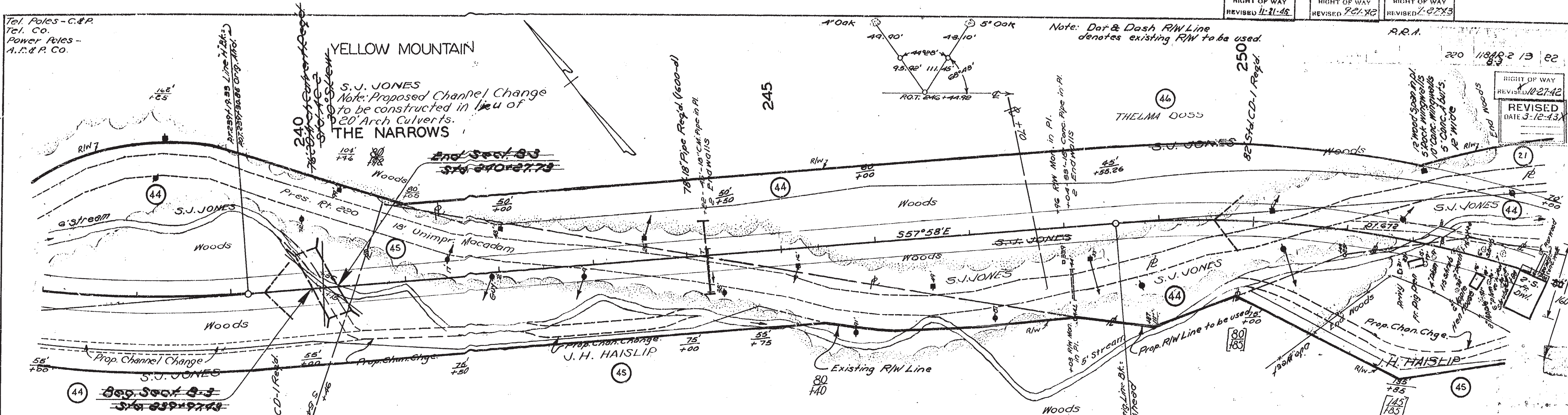
A 2 3 9 1 6

Tel. Poles - C.B.P.
Tel. Co.
Power Poles -
A.P. & P. Co.

RIGHT OF WAY
REVISED 11-21-45
RIGHT OF WAY
REVISED 7-21-42
RIGHT OF WAY
REVISED 7-22-43

R.R.A.

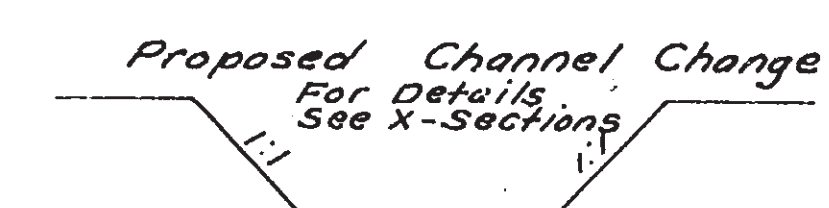
RIGHT OF WAY
REVISED 11-21-42
REVISED
DATE 3-12-43



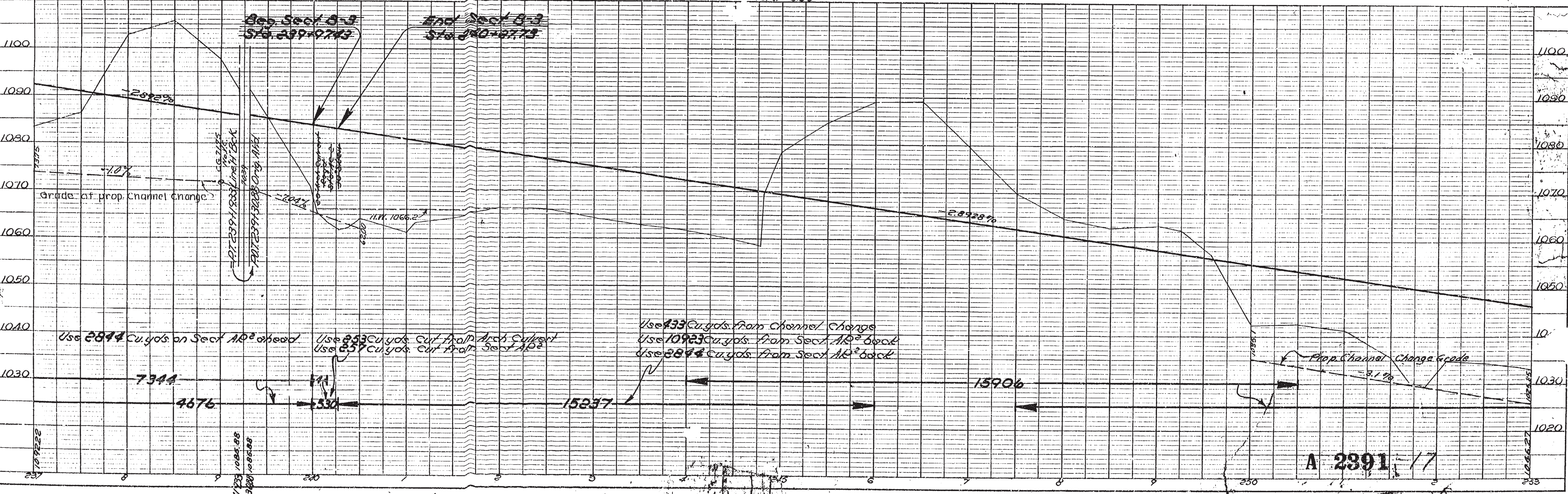
Sta.	to Sta.	Side	Cu. Yds.
240+50	242+25	RA<	233
242+25	243+75	RA	200
243+75	244+00	LT	433
Total			433

Note: Channel change is to be constructed far enough out to allow for the construction of the ultimate width of roadway. (44' payment - 10' fill shoulders.)

Sect. A-2 Clearing & Grubbing				Sect. B-3 Clearing & Grubbing			
Sta.	to Sta.	Side	Acres	Sta.	to Sta.	Side	Acres
237+00	239+97.43	RA<	0.40	239+97.43	240+27.73	RA<	0.07
240+27.73	243+00	RA<	0.40				
Total			0.80				



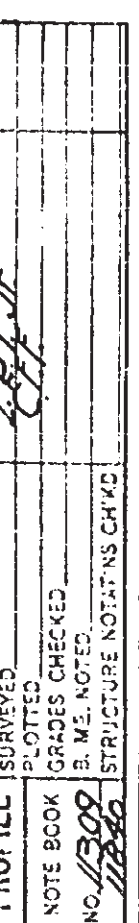
Sta.	to Sta.	Side	Cu. Yds.
250+50	258+00	RA	8360



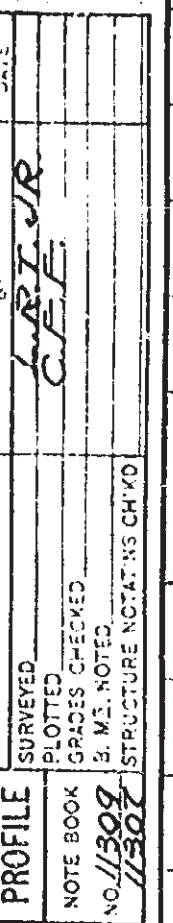
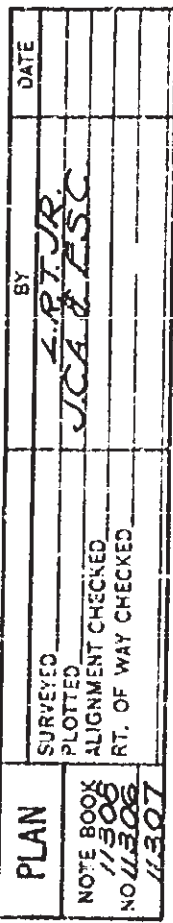
A 2391 17

T-1300 T-546

DATE 1-1-46
BY J. H. Haislip
CHECKED BY J. H. Haislip



RIGHT OF WAY REVISED 11-21-45	RIGHT OF WAY REVISED 7-21-42	RIGHT OF WAY REVISED 10-27-42	RIGHT OF WAY REVISED 1-27-43
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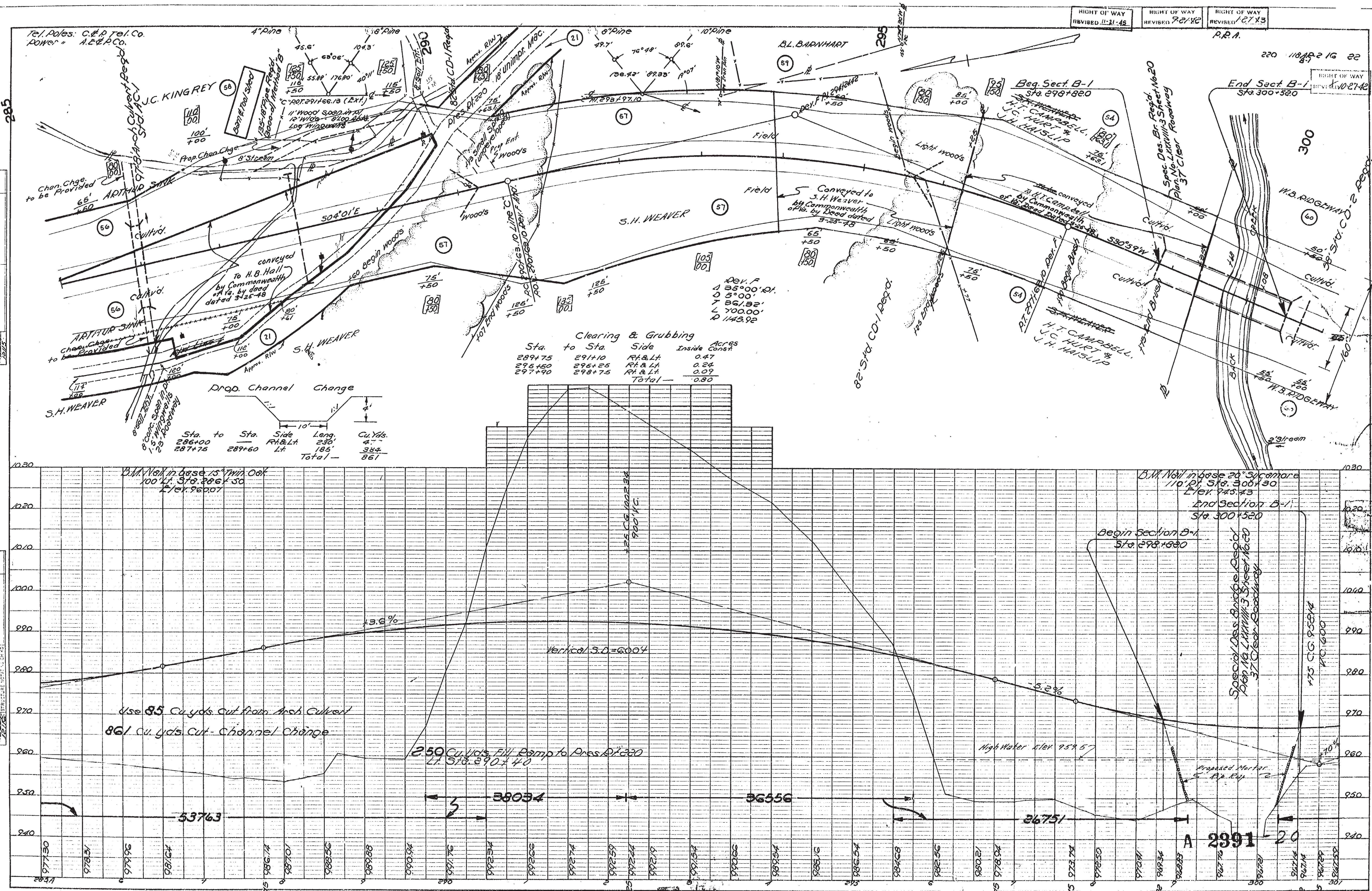


A 2391-19

7-1308 ~~154-5~~

NOTE: BOOK GRADES CHECKED
NO. 12307 RT. OF WAY CHECKED
12/15/35

NOTE: BOOK GRADES CHECKED
NO. 12307 RT. OF WAY CHECKED
12/15/35



A 2391 10220

Rel. Poles: C.B.P. 76/ Co.
Dover Poles: A.L.P. Co.

Note: No super-elevation or
widening to be used on
Conn.

Note: Dotted Line & Figures in Parenthesis
denote approx. limits of Construction.

RIGHT OF WAY
REVISED 11-21-43

FED. ROAD DIST. NO.	STATE	ROUTE	PROJECT	ROUTE	PROJECT	SHEET NO.	TOTAL SHEETS
14	VA.			220	181A-2	17	22

RIGHT OF WAY
REVISED 10-27-42

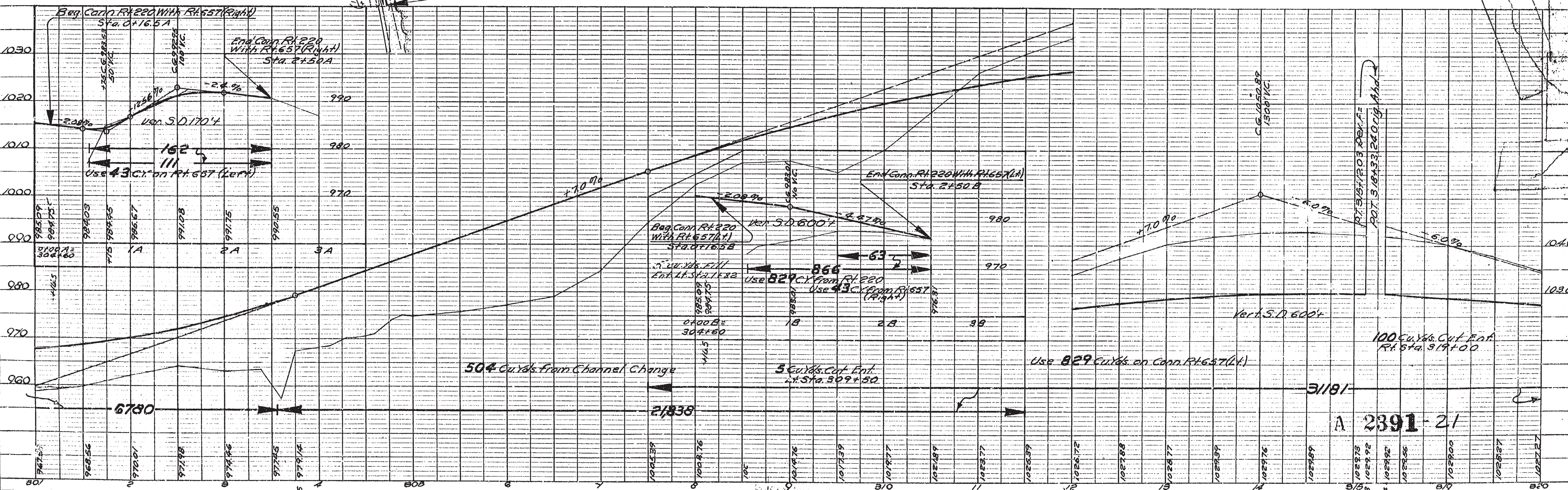
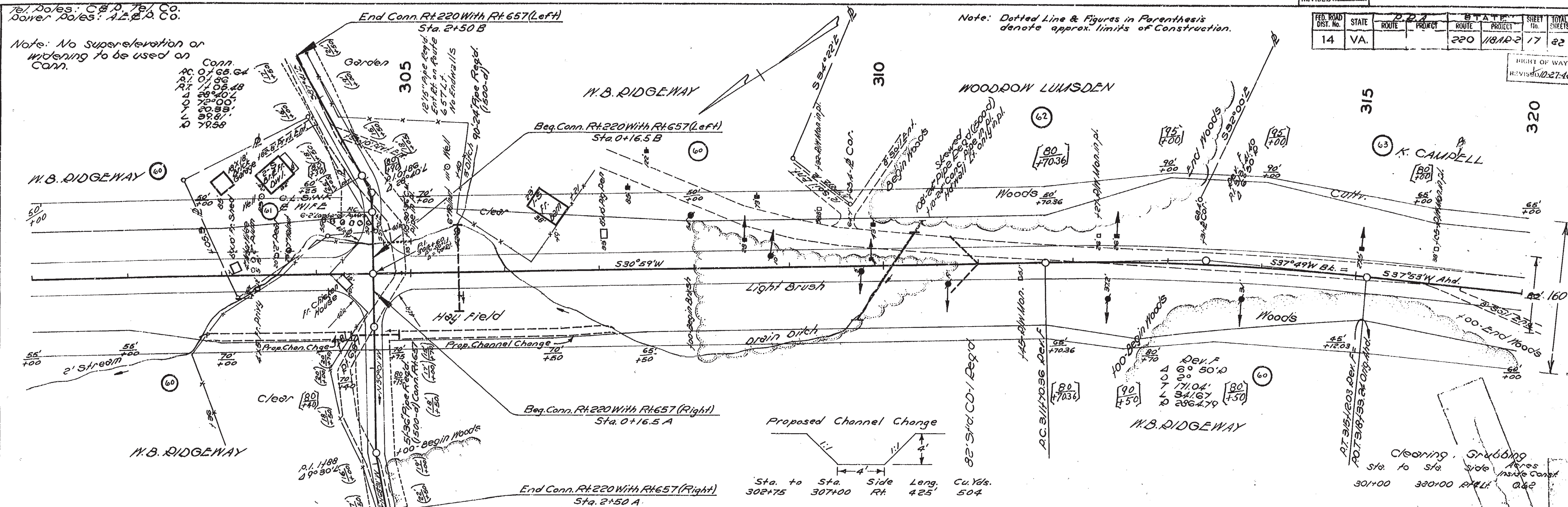


PLATE 1, PLAN - PROFILE OF A. R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

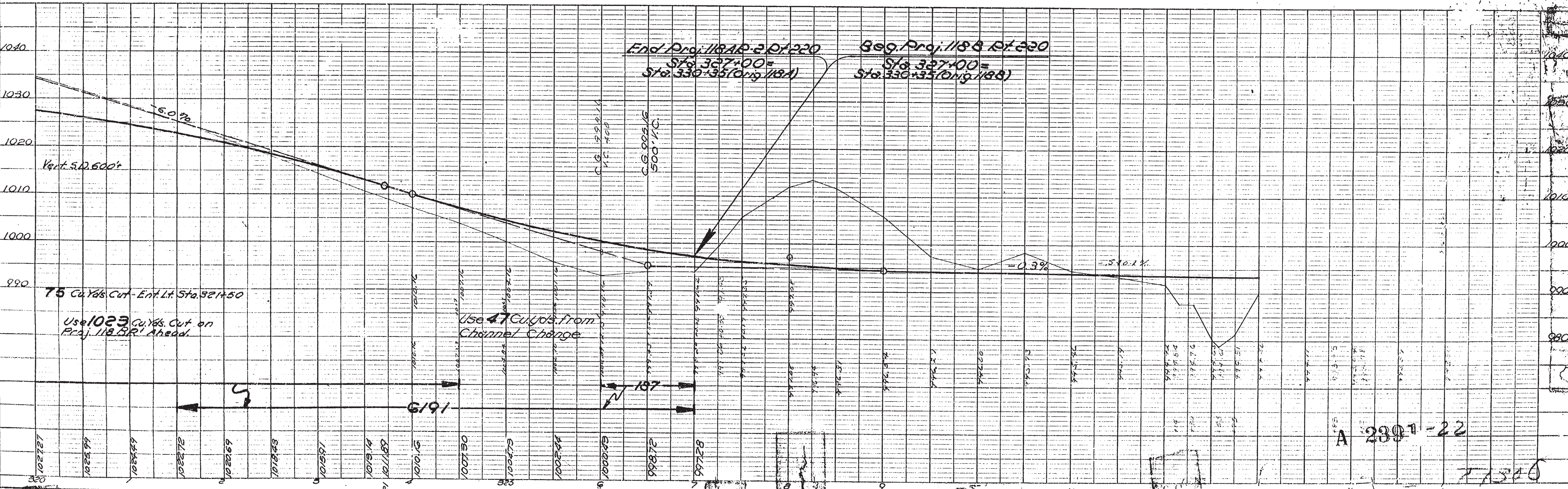
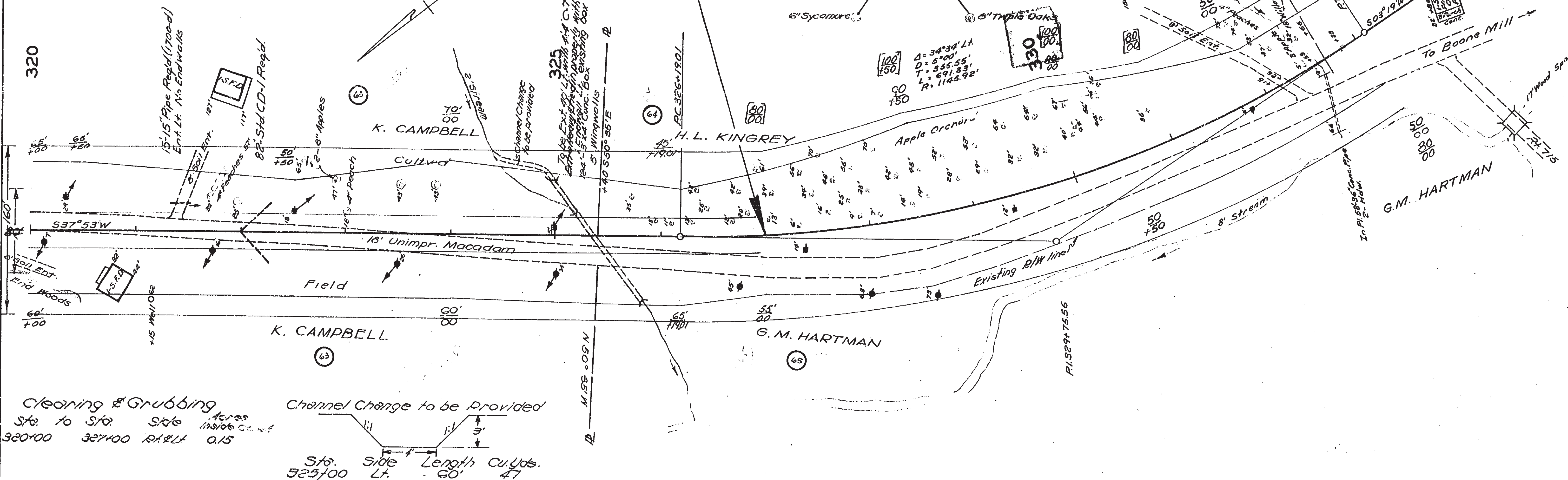
T-1300

Tel. Poles - C. & P. Tel. Co.
Power Poles - A. E. & P. Co.

RIGHT OF WAY
REVISED 11-31-45

220 118AR-2 18 22

RIGHT OF WAY
REVISED 10-27-42



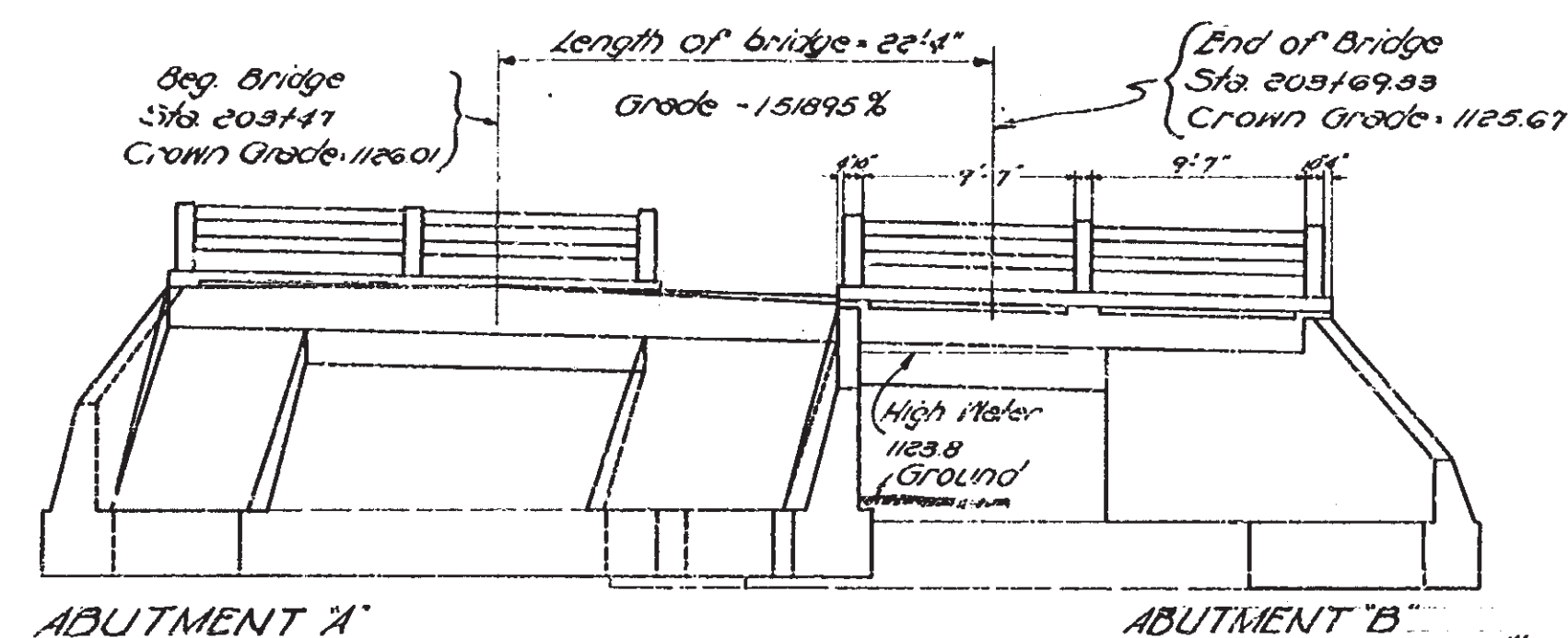
A 2391-22

7-13-40

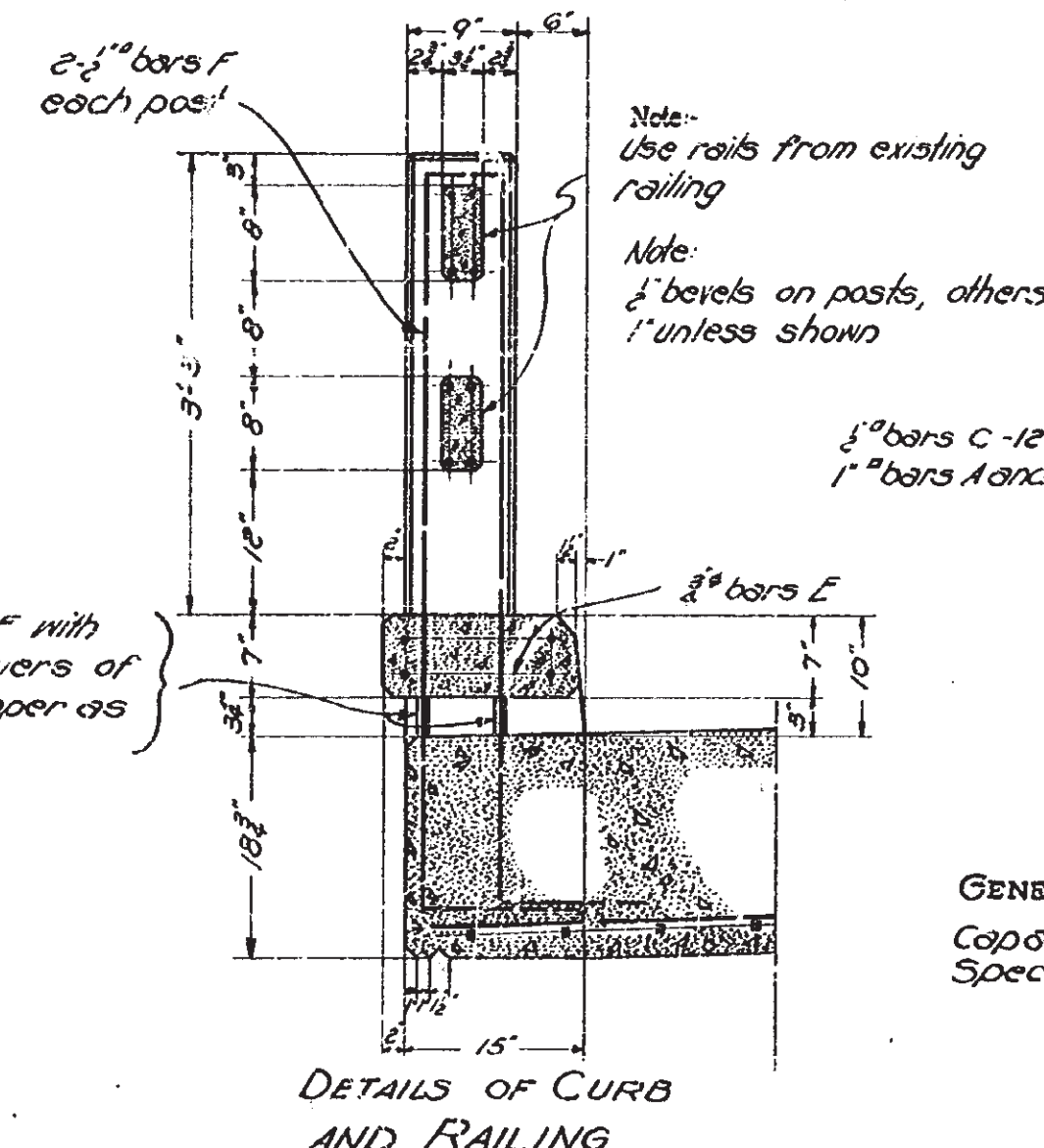
154-6

A 2391-22

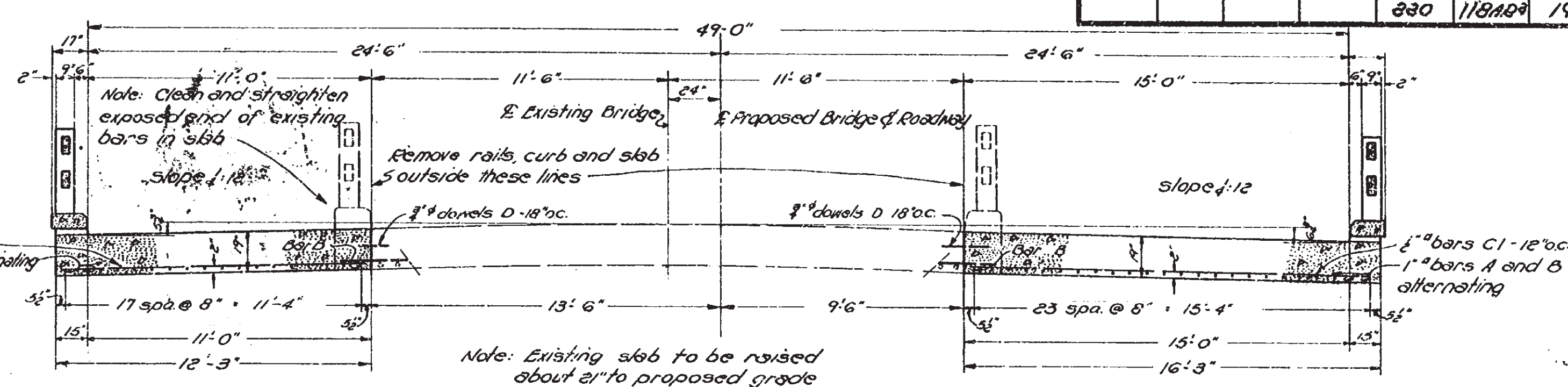
FED. RD. DIST. NO.	STATE	P.R.A. ROUTE	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
				830	118A22	19



ELEVATION



DETAILS OF CURB AND RAILING

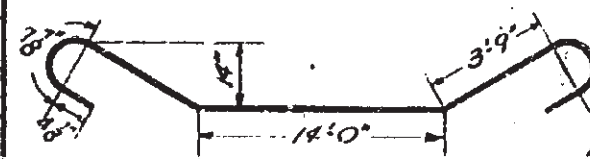
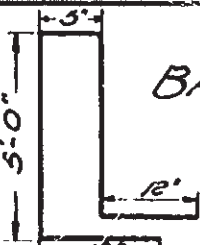


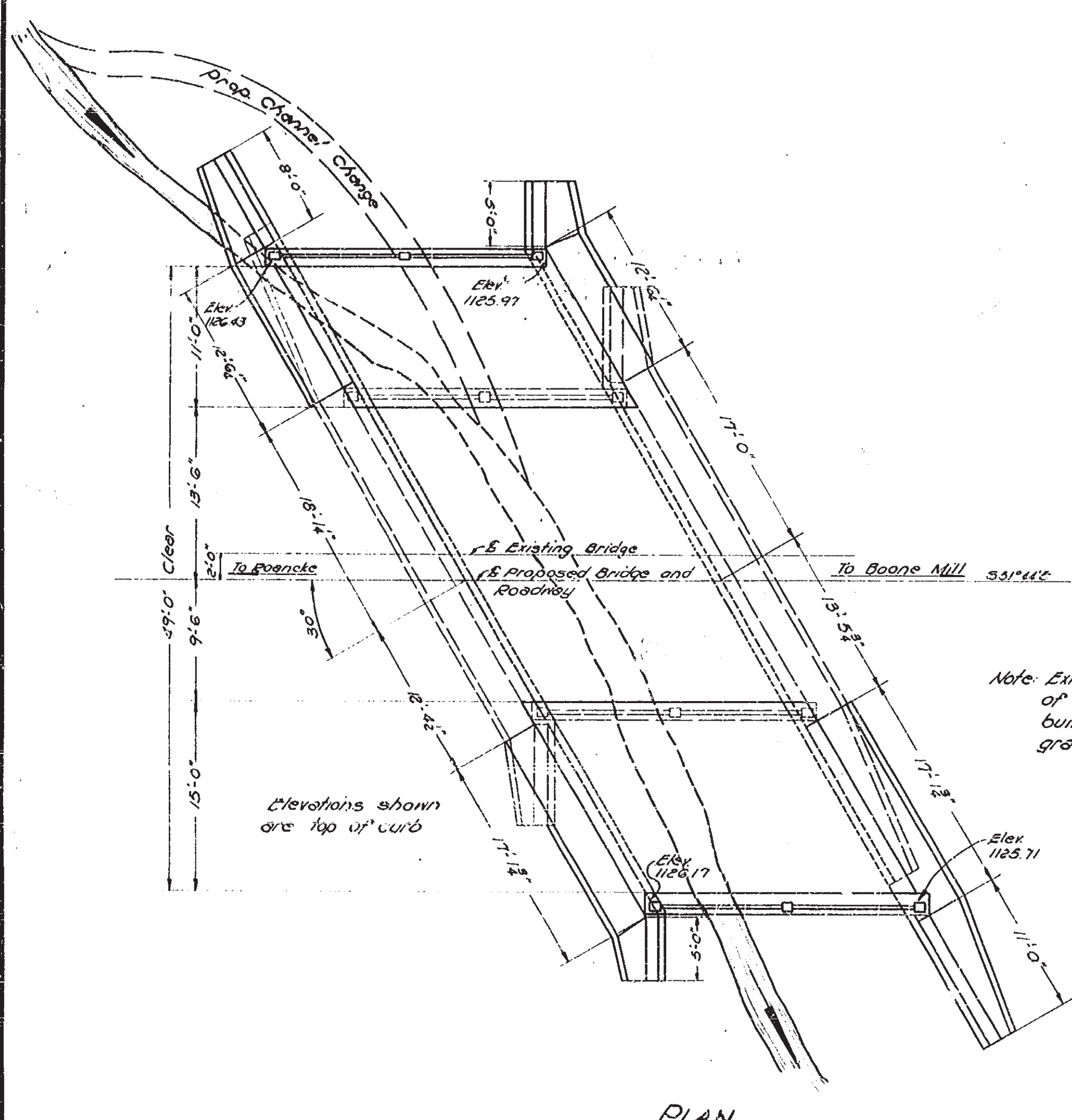
TYPICAL SECTION

GENERAL NOTES

Capacity 15 ton trucks P.R.A.
Specifications: General: Virginia Department of Highways
Bridge Specifications, 1932
Concrete Materials and construction: Virginia Department of Highways Road Specifications, 1938
Design A.A.S.H.O. Specifications for Highway Bridges 1941. H-20 loading

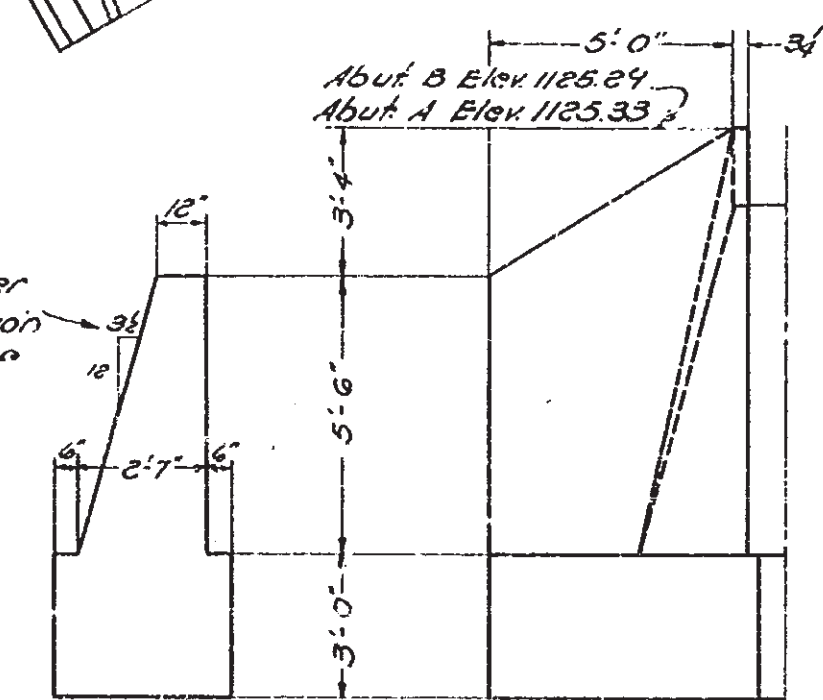
Concrete in superstructure shall be class "A" in substructure class "B".
Stations, elevations and dimensions shown on this plan are approximate and subject to change. Details in general except for width of roadway shall conform to those shown on Standard Plan C-18.
All dimensions required for the accurate computation of quantities shall be measured before any concrete is poured.
Foundation shall be approved by the Engineer.
Cost of removing existing concrete, raising existing slab and maintaining traffic during construction shall be included in the lump sum bid for "Maintaining Traffic & Existing Bridges."

SCHEDULE OF REINFORCING STEEL						
Mark	No.	Size	Length	Location		Bending Diagram
IN SUPERSTRUCTURE						
A	21	1" ^a	23'-6"	Bent	In slab	
B	21	1" ^a	23'-6"	"	"	
C	23	2" ^a	11'-11"	Str.	"	
C1	23	2" ^a	15'-11"	"	"	
D	30	3" ^a	18"	"	"	
E	8	3" ^a	22'-0"	"	curb	
F	12	3" ^a	12'-3"	Bent	posts	
IN SUBSTRUCTURE						
G	8	3" ^a	35'-0"	Str.	In bridge seat	
D	100	3" ^a	18"	"	Neat work & footing	

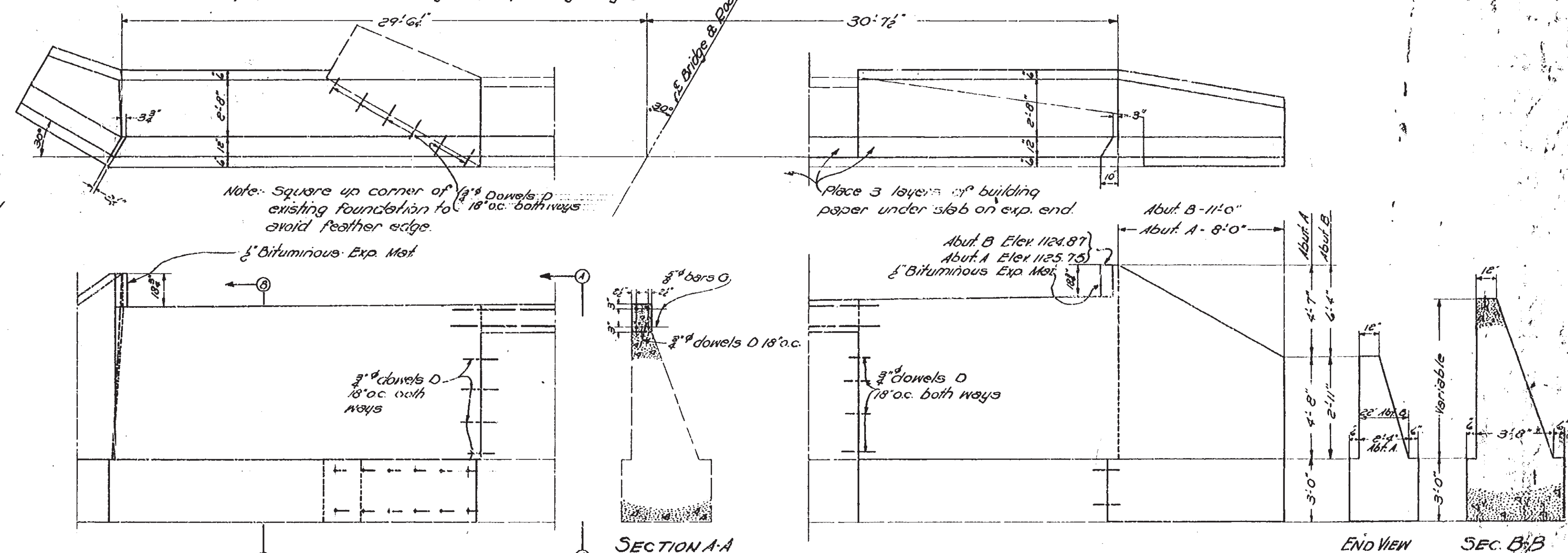


PLAN

Maintain this batter to line of intersection with back face of abutment.



END VIEW
DETAIL OF SHORT WING



SECTION A-A
FRONT ELEVATION OF ABUTMENT

END VIEW
SEC. B-B

REMODELING OF EXISTING BRIDGE AT STA. 203+58

2391-23

7/30/8

734-6