

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	Vt.	1157A	1928	1	123

INDEX OF SHEETS

SHEET NO.	TITLE PAGE
2A	TYPICAL CROSS-SECTION OF IMPROVEMENT (CONCRETE)
3	(MACADAM)
PLAN AND PROFILE STA.	
5	0+00 - 8+00
6	8+00 - 24+00
7	24+00 - 38+00
8	38+00 - 54+00
9	54+00 - 69+00
10	69+00 - 84+00
11	84+00 - 99+00
12	99+00 - 114+00
13	114+00 - 129+00
14	129+00 - 145+00
15	145+00 - 159+00
16	159+00 - 175+00
17	175+00 - 191+00
18	191+00 - 207+00
19	207+00 - 223+00
20	223+00 - 236+00
21	236+00 - 252+00
22	252+00 - 268+00
23	268+00 - 280+00
24	280+00 - 292+00
25	292+00 - 308+00
26	308+00 - 324+00
27	324+00 - 340+00
28	340+00 - 355+00
29	355+00 - 371+00
30	371+00 - 387+00
31	387+00 - 402+00
32	402+00 - 413+00
33	413+00 - 427+00
34	427+00 - 441+00
35	441+00 - 446+65
36	BRIDGE, STA. 83+78
45 TO 123 CROSS SECTION SHEETS	

STATE OF VERMONT  
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY

FEDERAL AID PROJECT

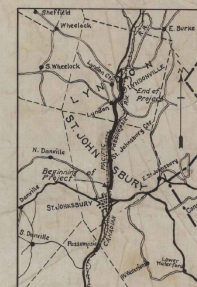
TOWNS OF ST. JOHNSBURY-LYNDON  
ST. JOHNSBURY-LYNDONVILLE ROAD

BEGINNING AT "HASTINGS" BRIDGE IN ST. JOHNSBURY VILLAGE  
AND EXTENDING NORTH TO THE PRESENT WOODEN BRIDGE  
NEAR THE LYNDONVILLE CREAMERY

LENGTH OF CONTRACT 43,667.9 FT. = 8.270 MILES

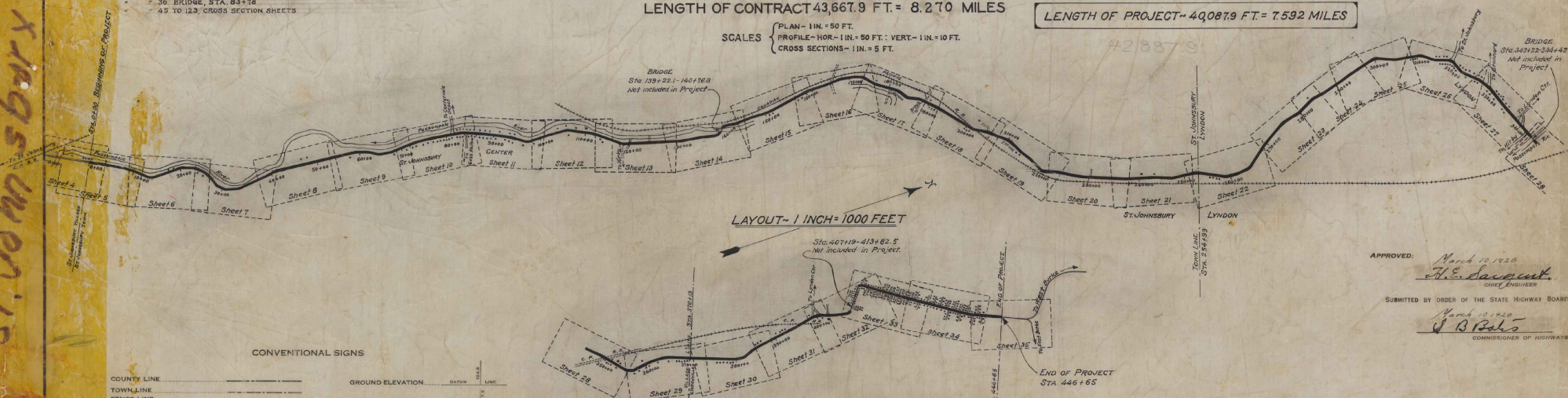
LENGTH OF PROJECT 40,087.9 FT. = 7.592 MILES

PLAN - 1 IN. = 50 FT.  
PROFILE - HOR. - 1 IN. = 50 FT.; VERT. - 1 IN. = 10 FT.  
CROSS SECTIONS - 1 IN. = 5 FT.



SCALE - 1 IN. = 4 MI.

St. Johnsbury x 28



LAYOUT - 1 INCH = 1000 FEET

CONVENTIONAL SIGNS	
COUNTY LINE	GROUND ELEVATION
TOWN LINE	FENCE LINE
STONE WALL	GRADE ELEVATION
UNFENCED PROPERTY	
GUARD RAIL	
TRAVELLED WAY	
RAILROAD	
RETAINING WALL	
CENTER LINE	
SURVEY LINE	
CULVERT	
DROP INLET	
TROLLEY POLE	
POWER POLE	
TELEPHONE POLE	

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.

This project to be constructed in accordance with Standard Specifications on file with the U.S. Bureau of Public Roads as approved July 7, 1926, except for Bituminous Macadam Surface Course, Item 22, for which revised specifications have been submitted to the Bureau of Public Roads.

All structures on this project to be constructed in accordance with details given on standard Structure Sheets, Series Nos. 17, 18 and 19

THESE PLANS SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE CHIEF ENGINEER.

APPROVED: *March 10 1928*  
*H. E. Edgerton*  
CHIEF ENGINEER

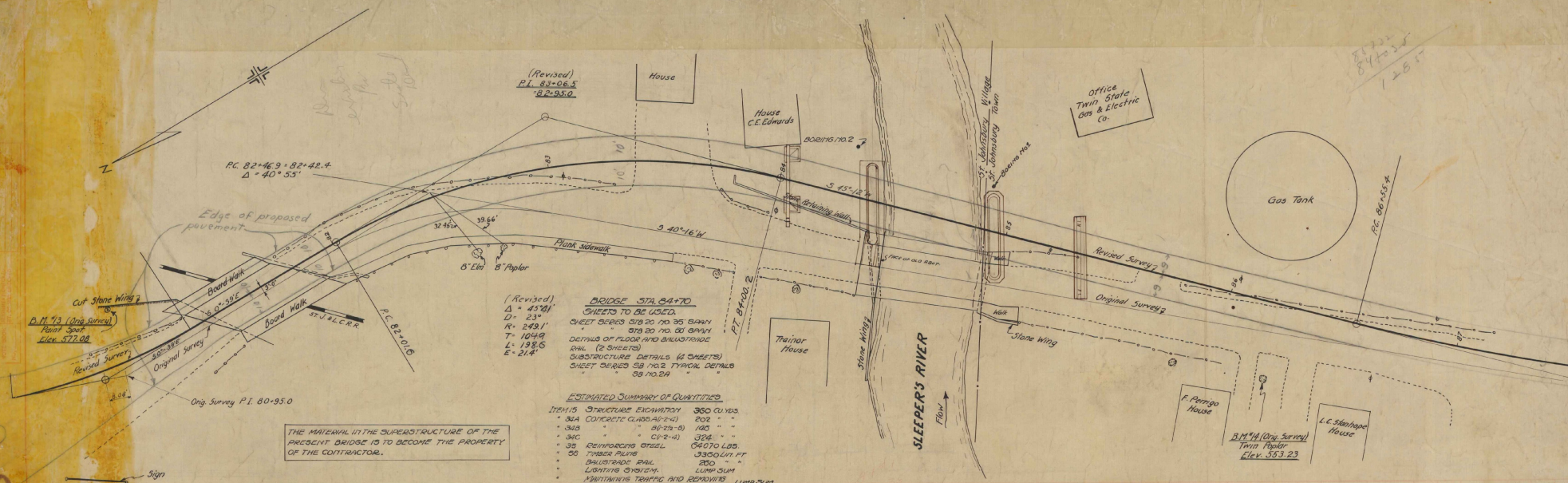
SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD  
*March 10 1928*  
*J. B. Bates*  
COMMISSIONER OF HIGHWAYS

RECOMMENDED [REDACTED]  
DISTRICT ENGINEER BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL [REDACTED]  
CHIEF ENGINEER BUREAU OF PUBLIC ROADS

APPROVED [REDACTED]  
DIRECTOR BUREAU OF PUBLIC ROADS

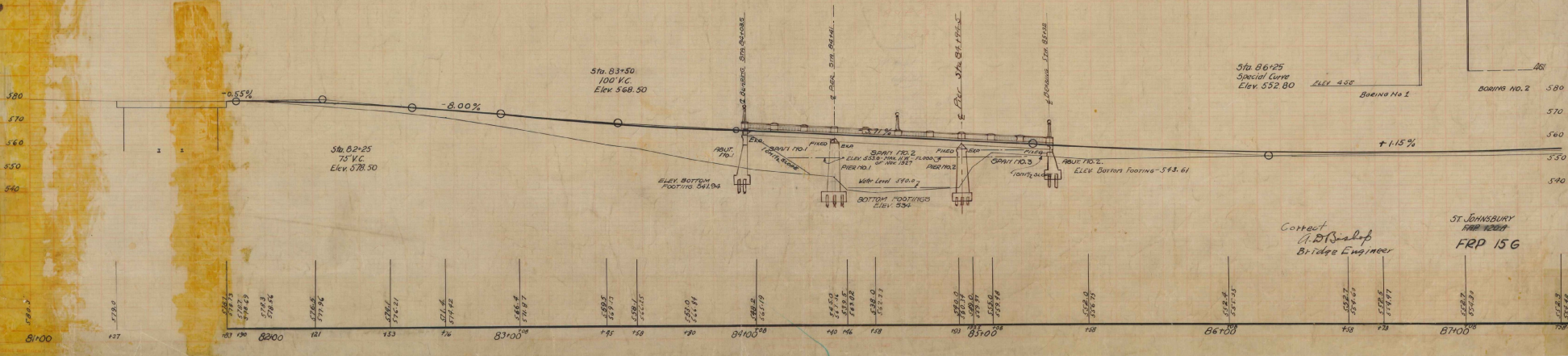
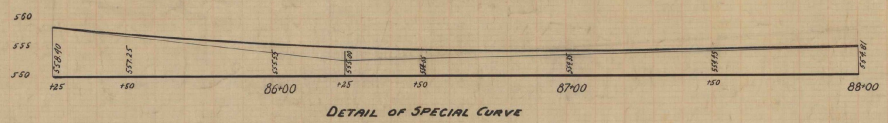
ST. JOHNSBURY  
 FRP 156  
 128  
 keep



**BRIDGE STA 84+70**  
 SHEETS TO BE USED:  
 SHEET 802 NO 35 BRN  
 SHEET 818 NO 31 BRN  
 DETAILS OF FLOOR AND BRIDGE RAIL (2 SHEETS)  
 SUBSTRUCTURE DETAILS (2 SHEETS)  
 SHEET 818 NO 2 TYPICAL DETAILS  
 SHEET 818 NO 24

**ESTIMATED SUMMARY OF QUANTITIES**  
 ITEM IS STRUCTURE EXCAVATION 360 CUB YDS  
 3A CONCRETE GRAVEL (2-4) 202 " "  
 3A-1 602-10 102 " "  
 3A-2 602-4 324 " "  
 3B REINFORCING STEEL 04070 LBS  
 3C TRUSS IRON 3300 LBS  
 3D BALUSTRADE RAIL 200 " "  
 LIGHTING SYSTEM LUMP SUM  
 MAINTENANCE TRAFFIC AND REPAIRS LUMP SUM  
 SUPERSTRUCTURE PRESENT BRIDGE LUMP SUM

THE MATERIAL IN THE SUPERSTRUCTURE OF THE PRESENT BRIDGE IS TO BECOME THE PROPERTY OF THE CONTRACTOR.



GROUND ELEV. 542	SOIL 542	GROUND ELEV. 547	SOIL 547
ELEV 528.8	SILT	ELEV 538	SILT
	SAND	ELEV 535	FINE SAND
ELEV 528	COARSE	ELEV 536	COARSE
ELEV 528	FINE SAND	ELEV 537	COARSE SAND
ELEV 517	COARSE SAND		

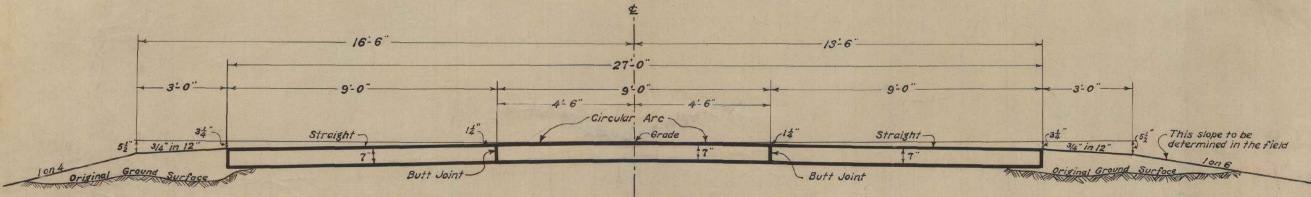
Correct  
 A. D. Bishop  
 Bridge Engineer

ST. JOHNSBURY  
 FRP 156

## TYPICAL SECTIONS ONE COURSE CEMENT CONCRETE PAVEMENT TYPE B ITEM 23B

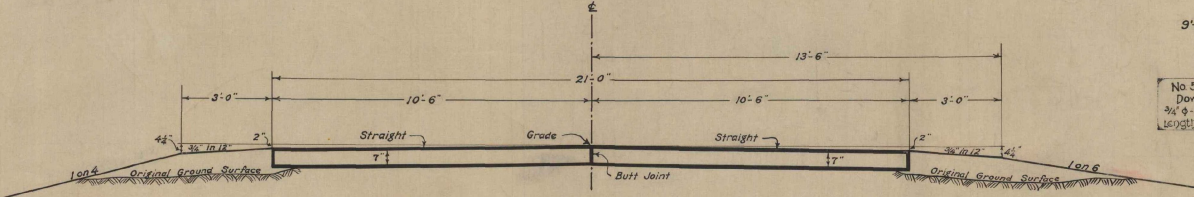
For details of Transverse Expansion Joint, see Sheet No. 2

All Concrete to conform to Class A (1-2-4)

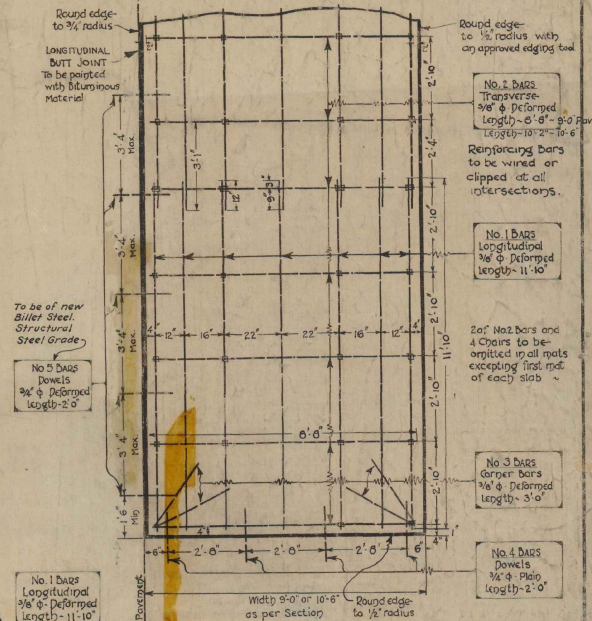


**SECTION R.C.5**  
**27' PAVEMENT**  
SECTION AREA - 15.75 Sq. Ft. FOR 27' WIDTH

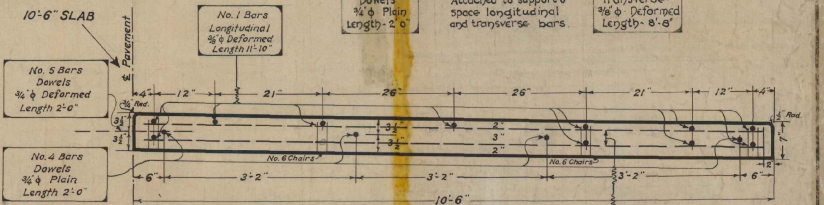
The slope of fill outside of shoulder as used to be determined by Engineer.



**SECTION R.C.6**  
**21' PAVEMENT**  
SECTION AREA - 12.25 Sq. Ft.



**9'-0" SLAB**  
No. 1 Bars Longitudinal 3/8" Deformed Length - 11'-10"  
No. 5 Bars Dowels 3/8" Deformed Length - 2'-0"  
No. 4 Bars Dowels 3/8" Deformed Length - 2'-0"  
No. 3 Bars Corner Bars 3/8" Deformed Length - 3'-0"  
No. 2 Bars Transverse 3/8" Deformed Length - 11'-10"  
No. 1 Bars Longitudinal 3/8" Deformed Length - 11'-10"  
Width 9'-0" or 10'-6" as per Section  
Round edge to 3/4" radius



**10'-6" SLAB**  
No. 5 Bars Dowels 3/8" Deformed Length - 2'-0"  
No. 4 Bars Dowels 3/8" Deformed Length - 2'-0"  
No. 3 Bars Corner Bars 3/8" Deformed Length - 3'-0"  
No. 2 Bars Transverse 3/8" Deformed Length - 11'-10"  
No. 1 Bars Longitudinal 3/8" Deformed Length - 11'-10"  
Width 10'-6" as per Section  
Round edge to 3/4" radius

REINFORCING STEEL PER 100 SQ. FT. OF PAVEMENT (exclusive of Dowels and Chairs)		REINFORCING STEEL REQUIRED FOR ONE 4' MAT SLAB 10'-6" WIDE - 44'-6" LONG		REINFORCING STEEL REQUIRED FOR ONE 4' MAT SLAB 9'-0" WIDE - 44'-6" LONG			
No. of Bars	SIZE	PLAIN OR DEFORMED	LENGTH	Number of Bars	SIZE		
9'-0' Pavement	10'-6' Pavement	No. 1 Bars	3/8" Deformed 11'-10"	44	No. 1 Bars	3/8" Deformed 11'-10"	44
		No. 2 Bars	3/8" Deformed 11'-10"	36	No. 2 Bars	3/8" Deformed 11'-10"	36
		No. 3 Bars	3/8" Deformed 3'-0"	8	No. 3 Bars	3/8" Deformed 3'-0"	8
		No. 4 Bars	3/8" Plain 2'-0"	2	No. 4 Bars	3/8" Plain 2'-0"	2
		No. 5 Bars	3/8" Deformed 2'-0"	2	No. 5 Bars	3/8" Deformed 2'-0"	2
		No. 6 Chairs		68	No. 6 Chairs		68
		<b>Total Reinf. Steel per Cu. Yd. of Conc., exclusive of Chairs</b>		<b>36.44 lbs.</b>	<b>Total Reinf. Steel per Cu. Yd. of concrete - exclusive of Chairs</b>		<b>48.29 lbs.</b>

Designed by **A. A. Doe** July-Aug. 1927  
 Designed by **H. E. Sargent**  
 Drawn by **L. T. Hayward** Feb. 1928  
 Checked by **K. W. Whitney** Feb. 1928  
 Sheet No. **1154** of **123**

NO. OF STATIONS	10	NO. OF STATIONS	10
NO. OF STATIONS	10	NO. OF STATIONS	10
NO. OF STATIONS	10	NO. OF STATIONS	10
NO. OF STATIONS	10	NO. OF STATIONS	10
NO. OF STATIONS	10	NO. OF STATIONS	10
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NO. OF STATIONS	10	NO. OF STATIONS	10
NO. OF STATIONS	10	NO. OF STATIONS	10
NO. OF STATIONS	10	NO. OF STATIONS	10

VERMONT DEPARTMENT OF HIGHWAYS  
 F. A. P. NO. 115A, ST. JOHNSBURY-LYNDON  
 Summary Sheet No. 1128 B

Type of Road Concrete  
 Concrete Macadam

STATION	STA.	STA.	LENGTH IN FEET	EQUATIONS	REMARKS
INCLUDED IN GOVT PARTICIPATION					
CONCRETE					
413+82.5	441+00		2717.5		
441+00	442+91.1		191.1		
442+91.1	443+42.2	Bridge with Special Slab	51.1		
443+42.2	446+65.0		322.8		
TOTALS			26,102.3	7405.5	4580.1
			40087.9 FT		7.592 MILES

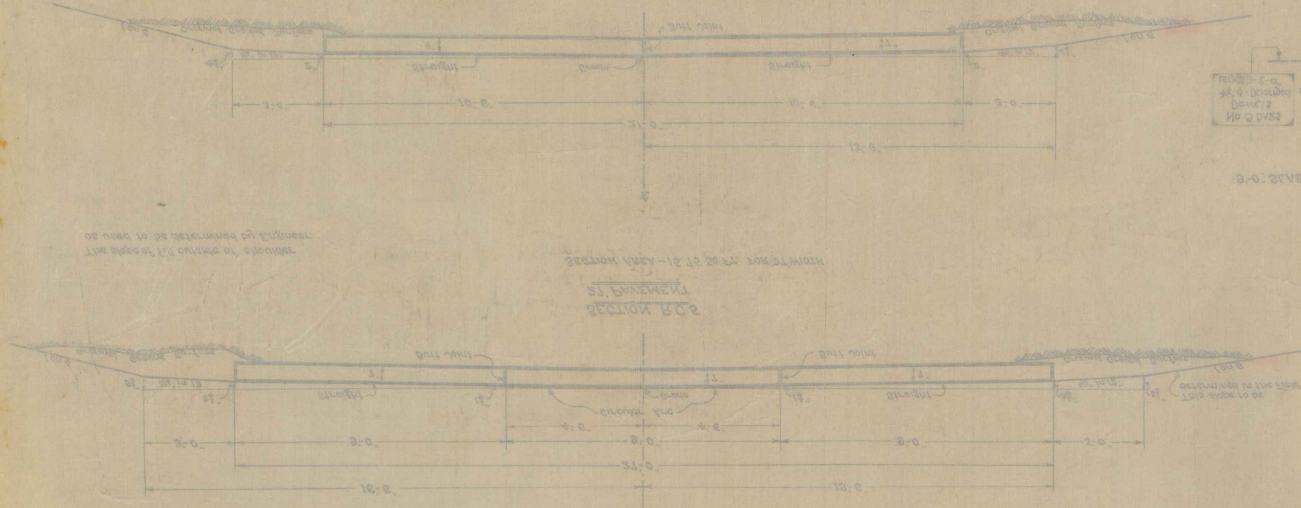
SECTION NOT INCLUDED IN GOVT PARTICIPATION					
BITUMINOUS MACADAM					
180+00	180+76.9	76.9			
180+76.9	181+34.8	57.8			
181+34.8	200+75.8	1160.4		838.9	
200+75.8	206+93.8	230.2		494.0	
206+93.8	208+26.0	132.2			
208+26.0	212+00	374.0			
212+00	215+00	300.0			
215+00	218+00	300.0			
TOTAL		2188.2	1411.5		3500.0 FT
CONCRETE PAVEMENT					
-5+83.2	0+00				583.2 FT
-7+46.7	-5+83.2				163.5 FT
TOTAL	Gov't Participation				44,567.9 FT = 8.40 MI.

SECTIONS NOT INCLUDED IN PROJECT					
139+22.1	140+76.8	BRIDGE		154.7	
343+22	344+92	BRIDGE		170.0	935.2 FT
345+80	348+30	BRIDGE		250.0	
407+19	408+85	BRIDGE		66.5	

STATION	FROM	TO	INCLUDED IN GOVT PARTICIPATION	NOT INCLUDED IN GOVT PARTICIPATION	NOT INCLUDED IN PROJECT
-9+00	-7+46.7		---	---	---
-7+46.7	-5+83.2		---	---	---
-5+83.2	0+00		---	---	---
0+00	7+39+26.7		13935.6	---	---
139+22.1	140+76.8		---	---	154.7 FT (BRIDGE)
140+76.8	180+00		3743.2	---	---
180+00	208+00		---	2800.0 FT	---
208+00	342+00		13,387.1	---	---
342+00	343+22		---	122.0 FT	---
343+22	344+42		---	---	---
344+42	344+92		---	658.0	120.0 (BRIDGE)
344+92	345+80		---	---	---
345+80	407+19		---	---	---
407+19	408+85		---	---	---
408+85	446+65.0		3287.5	---	500.0 (BRIDGE)
TOTALS			40087.9 FT	3380.0 FT	663.5 FT
			40087.9 FT	3380.0 FT	3580 FT

TOTAL LENGTH OF SECTIONS INCLUDED IN GOVT PARTICIPATION 40087.9 FT = 7.592 MILES  
 TOTAL LENGTH OF SECTIONS NOT INCLUDED IN GOVT PARTICIPATION 3380.0 FT = 0.678 MILES  
 TOTAL LENGTH OF CONTRACT 43667.9 FT = 8.270 MILES  
 \* INCLUDES CORRECTIONS FOR EQUATIONS

TYPE B ITEM 23B  
 ONE COURSE CEMENT CONCRETE PAVEMENT  
 TYPICAL SECTIONS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	VT.	115A	1928	3	123

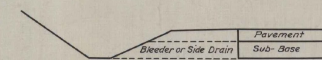
## TYPICAL SECTIONS BITUMINOUS MACADAM SURFACE COURSE

When embankments are to be made on a hillside the slope of the original ground on which the embankments are to be placed shall be plowed deeply before the filling is commenced.

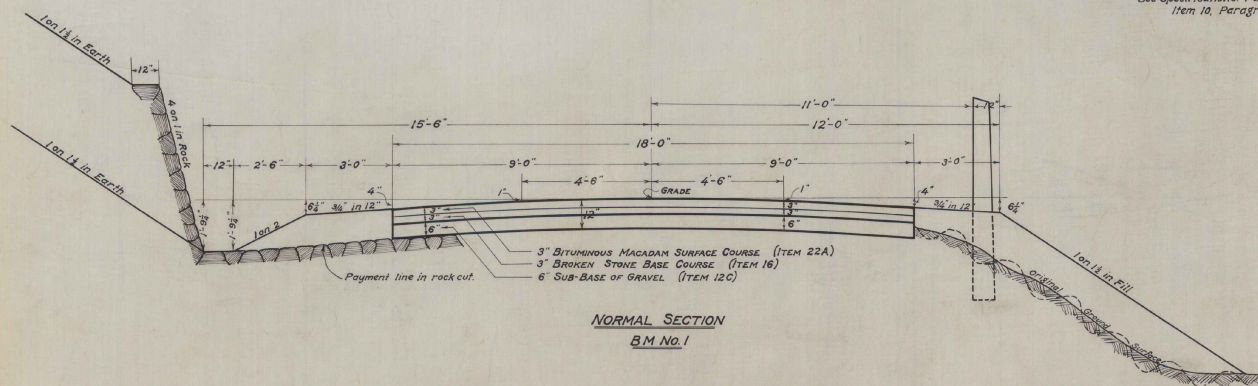
See Specifications: Pamphlet B  
Item 10, Paragraph 10.3

### BLEEDERS OR SIDE DRAINS

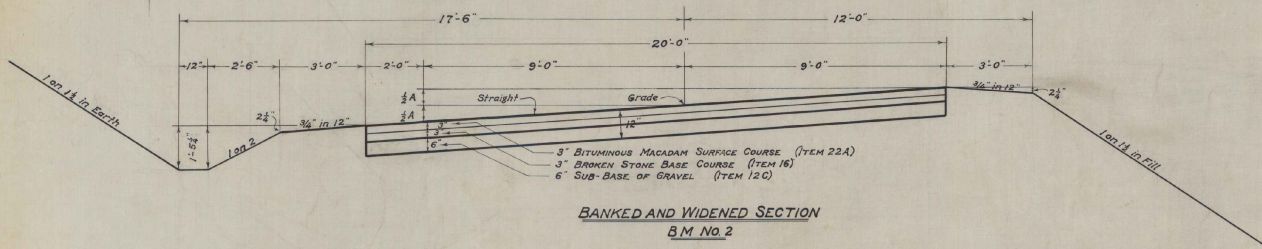
Bleeders or Side Drains from Sub-Base of Gravel to be located at frequent intervals to provide proper drainage to side of road.



Width of Drain = 3'-0"  
Thickness of Drain = Thickness of Sub-Base  
Construction methods and payment to be same as Sub-Base of Gravel. (Item 12C)



NORMAL SECTION  
B.M. No. 1



BANKED AND WIDENED SECTION  
B.M. No. 2

### VALUE OF A IN BANKING

3'-00' to 4'-59' - 8 INCHES  
5'-00' to 7'-00 - 10 "  
7'-01' to 10'-00 - 12 "  
10'-01' and over - 14 "

### BANKING AND WIDENING CURVES

Begin to bank and widen curves 100' before reaching P.C. - Arrive at full bank and full widening at P.C.  
Carry full bank and full widening from P.C. to P.T.  
Reach normal section 100' beyond P.T.  
Widen all curves greater than 5'-00'.

### SECTION AREAS

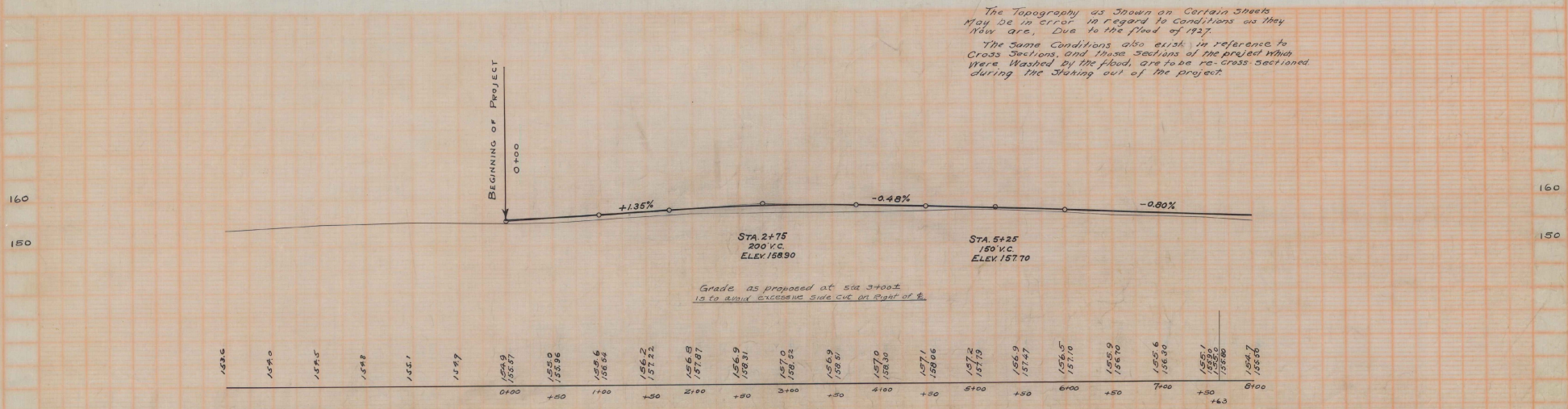
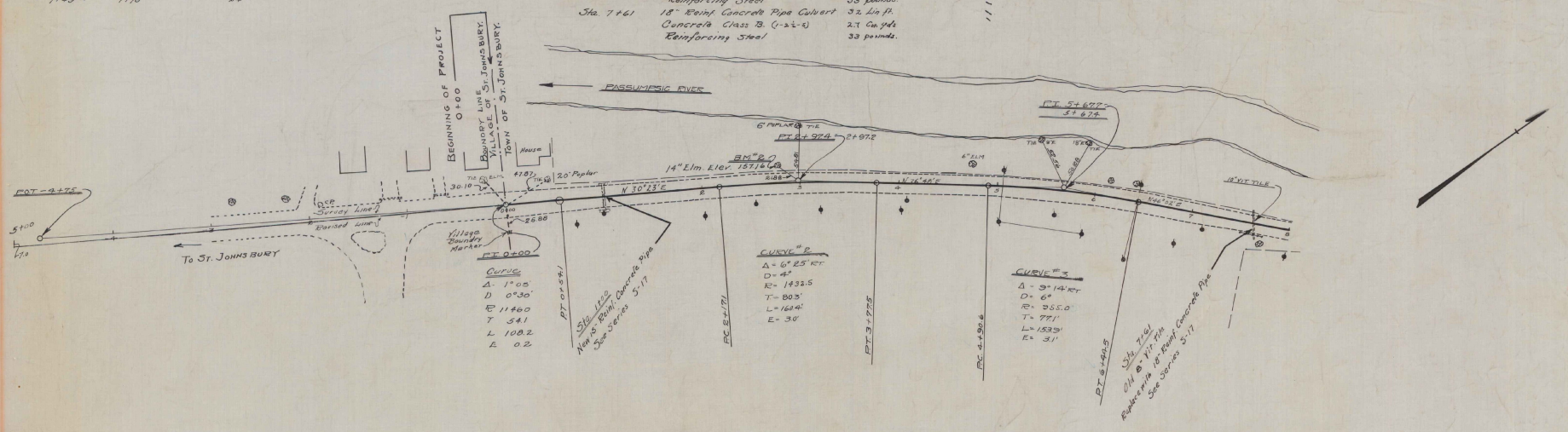
ITEM	AREAS	NORMAL	WIDENED
		Sq. Ft.	Sq. Ft.
22A	3' Bituminous Macadam Surface Course	4.5	5.0
16.	3' Broken Stone Base Course	4.5	5.0
12C	6' Sub-Base of Gravel	9.0	10.0

Surveyed by A.A. Doe July-Aug. 1927  
Designed by H.E. Sargent  
Drawn by L.T. Hayward Feb. 1928  
Traced by K.W. Whitney Feb. 1928  
Checked by  
Series No. 115A Files  
Sheet 3 of 123 Sheets

**WOOD GUARD RAIL REQUIRED**  
 ON RIGHT  
 Sta. 0+88 to Sta. 1+12 Length 24 ft  
 7+40 - 7+70 - 24 -

**CABLE GUARD RAIL REQUIRED**  
 ON LEFT  
 Sta. 0+88 to Sta. 8+00 Length 712 ft

**NEW CULVERTS REQUIRED**  
 Sta. 1+00 - 18" Rein. Concrete Pipe Culvert 32 Lin ft  
 Concrete Class B (-2-2-4) 21 Cu Yds  
 Reinforcing Steel 33 pounds  
 Sta. 7+61 18" Rein. Concrete Pipe Culvert 32 Lin ft  
 Concrete Class B (-2-2-4) 27 Cu Yds  
 Reinforcing Steel 33 pounds



The Topography as shown on certain sheets may be in error in regard to conditions as they now are. Due to the flood of 1927. The same conditions also exist in reference to cross sections, and those sections of the project which were washed by the flood, are to be re-cross sectioned during the starting out of the project.

BM 2 SPIKE IN TRUNK 16" Elm. 16' LT STA 2+79 ELEV 157.16

**WOOD GUARD RAIL REQUIRED**

Sta.	Dist. to Sta.	Length	24 Lin. ft.	34 "	24 "
9130 to Sta.	3152				
10460 "	15125				
11196 "	11142				
22100 "	24700				

**CABLE GUARD RAIL REQUIRED**

Sta.	Dist. to Sta.	Length	200 Lin. ft.	1575 "
8700 to Sta.	10700			
11125 "	24100			

**NEW CULVERTS REQUIRED**

Sta. 15171 - 10' Rein. Concrete Pipe Culvert  
Concrete Class B (1-2'-4)  
Reinforcing Steel

40 Lin. ft.  
2.7 Cu. yds.  
33 pounds  
THIS HOUSE AND BARN WENT OUT IN FLOOD OF NOV. 6, 1927

**CULVERT REPAIRS REQUIRED.**

Sta. 2130  
4 1/2" Rein. Concrete Box  
Construct New floor and extend culvert 9 ft on left  
Class A Concrete (1-2'-4) 9 Cu. yds.  
Reinforcing Steel 450 pounds

**NEW CULVERTS REQUIRED**

Sta. 11786 - 15' Rein. Concrete Pipe Culvert 30 ft.  
With Drop Inlet on Right  
Concrete Class A (1-2'-4) 13 Cu. yds.  
" " B (1-2'-4) 11 Cu. yds.  
Reinforcing Steel 120 lbs.

**CURVE #2**  
Δ = 42°25' L  
D = 13°  
R = 301.6  
T = 117.0  
L = 223.2  
E = 21.0

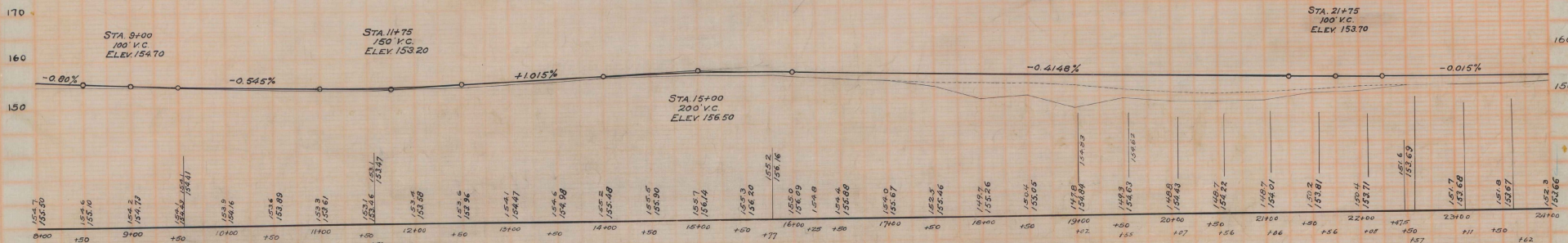
**REVISED CURVE:**  
Δ = 73°13'  
D = 3°30'  
E = 603.2  
T = 440.1  
L = 770.7  
E = 140.2

**DRIVEWAY CULVERTS REQUIRED.**

Sta. 21775 Right. 16" Cor. Galv. Metal Pipe 30 Lin. ft.  
Concrete Class B (1-2'-4) 13 Cu. yds.

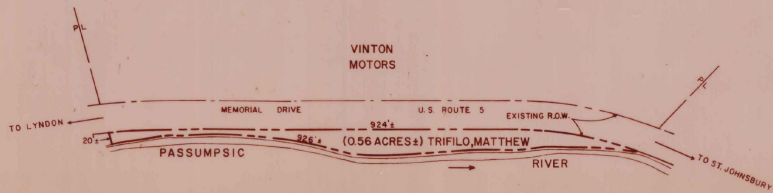
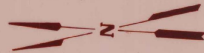
**ITEM 60**  
STONE FILL ON LEFT STA. 22+25 TO 23+75 417 Cu. Yds.

Note  
Stone Fill to be constructed with approved stone of not less than 2 1/2 ft. each, with smaller stone used to fill voids, and make a fill of maximum stability.



B.M. 3 SPIKE IN ROOT 18" PINE 43 FT RT STA. 9+84 ELEV 153.94  
B.M. 4 - IN TRUNK 10" ELM LT = 18+96 ELEV 151.22

ACQUIRED BY M.A. FROM MATTHEW TRIFILO  
DATED 5-18-79 IN ST. JOHNSBURY AND RECORDED  
52279 IN BOOK 184, PAGES 475-476  
SEE MAP BOOK 4, PAGE 22



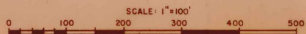
REF. ST. JOHNSBURY-LYNDON F115A  
SHEETS 788 OF 123

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

TOWN OF ST. JOHNSBURY

PROJECT MA 3952

APPROX. SCALE 1"=100' DATE 3-25-79 DRAWN BY D. O'NEWMALL



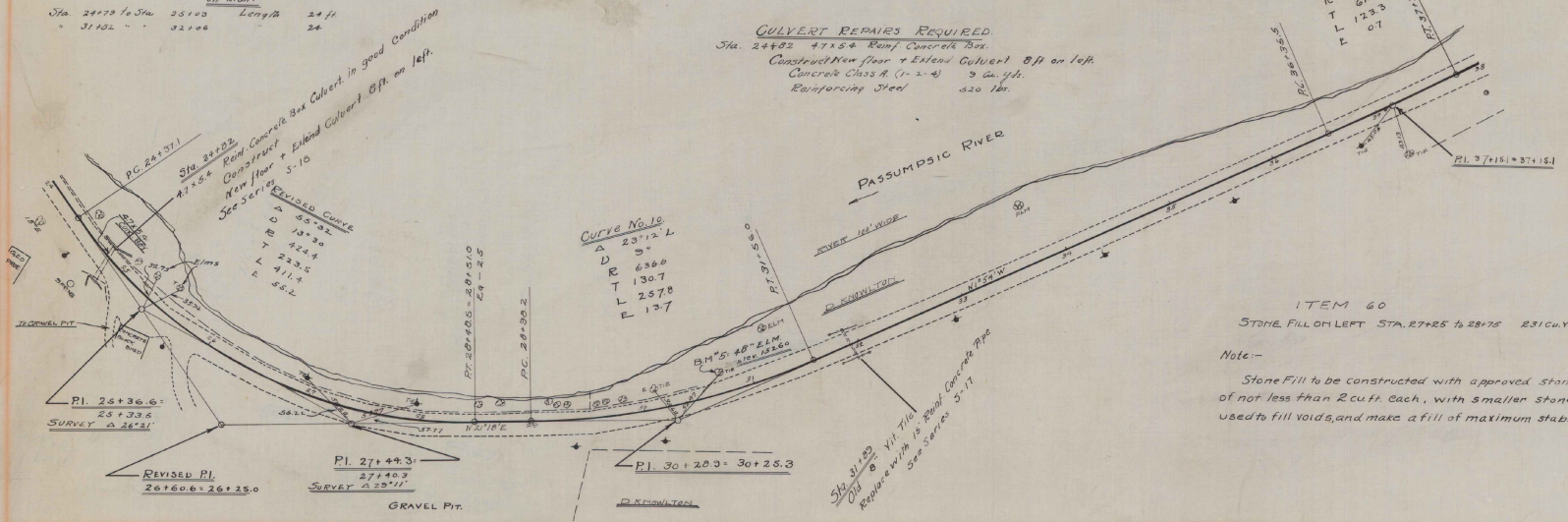
FED. ROAD DIST. NO.	STATE	FED. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	VT.	7732	1920	7	123

**WOOD GUARD RAIL REQUIRED**  
 ON LEFT  
 Sta. 31124 to Sta. 31178 Length 54 ft  
 ON RIGHT  
 Sta. 24720 to Sta. 25102 Length 382 ft  
 " 31102 " " 32106 " 1004 ft

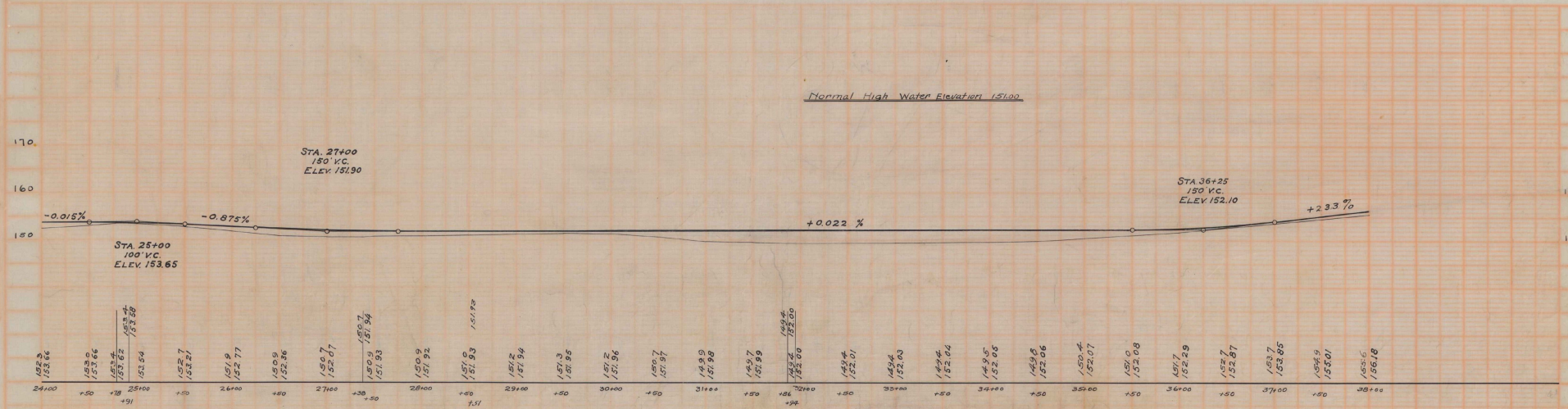
**CABLE GUARD RAIL REQUIRED**  
 ON LEFT  
 Sta. 24720 to Sta. 29176 Length 576 ft  
 " 31100 " " 36100 " 1500 ft

**NEW CULVERTS REQUIRED**  
 Sta. 31180 - 15" Rein. Concrete Pipe Culvert 44 ft.  
 Concrete Class B (1-2-3) 21 cu. yds.  
 Reinforcing Steel 43 lbs.

**CULVERT REPAIRS REQUIRED**  
 Sta. 24422 - 47x54" Rein. Concrete Box.  
 Construct New floor + Extend Culvert 8 ft on left.  
 Concrete Class A (1-2-4) 9 cu. yds.  
 Reinforcing Steel 520 lbs.



**ITEM 60**  
 STONE FILL ON LEFT STA. 27+25 to 28+75 231 cu. yds.  
 Note:-  
 Stone Fill to be constructed with approved stone of not less than 2 cu ft. each, with smaller stone used to fill voids, and make a fill of maximum stability.



B.M. SPIKE IN ROOT 48" ELM 17 FT. LEFT STA 30+71 ELEV 152.60

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	VT	1154	1926	6	123

WOOD GUARD RAIL REQUIRED

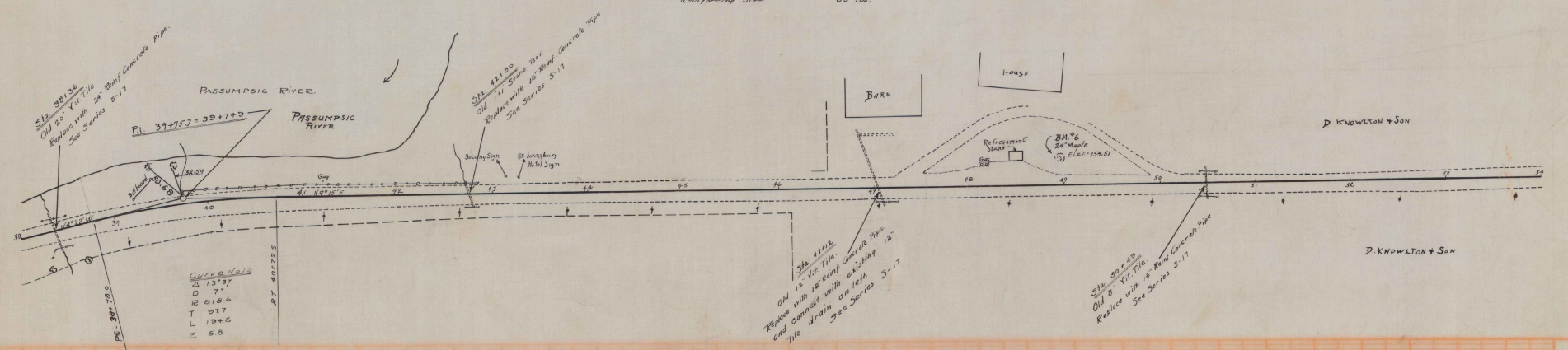
Sta.	From	To	Length	Notes
38+24	to	38+40	16 ft	
42+00	to	42+32	32 ft	
47+00	to	47+24	24 ft	
50+38	to	50+62	24 ft	

CABLE GUARD RAIL REQUIRED

Sta.	From	To	Length	Notes
38+00	to	38+04	4 ft	
39+88	to	42+04	216 ft	
50+58	to	51+74	116 ft	

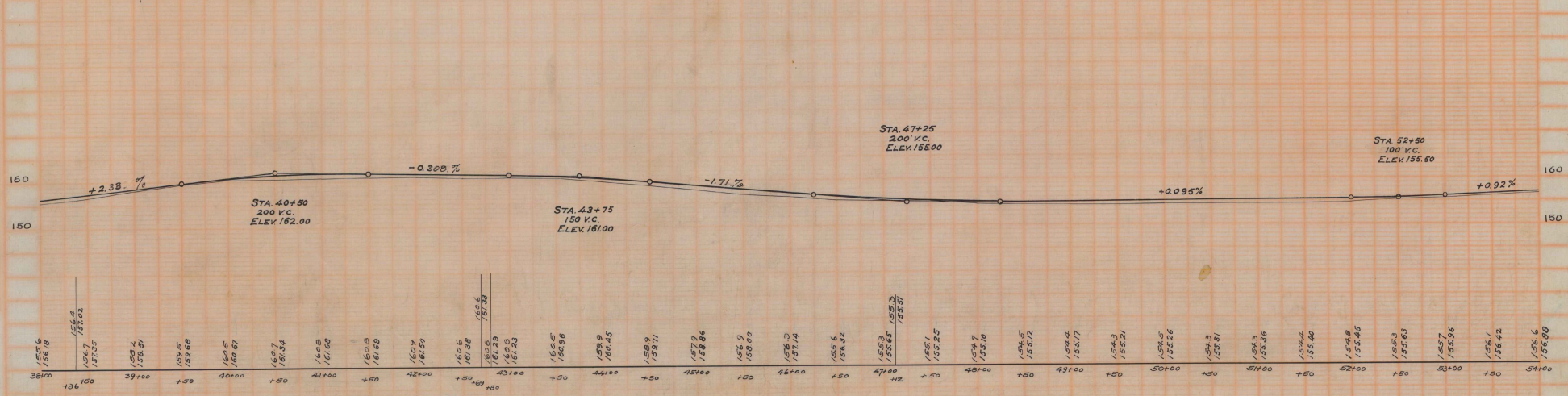
NEW CULVERTS REQUIRED

Sta.	Description	Length	Concrete Class	Reinforcing Steel
38+36	24" Rein. Concrete Pipe Culvert	48 lin. ft.	Class A (1-2-4)	24 lbs.
42+00	18" Rein. Concrete Pipe Culvert	32 lin. ft.	Class B (1-2-5)	21 lbs.
47+12	12" Rein. Concrete Pipe Culvert	24 lin. ft.	Class B (1-2-5)	17 lbs.
50+40	18" Rein. Concrete Pipe Culvert	36 lin. ft.	Class B (1-2-5)	21 lbs.



CURVE DATA

Δ	13.37
D	7'
R	816.4
T	97.7
L	194.5
E	5.8



B.M. SPIKE IN ROOT 24" MAPLE 25 FT. LT. STA 48+99 ELEV. 154.51

**WOOD GUARD RAIL REQUIRED**

ON LEFT	ON RIGHT
Sta. 68+68 to 68+72 Length 24 Lin. ft.	Sta. 58+44 to 58+70 Length 24 Lin. ft.
57+197 to 60+112	57+197 to 60+112
63+171 to 63+255	63+171 to 63+255
68+40 to 68+72	68+40 to 68+72

**CABLE GUARD RAIL REQUIRED**

ON LEFT	ON RIGHT
Sta. 57+60 to 66+64 Length 304 Lin. ft.	

**NEW CULVERTS REQUIRED**

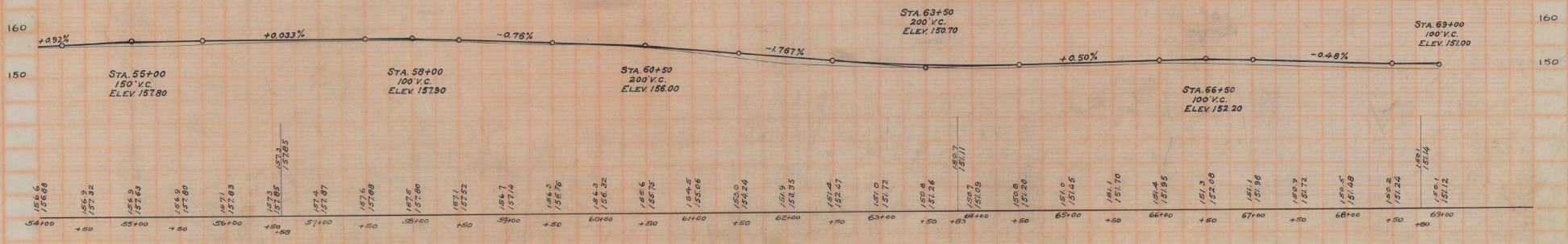
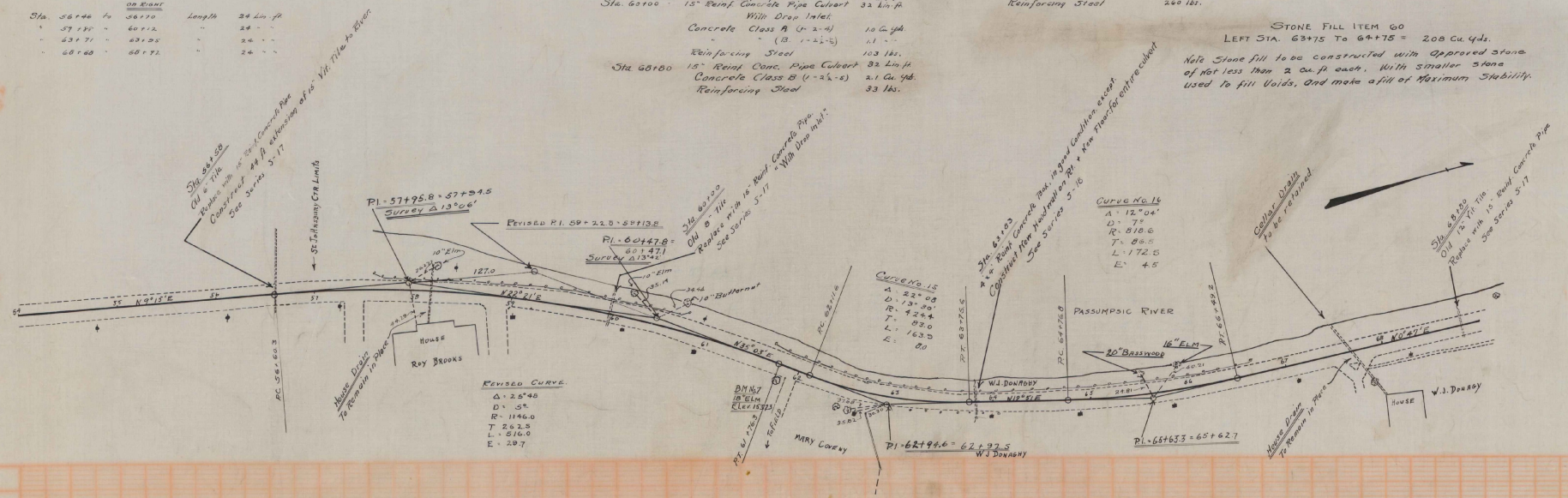
Sta. 36+38 - 15" Reinf. Concrete Pipe Culvert	40 Lin. ft.
Concrete Class B (1-2-3)	11 Cu. yds.
Reinforcing Steel	12 lbs.
Sta. 60+00 - 15" Reinf. Concrete Pipe Culvert	44 Lin. ft.
Concrete Class A (1-2-4)	32 Cu. yds.
Reinforcing Steel	103 lbs.
Sta. 60+00 - 15" Reinf. Conc. Pipe Culvert	32 Lin. ft.
Concrete Class B (1-2-4)	2.1 Cu. yds.
Reinforcing Steel	33 lbs.

**CULVERT REPAIRS REQUIRED**

Sta. 63+50 - 4' x 4' Reinf. Concrete Box	
Concrete Class A (1-2-4)	12 Cu. yds.
Reinforcing Steel	200 lbs.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	VT.	115A	1968	9	123

STONE FILL ITEM 60  
LEFT STA. 63+75 TO 64+75 = 208 Cu. yds.  
Note Stone fill to be constructed with approved stone of flat less than 2 cu. ft. each, with smaller stone used to fill voids, and make a fill of maximum stability.



B.M. 7 SPIKE IN ROOT 18" ELM 16 FT RT STA 61+82 ELEV 153.23

Series # No 115A  
Sheet 9 of 123

**WOOD GUARD RAIL REQUIRED**

Sta	From Sta	To Sta	Length	Notes
7114	to Sta	7120	Length 24 ft	
75166	-	75170	24'	
83172	-	83176	24'	
<b>Duty</b>				
Sta	71100	To Sta	71100	Length 24 ft
	83169	-	83173	24'

**CABLE GUARD RAIL REQUIRED**

Sta. 71100 to Sta. 81100 Length 200 ft  
To be carried to Bridge

**NEW CULVERTS REQUIRED**

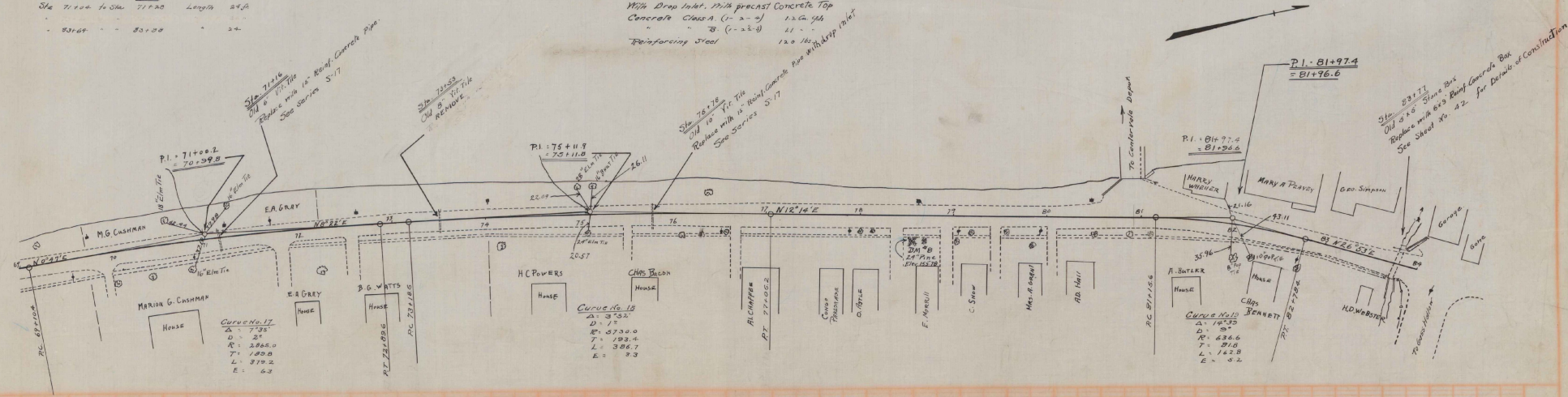
Sta. 71116 - 15' Reinforced Concrete Pipe Culvert 32 Lin. ft.  
Concrete Class B (1-2 1/2")  
Reinforcing Steel 23 lbs.

Sta. 76178 - 15' Reinforced Concrete Pipe Culvert 30 Lin. ft.  
With Drop Inlet, With precast Concrete Top  
Concrete Class A (1-2 1/2")  
Reinforcing Steel 120 lbs.

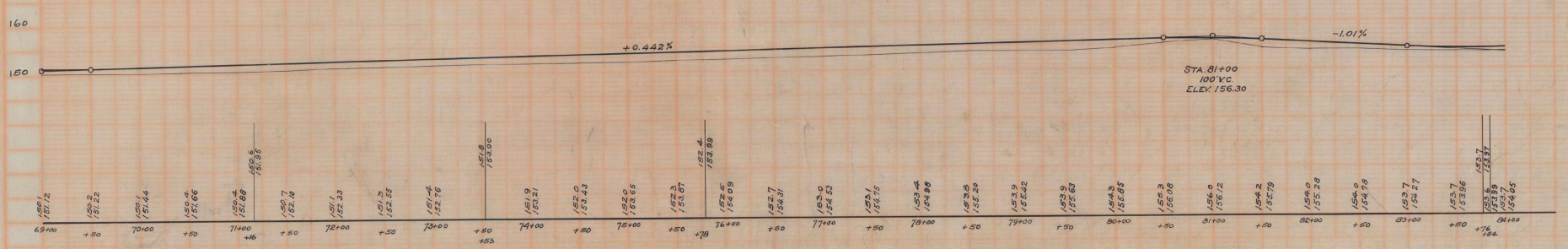
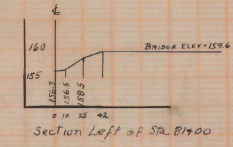
**NEW BRIDGE REQUIRED**

Sta. 83177 - 84' Reinforced Concrete Box Culvert  
See Sheet No. 42 for Details of Construction

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
VT.	VT.	115A	1928	10	



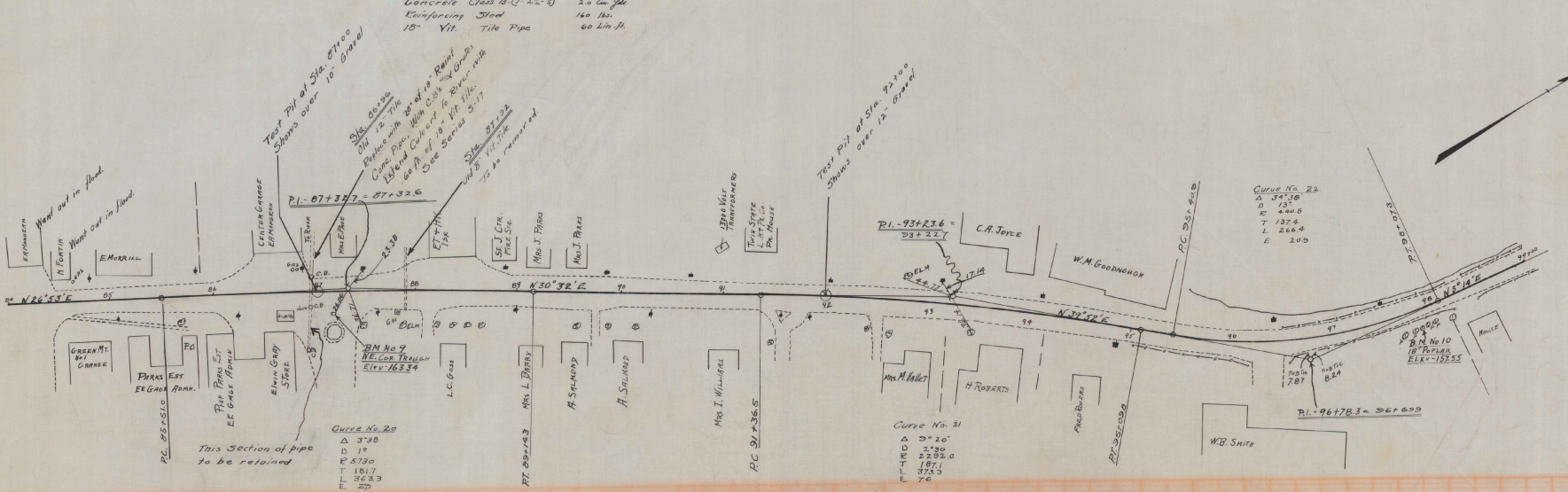
NORMAL HIGH WATER OVERFLOWS OLD ROAD FROM STA. 69100 TO 80100 6 TO 10 INCHES



B.M. SPIKE IN ROOT 24' PINE 25 FT. RT. STA 78+45 ELEV 155.78

**CABLE GUARD RAIL REQUIRED**  
 22' LEFT  
 Sta. 86+24 to Sta. 93+00 Length 676 ft

**NEW CULVERTS REQUIRED**  
 Sta. 86+24 12" Rein. Concrete Pipe Culvert 20 Lin. ft  
 With 2 Grates & Catch Basins.  
 Concrete Class B (1-2-4) 2.0 Cu. Yds.  
 Reinforcing Steel 160 lbs.  
 18" Vit. Tile Pipe 60 Lin. ft.

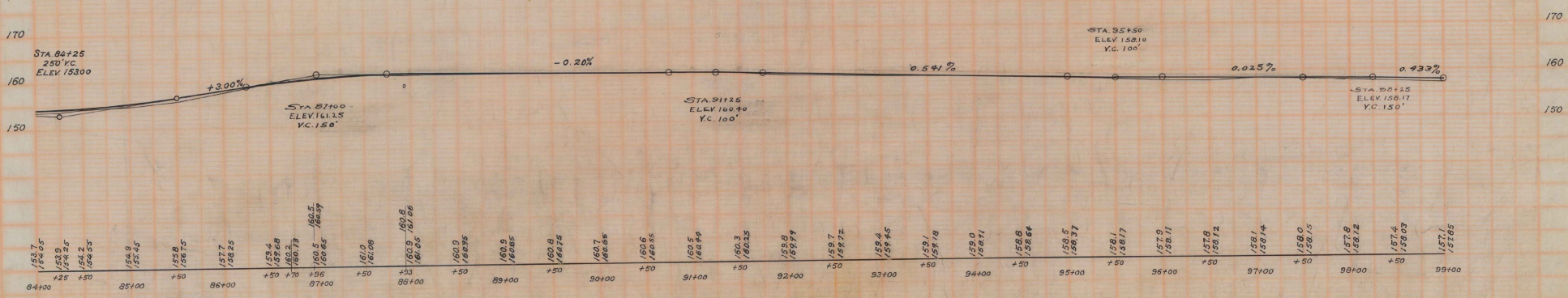


Curve No. 20  
 $\Delta$  3° 30'  
 D 117  
 R 673.0  
 T 181.7  
 L 363.3  
 P 20

Curve No. 31  
 $\Delta$  2° 20'  
 D 243.0  
 R 273.0  
 T 187.1  
 L 373.3  
 P 26

Curve No. 23  
 $\Delta$  3° 30'  
 D 131  
 R 450.8  
 T 137.4  
 L 244.4  
 P 20

Topography through St. Johnsbury Center as shown on these sheets was taken before flood of Nov. 1927.



B.M. 9 NE COR WATER TROUGH RT. STA. 87+17 ELEV. 163.34  
 B.M. 10 SPIKE IN ROOT 18" POPLAR RT. STA. 97+03 ELEV. 157.55

WOOD GUARD RAIL REQUIRED

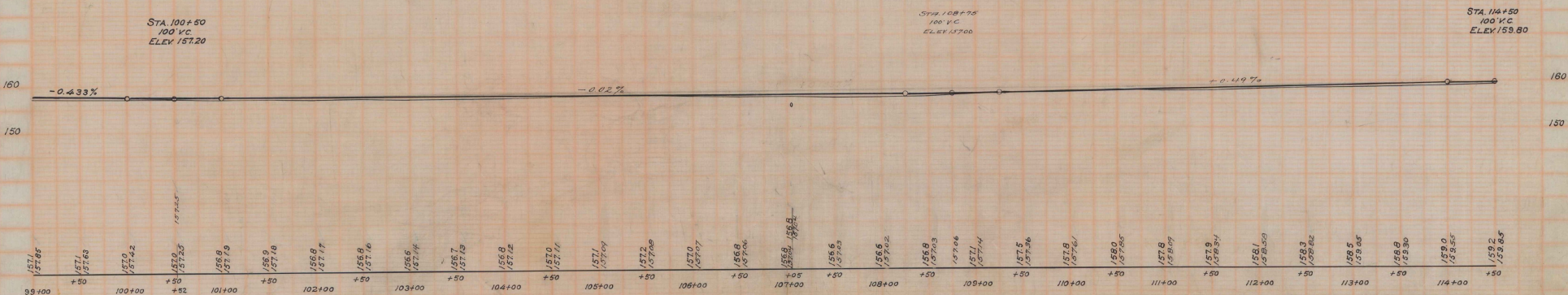
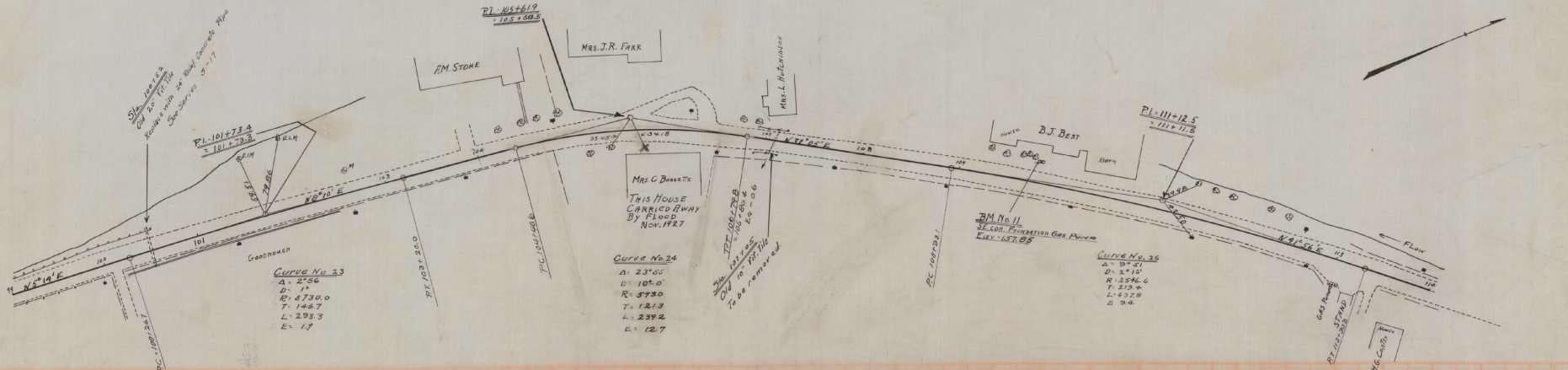
CABLE GUARD RAIL REQUIRED

NEW COLVEITS REQUIRED

Sta. 99+00 to Sta. 100+64 Length 164 Lin ft

Sta. 100+52 - 24" Rein Concrete Pipe Culvert 40 Lin ft  
Concrete Class A (1-2-4) 2.6 Cu Yd  
Reinforcing Steel 60 Lbs

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VA	125A	1928	12	123



BM 11 S.E. COR. GAS PUMP FOUNDATION LT. STA. 109+79 ELEV. 157.85

**WOOD GUARD RAIL REQUIRED**

ON RIGHT  
Sta. 127+97 to Sta. 127+71 Length 24 Lin. Ft.

**CABLE GUARD RAIL REQUIRED**

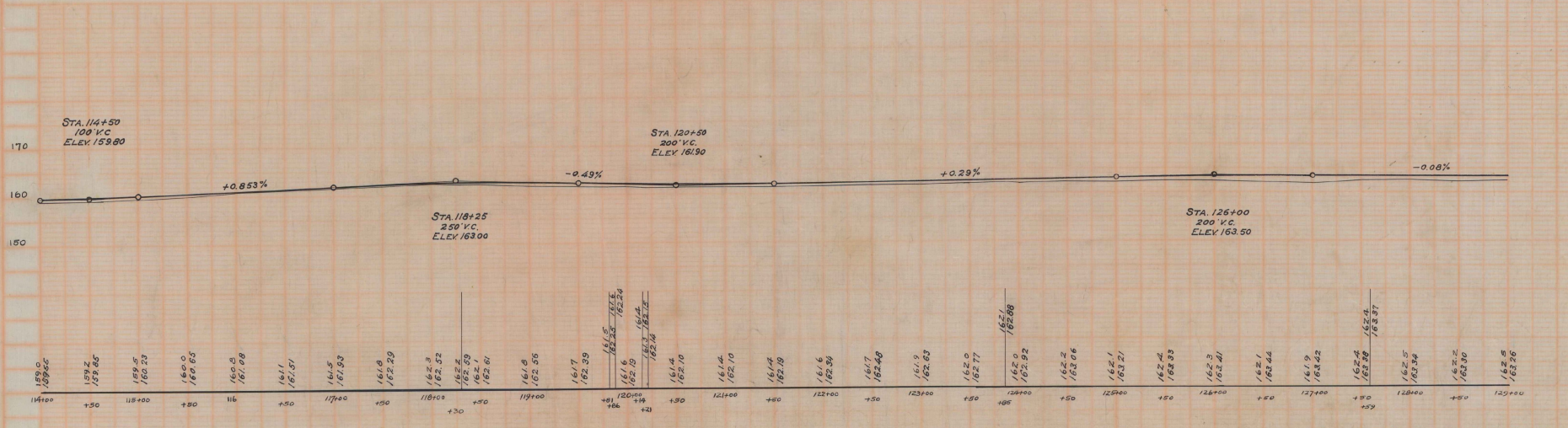
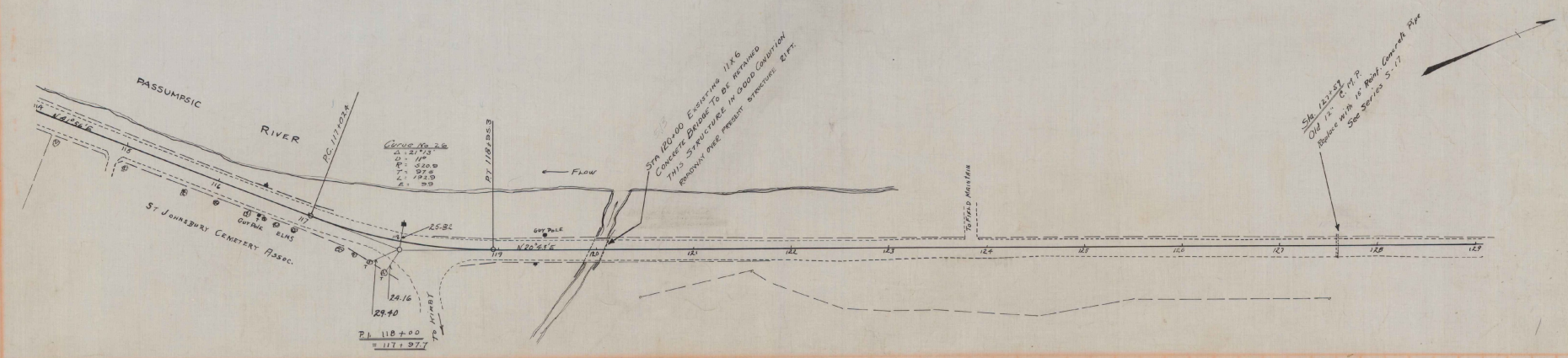
ON LEFT  
Sta. 118+24 to Sta. 117+20 Length 306 Lin. Ft.  
Sta. 118+24 " " 121+24 " " 552 " "  
Sta. 123+03 " " 121+24 " " 472 " "

**NEW CULVERTS REQUIRED**

Sta. 127+57-72 15" Rivet. Concrete Pipe Culvert 24 Lin. Ft.  
Concrete Class 40 (4-24") 2 1/2 Sq. Yds.  
Reinforcing Steel 35 Lbs.

FED. ROAD DIST. NO.	STATE	FED. AID YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	VT	1954	1953	13	123

ON RIGHT  
Sta. 118+24 to Sta. 121+00 Length 306 Lin. Ft.



**WOOD GUARD RAIL REQUIRED**

Sta.	To Sta.	Length	Notes
135+74	To Sta. 135+14	40 Lf.	ON LEFT
140+71	141+11	40 "	"
135+33	To Sta. 135+30	36 Lf.	ON RIGHT
135+01	135+33	32 "	"

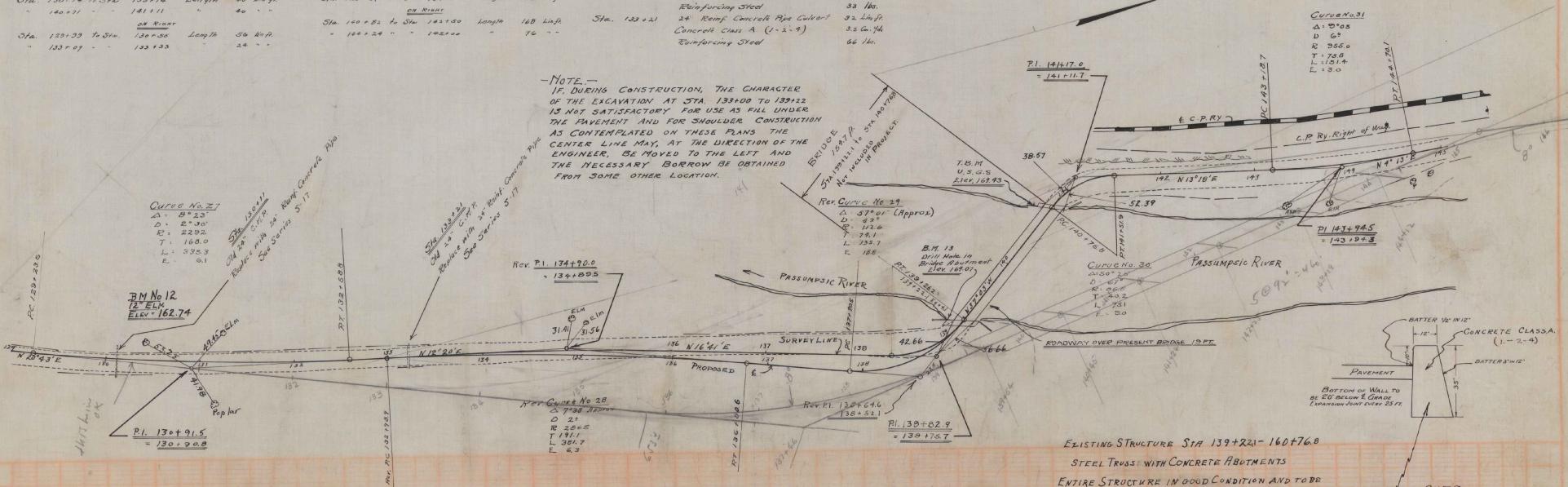
**CABLE GUARD RAIL REQUIRED**

Sta.	To Sta.	Length	Notes
135+57	To Sta. 135+83	26 Lf.	ON LEFT
140+82	To Sta. 141+50	68 Lf.	"
141+24	145+00	36 "	"

**NEW CULVERTS REQUIRED**

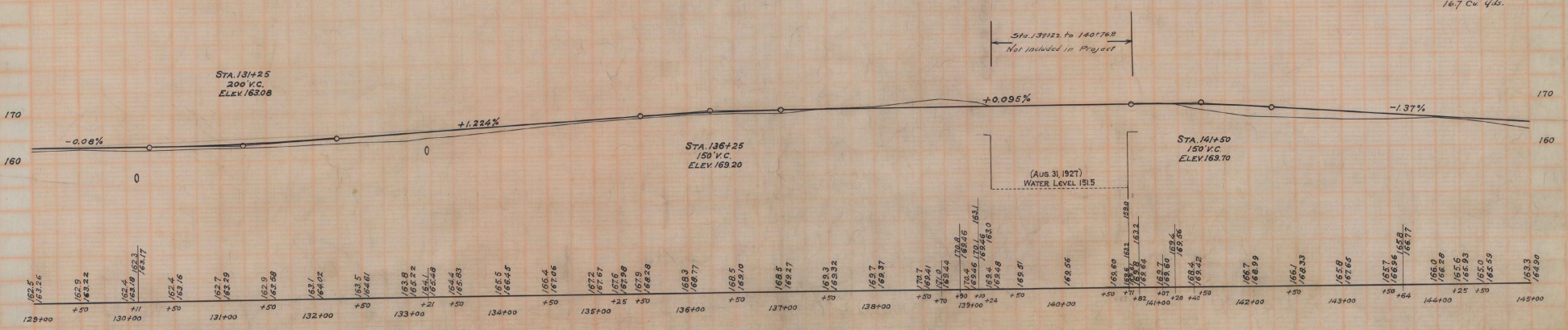
Sta. 130+11	24" Reinf. Concrete Pipe Culvert	40 Lf.
	Class B Concrete (1-2-3)	41 Cu. Yd.
	Reinforcing Steel	33 Lbs.
Sta. 133+21	24" Reinf. Concrete Pipe Culvert	32 Lf.
	Concrete Class A (1-2-4)	3.5 Cu. Yd.
	Reinforcing Steel	66 Lbs.

**-NOTE-**  
 IF DURING CONSTRUCTION, THE CHARACTER OF THE EXCAVATION AT STA. 133+00 TO 139+22 IS NOT SATISFACTORY FOR USE AS FILL UNDER THE PAVEMENT AND FOR SHOULDER CONSTRUCTION AS CONTEMPLATED ON THESE PLANS THE CENTER LINE MAY, AT THE DIRECTION OF THE ENGINEER, BE MOVED TO THE LEFT AND THE NECESSARY BORROW BE OBTAINED FROM SOME OTHER LOCATION.



Section Sta. 133+00 to Bridge to be across sectioned when project is spanned out.

EXISTING STRUCTURE STA. 139+22-160+76.8  
 STEEL TRUSS WITH CONCRETE ABUTMENTS  
 ENTIRE STRUCTURE IN GOOD CONDITION AND TO BE RETAINED IN PRESENT CONDITION AND NOT INCLUDED AS PART OF PROJECT.



B.M. 12 SPIKE IN TRUNK 12" ELM 17 FT. LT. STA. 130+42 ELEV. 162.74  
 B.M. 13 DRILL HOLE SW. COR. BRIDGE ABUTMENT ELEV. 169.07

**WOOD GUARD RAIL REQUIRED**

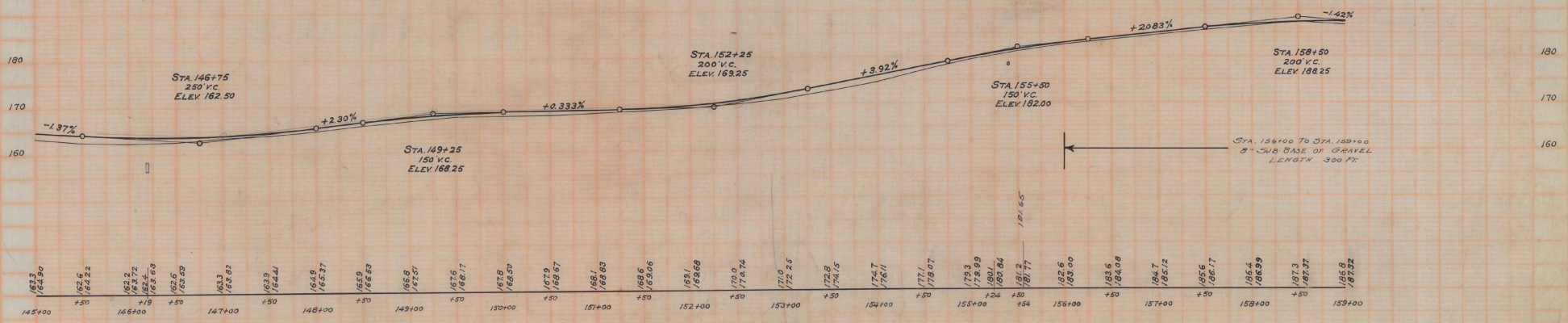
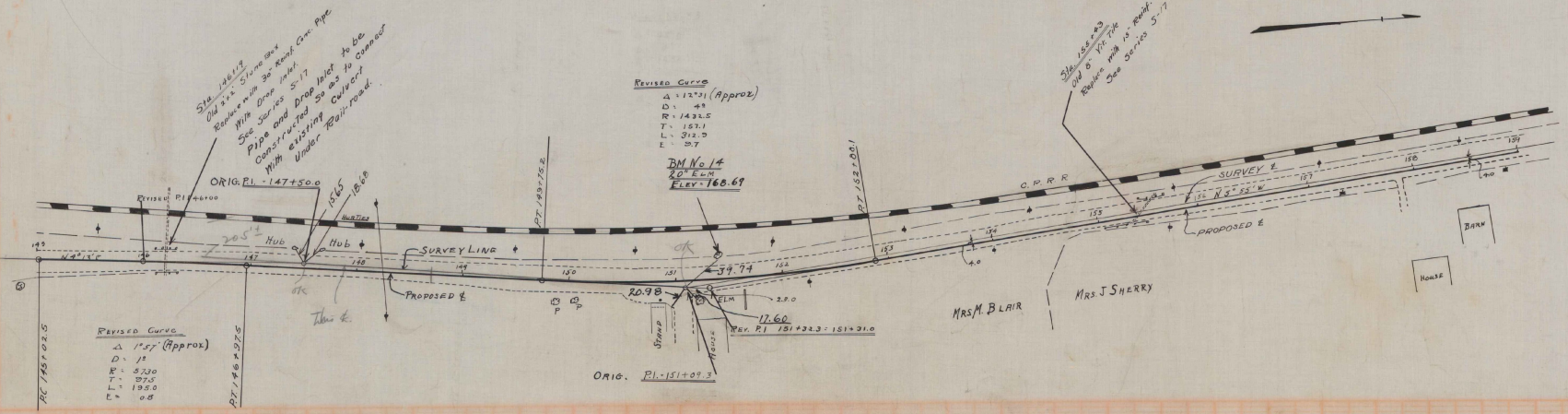
Sta. 146107 to Sta. 146121 Length 24 ft.  
 Sta. 155142 " " 155146 " 24 "  
 Sta. 155112 to Sta. 155136 Length 24 ft.

**NEW CULVERTS REQUIRED**

Sta. 146119 - 36" Round Concrete Pipe 36 Lin. ft.  
 With Drop Inlet  
 Concrete Class A (1-2-4) 12 Cu. yds  
 " " B (1-2-4) 30 " "  
 Reinforcing Steel 146 lbs.  
 Sta. 155143 - 18" Round Concrete Pipe 44 Lin. ft.  
 Concrete Class B (1-2-4) 21 Cu. yds.  
 Reinforcing Steel 33 lbs.

**CABLE GUARD RAIL REQUIRED**

Sta. 145100 to Sta. 148104 Length 304 Lin. ft.



B.M. 14 SPIKER IN ROOT 20' ELM 16 Ft. Lt. STA. 151+41 ELEV 168.69



PARCEL INSTRUMENT DATE GRANTOR GRANTEE RECORDED REMARKS

ST JOHNSBURY  
BOOK PAGE DATE  
88 249 10-20-43

PLAT	NO.	STATE	REC. NO.	YEAR	SHEET NO.	TOTAL SHEETS
113A	743	VT	17	123		

**WOOD GUARD RAIL REQUIRED**

ON LEET  
Sta 176+24 to Sta 177+00 Length 24 ft  
181+03 " 181+37 " 24 ft  
182+00 " 182+24 " 24 ft

**CABLE GUARD RAIL REQUIRED**

ON LEET  
Sta 175+00 to Sta 175+75 Length 32 ft  
184+00 " 184+24 " 24 ft

**NEW CULVERTS REQUIRED**

Sta 176+75 - 15" Reinforced Concrete Pipe 35 ft.  
Concrete Class B (1-2-3) 21 Cu Yd.  
Reinforcing Steel 22 lbs.  
Sta 181+45 - 36" Reinforced Concrete Box Culvert 81 ft.  
Concrete Class A (1-2-3) 26.2 Cu Yd.  
Reinforcing Steel 1700 lbs.  
Sta 182+00 - 36" Reinforced Concrete Pipe Length 20 ft.  
Concrete Class A (1-2-3) 4.3 Cu Yd.  
Reinforcing Steel 66 lbs.

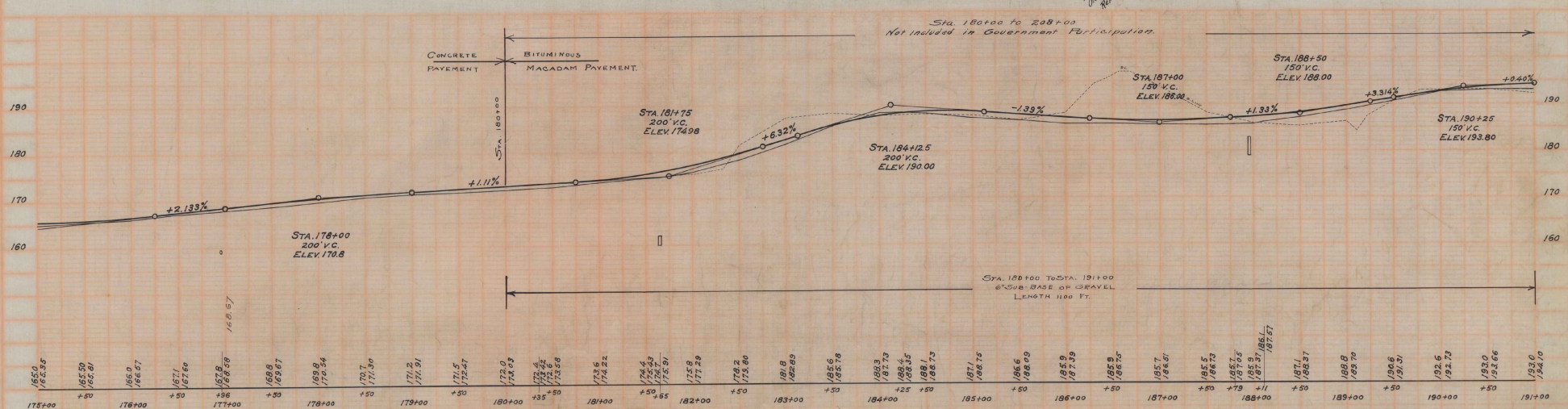
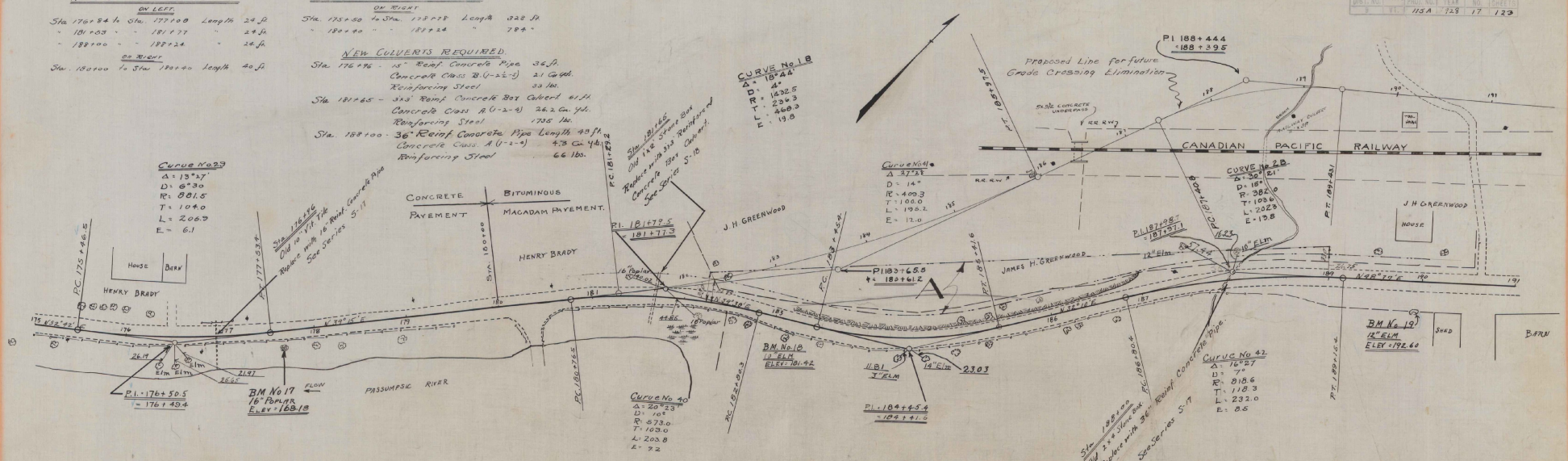
**CURVE No. 23**

A = 13.57  
D = 67.30  
R = 881.5  
T = 104.0  
L = 206.3  
E = 6.1

**CURVE No. 18**  
A = 18.42  
D = 4.0  
R = 1432.5  
T = 234.3  
L = 346.3  
E = 19.8

**CURVE No. 40**  
A = 20.43  
D = 10.1  
R = 673.0  
T = 103.0  
L = 203.8  
E = 7.2

**CURVE No. 42**  
A = 16.27  
D = 7.1  
R = 818.6  
T = 118.3  
L = 232.0  
E = 8.8



B.M. 17 SPIKE IN ROOT 16" POPLAR 15' Rt STA 177+65 ELEV. 168.18  
B.M. 18 SPIKE IN BASE 10' ELM Rt STA 183+13 ELEV. 181.42  
B.M. 19 SPIKE IN ROOT 12' ELM Rt STA 187+95 ELEV. 192.60

WOOD GUARD RAIL REQUIRED

ON LEFT  
 Sta. 196+36 to Sta. 196+60 Length 24 ft  
 " 204+72 " " 204+76 " 24 ft

ON RIGHT  
 Sta. 196+36 to Sta. 196+60 Length 24 ft  
 " 204+72 " " 204+76 " 40 "

CABLE GUARD RAIL REQUIRED

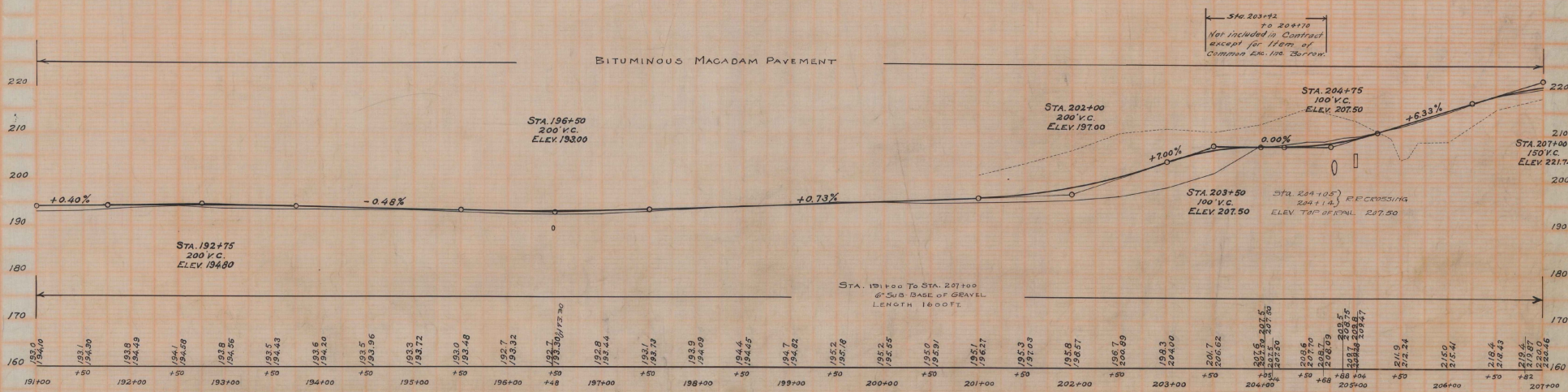
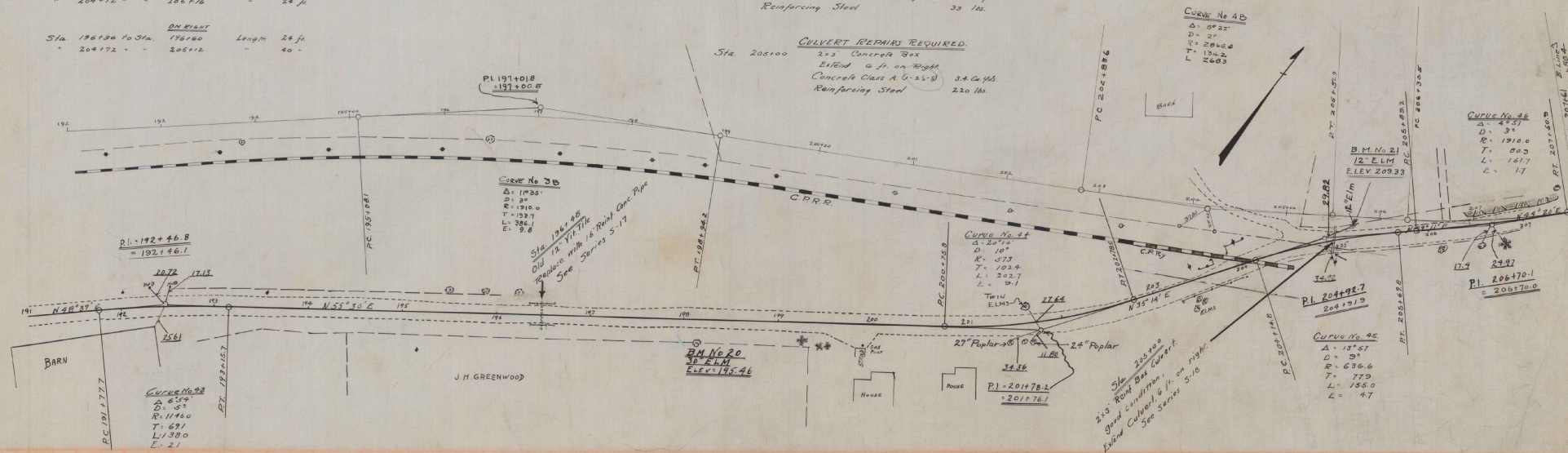
ON RIGHT  
 Sta. 201+76 to Sta. 202+76 Length 200 ft

NEW CULVERTS REQUIRED

Sta. 196+48 - 16" Rein. Concrete Pipe Culvert 36 Lin. ft  
 Concrete Class B (1-2-3) 2.1 Cu Yds.  
 Reinforcing Steel 33 lbs.

CULVERT REPAIRS REQUIRED

Sta. 200+00  
 2x3 Concrete Box  
 24' long x 4 ft. in height  
 Concrete Class A (1-2-3) 3.4 Cu Yds.  
 Reinforcing Steel 220 lbs.



B.M. 20 SPIKE IN ROOT 30' ELM. AT STA. 192+15 ELEV. 195.46  
 B.M. 21 SPIKE IN TRUNK 12' ELM. 13 FT. LT. STA. 205+21 ELEV. 209.33

**WOOD GUARD RAIL REQUIRED**

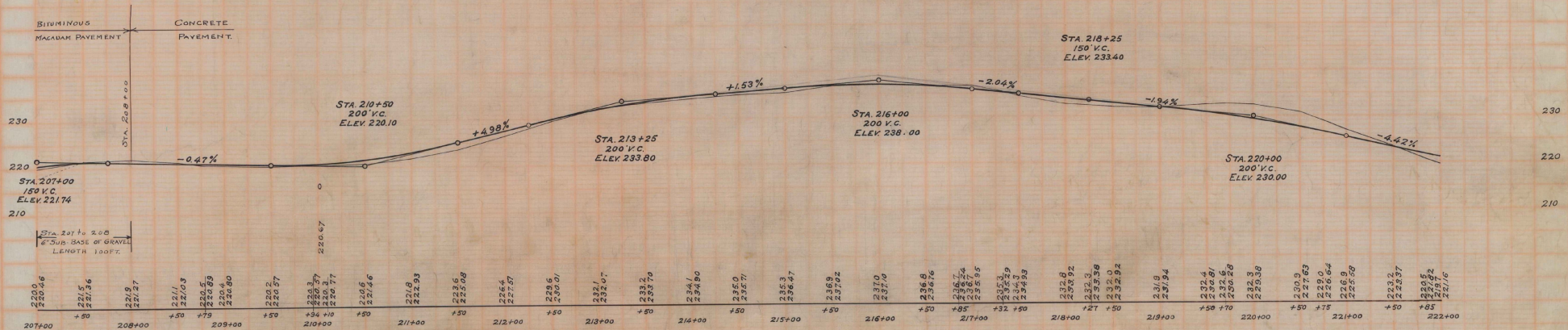
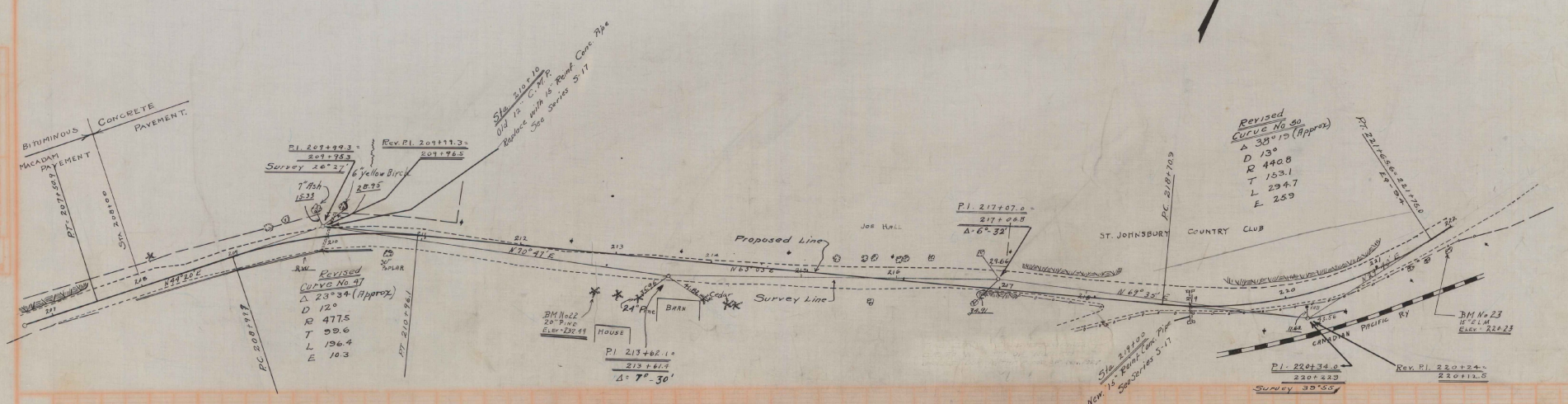
CULVERT  
 Sta. 209+98 to Sta. 210+22 Length 24 ft.  
 " 211+08 " " 211+12 " 24 "

**CABLE GUARD RAIL REQUIRED**

ON RIGHT  
 Sta. 217+88 to Sta. 217+90 Length 352 ft.  
 " 217+82 " " 222+20 " 488 "

**NEW CULVERTS REQUIRED**

Sta. 210+10 15" Reinf. Concrete Pipe Culvert 40 ft.  
 Concrete Class B (V-2-3) 21 Cu. Yds.  
 Reinforcing Steel 83 lbs.  
 Sta. 219+00 15" Reinf. Concrete Pipe Culvert 40 ft.  
 Concrete Class B (V-2-4) 21 Cu. Yds.  
 Reinforcing Steel 83 lbs.



BM 22 SPIKE IN ROOT 18" PINE 27 FT. RT. STA. 213+00 ELEV. 232.49  
 BM 23 SPIKE IN TRUNK 15" ELM 17 FT. RT. STA. 221+85 ELEV. 220.23

**WOOD GUARD RAIL REQUIRED**

ON LEFT  
Sta. 225+71 to Sta. 225+95 Length 24 ft

ON RIGHT  
Sta. 225+71 to Sta. 225+95 Length 24 ft

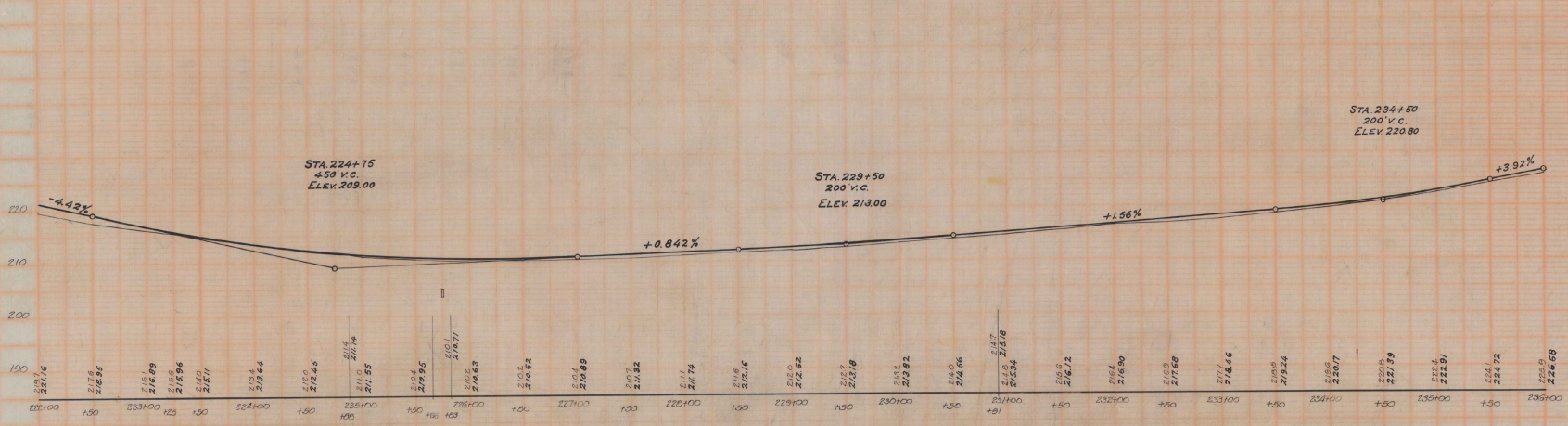
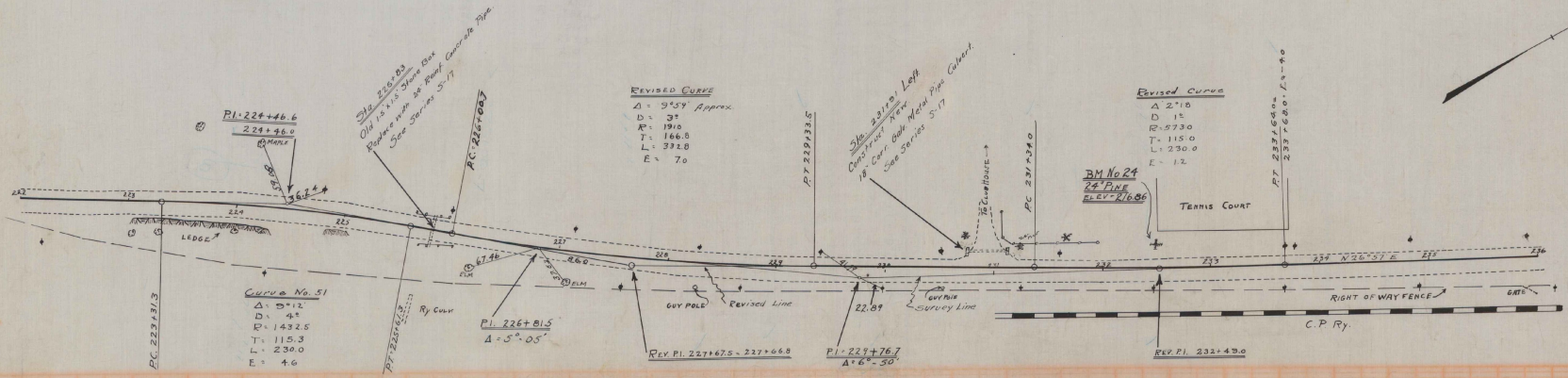
**NEW CULVERTS REQUIRED**

Sta. 225+83 - 24" Reinforced Concrete Pipe Culvert 40 ft  
Concrete Class B-(1-2 1/2)-3 41 Cu Yds  
Reinforcing Steel 33 lb.

**DRIVEWAY CULVERTS REQUIRED**

Sta. 231+21 to 24" 18" Cor. High Metal Pipe 36 ft  
Concrete Class B-(1-2 1/2)-3 1.6 Cu Yds.

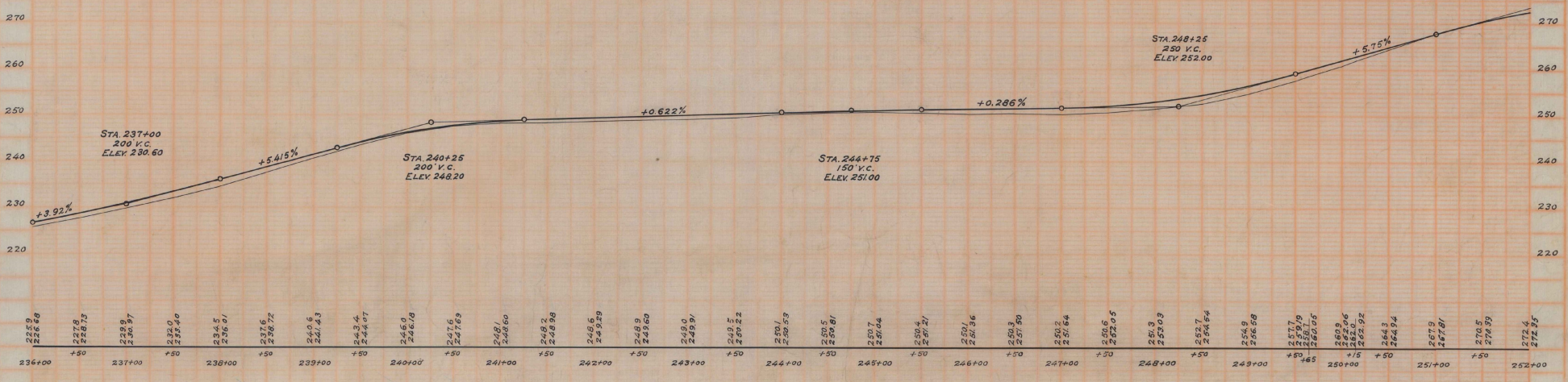
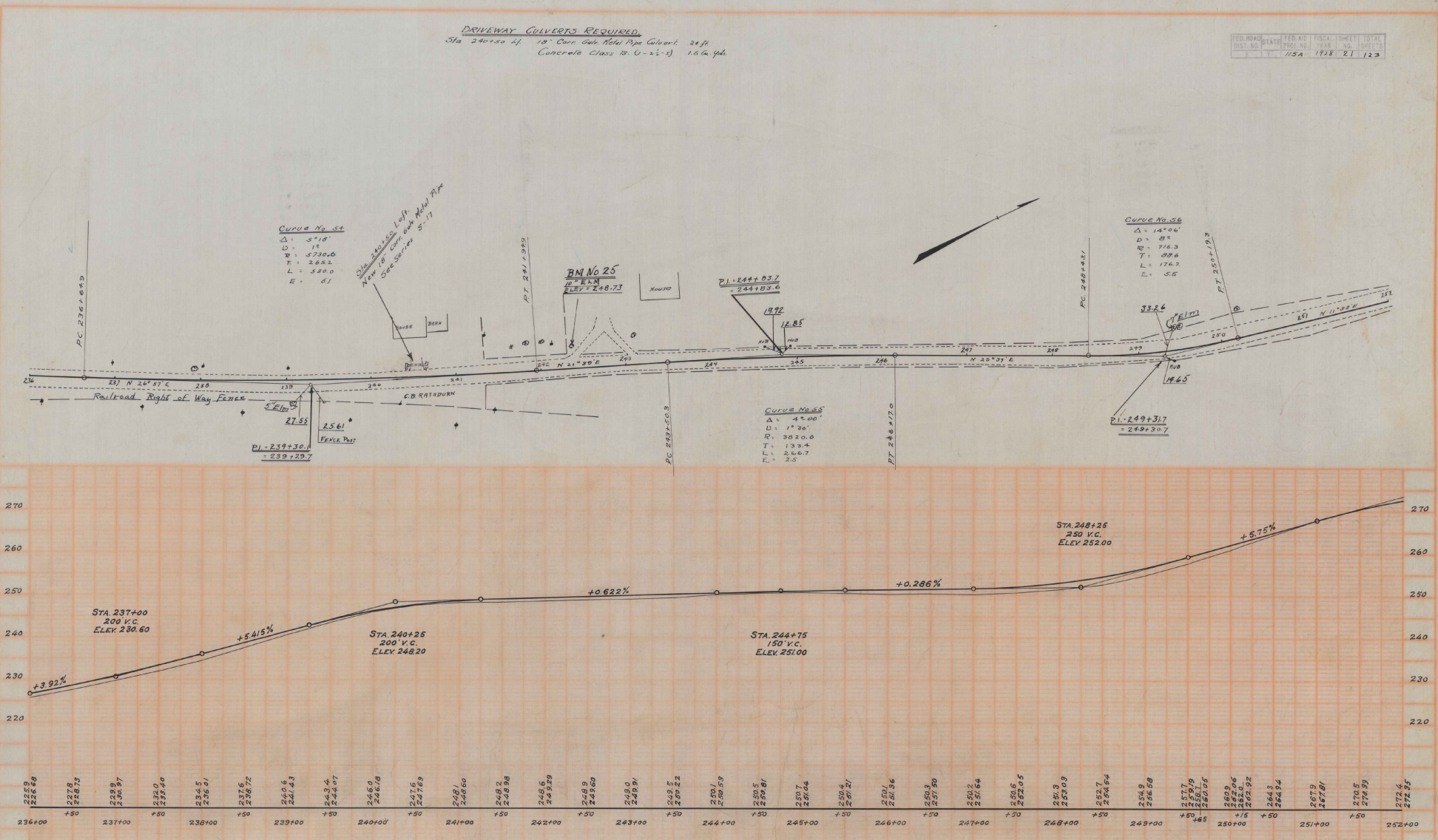
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	VT.	1254	1978	20	123



B.M. No. 29. Spike in Rest of 24" Pipe, Right of Sta. 232+99 Elev. 216.86

DRIVEWAY CULVERTS REQUIRED  
 Sta 240+50 Lf 18" Cor. Gals. Metal Pipe Culvert 24 ft  
 Concrete Class B (U-1-1) 1.6 cu yds

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	VA	115A	1928	21	123



B.M. No. 25 Spine in front of 10" Elm. Left of Sta. 242+57 Elev. 248.70

**WOOD GUARD RAIL REQUIRED.**

Sta. 265100 to Sta. 265102 Length 24 ft.

**CABLE GUARD RAIL REQUIRED.**

Sta. 265110 to Sta. 266725 Length 360 ft.

**NEW CULVERTS REQUIRED.**

Sta. 265720 - 25' Rein. Concrete Pipe Culvert 32 ft.  
 With Drop Inlet.  
 Concrete Class A (4-25-9) 10 cu ft.  
 " B (1-2-9) 21 " "  
 Reinforcing Steel 103 lbs.

PROJ. NO.	DATE	PER. AIR.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1154	1922	22		22	123



B.M. No. 26 Spike in trunk of 16' Elm. Right of Sta. 259+34 Elev. 273.93  
 B.M. No. 27 Spike in trunk of 16' Elm. Right of Sta. 262+41 Elev. 269.25

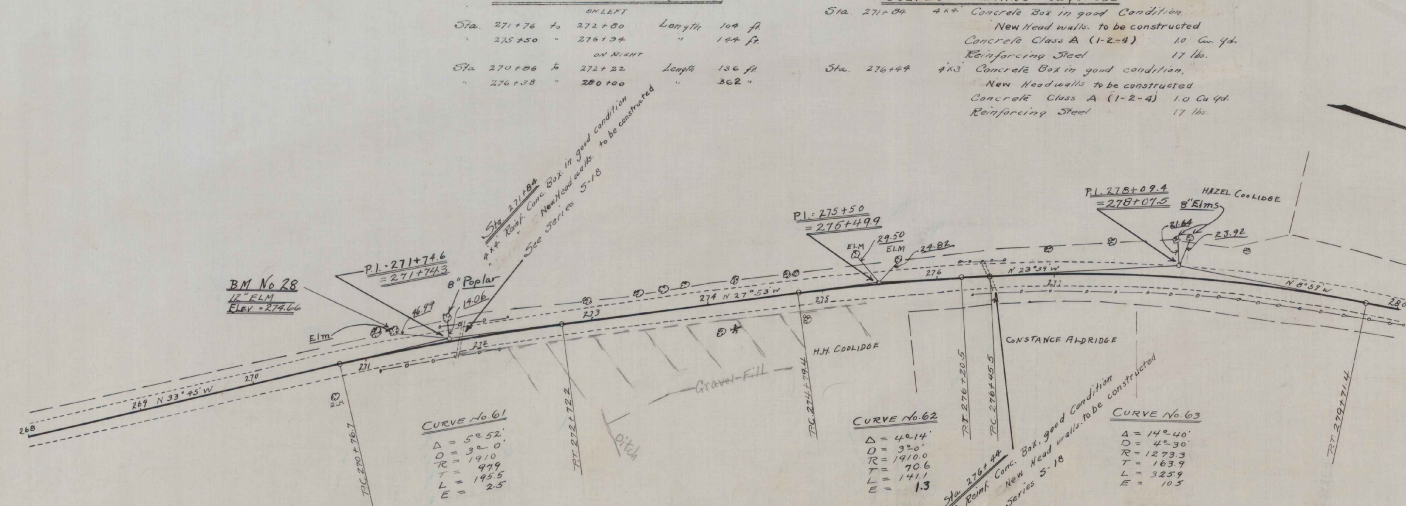
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VI	1154	1948	23	123

**CABLE GUARD RAIL REQUIRED**

ON LEFT  
Sta 271+76 to 272+00 Length 100 ft  
272+00 to 272+22 " 100 ft  
272+22 to 272+22 Length 156 ft  
272+22 to 276+00 " 302 ft

**CULVERT REPAIRS REQUIRED**

Sta 271+86 4x4 Concrete Box in good condition  
New Head walls to be constructed  
Concrete Class A (1-2-4) 10 Cu Yd.  
Reinforcing Steel 17 lbs.  
Sta 276+49 4x3 Concrete Box in good condition  
New Head walls to be constructed  
Concrete Class A (1-2-4) 10 Cu Yd.  
Reinforcing Steel 17 lbs.

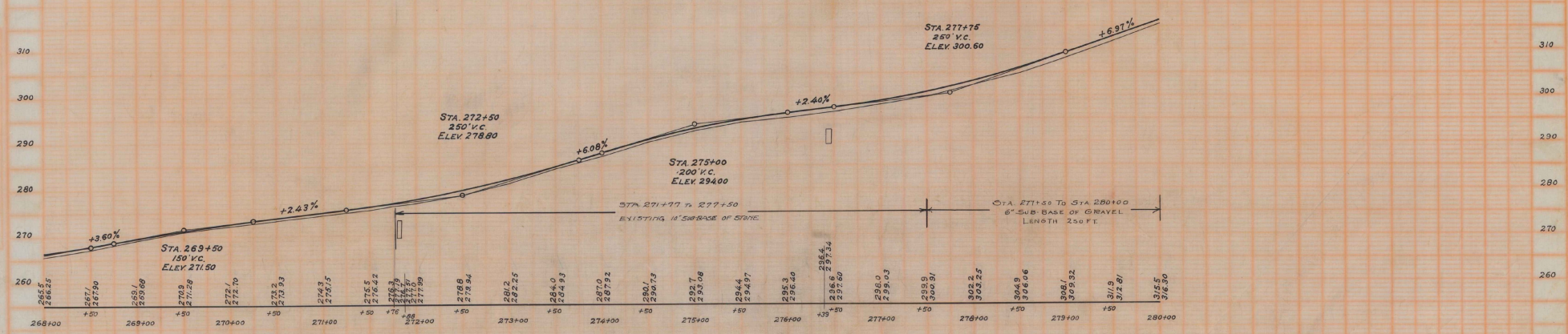


**CURVE No. 61**  
Δ = 52°52'  
D = 32.0'  
R = 171.0'  
T = 47.9'  
L = 195.5'  
E = 2.5'

**CURVE No. 62**  
Δ = 46°14'  
D = 32.0'  
R = 171.0'  
T = 70.6'  
L = 141.1'  
E = 1.3'

**CURVE No. 63**  
Δ = 14°40'  
D = 42°30'  
R = 1273.3'  
T = 163.9'  
L = 323.9'  
E = 10.5'

Note: 46' of 6" drain @ Sta 268+50 ± North of RR X at Sta 264+10



B.M. No. 28 Spike in Pool of 12" Elm. Left of Sta. 271+28 Elev 278.66



**WOOD GUARD RAIL REQUIRED**

Sta.	Start	End	Length
300+73	to	300+27	46 ft.
292+69	to	292+23	46 ft.
297+68	to	297+24	56 ft.
300+73	to	300+27	46 ft.

**CABLE GUARD RAIL REQUIRED**

Sta.	Start	End	Length
292+81	to	292+22	59 ft.

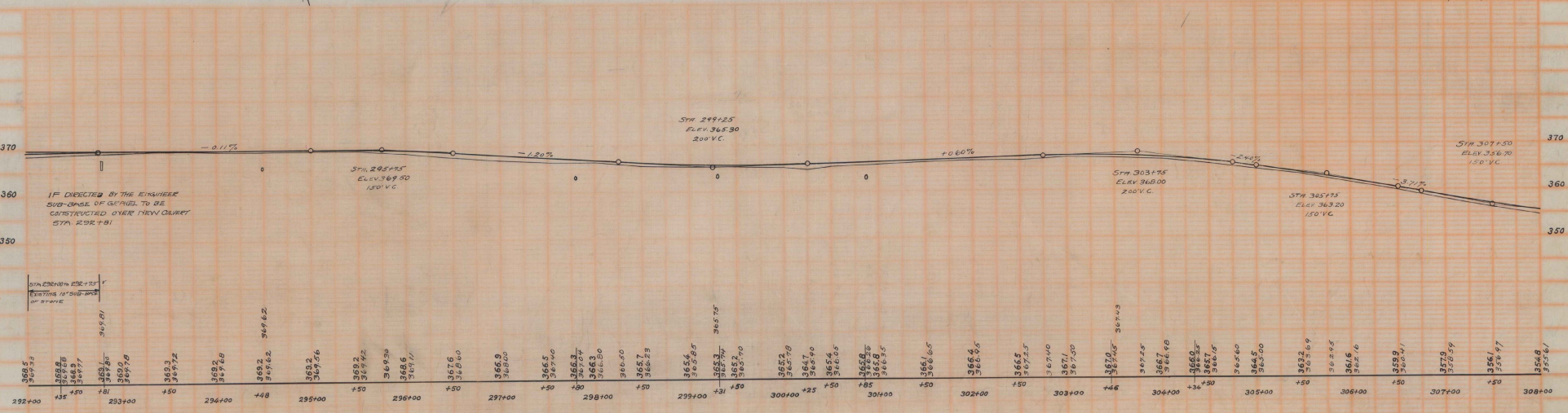
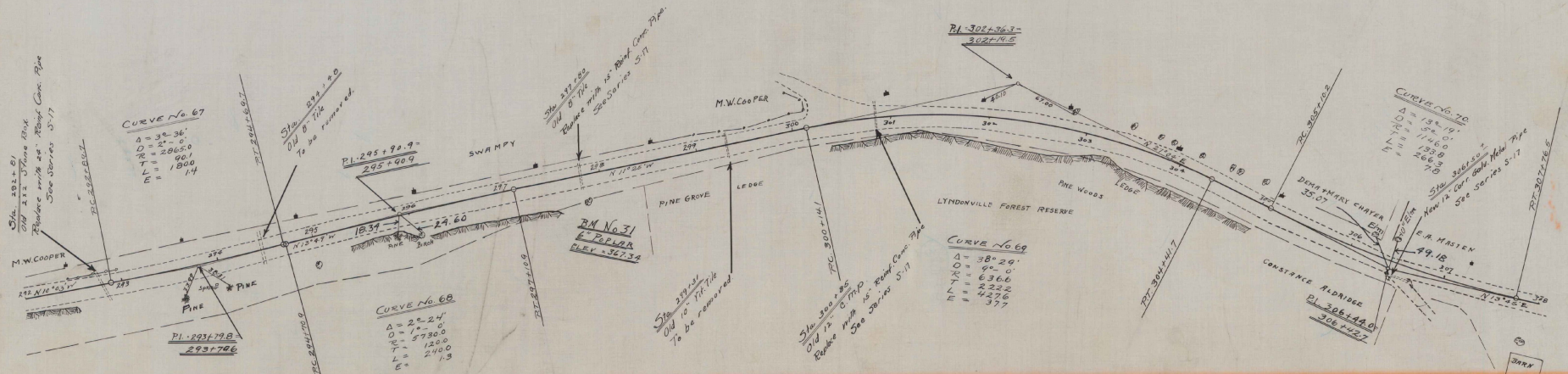
**NEW CULVERTS REQUIRED**

Sta. 292+81	22" Rein. Concrete Pipe Culvert	26 ft.
	Concrete Class B (1-2-3)	11 Cu Yds.
	Reinforcing Steel	33 lbs.
Sta. 297+00	18" Rein. Concrete Pipe Culvert	26 ft.
	Concrete Class B (1-2-3)	2.1 Cu Yds.
	Reinforcing Steel	23 lbs.
Sta. 300+88	18" Rein. Concrete Pipe Culvert	26 ft.
	Concrete Class B (1-2-3)	2.1 Cu Yds.
	Reinforcing Steel	23 lbs.

**NEW DRIVEWAY CULVERTS REQUIRED**

Sta. 306+50	24" Cur. Gals. Metal Pipe	24 ft.
	Concrete Class B (1-2-3)	1.1 Cu Yds.

FED. ROAD DIST. NO.	START	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VI	NSA	1937	25	123



B.M. No. 31 Spike in Back Side of 8" Poplar Right of Sta. 297+81 Elev. 367.34

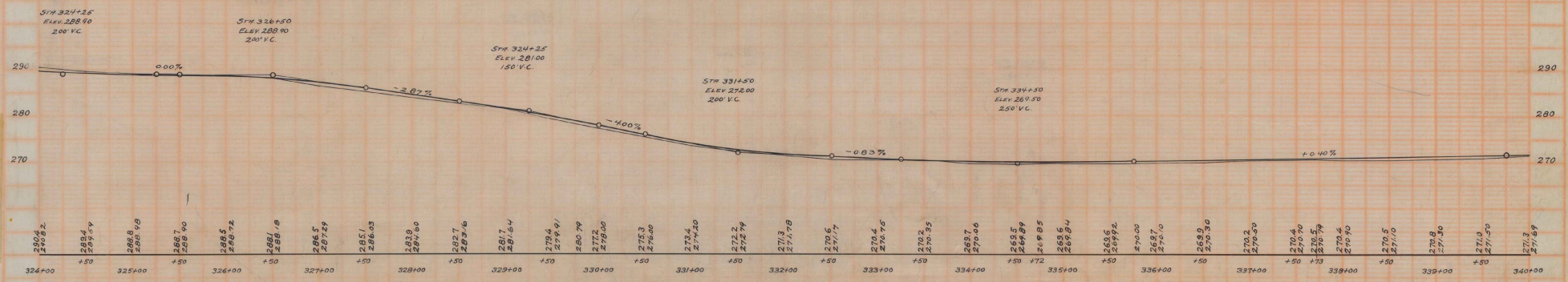
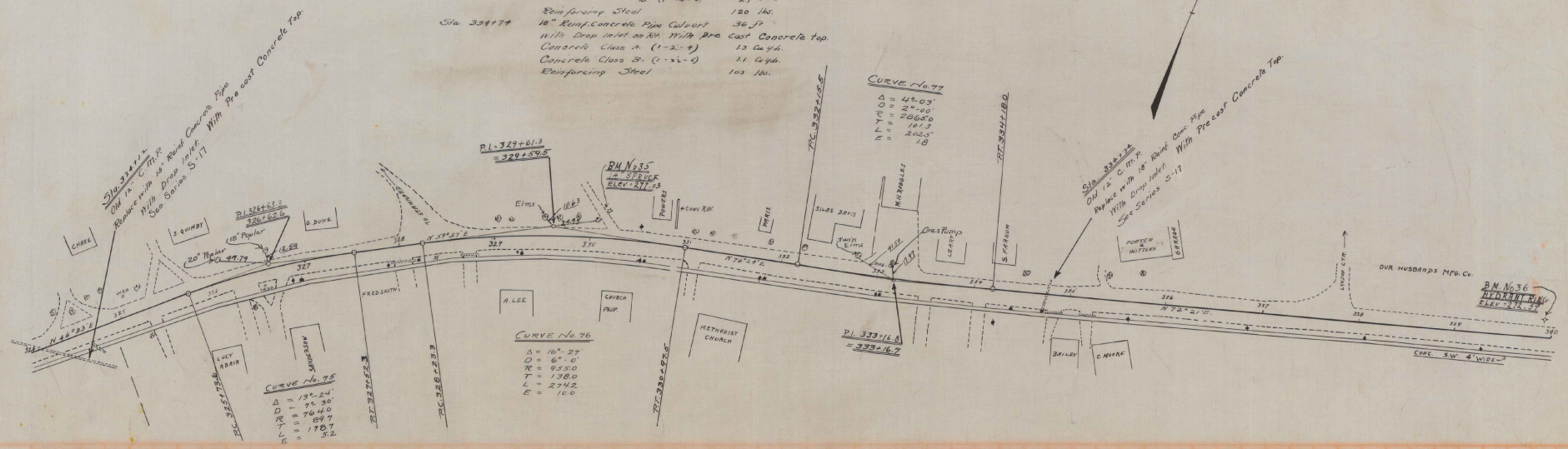


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VI.	115A	1923	27	123

**NEW CULVERTS REQUIRED**

Sta 324+12 15" Rein Concrete Pipe Culvert 108 ft.  
 With Drop Inlet at Sidewalk With pre cast Concrete Top.  
 Concrete Class A (1-2-4) 13 cu yds  
 " " " (1-2-4) 2.1 cu yds  
 Reinforcing Steel 120 lbs.

Sta 334+74 18" Rein Concrete Pipe Culvert 36 ft.  
 With Drop Inlet on Rd. With pre Cast Concrete Top.  
 Concrete Class A (1-2-4) 13 cu yds.  
 Concrete Class B (1-2-5) 11 cu yds.  
 Reinforcing Steel 103 lbs.



B.M. No. 36 Spike in Root of 18" Spruce, left of Sta. 330+16 Elev. 271.03  
 " " 36 Hydrant Top, Left of Sta. 331+91 Elev. 272.51



**CABLE GUARD RAIL REQUIRED.**

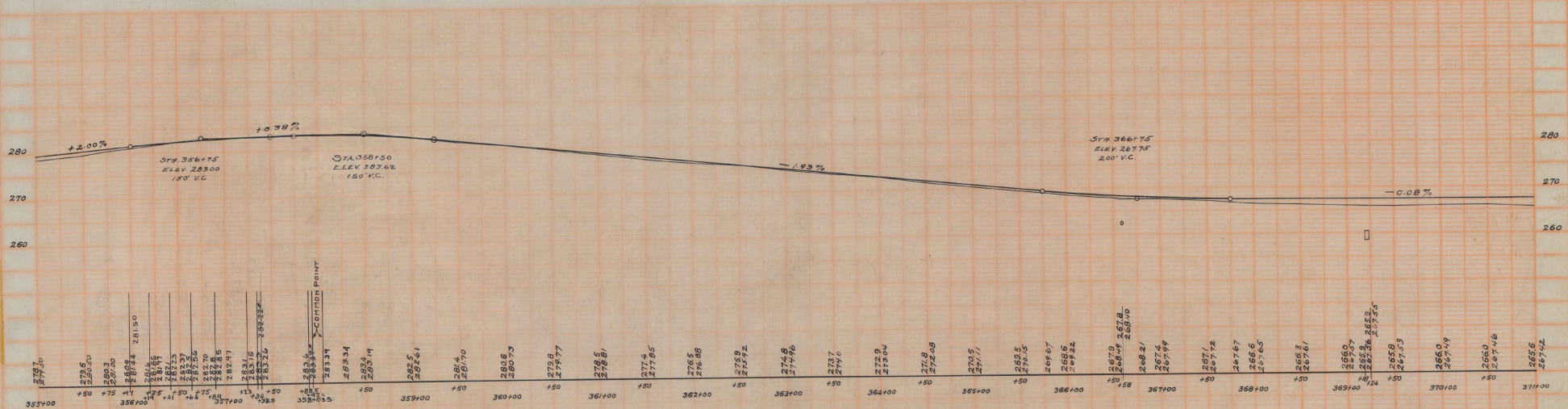
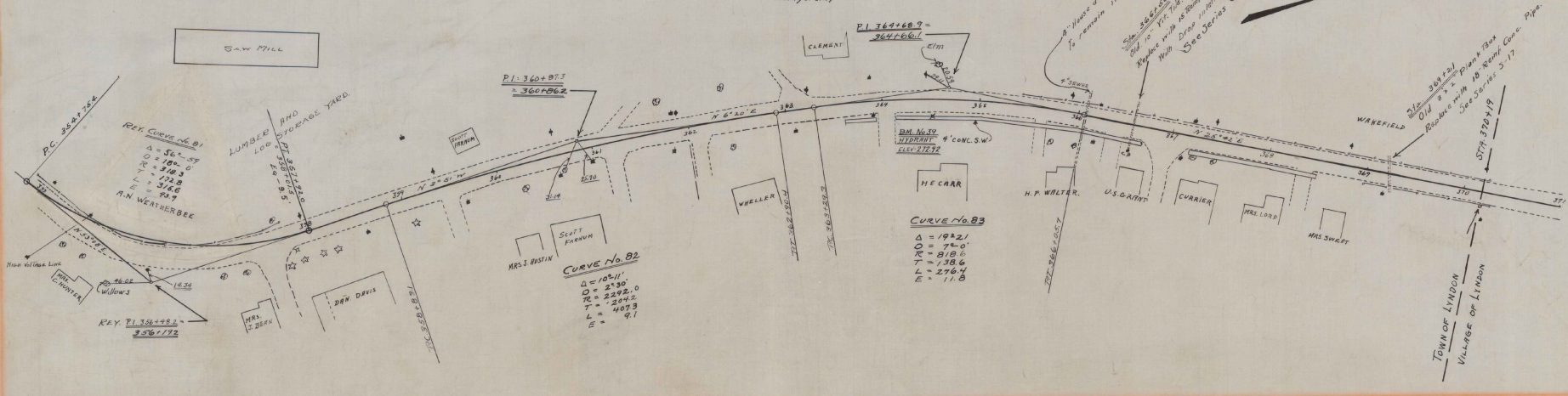
ON LEFT  
Sta. 355+00 to Sta. 357+26 Length 226 ft.  
" 365+50 " " 371+00 " 550 "

ON RIGHT  
Sta. 368+74 to Sta. 371+00 Length 226 ft.

**NEW CULVERTS REQUIRED.**

Sta. 366+58 15" Rein. Concrete Pipe Culvert 62 ft.  
With Drop Inlet & Precast Concrete Top.  
Concrete Class A (1-2-4) 13 cu. yds.  
Concrete Class B (1-2-5) 11 " "  
Reinforcing Steel 108 lbs.  
Sta. 369+21 18" Rein. Concrete Pipe Culvert 60 ft.  
Concrete Class B (1-2-5) 17 cu. yds.  
Reinforcing Steel 88 lbs.

PROJ. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
115A	1938	29	123		



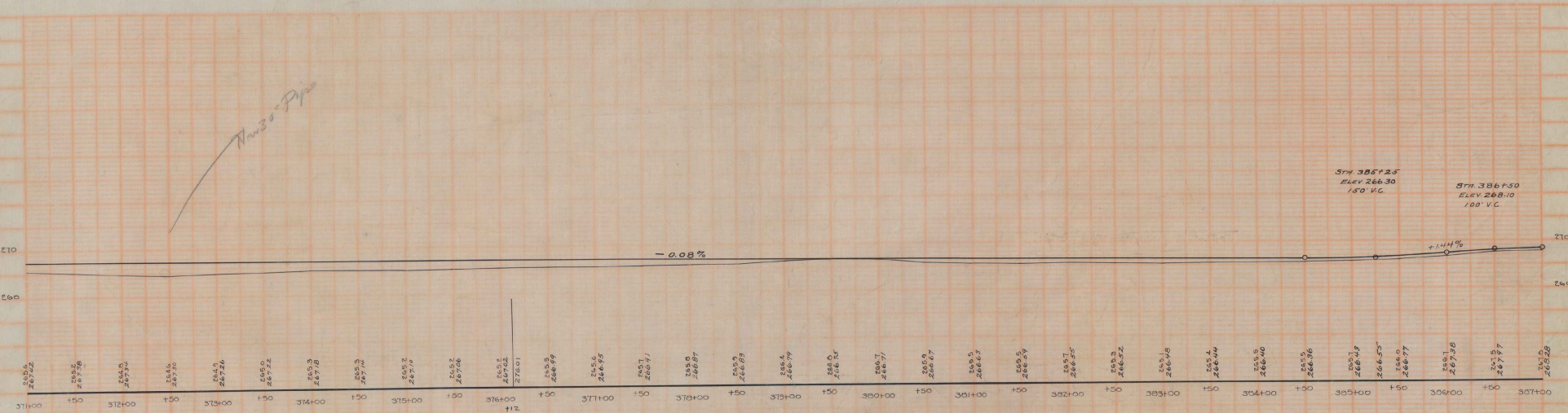
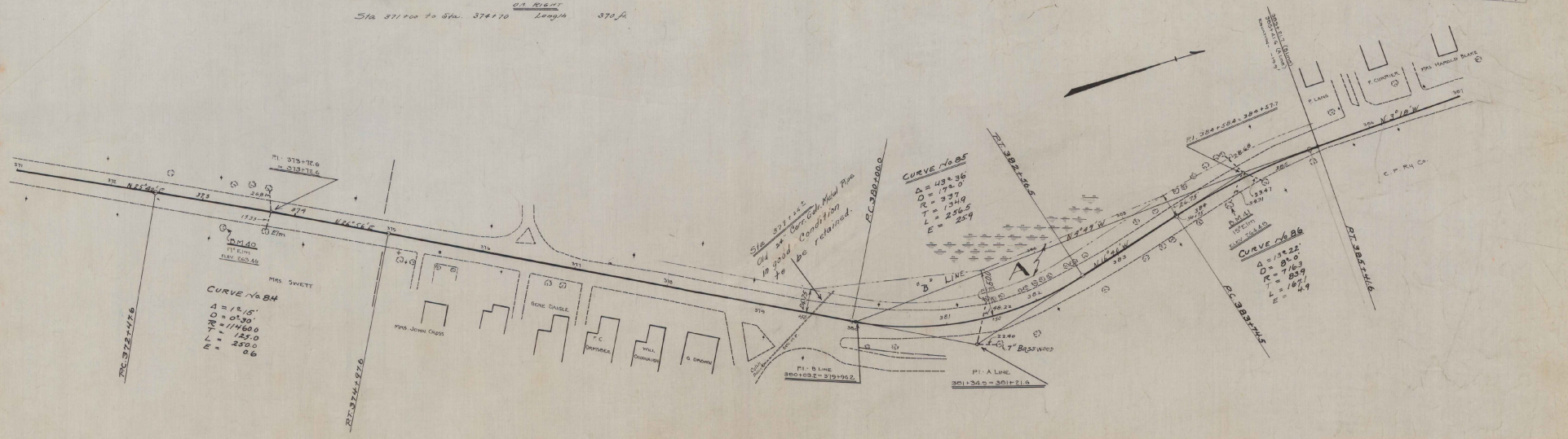
B.M. No. 39 Hydrant on Right of Way Sta. 364+99 Elev. 272.92

**CABLE GUARD RAIL REQUIRED**

Sta. 371+00 to Sta. 376+22 ON LEFT Length 522 ft.  
 Sta. 371+00 to Sta. 374+10 ON RIGHT Length 370 ft.

PARCEL INSTRUMENT DATE GRANTOR GRANTEE RECORDED  
 A Q.C.D. 11-26-40 FRED & FLOISIE BROOKS ST OF LY LINDOIN  
 BOOK PAGE DATE  
 38 120 11-26-40

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	VT	110A	1941	30	123



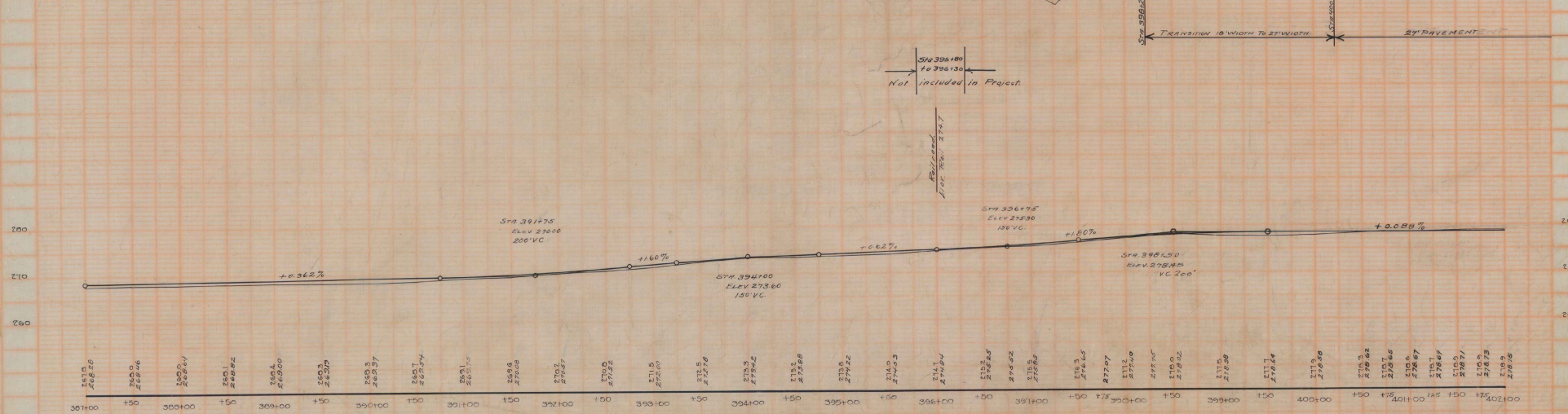
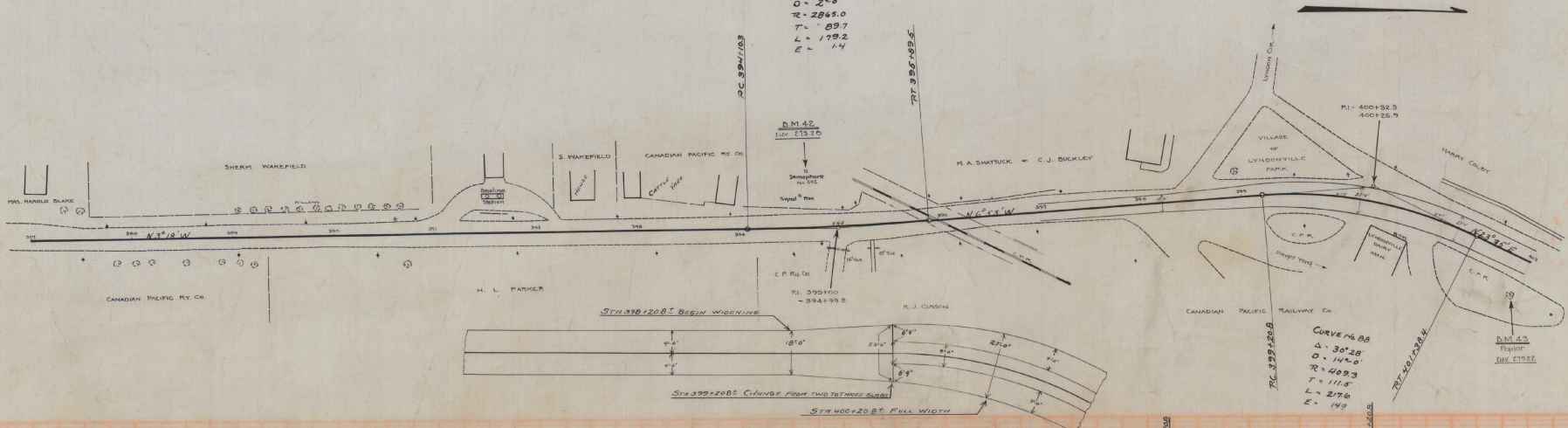
D.M. 40 - Spike in roof of 11' Elm, 21' N. Sta. 373+24 Elev. 263.46  
 D.M. 41 - Spike in roof of 15' Elm, 15' N. Sta. 384+25 Elev. 264.40

**CABLE GUARD RAIL REQUIRED**

ON LEFT  
 Sta 386200 to Sta 397120 Length 1090 ft.  
 ON RIGHT  
 Sta 381116 to Sta 391104 Length 998 ft.

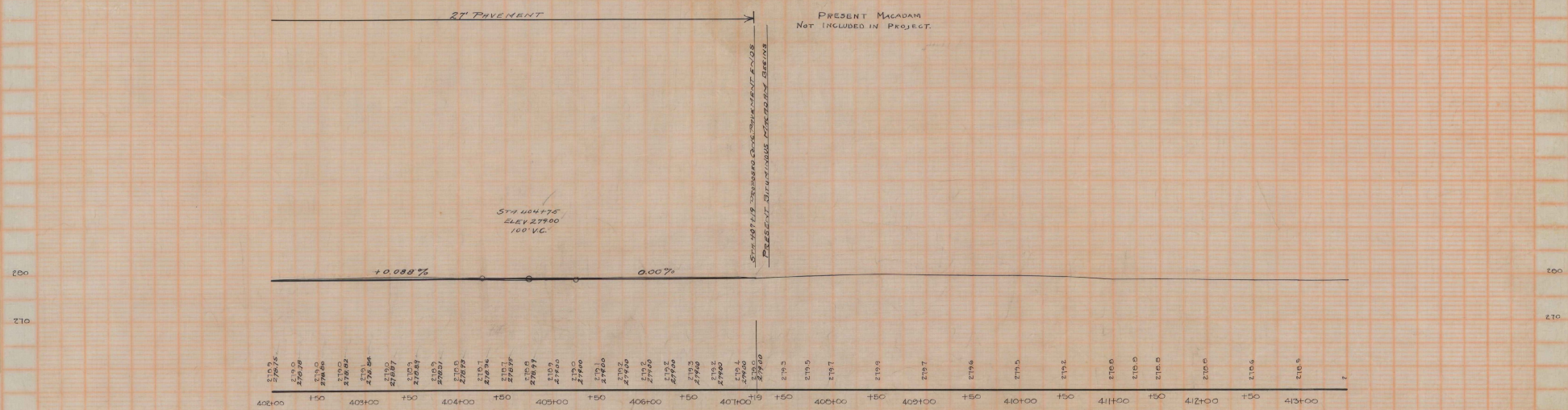
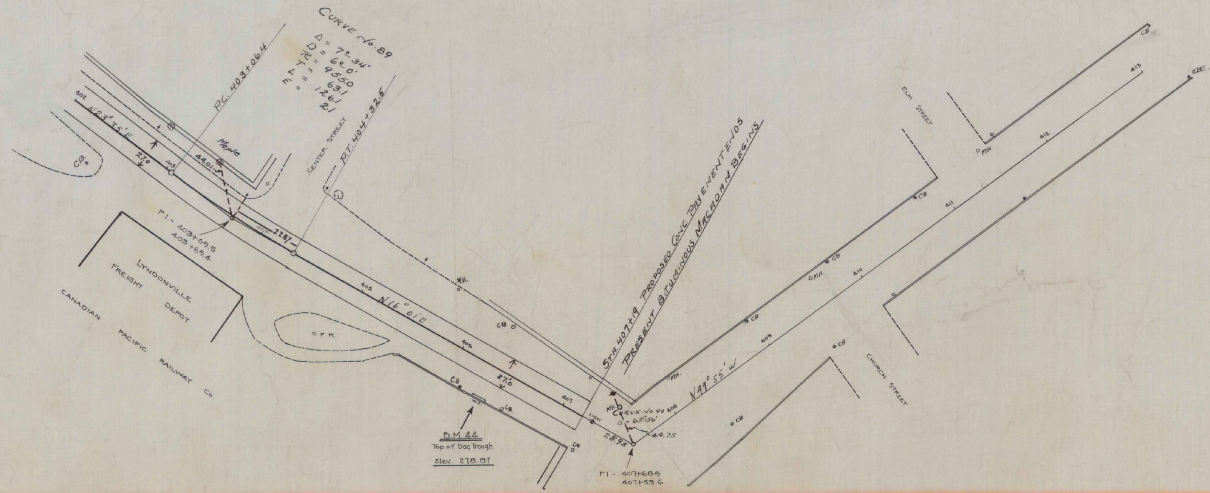
**CURVE No. 87**  
 $\Delta = 37.35^\circ$   
 $D = 27.0'$   
 $R = 2865.0$   
 $T = 83.7$   
 $L = 179.2$   
 $E = 1.4$

**CURVE No. 88**  
 $\Delta = 30.28^\circ$   
 $D = 14.0'$   
 $R = 409.3$   
 $L = 217.0$   
 $E = 1.9$



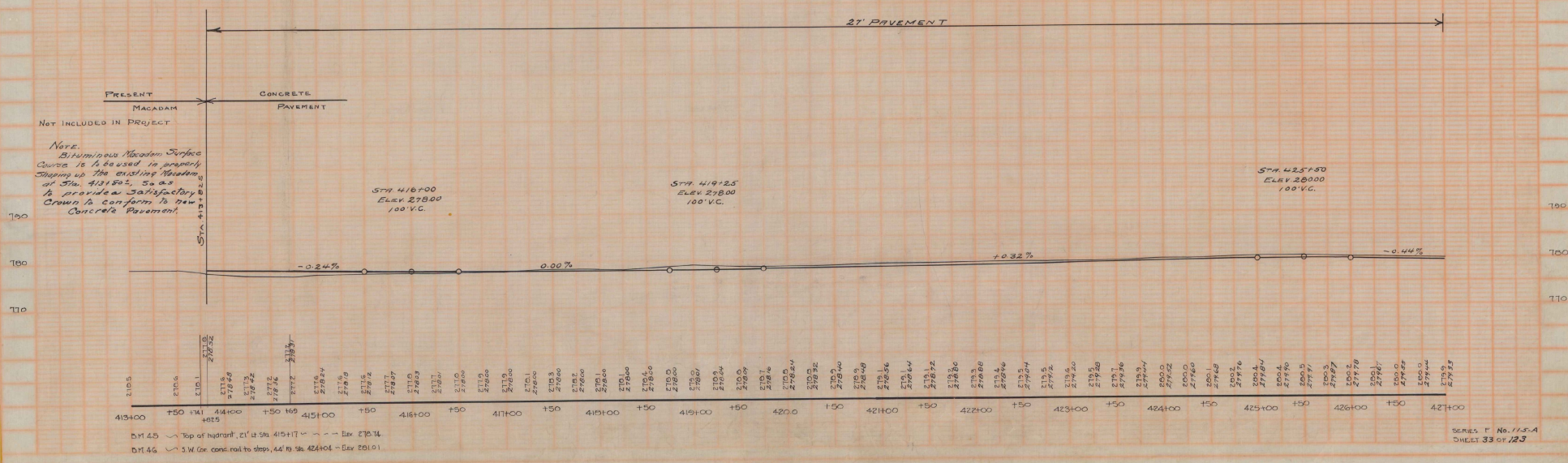
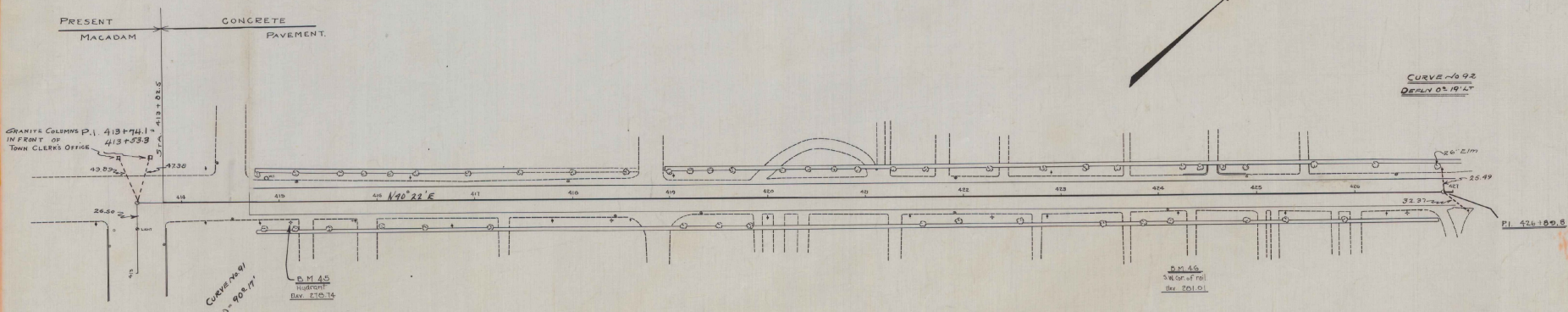
D.M.42 - S.I. Car Foundation Serephom No. 662, S.I. 11 Sta 384600 - 391846  
 S.I. 12 VERT - Serephom No. 662, S.I. 11 Sta 384600 - 391846  
 D.M.42 - Serephom No. 662, S.I. 11 Sta 384600 - 391846

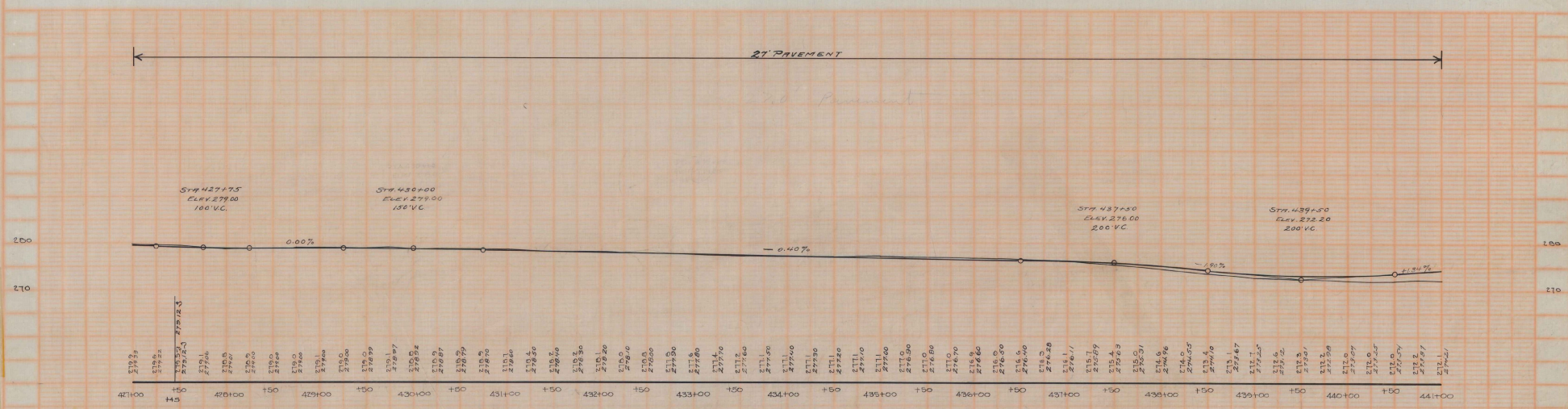
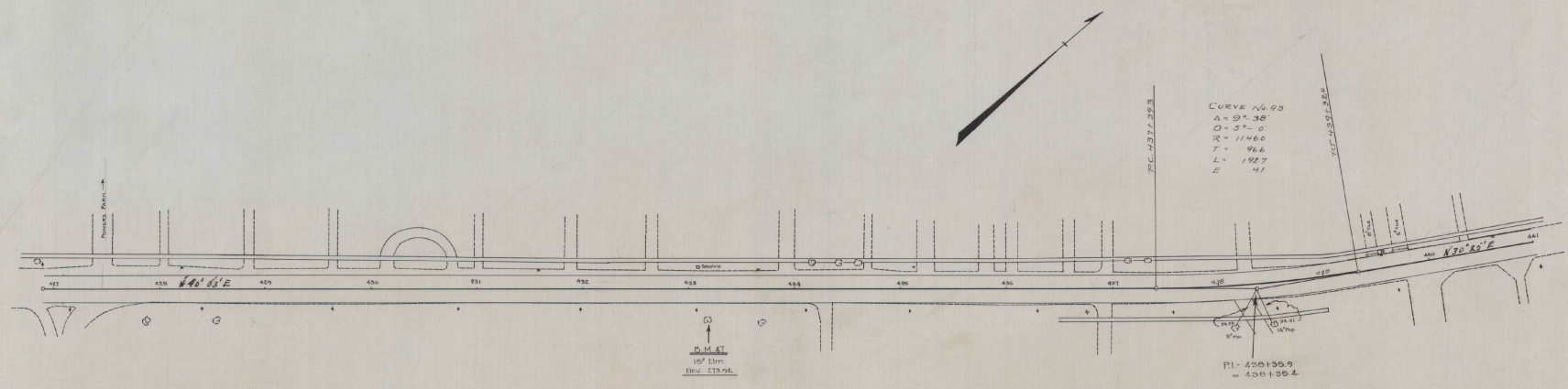
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	VT	1034	1929	32	103



D.M. 4.4 - Top of Dog Trough, 20' to 30' 406+121 - Div 210.01

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	VT	115-A	1928	33	





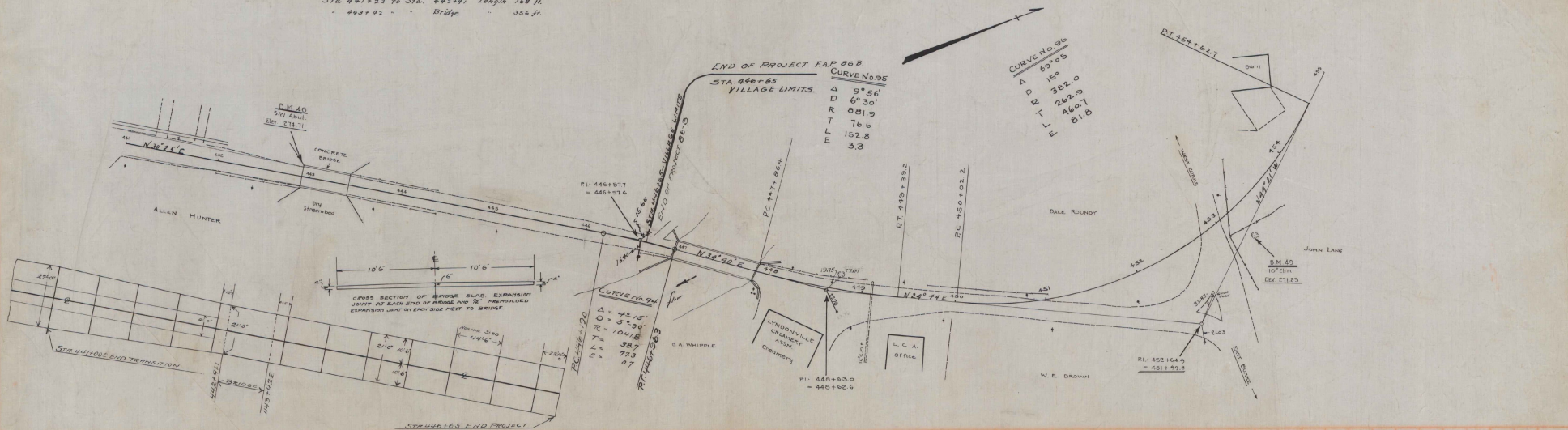
D.M. 47 - Spike in root of 10' turn, 26 1/2" dia. 433+16 - - Elev. 273.92

**WOOD GUARD RAIL REQUIRED.**

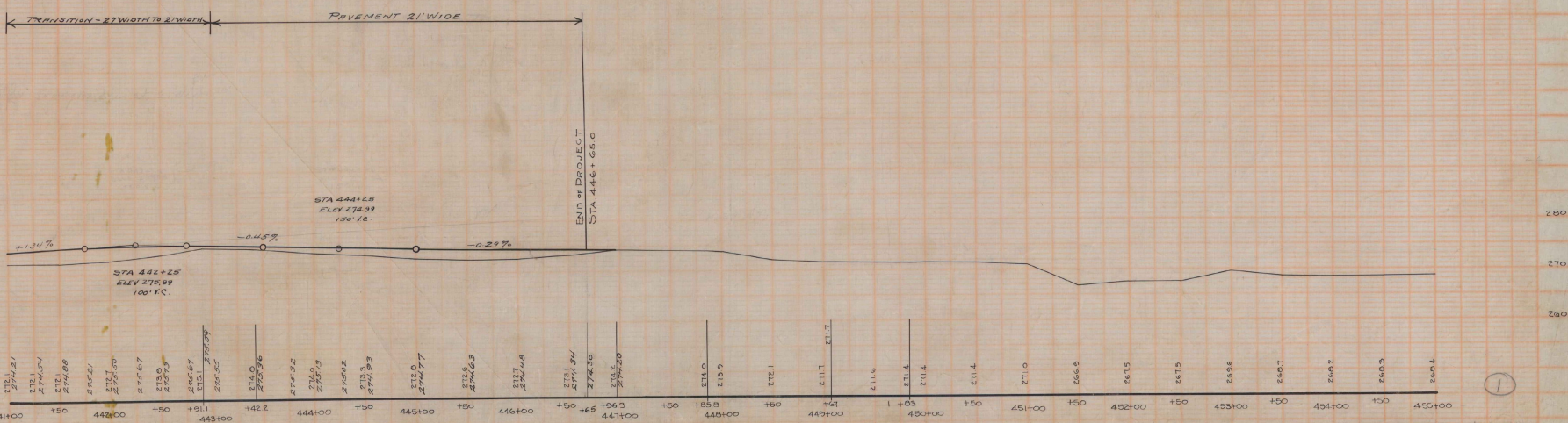
ON LEFT  
Sta. 442+03 to Sta. 443+91 Length 88 ft.  
446+72 - - - - - 446+76 - - - - - 24

**CABLE GUARD RAIL REQUIRED**

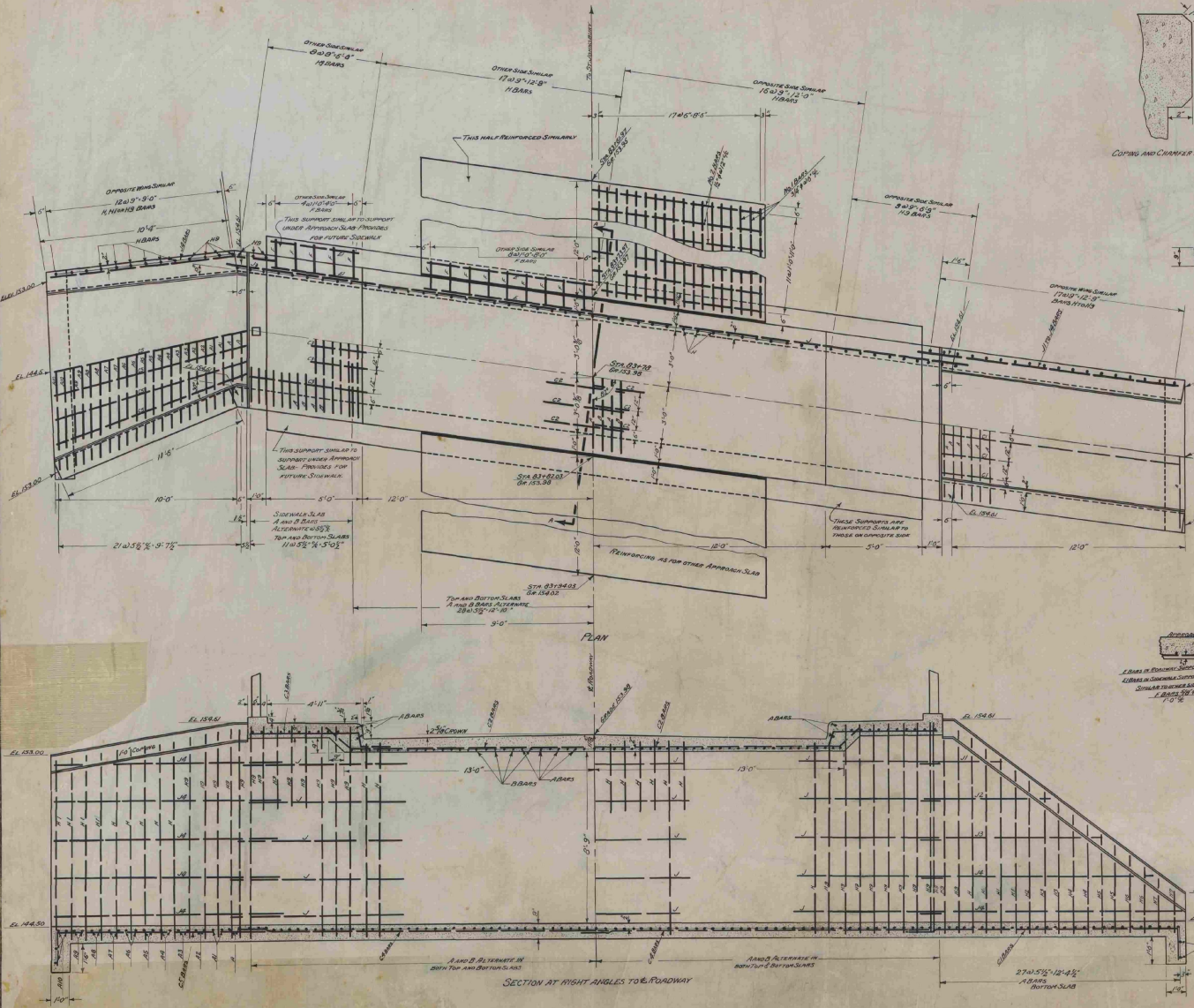
ON LEFT  
Sta. 443+92 to Sta. 446+78 Length 336 ft.  
ON RIGHT  
Sta. 441+22 to Sta. 443+91 Length 169 ft.  
443+92 - - - - - Bridge - - - - - 354 ft.



CROSS SECTION OF BRIDGE SLAB EXPANSION JOINT AT EACH END OF BRIDGE AND TO PROPOSED EXPANSION JOINT AT EACH SIDE NEXT TO BRIDGE.

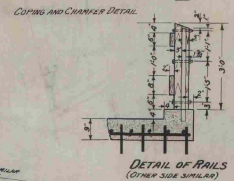


D.M. 4 D ✓ On con. bridge abutment, Sta. 442+92 - - - ELEV. 274.11  
 D.M. 4 D ✓ Spikes in road 15' from Sta. 443+92 - - - ELEV. 271.23



**CONCRETE 1-2-4**

ALL EXPOSED EDGES SHALL BE CHAMFERED 1" WHICH DIMENSION SHALL BE THE TOTAL LENGTH ACROSS THE FINISHED CHAMFER.  
 THE LENGTH, SHAPE AND POSITION OF BARS MAY BE DETERMINED OR CHANGED BY THE ENGINEER TO MEET REQUIREMENTS FOUND IN THE FIELD.  
 ANY SUITABLE STRUCTURE EXPLANATION USED BY THE CONTRACTOR FOR ANY OTHER PURPOSE OTHER THAN TO BACK-FILL OR APPROACH-FILL SHALL BE REPLACED BY AN EQUIVALENT QUANTITY OF BARBOR BY THE CONTRACTOR AT HIS OWN RISK UNLESS SAID IS ORDERED BY THE ENGINEER.  
 ALL WORK AND MATERIALS SHALL CONFORM TO STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE VEHICULAR DEPARTMENT OF HIGHWAYS, 1926.



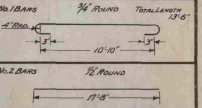
PART COURSE 1 - SHOT CUT APPROACH REINFORCEMENT  
 REINFORCEMENT PART  
 2-3/8" DIA. STEEL BOLT 5'-0"  
 1-3/4" x 6-7/8" 3-3/4" DIA.  
 3-3/8" DIA. STEEL BOLT  
 2 WOODEN POST BOLT  
 HOLES AT TOP OF POST TO BE FILLED WITH PUTTY  
 APPROXIMATE  
 BOLTS TO BE THREADED 1/2"  
 2-POSTS REQUIRED: 1-POST FOR EACH CURB

BAR	SIZE	TOTAL LENGTH
A	3/8"	31'-3"
A-1	3/8"	31'-3"
A-2	3/8"	10'-3"
A-3	3/8"	10'-7"
A-4	3/8"	10'-10"
A-5	3/8"	11'-1"
A-6	3/8"	11'-4"
A-7	3/8"	11'-7"
A-8	3/8"	11'-11"
A-9	3/8"	12'-1"
A-10	3/8"	12'-4"
B BAR	3/8"	5'-0"
C BAR	3/8"	5'-0"
D BAR	3/8"	5'-0"
E BAR	3/8"	5'-0"
F BAR	3/8"	5'-0"
G BAR	3/8"	5'-0"
H BAR	3/8"	5'-0"
I BAR	3/8"	5'-0"
J BAR	3/8"	5'-0"
K BAR	3/8"	5'-0"
L BAR	3/8"	5'-0"
M BAR	3/8"	5'-0"
N BAR	3/8"	5'-0"
O BAR	3/8"	5'-0"
P BAR	3/8"	5'-0"
Q BAR	3/8"	5'-0"
R BAR	3/8"	5'-0"
S BAR	3/8"	5'-0"
T BAR	3/8"	5'-0"
U BAR	3/8"	5'-0"
V BAR	3/8"	5'-0"
W BAR	3/8"	5'-0"
X BAR	3/8"	5'-0"
Y BAR	3/8"	5'-0"
Z BAR	3/8"	5'-0"

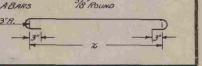
**REINFORCING STEEL DETAILS**

ALL STEEL TO BE REINFORCED  
 REINFORCING STEEL TO CONFORM TO STANDARD SPECIFICATIONS FOR BILLET STEEL CONCRETE REINFORCING BARS OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, SERIAL DESIGNATION A155-34

**APPROACH SLABS**



**MAIN STRUCTURE**



BAR	SIZE	TOTAL LENGTH
A	3/8"	31'-3"
A-1	3/8"	31'-3"
A-2	3/8"	10'-3"
A-3	3/8"	10'-7"
A-4	3/8"	10'-10"
A-5	3/8"	11'-1"
A-6	3/8"	11'-4"
A-7	3/8"	11'-7"
A-8	3/8"	11'-11"
A-9	3/8"	12'-1"
A-10	3/8"	12'-4"
B BAR	3/8"	5'-0"
C BAR	3/8"	5'-0"
D BAR	3/8"	5'-0"
E BAR	3/8"	5'-0"
F BAR	3/8"	5'-0"
G BAR	3/8"	5'-0"
H BAR	3/8"	5'-0"
I BAR	3/8"	5'-0"
J BAR	3/8"	5'-0"
K BAR	3/8"	5'-0"
L BAR	3/8"	5'-0"
M BAR	3/8"	5'-0"
N BAR	3/8"	5'-0"
O BAR	3/8"	5'-0"
P BAR	3/8"	5'-0"
Q BAR	3/8"	5'-0"
R BAR	3/8"	5'-0"
S BAR	3/8"	5'-0"
T BAR	3/8"	5'-0"
U BAR	3/8"	5'-0"
V BAR	3/8"	5'-0"
W BAR	3/8"	5'-0"
X BAR	3/8"	5'-0"
Y BAR	3/8"	5'-0"
Z BAR	3/8"	5'-0"

SCALE 3/8" = 1'-0"

**BRIDGE AT STA. 83+78**  
**F.A.P. 115A**  
**ST. JOHNSBURY, VT.**

CORRECT  
 G. D. [Signature]  
 Bridge Engineer

APPROXIMATE QUANTITIES	
STRUCTURE EXCAVATION	115 CU YDS
CONCRETE PAVEMENT TYPE B	19 CU YDS
1-2-4 CONCRETE	64 CU YDS
REINFORCING STEEL	7,173 LBS

Surveyed by Dix  
 Designed by [Signature]  
 Drawn by [Signature]  
 Checked by [Signature]  
 Series F No. 115A Filed  
 Sheet 36 of 123 Sheets

1928

St. Johnsbury-Lyndon

FR. 115A

1928