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STANDARD STRUCTURE SHEETS APPROVED BY THE CHIEF ENGINEER VERMONT STATE DEPARTMENT OF HIGHWAYS

S 28	APRIL 26, 1941
S 30	NOV. 10, 1947
S 30A	APRIL 19, 1941
S 40	DEC. 18, 1945

STATE OF VERMONT

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

FEDERAL PROJECT

TOWN OF ARLINGTON

VERMONT ROUTE 11

ARLINGTON, VT. — CAMBRIDGE, N.Y. ROAD

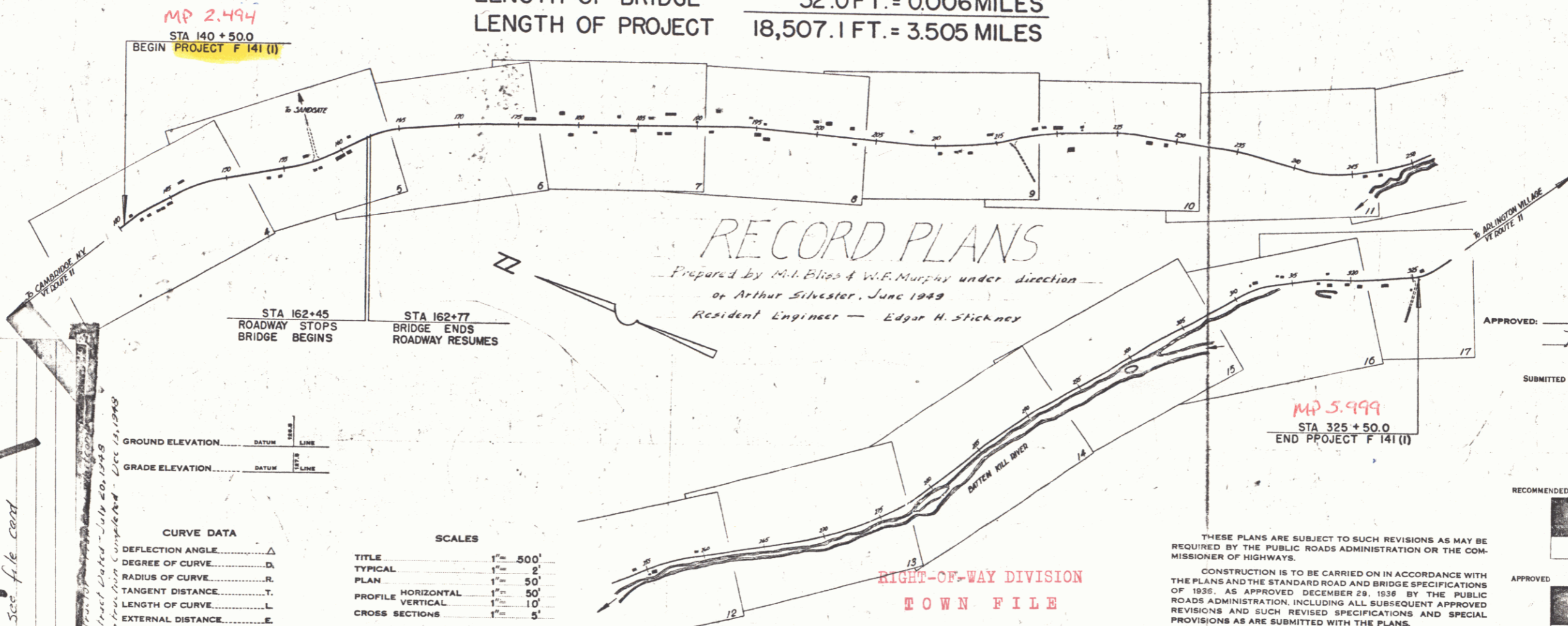
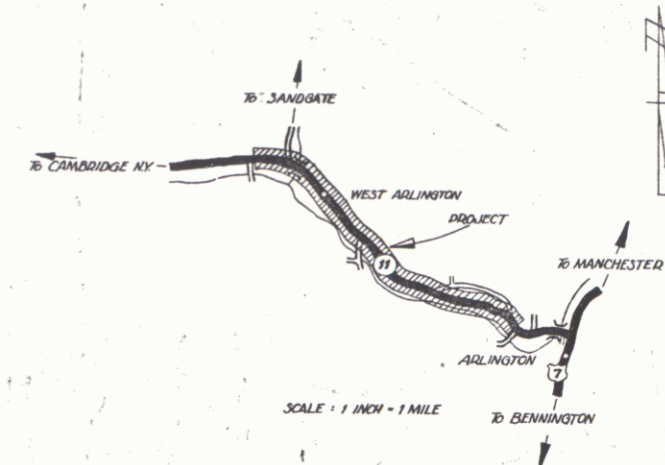
BEGINNING AT A POINT APPROXIMATELY 1725 FT. WESTERLY FROM THE INTERSECTION OF VT. ROUTE 11 AND THE STATE AID ROAD TO SANDGATE (TOWN NO.3) AND EXTENDING SOUTHEASTERLY 18,507.1 FT.

LENGTH OF ROADWAY 18,475.1 FT. = 3.499 MILES

LENGTH OF BRIDGE 32.0 FT. = 0.006 MILES

LENGTH OF PROJECT 18,507.1 FT. = 3.505 MILES

FED. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	Vt.	1947	1	70



RECORD PLANS

Prepared by M.L. Bliss & W.R. Murphy under direction of Arthur Silvester, June 1949  
Resident Engineer — Edgar H. Stickney

APPROVED: 2 April 1948  
*H.E. Sargent*  
COMMISSIONER OF HIGHWAYS  
SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

ITEM	LENGTH	DATE
COUNTY LINE		
TOWN LINE		
FENCE LINE		
STONE WALL		
UNFENCED		
GUARD RAIL		
TRAVELED		
RAILROAD		
RETAINING		
CENTER LINE		
SURVEY LINE		
CULVERT		
DROP INLET		
TROLLEY POLE		
POWER POLE		
TELEPHONE		
TREES		
HEDGE		

GROUND ELEVATION	DATUM	LINE
DATE		
GRADE ELEVATION	DATUM	LINE

CURVE DATA	
DEFLECTION ANGLE	Δ
DEGREE OF CURVE	D
RADIUS OF CURVE	R
TANGENT DISTANCE	T
LENGTH OF CURVE	L
EXTERNAL DISTANCE	E
POINT OF INTERSECTION	P. I.
POINT OF CURVE	P. C.
POINT OF TANGENT	P. T.
POINT ON TANGENT	P. O. T.

SCALES	
TITLE	1" = 500'
TYPICAL	1" = 2'
PLAN	1" = 50'
PROFILE HORIZONTAL	1" = 50'
PROFILE VERTICAL	1" = 10'
CROSS SECTIONS	1" = 5'

RIGHT-OF-WAY DIVISION  
TOWN FILE  
PERPETUAL

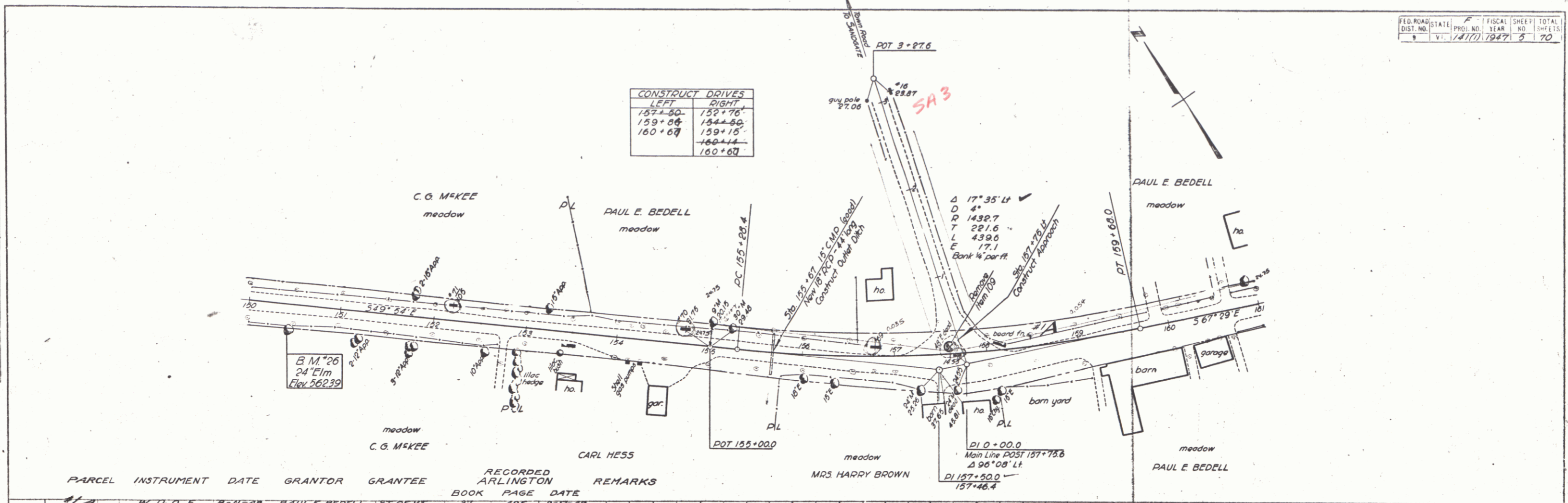
Town of VT 313  
(To Be Returned To R.O.W. Division)

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE PUBLIC ROADS ADMINISTRATION OR THE COMMISSIONER OF HIGHWAYS.  
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD ROAD AND BRIDGE SPECIFICATIONS OF 1935, AS APPROVED DECEMBER 29, 1936 BY THE PUBLIC ROADS ADMINISTRATION, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

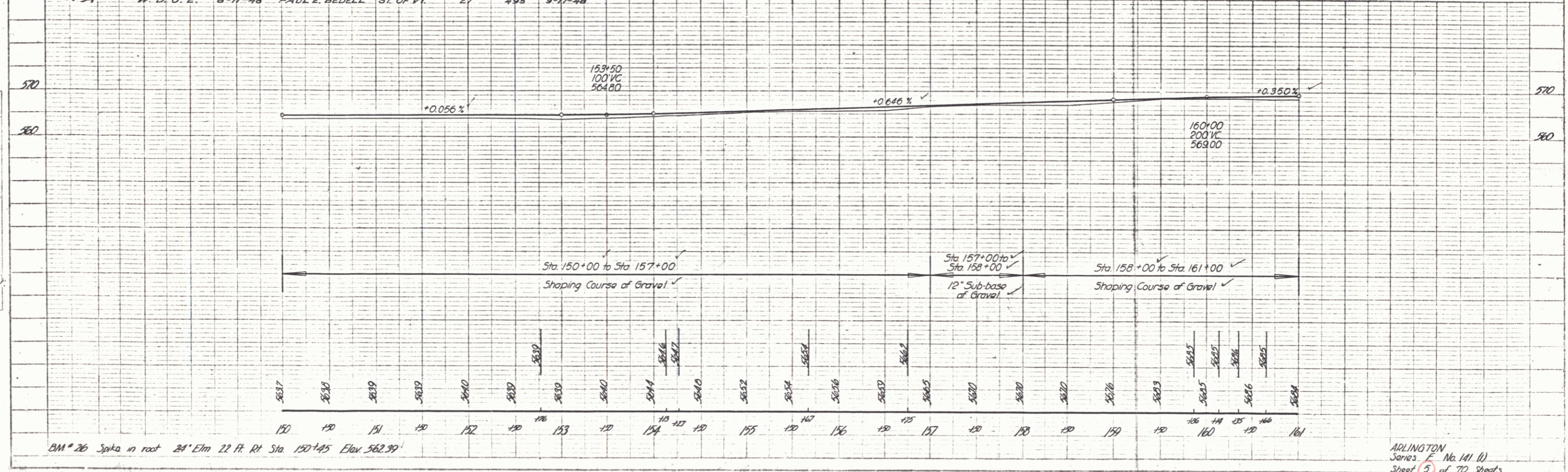
APPROVED: 2 April 1948 <i>C. H. Heston</i> HIGHWAY ENGINEER	APPROVED: 2 April 1948 DISTRICT HIGHWAY COMMISSIONER	SERIES F No. 141(1) FILED SHEET 1 OF 70
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CONSTRUCT DRIVES	
LEFT	RIGHT
157+50	157+70
159+00	154+50
160+00	156+10
	157+00
	159+00



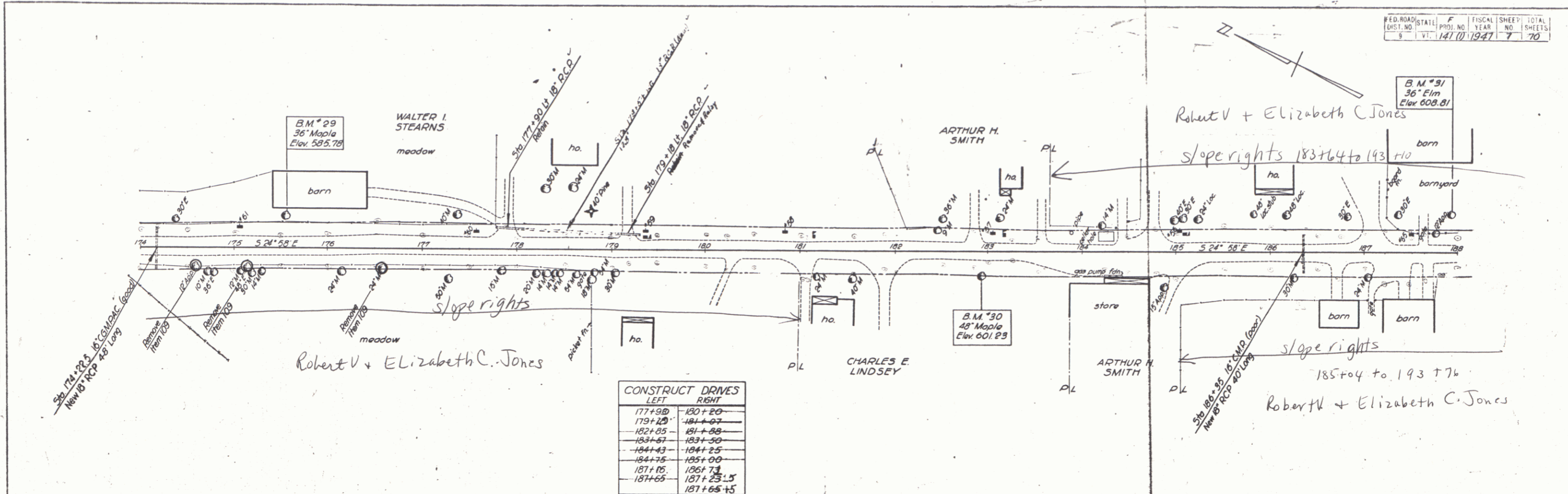
PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED ARLINGTON BOOK	PAGE	DATE	REMARKS
#17	W.D.O.E.	8-11-28	PAUL E. BEDELL	ST. OF VT.	27	495	9-17-28	



B.M. 26 Spike in root 24' Elm 22 ft. Rt. Sta. 150+45 Elev. 562.39

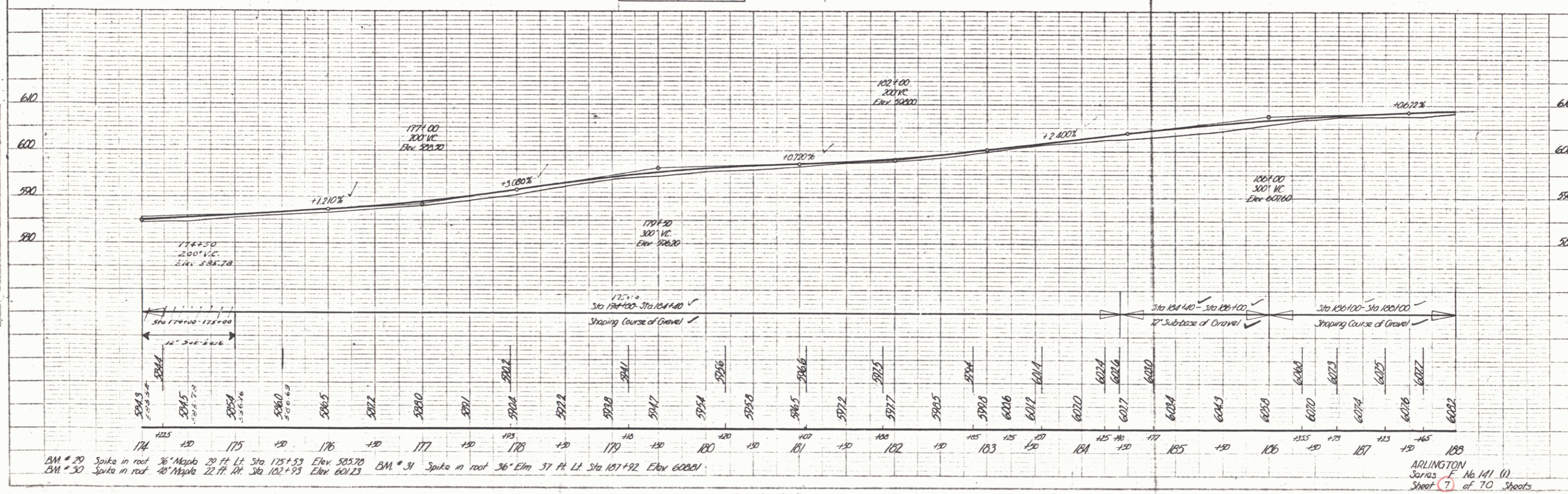


PLAN  
 PROPERTY: Robert V. Jones  
 ENGINEER: L. Jones  
 DATE: 1947



CONSTRUCT DRIVES	
LEFT	RIGHT
177+90	180+20
179+20	181+07
182+05	181+08
183+07	183+50
184+43	184+25
184+75	185+00
187+15	186+73
187+65	187+23.5
	187+65+5

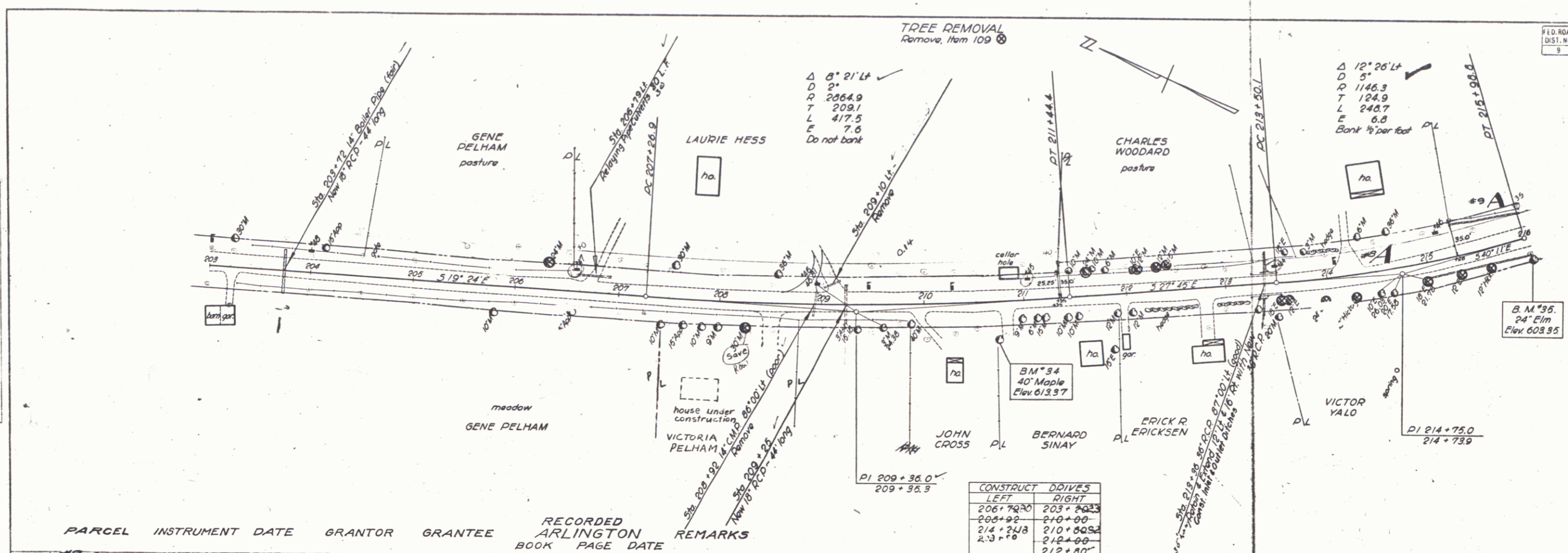
FILE  
 PROPERTY: Robert V. Jones  
 ENGINEER: L. Jones  
 DATE: 1947



BM # 29 Spike in road 36" Maple 29 ft. L.L. Sta 175+53 Elev. 585.78  
 BM # 30 Spike in road 40" Maple 22 ft. H. Sta 182+93 Elev. 601.23  
 BM # 31 Spike in roof 36" Elm 37 ft. L.L. Sta 187+92 Elev. 608.81



FED. ROAD DIST. NO.	STATE	F. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VI.	14177	1947	9	70

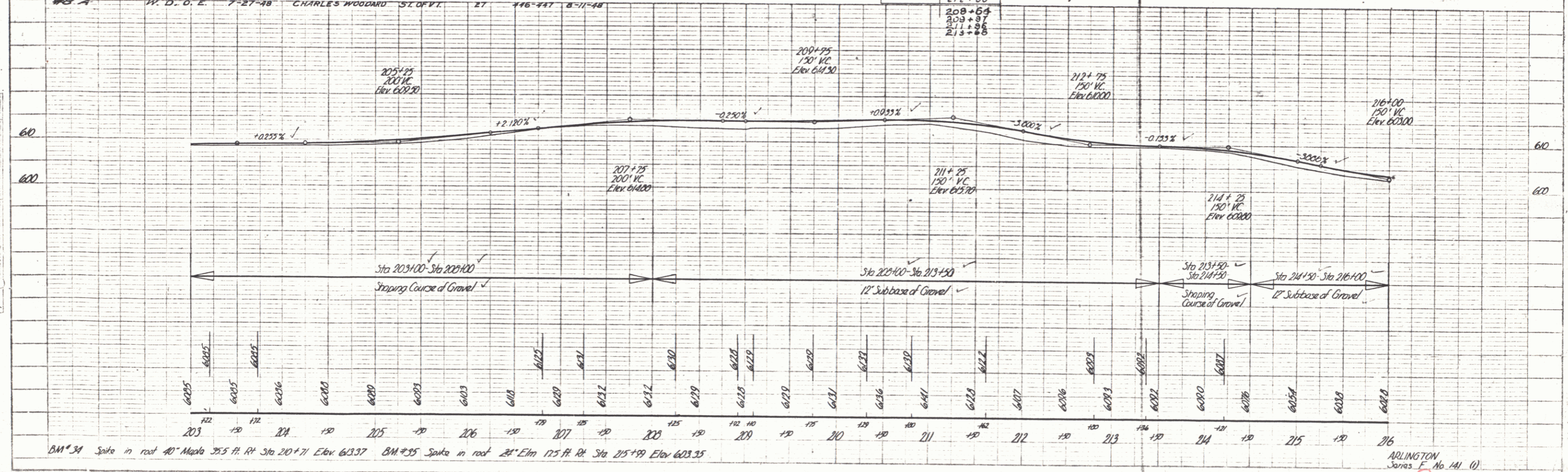


$\Delta$  8' 21" Lt ✓  
 D 2' ✓  
 R 2064.9 ✓  
 T 209.1 ✓  
 L 417.5 ✓  
 E 7.6 ✓  
 Do not bank

$\Delta$  12' 26" Lt ✓  
 D 5' ✓  
 R 1146.3 ✓  
 T 124.9 ✓  
 L 248.7 ✓  
 E 6.8 ✓  
 Bank 1/2 per foot

CONSTRUCT DIVES	
LEFT	RIGHT
206+72.0	203+20.3
206+92	210+00
214+24.8	210+80.2
213+7.8	212+00
	212+80
	208+64
	209+97
	211+28
	213+28

PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED ARLINGTON BOOK PAGE DATE	REMARKS
MS A	W. D. D. E.	7-27-48	CHARLES WOODARD	ST. OF VI.	27 146-447 8-11-48	



BM #34 Spike in road 40' Maple 35.5 ft. Rt Sta 20+71 Elev 613.37  
 BM #35 Spike in road 24' Elm 17.5 ft. Rt Sta 215+99 Elev 603.35

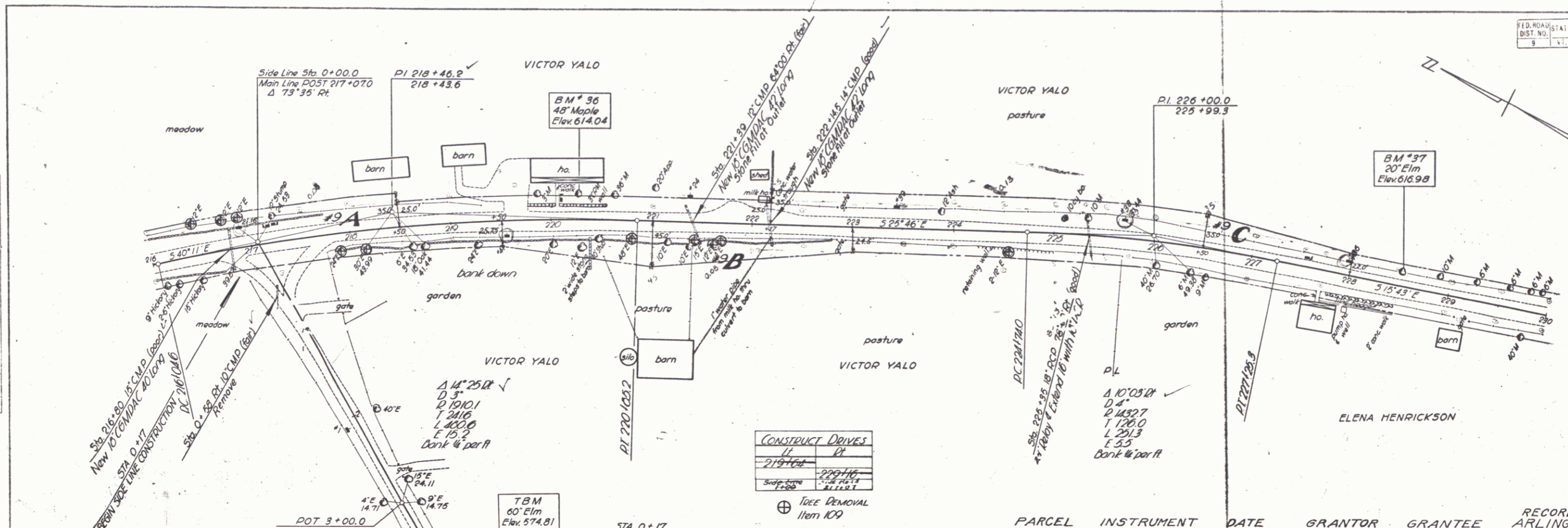
ARLINGTON  
 Series F No. 141 (1)  
 Sheet 9 of 70 Sheets

PLAN  
 DATE 3-16  
 BY A. L. HAYDEN  
 CHECKED L. W. HAYDEN  
 SCALE 1" = 40'

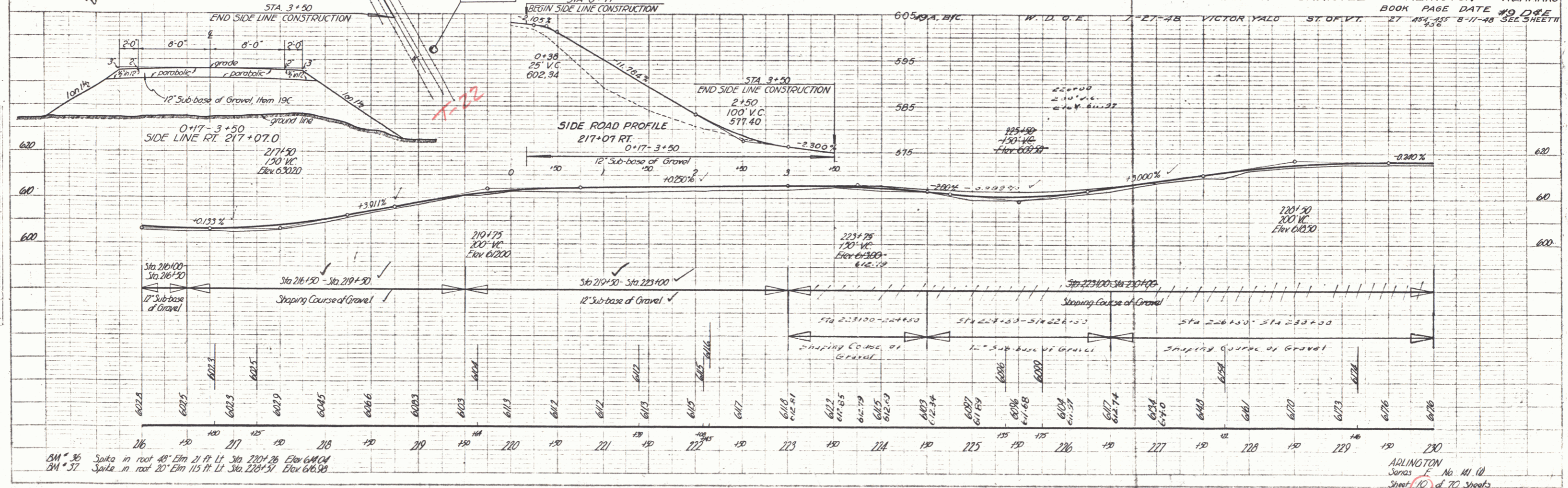
PLAN  
 DATE 3-16  
 BY A. L. HAYDEN  
 CHECKED L. W. HAYDEN  
 SCALE 1" = 40'

PLANS FOR THE ROAD...  
 N.E. & S.W. CORNERS...

PLAN  
 DATE 1/10/27  
 DRAWN BY J. L. LAMM  
 CHECKED BY J. L. LAMM

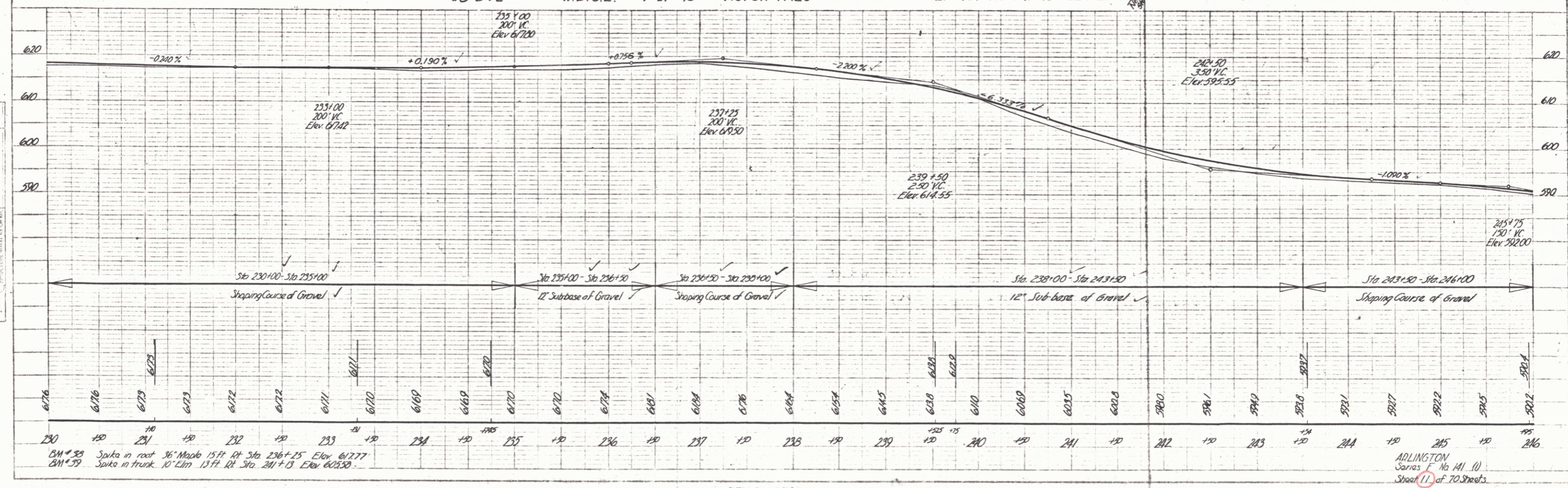
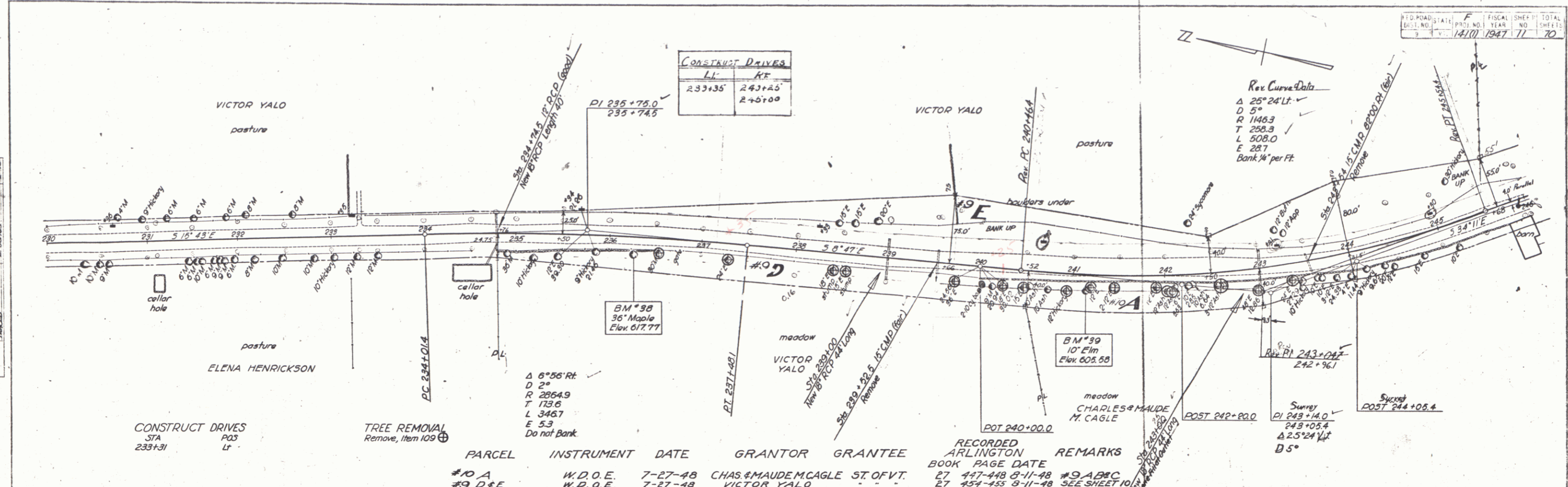


PROFILE  
 DATE 1/10/27  
 DRAWN BY J. L. LAMM  
 CHECKED BY J. L. LAMM



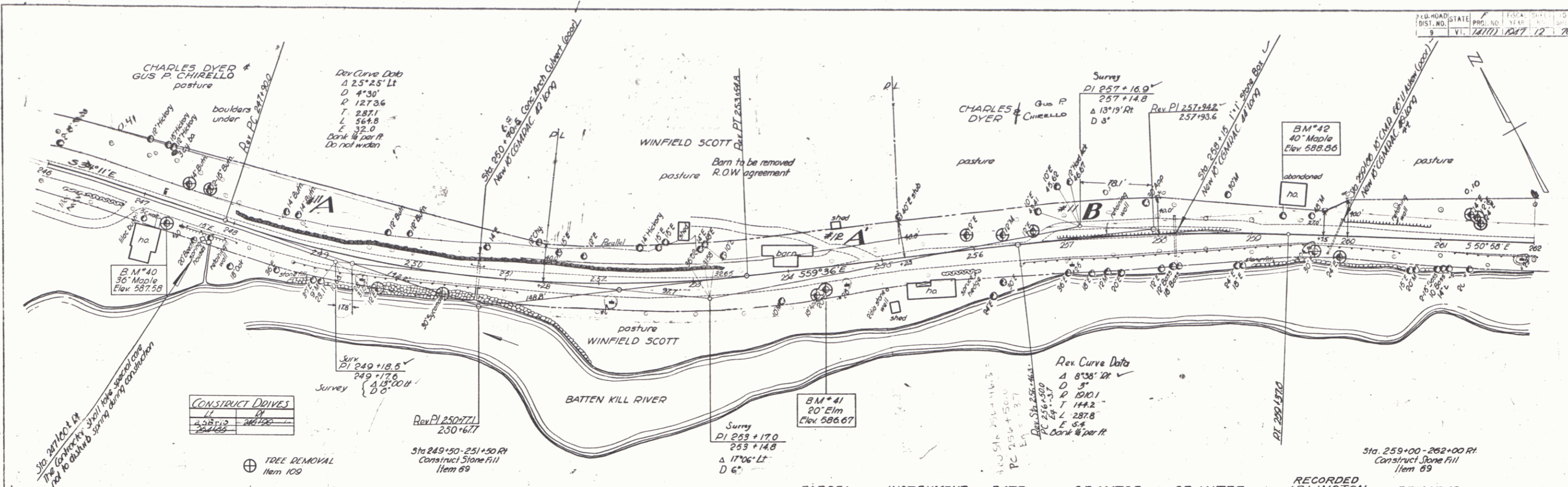
BM # 36 Spike in root 48' Elm 217 ft. Lt. Sta. 220+26 Elev. 614.04  
 BM # 37 Spike in root 20' Elm 115 ft. Lt. Sta. 226+57 Elev. 616.98

ARLINGTON  
 Series F No. 141 (1)  
 Sheet 10 of 10 Sheets



PLAT NO. 14107  
 STATE ILL.  
 FISCAL YEAR 1947  
 SHEET NO. 71  
 TOTAL SHEETS 70

Author: A. Lamm  
 Engineer: A. Lamm  
 Date: 7-48



PLAN

DATE: 12-1-46  
 DRAWN BY: J. Jones  
 CHECKED BY: J. Jones

TITLE: Batten Kill River  
 DRAWN BY: J. Jones  
 CHECKED BY: J. Jones

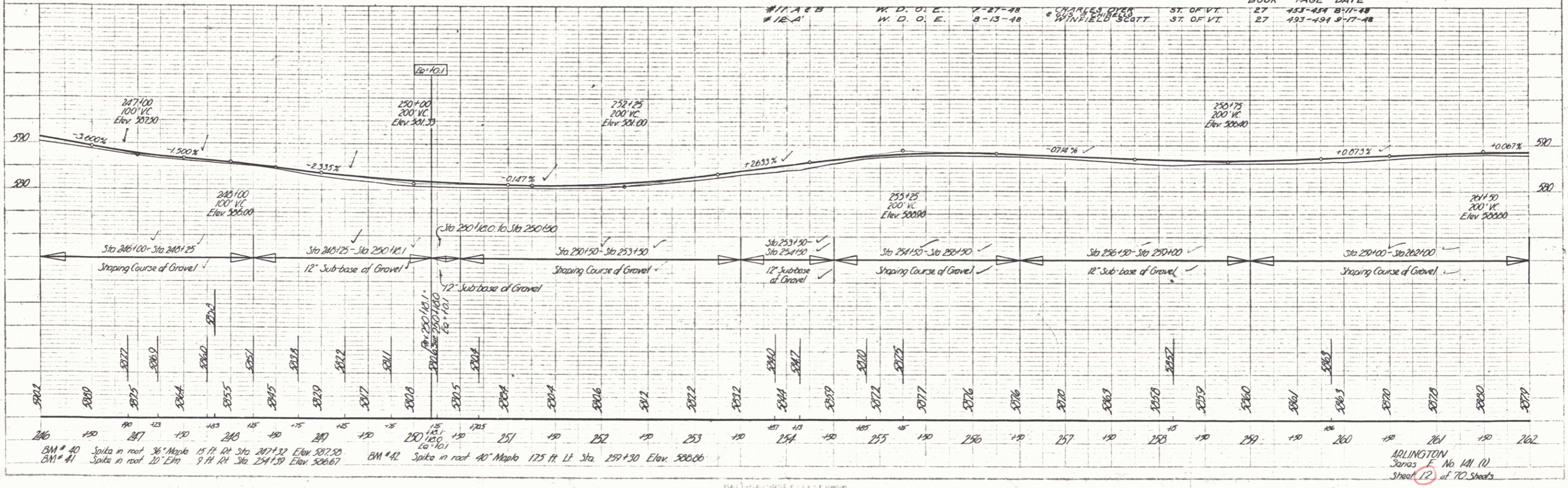
CONSTRUCT DRIVES

246+00	246+100
247+125	247+125

PARCEL	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED ARLINGTON	REMARKS
#11 A & B	W. D. O. E.	7-27-48	CHARLES DYER	ST. OF VT.	27 453-454 8-11-48	
#12 A	W. D. O. E.	8-13-48	WINFIELD SCOTT	ST. OF VT.	27 493-494 9-17-48	

RECORDED ARLINGTON

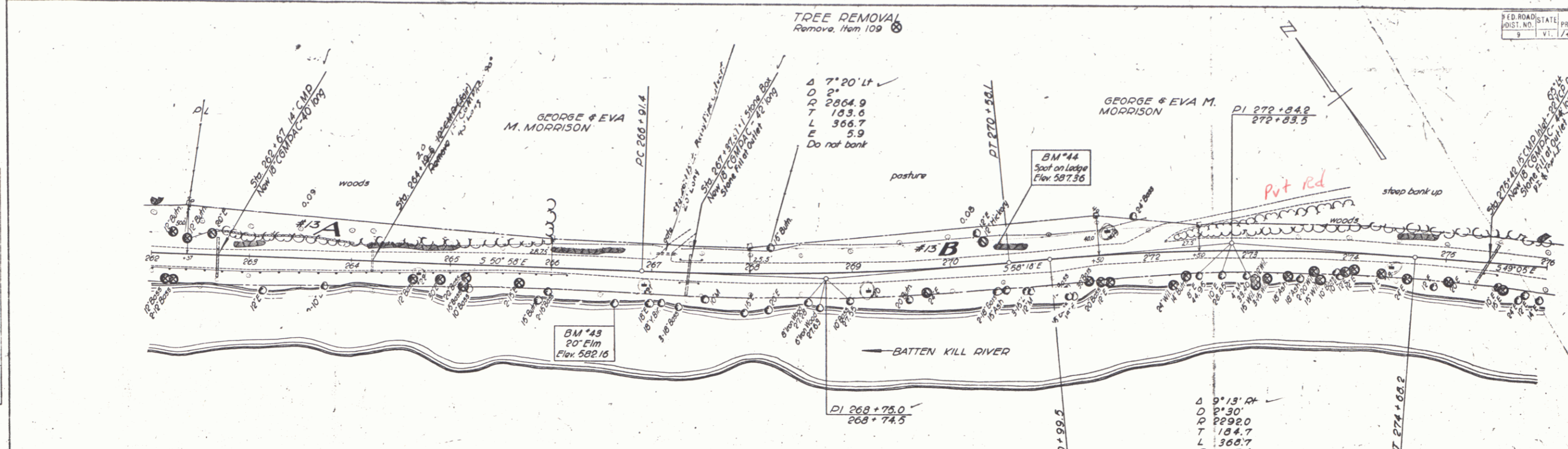
BOOK	PAGE	DATE	REMARKS
27	453-454	8-11-48	
27	493-494	9-17-48	



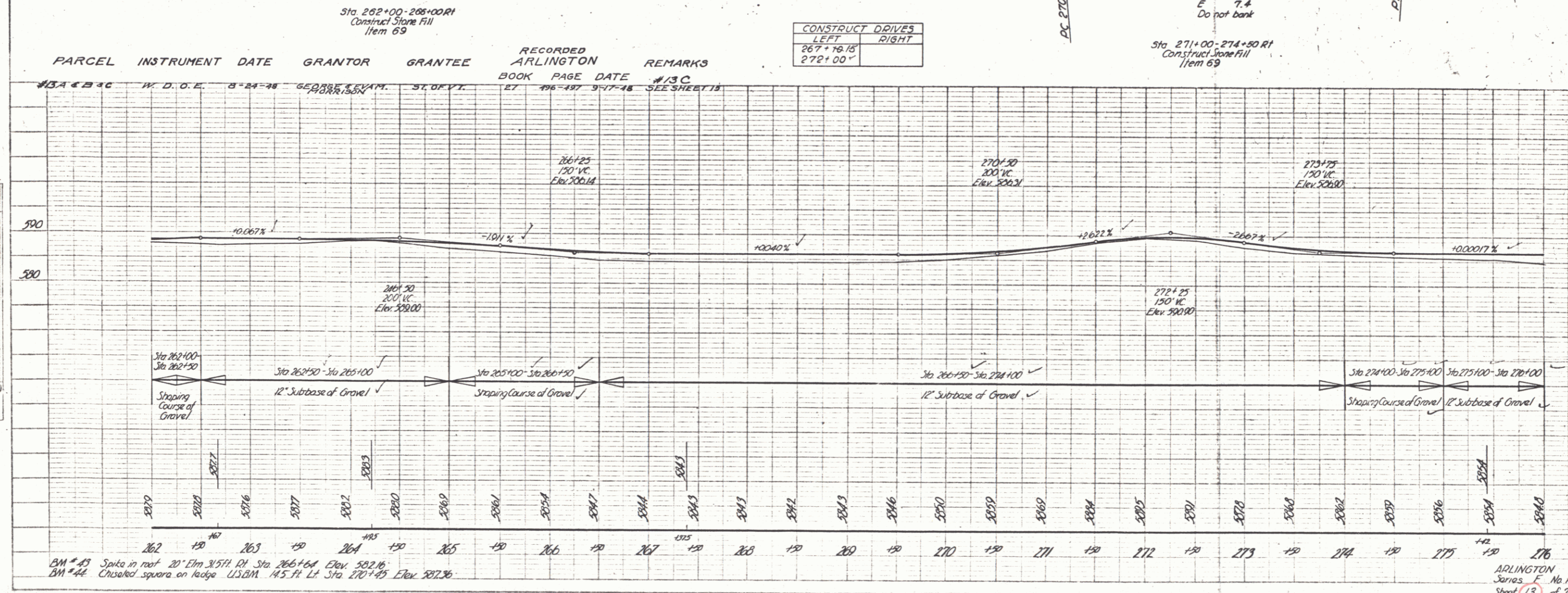
B.M.#40 Spikes in road 36' Maple 15 ft. RH Sta. 247+32 Elev. 587.50  
 B.M.#41 Spikes in road 20' Elm 9 ft. RH Sta. 254+30 Elev. 586.67  
 B.M.#42 Spikes in road 40' Maple 175 ft. LH Sta. 259+30 Elev. 586.66

ARLINGTON  
 Series F No. 141 (1)  
 Sheet 12 of 70 Sheets

PLAN  
 DRAWN BY  
 CHECKED BY  
 DATE  
 NO.



PROFILE  
 DRAWN BY  
 CHECKED BY  
 DATE  
 NO.

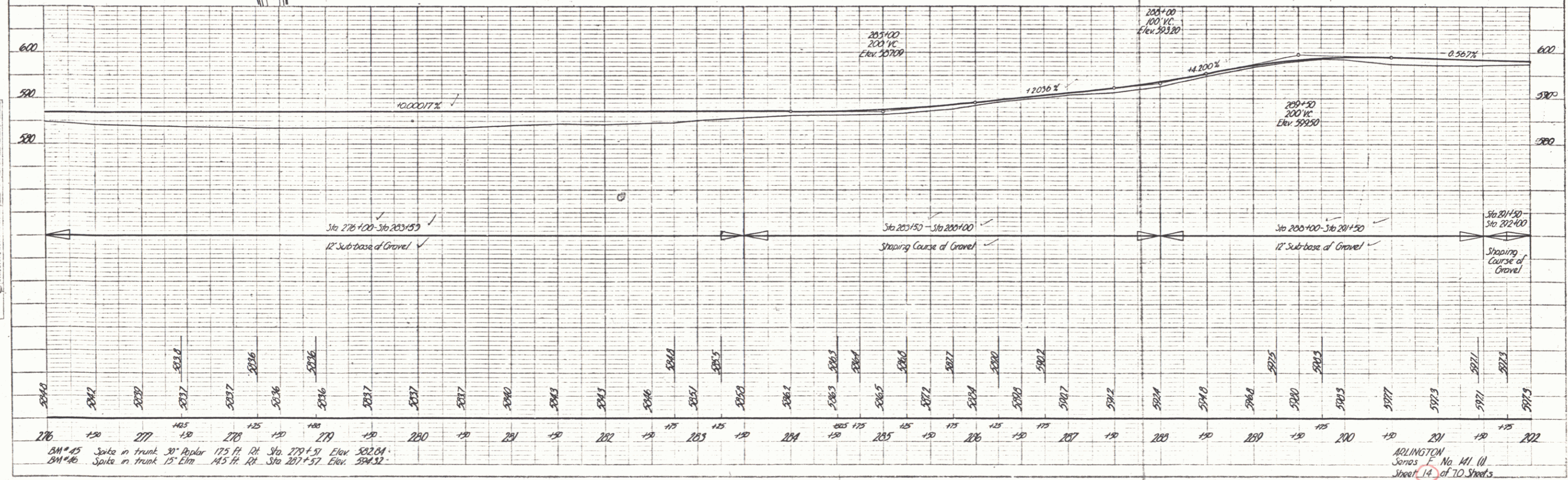
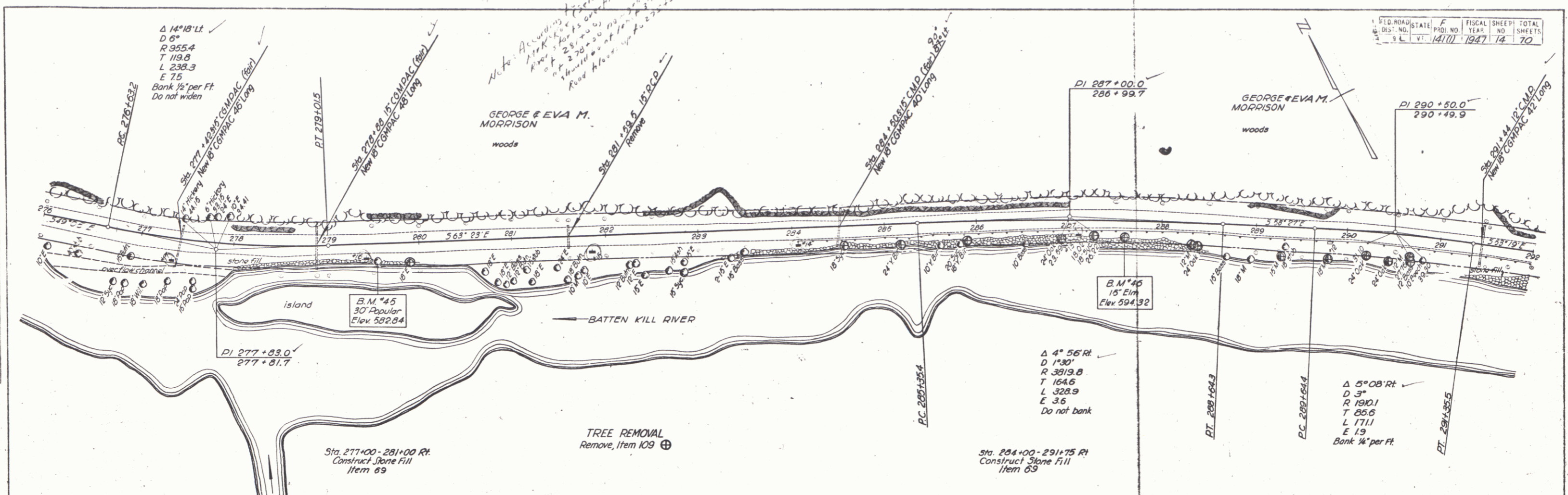


BM #43 Spike in roof 20' Elm 3/571 DI Sta. 266+64 Elev. 302.16  
 BM #44 Chiseled square on ledge USBM 145.11 Lt Sta. 270+45 Elev. 302.36

PLAN  
 DATE: 11-17-74  
 DRAWN BY: J. L. WOODS  
 CHECKED BY: J. L. WOODS

PROFILE  
 DATE: 11-17-74  
 DRAWN BY: J. L. WOODS  
 CHECKED BY: J. L. WOODS

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
VT	1977	74	70

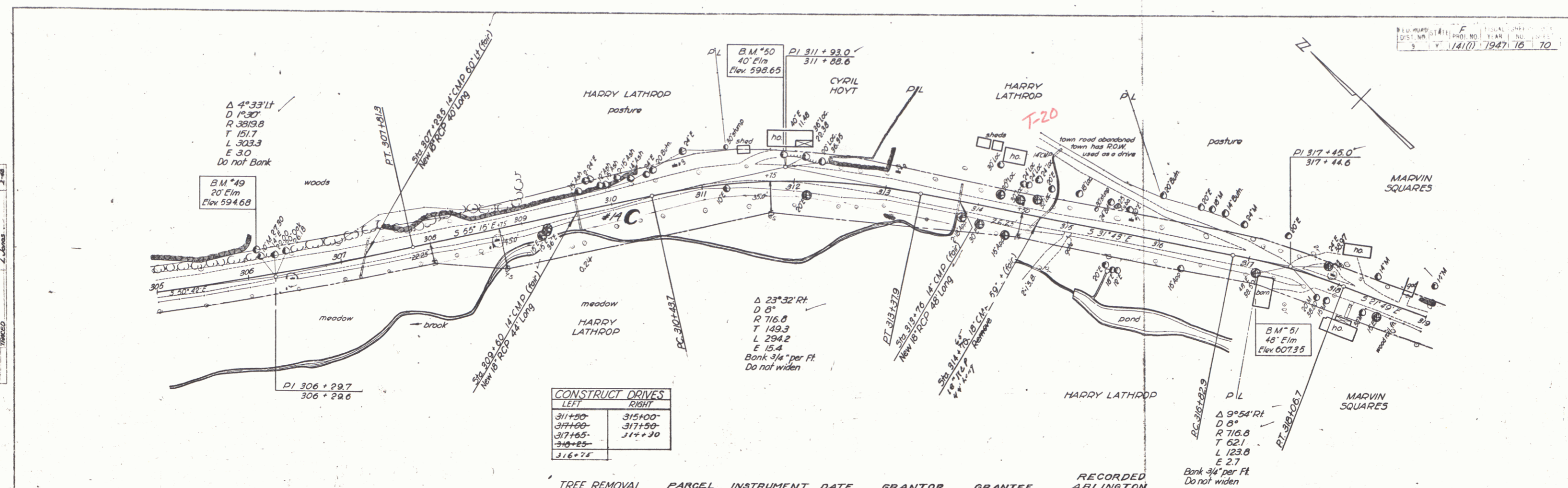


B.M. #45 Spike in trunk 30' Poplar 175 Ft. Rt. Sta. 278+51 Elev. 582.84  
 B.M. #46 Spike in trunk 15' Elm 145 Ft. Rt. Sta. 287+57 Elev. 594.32

ARLINGTON  
 Series E No. 141 (I)  
 Sheet 14 of 10 Sheets

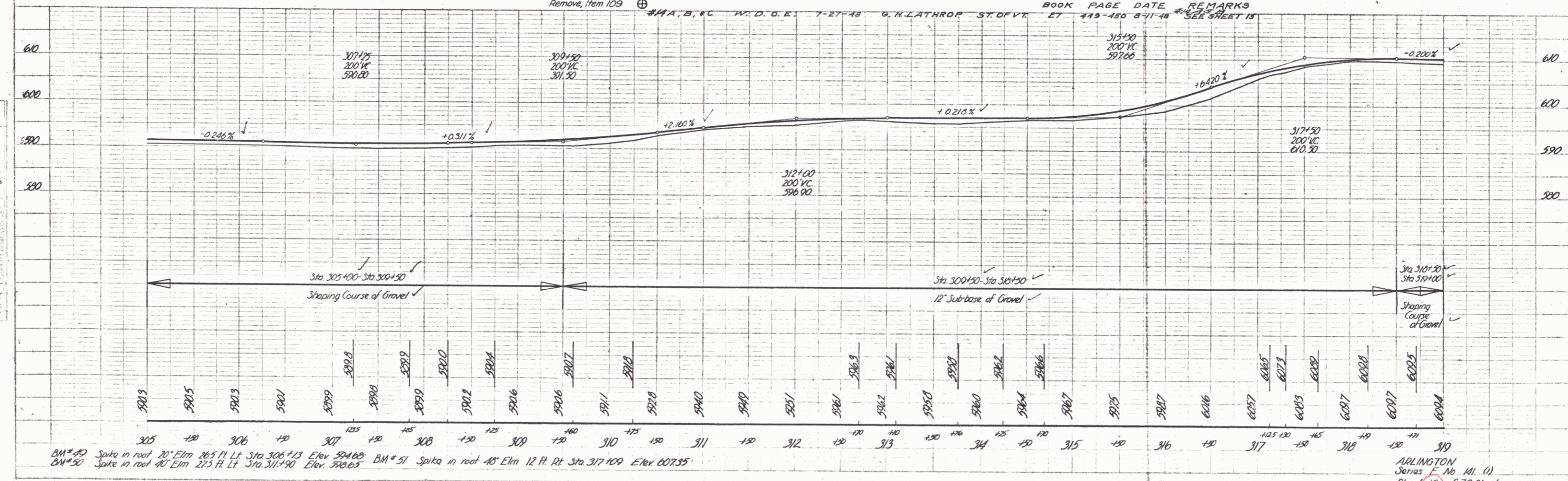
PLATE 1 - PLAN - PROFILE & P.A.S. & STANDARDS  
 REVISIONS  
 N.E. CO. NO. 540-10





CONSTRUCT DRIVES	
LEFT	RIGHT
311+50	315+00
317+60	317+50
317+65	314+30
316+75	

TREE REMOVAL	PARCEL INSTRUMENT DATE	GRANTOR	GRANTEE	RECORDED ARLINGTON	BOOK	PAGE	DATE	REMARKS
Remove Item 109	7-27-48	G. H. LATHROP	ST. OVYR	27	449-450	5-11-48	SEE SHEET 15	



PLAN  
NOTE: SHOW ALL CURVES TO BE CONSTRUCTED

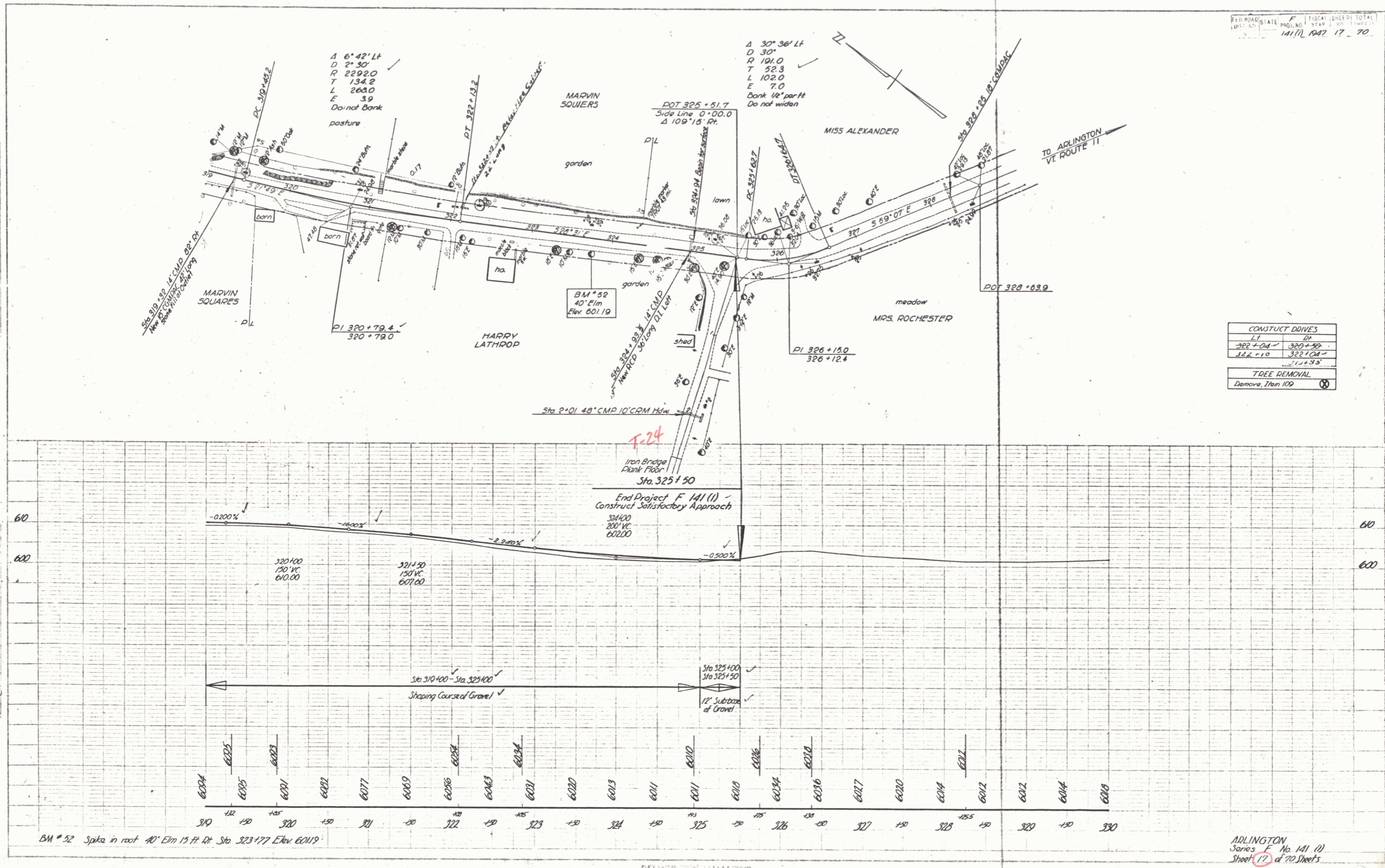
Profile - A Lathrop  
August 1948  
August 1948

B.M. #49 Spike in roof 20' Elm 26.5 Ft Lt Sta 306+13 Elev 594.68  
B.M. #50 Spike in roof 40' Elm 27.5 Ft Lt Sta 311+90 Elev 598.65  
B.M. #51 Spike in roof 48' Elm 12 Ft Rt Sta 317+09 Elev 607.35

ARLINGTON  
Series F No 141 (1)  
Sheet 15 of 70 Sheets

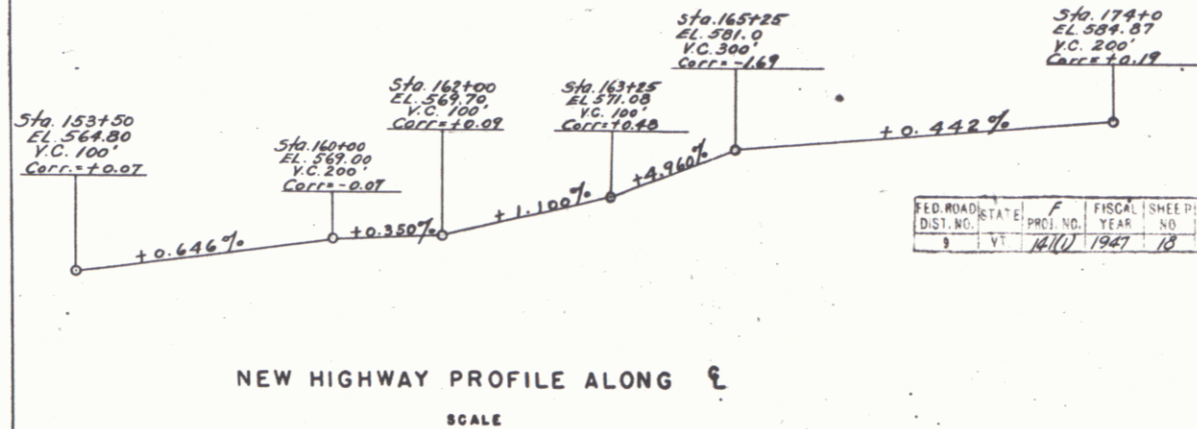
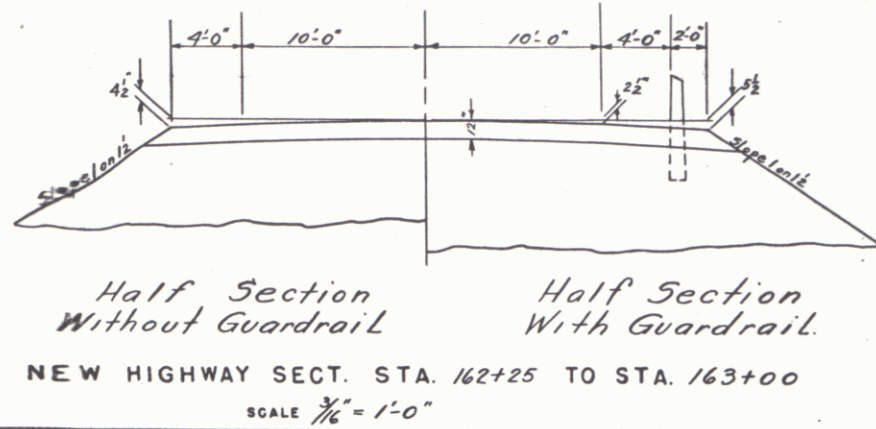
PLAN  
 DATE: 5-26  
 DRAWN BY: L. Jones  
 CHECKED BY: J. W. Jones

PROFILE  
 DATE: 5-26  
 DRAWN BY: A. Lamm  
 CHECKED BY: J. W. Jones

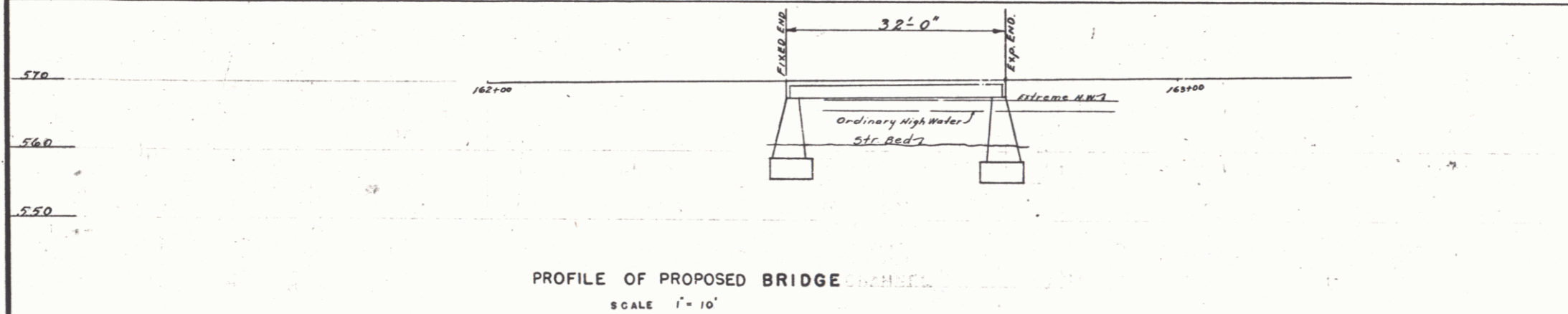
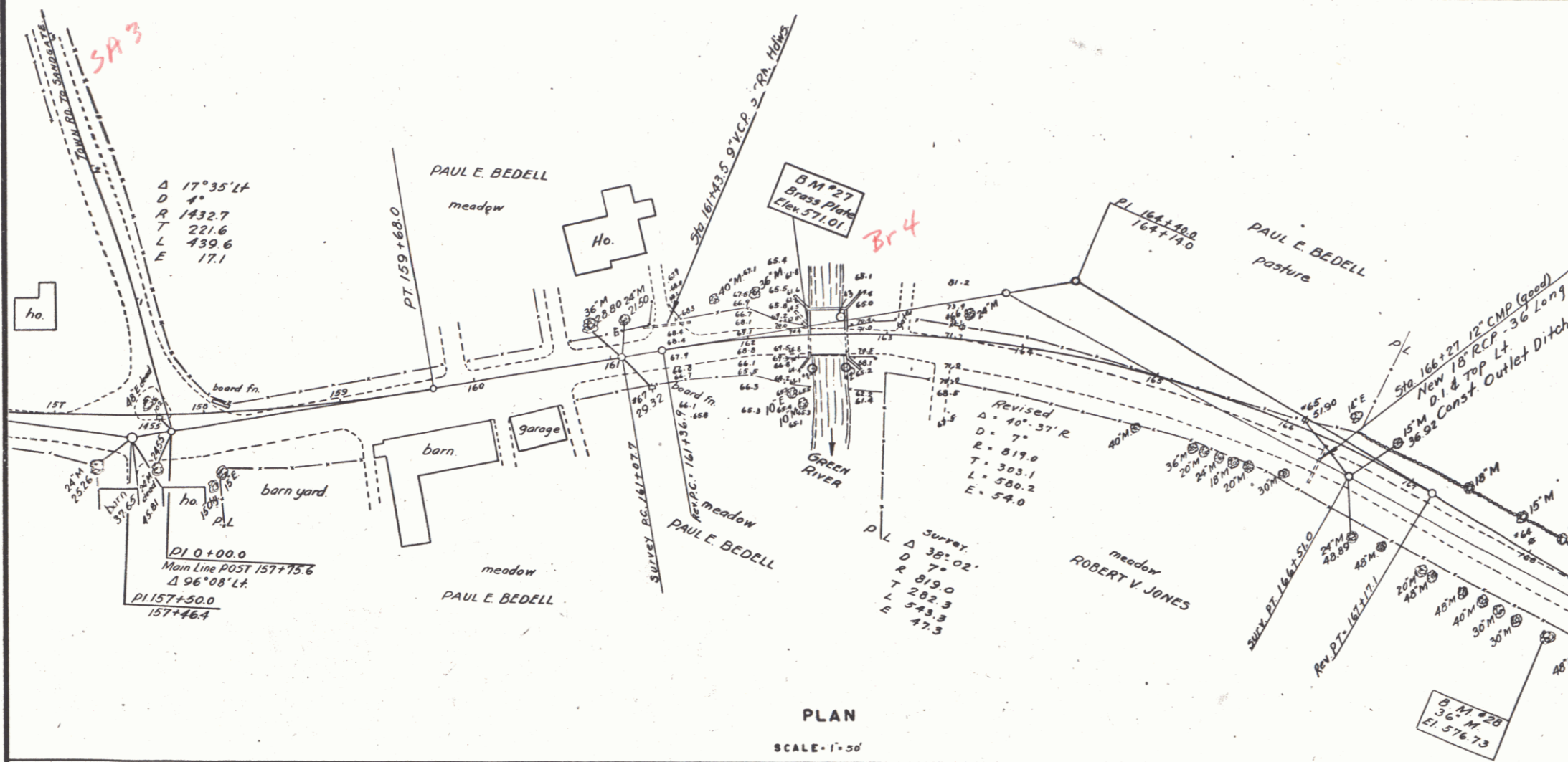


BM # 52 Spike in roof 40' Elm 15 ft. Rt. Sta. 323+77 Elev. 601.19

ADLINGTON  
 Jones F. No. 141 (1)  
 Sheet 17 of 70 Sheets



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	Vt.	1410	1947	18	70



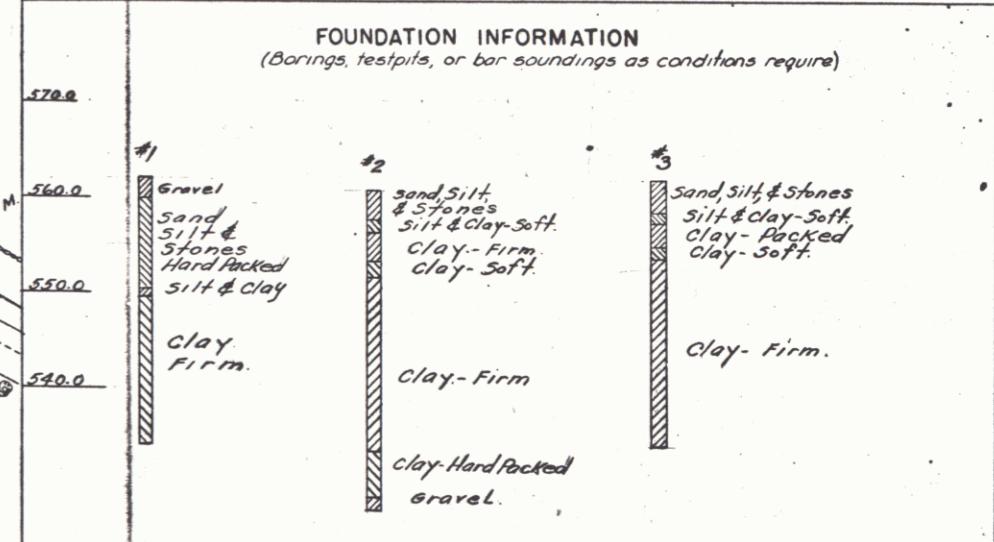
Highway No. VT RT 11 Name of Highway \_\_\_\_\_  
 Structure No. 1 County Bennington Town Arlington  
 Approved \_\_\_\_\_ Date \_\_\_\_\_  
 Bridge Engineer, Dist. No. 9

**EXISTING STRUCTURE**

1. Posted loading of existing structure Not Posted
2. Location and type of existing structure Vt. Rt. 11 (op. Sta. 153+51 - Town of Arlington) T. Am.
3. Underclearance elevation of existing structure EL 567.6
4. What disposition should be made of the existing structure and probable cost of removal? Bridge to be widened
5. Should existing structure be utilized to maintain traffic during construction of new structure? Yes
6. Should new temporary structure be built? No
7. Ordinary high water surface elevation of existing structure up stream 646.5 No Street D.S.
8. Extreme high water of existing structure EL 567.5
9. Span and waterway area below ordinary high water surface elevation of existing structure up stream Span 15' Waterway area 75'
10. Type of foundation under existing abutments Piles under Abut. 1 - No piles under Abut. #2
11. If existing structure is to be widened or extended, attach sketch containing complete data to prepare plans for widening or extending and to determine safe loading capacity, substructure, and superstructure See enclosed Sheet 75

**NEW STRUCTURE**

1. Recommended type of structure 32'-0" Conc. T. Arch new Piles - Widen old bridge to obtain 38' clear span
2. Recommended clear span or spans Measured parallel to C. new highway 28'-0"
3. Measured at right to 10' E. Stream 28'-0"
4. Are there objections to a pier in the stream, answer yes or no Yes
5. Ordinary high water - location of new structure EL 566.0
6. Ordinary elevation of water at new structure EL 563.0
7. Extreme high water elevation at new structure EL 567.5
8. Does stream reach its maximum high water elevation rapidly? No Is ordinary rise rapid steady?
9. Low water elevation at new structure EL 562.0
10. Drainage area in acres above structure 126.50 Character of terrain Hilly
11. Is stream ever dry? No
12. Velocity of stream at high water stage 10 FT. per Sec.
13. Recommended waterway area below ordinary high water elevation, measured at 1/2 to 1/4 of stream 40'
14. Does erosion occur? Slight
15. Does stream carry light, medium or heavy drift and ice? Light
16. Should roadway be banked? If so how much per foot? Yes - 4" in 10 Ft.
17. Are sidewalks required? If so, on what side? None Both sides?
18. Recommended type of pavement Gravel with double tack coat of Tar on approaches
19. Traffic to be maintained under what item no? 18 One or two ways? 1 Probable cost 500.00
20. Probable cost of clearing and grubbing stream channel at structure site 40.00
21. Should provisions be made for public utilities? No
22. Estimated allowable load on foundations 2 Ten Should piles be used? Abut. Est. lgh. 80 FT.



RECOMMENDED FOR APPROVAL

STATE OF VERMONT  
DEPT. OF HIGHWAYS

APPROVED

CORRECT APRIL 2 1948 APPROVED APRIL 6 1948  
 BRIDGE ENGINEER COMMISSIONER OF HIGHWAYS

ARLINGTON F-141 (1)  
 Sheet 18 of 70 Sheets