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12 TO 41	CROSS SECTIONS

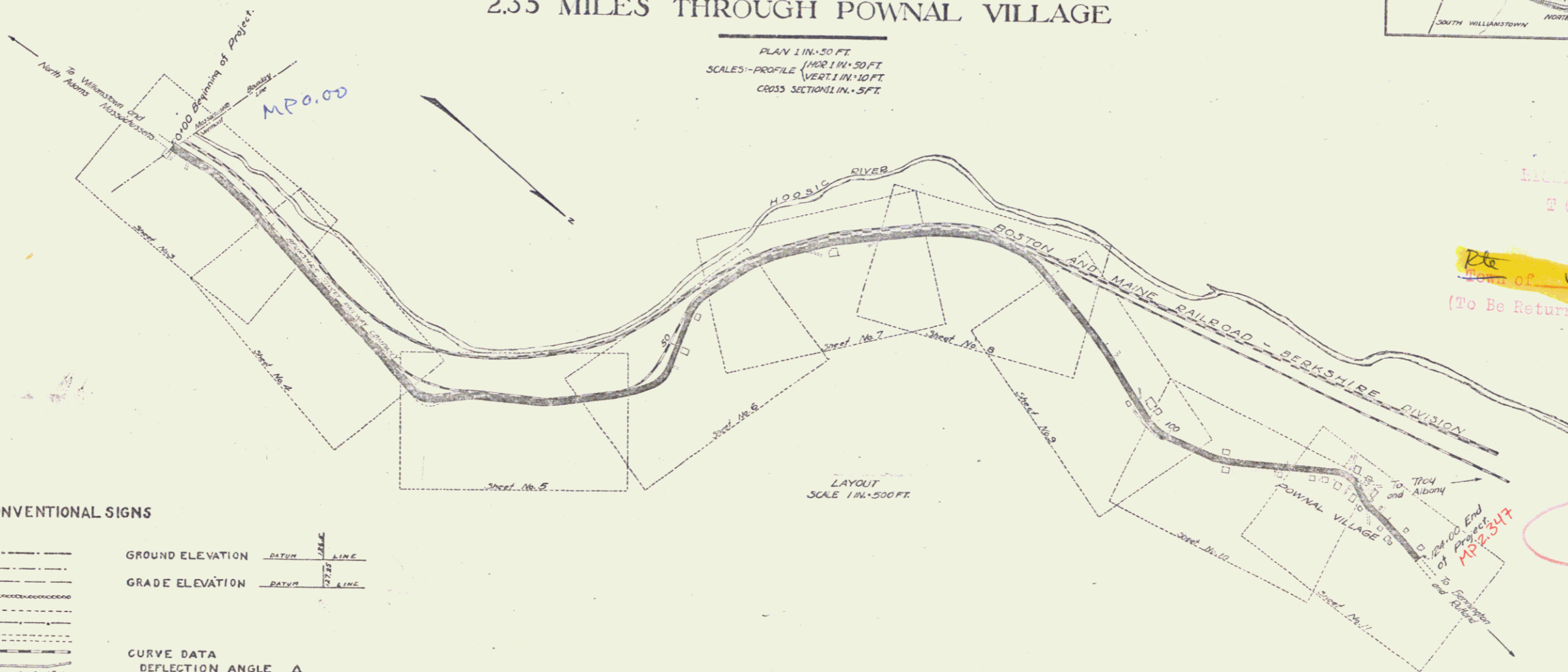
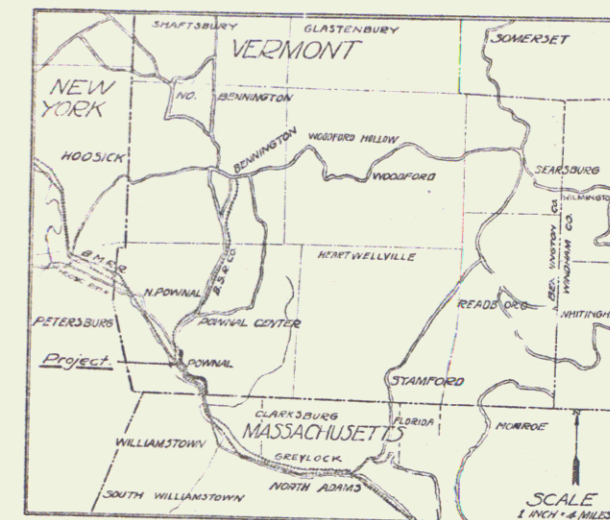
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEETS
3	V.T.	22	22	1	21

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
FEDERAL AID PROJECT

TOWN OF POWNAL *Pin# 992522*

WILLIAMSTOWN - BENNINGTON ROAD
FROM MASSACHUSETTS STATE LINE NORTHERLY
2.35 MILES THROUGH POWNAL VILLAGE



RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
Rte 107 of US 7
(To Be Returned to R.O.W. Division)

CONVENTIONAL SIGNS

COUNTY LINE	---	GROUND ELEVATION	--- 100' ---
TOWN LINE	----	GRADE ELEVATION	--- 100' ---
FENCE LINE	-----		
STONE WALL	-----		
UNFENCED PROPERTY	-----		
GUARD RAIL	-----		
TRAVELED WAY	-----		
RAILROAD	-----		
RETAINING WALL	-----		
CENTER & SURVEY LINE	-----		
CULVERT	-----		
DROP INLET	-----		
TROLLEY POLE	-----		
POWER POLE	-----		
TELEPHONE POLE	-----		
TREES	-----		
HEDGE	-----		

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.

Project No. F. 42

SUBMITTED BY ORDER OF THE STATE HIGHWAY DEPARTMENT
CHIEF ENGINEER
DEPARTMENT OF HIGHWAYS

RECOMMENDED
DISTRICT ENGINEER
BUREAU OF PUBLIC ROADS
RECOMMENDED FOR APPROVAL
CHIEF ENGINEER, BUREAU OF PUBLIC ROADS
APPROVED
DIRECTOR, BUREAU OF PUBLIC ROADS

Series F No. 2 File
2nd 1 of 21

DIST. # 1 PLANS

TYPICAL CROSS SECTIONS

SCALE - 1 inch = 2 1/2 feet

REGULAR SECTION

Sta. 0+00 to Sta. 2+00.2	Length	2002
4+42.5 - 7+04.6		2621
8+36.4 - 26+31.6		8352
29+57.0 - 35+34.8		6378
38+38.5 - 43+27.8	476.6	Eq. of 12.4
48+47.3 - 51+38.5		3312
55+51.1 - 58+04.1		2530
65+35.1 - 72+60.0	6668	Eq. of 13
82+44.3 - 93+30.0		10657
107+47.9 - 114+27.6		6737
115+65.0 - 116+30.0		850
TOTAL		65333.71

REGULAR SECTION WITH SUB-BASE

Sta. 33+30.0 to Sta. 95+42.0	Length	2120
116+50.0 - 117+02.7		527
118+69.9 - 124+00.0		5301
TOTAL		7348.71

CURVE SECTION

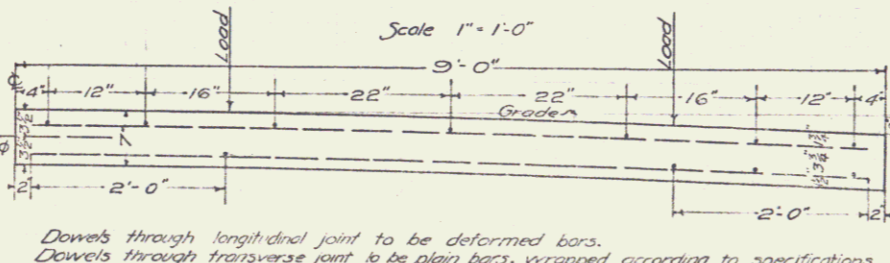
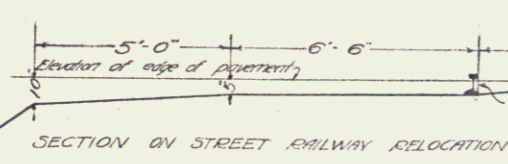
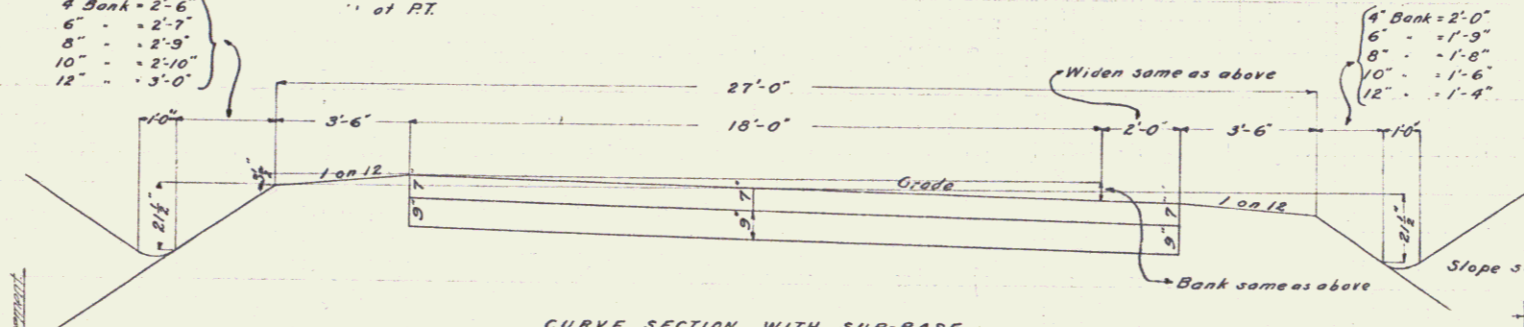
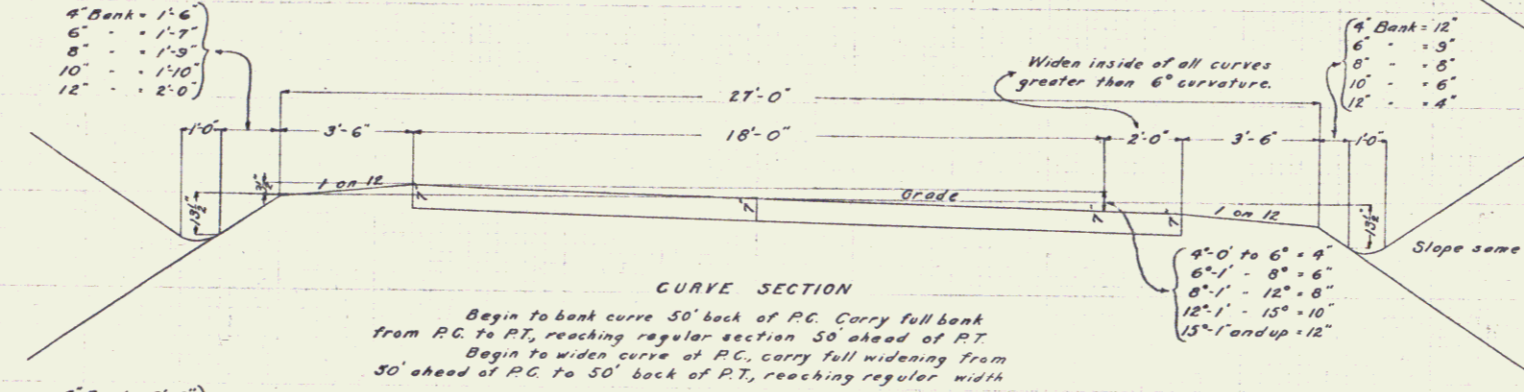
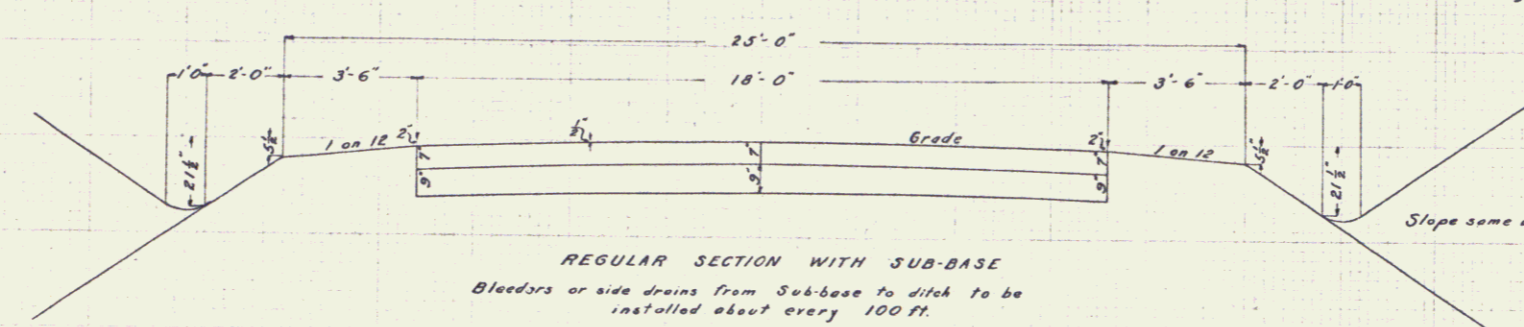
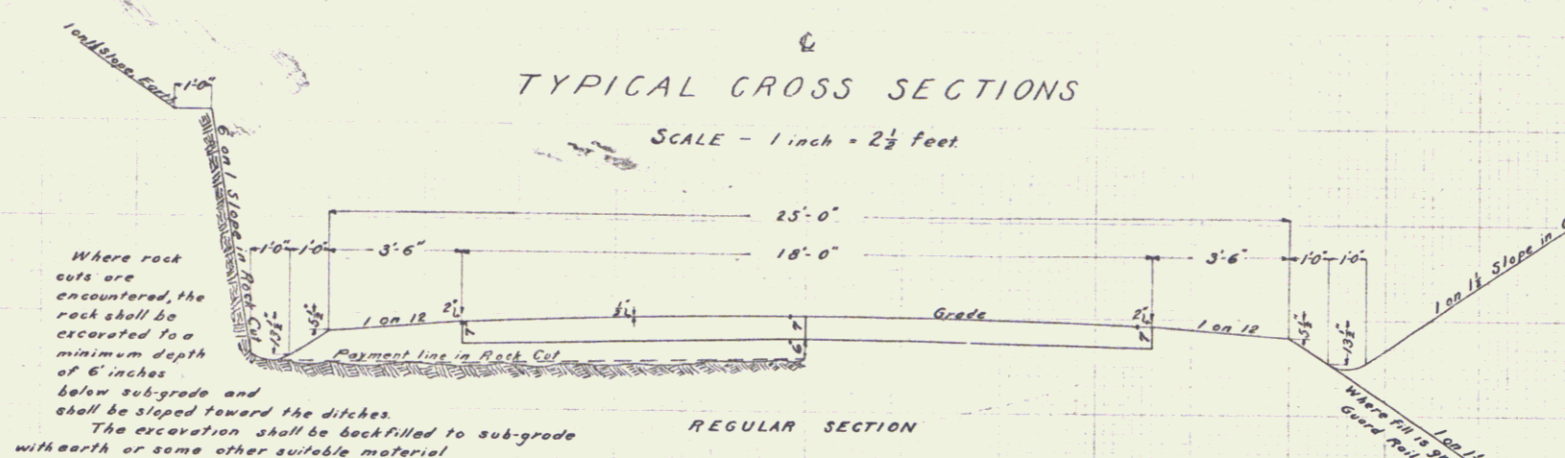
Sta. 2+00.2 to Sta. 4+42.5	Length	2423	NW
7+04.6 - 8+56.4		1518	NW
26+94.6 - 29+57.0		2629	Eq. of +2.5
35+94.8 - 38+58.8		2940	NW
43+27.8 - 45+00.0		1722	NW
45+00.0 - 48+47.3		3451	Eq. of -2.2
51+38.5 - 55+51.1		3500	Eq. of -2.6
58+04.1 - 65+35.1		7910	NW
72+60.0 - 79+50.0		6920	NW
79+50.0 - 82+44.3		2943	WO
103+00.0 - 107+47.9		4473	NW
114+27.6 - 115+65.0		1374	WO
TOTAL		41533.71	

CURVE SECTION WITH SUB-BASE

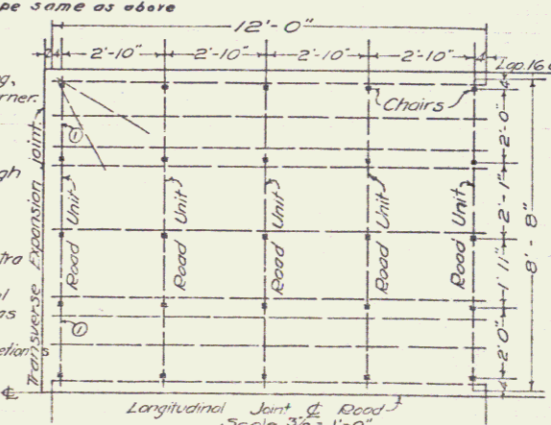
Sta. 35+42.0 to Sta. 38+69.9	Length	3273	N
98+69.3 - 101+21.3		232	
101+21.3 - 103+00.0		178.7	NW
117+02.7 - 118+69.9		147.2	
TOTAL		3222.6	

TOTAL FOR PROJECT 12337.71

NW = Not Widened
WO = Widened outside



On widened curves place longitudinal joint in center of pavement, and place mat on outside, with an extra longitudinal bar 4" from the center joint. In other cases of widening, place longitudinal joint on survey line and place reinforcement as specified above. Bars shall be wired or clipped at all intersections.



All bars 3/8 round. Figure of 3 mats per slab. Weight = 74.9 lbs./100 sqft, exclusive of chairs. Weight = 84.2 lbs./100 sqft. with dowels. This unit used only in first mat in each slab. Chairs to support and space transverse bars. To be attached by manufacturer. Designed by P.M. Stevens. Checked by P.M.S. Traced by H.W. Nessett 3/25/23. Examined by P.M.S. 3/25/23. Series F. No. 2. Filed. Sheet 2 of 41.

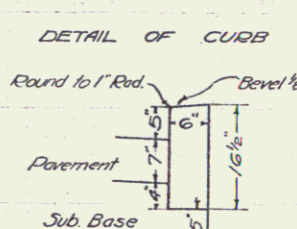
If gravel is encountered in excavation, the Contractor shall, if required by the Engineer, use it in building shoulders at such places as the Engineer shall direct. If the haul exceeds 1500 feet, the Contractor shall be entitled to overhaul for excavation.

APPROXIMATE SUMMARY OF QUANTITIES

EARTH EXCAVATION	14,835 cu yd
ROCK	892
SHORING	350
SUB-BASE OF GRAVEL	878
ONE COURSE REINFORCED CEMENT CONCRETE	4,881
PAVEMENT WITH STEEL ENDS	27.4
CONCRETE CLASS A (1-2-2)	37.7
CONCRETE CLASS B (1-2-3)	493
REINFORCED STEEL	4,880
WOODEN GUARD RAIL	.40
15" CONCRETE PIPE CULVERTS	32.6
18"	2.8
12" CORR. IRON PIPE	2.8
RELAYING PIPE CULVERTS	60

EXTRA QUANTITIES TO BE USED IF NECESSARY

EARTH EXCAVATION	500 cu yd
ROCK	150
SUB-BASE OF GRAVEL	200
CONCRETE CLASS A (1-2-3)	15.0
CONCRETE CLASS B (1-2-3)	25.0
STANDARD UNDERDRAIN	300



Where sub base is used carry base out under curb. Curbing shall be poured in place in sections 6' long.

GUARD RAIL REQUIRED ON RIGHT

Sta 0+52	To	1+08	56 ft	
-	4+63	-	4+87	24
-	9+95	-	10+19	24
Total This Sheet			104 ft	

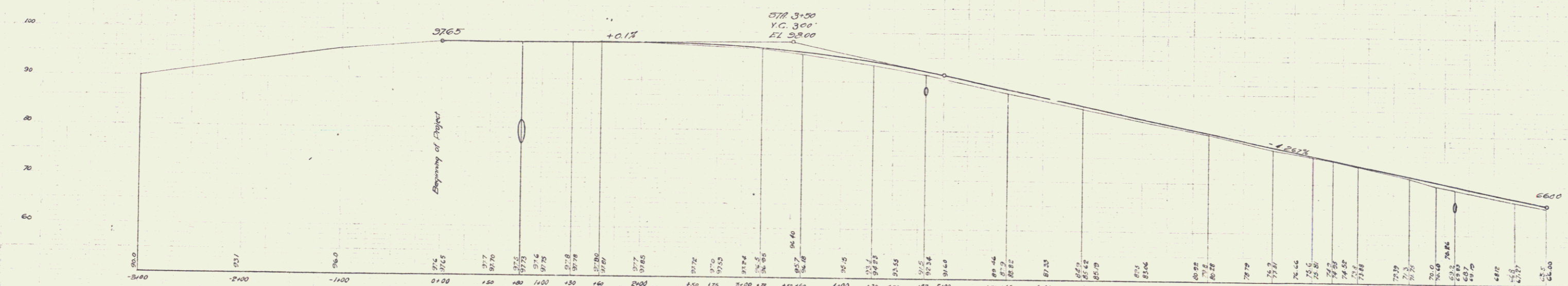
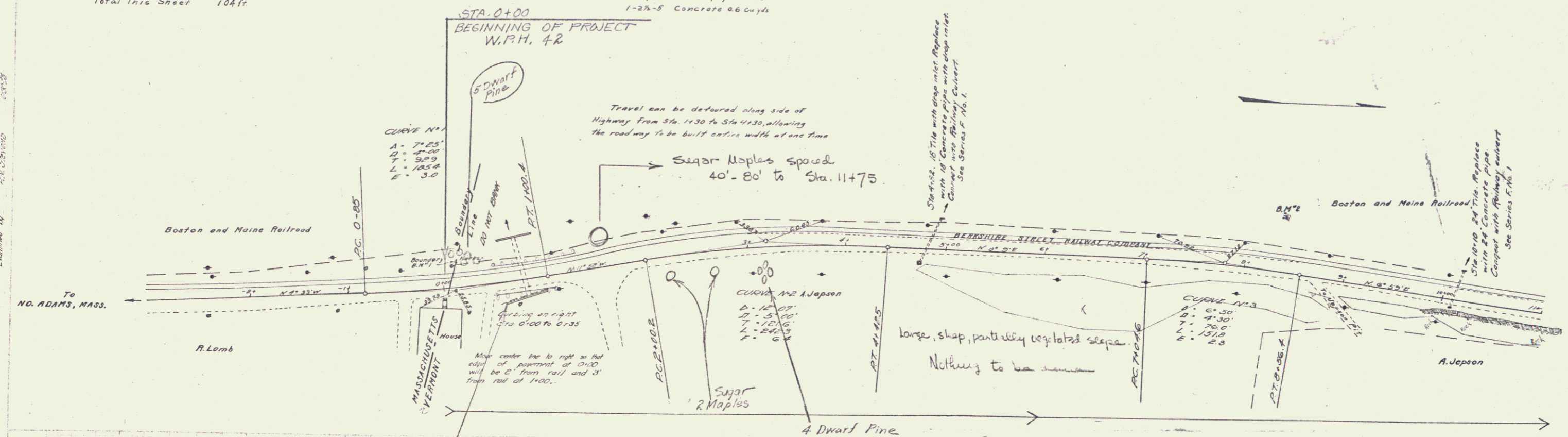
NEW CULVERTS REQUIRED

Sta 4+02	18" Concrete pipe 1130 ft
	1-2%+5 Concrete 13 cu yds
Sta 10+10	24" Concrete pipe 28 ft
	1-2%+5 Concrete 0.6 cu yds

CURBING REQUIRED ON RIGHT

Sta 0+00	To	Sta 0+35	1-2" Concrete	0.9 cu yds
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NO.	DATE	BY	SCALE	REVISION
1	11/23	RE	1" = 40'	

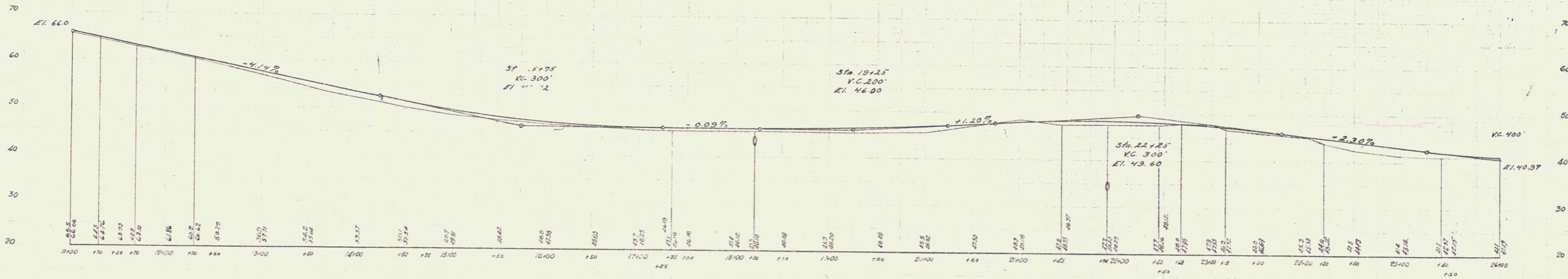
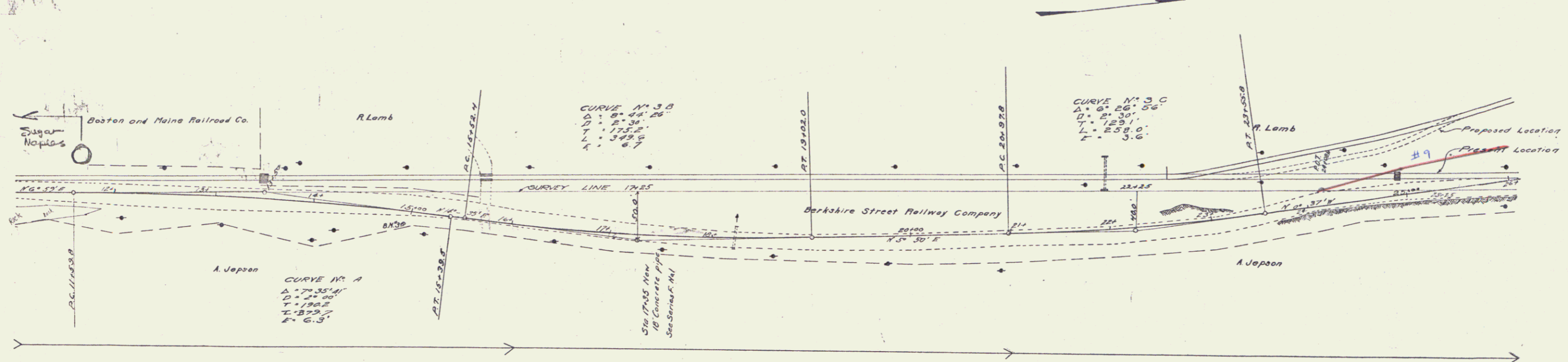


BM #1 Granite Boundary marker 29 feet on left Sta. 0+00 El. 100.0
 BM #2 Drill hole in boulder 56 feet on left Sta. 8+34 El. 67.50

GUARD RAIL REQUIRED
ON RIGHT
Sta. 17+23 to Sta. 17+47 24 ft
ON LEFT
Sta. 17+23 to Sta. 25+23 800'
TOTAL THIS SHEET 824 ft

NEW CULVERTS REQUIRED
Sta. 17+35 18" Concrete pipe 30 ft
1-28-5 Concrete 15 cu yds

PER. NO.	DATE	BY	CHKD.	SCALE	SHEET NO.	TOTAL SHEETS
9	FT.	1-23	MEY	1"	1	1



BM #3 30' Oak 23 Feet on right Sta. 14+59 El. 52.12

Series F No. 12
Sheet 4 of 4

GUARD RAIL REQUIRED

ON RIGHT

Sta 26+67 to Sta 26+91	24 ft
27+78 - 29+94	24 "
33+94 - 33+68	24 "
35+80 - 40+04	24 "

ON LEFT

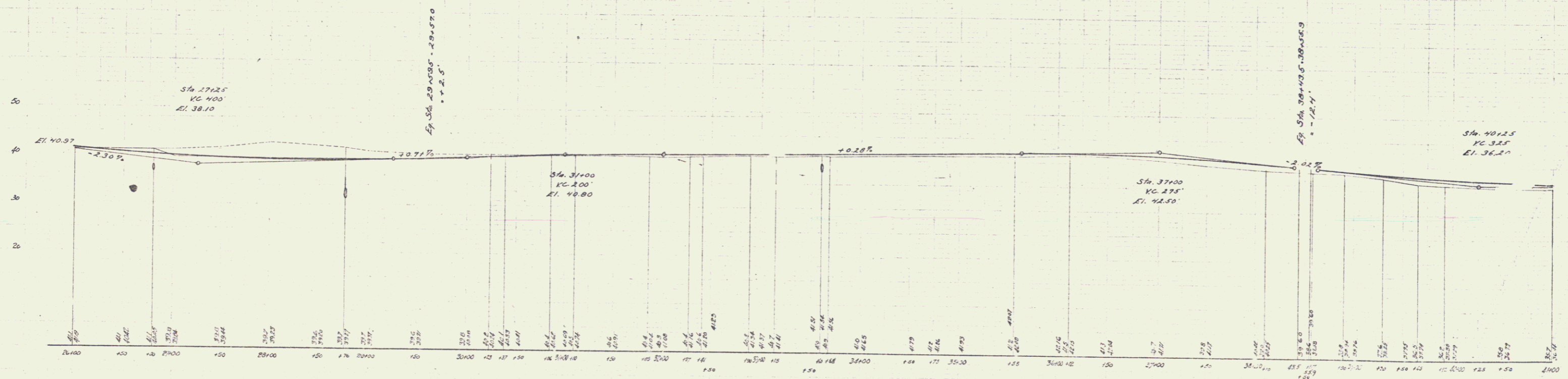
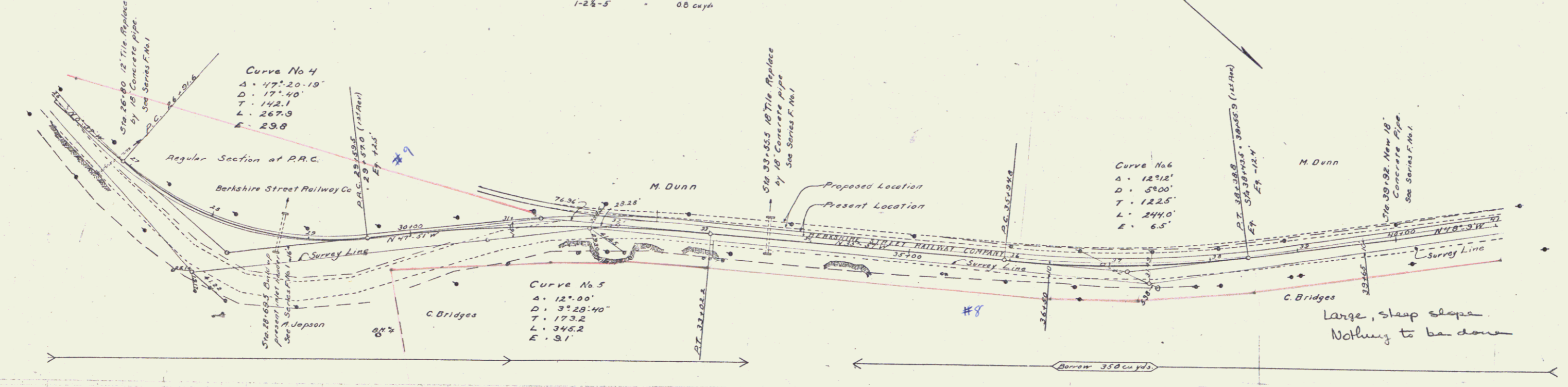
Sta 26+20 to Sta 30+52	432 ft
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TOTAL THIS SHEET 720 ft

NEW CULVERTS REQUIRED

Sta 26+00	18" Concrete pipe 32ft
1-24-5	Concrete 15cu yd
28+69.51-24-5	0.5 "
33+53.5	18" pipe 48ft
1-24-5	0.8 cu yd
39+92	18" pipe 44ft
1-24-5	0.8 cu yd

Project	State	Scale	Year	Sheet	Of
9	Vt.	1" = 20'	1917	5	11



BM #2. Notch in 1 1/2 inch elm tree feet on right Sta 29+68 El. 46.91

Series F. No. 112
Sheet 5 of 11

5

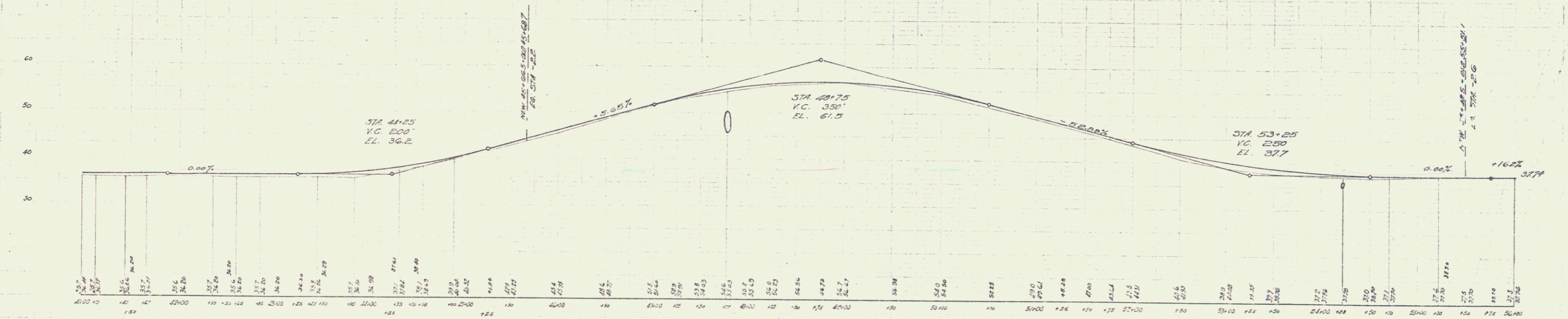
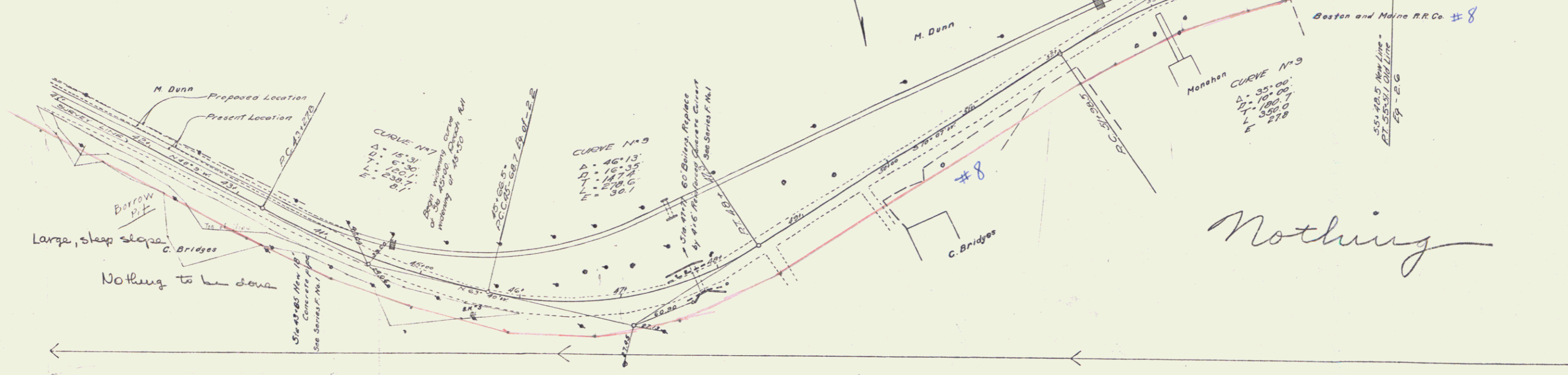
GUARD RAIL REQUIRED

ON RIGHT	
Sta 43+73 to Sta 43+97	24 ft
47+37 - 47+97	40 -
54+11 - 54+35	24 -
ON LEFT	
Sta 44+58 to Sta 52+98	840 -
54+11 - 54+35	24 -
Total this sheet	952 -

NEW CULVERTS REQUIRED

Sta 43+05	18" Concrete pipe	40 ft
1-28-5	Concrete	1.5 cu yd
47+77	4'x6' Reinforced concrete	
1-2-4	Concrete	100 cu yd
1-28-5	Steel	270 -
54+23	18" Concrete pipe	20 ft
1-23-5	Concrete	0.8 cu yd

DATE	SCALE	SHEET	TOTAL SHEETS
9/17/22	1" = 100'	6	41



Series F. No. 11
Sheet 6 of 41
6

GUARD RAIL REQUIRED
 On Right
 Sta 61+90 to Sta 62+14 24 ft
 66+36 - 66+60 24 -
 Total this sheet 48 -

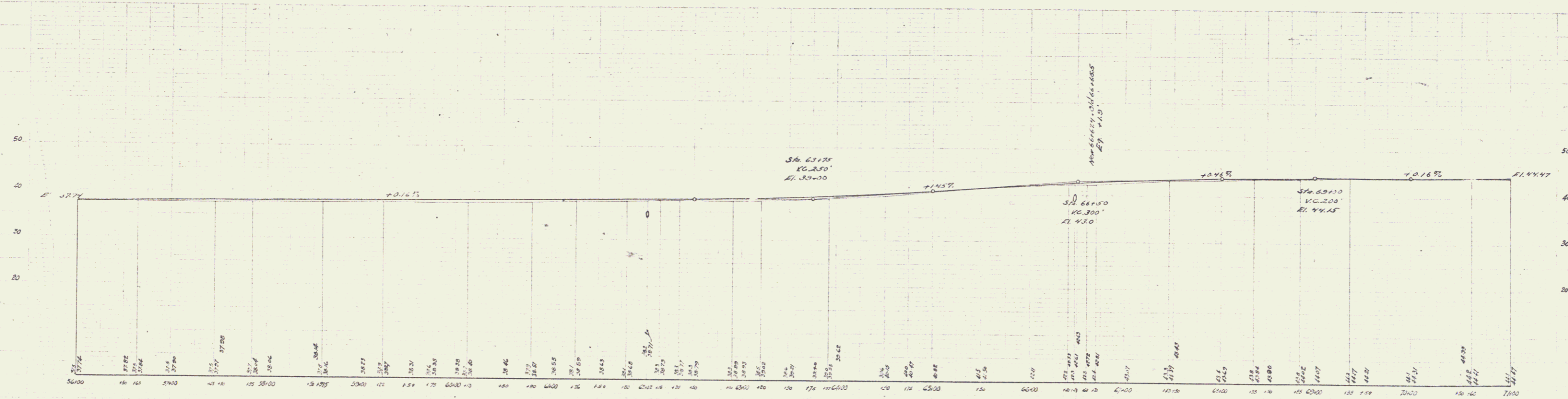
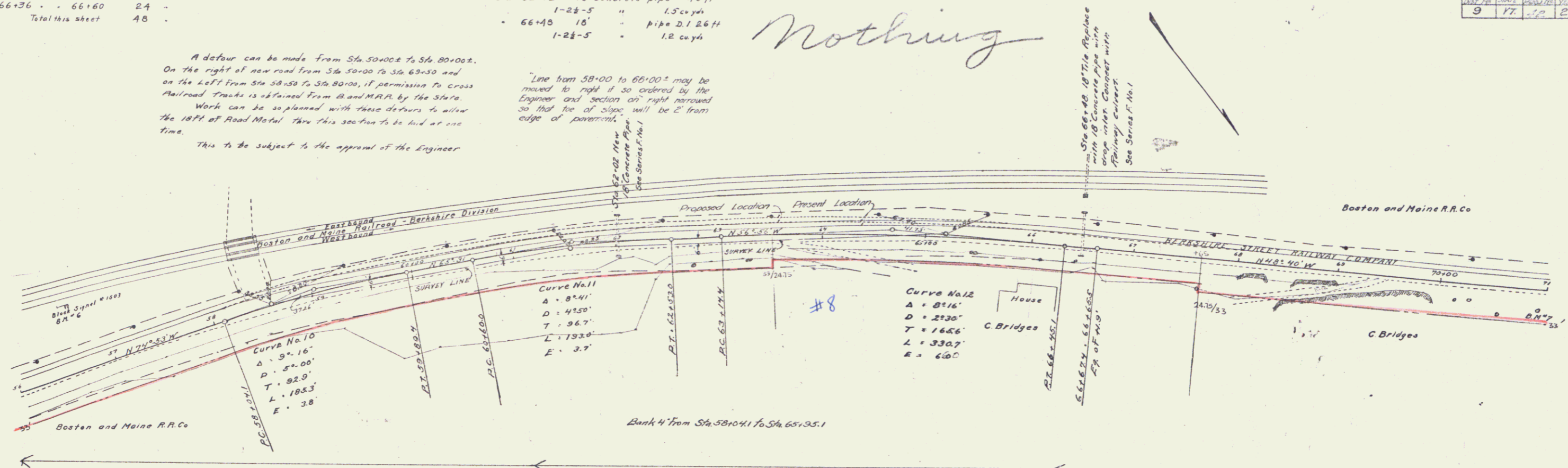
NEW CULVERTS REQUIRED
 Sta 62+02 16" Concrete pipe 40 ft
 1-28-5 " 1.5 cu yd
 66+40 16" " pipe D.I. 26 ft
 1-28-5 " 1.8 cu yd

Nothing

NO. OF SHEETS	DATE	BY	SCALE	DATE	BY
9	17	J.P.	22	7	41

A detour can be made from Sta. 50+00 to Sta. 60+00.
 On the right of new road from Sta. 50+00 to Sta. 63+50 and
 on the left from Sta. 58+50 to Sta. 60+00, if permission to cross
 Railroad tracks is obtained from B. and M.R.R. by the State.
 Work can be so planned with these detours to allow
 the 18 ft. of Road Metal. Turn this section to be laid at one
 time.
 This to be subject to the approval of the Engineer

Line from 58+00 to 66+00 may be
 moved to right if so ordered by the
 Engineer and section on right narrowed
 so that toe of slope will be 2' from
 edge of pavement.



B.M. #6 H.E. center foundation of block signal #1503 sixty-seven feet on left Sta 56+62 El. 36.62
 B.M. #7 notch in 18 inch elm 12.5 feet on right Sta 70+93 El. 46.08

Series C No. 15
 Sheet 7 of 11

GUARD RAIL REQUIRED

ON RIGHT		
Sta 72+53	To Sta 72+77	24 ft
Sta 84+60	To Sta 84+92	24 ft
ON LEFT		
Sta 84+60	To Sta 84+92	24 ft
Total this sheet 72 ft		

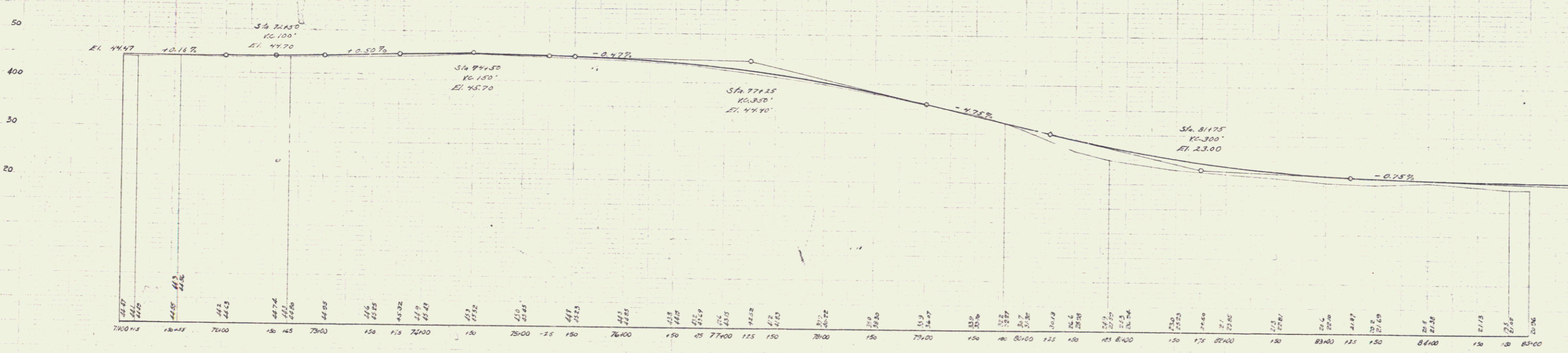
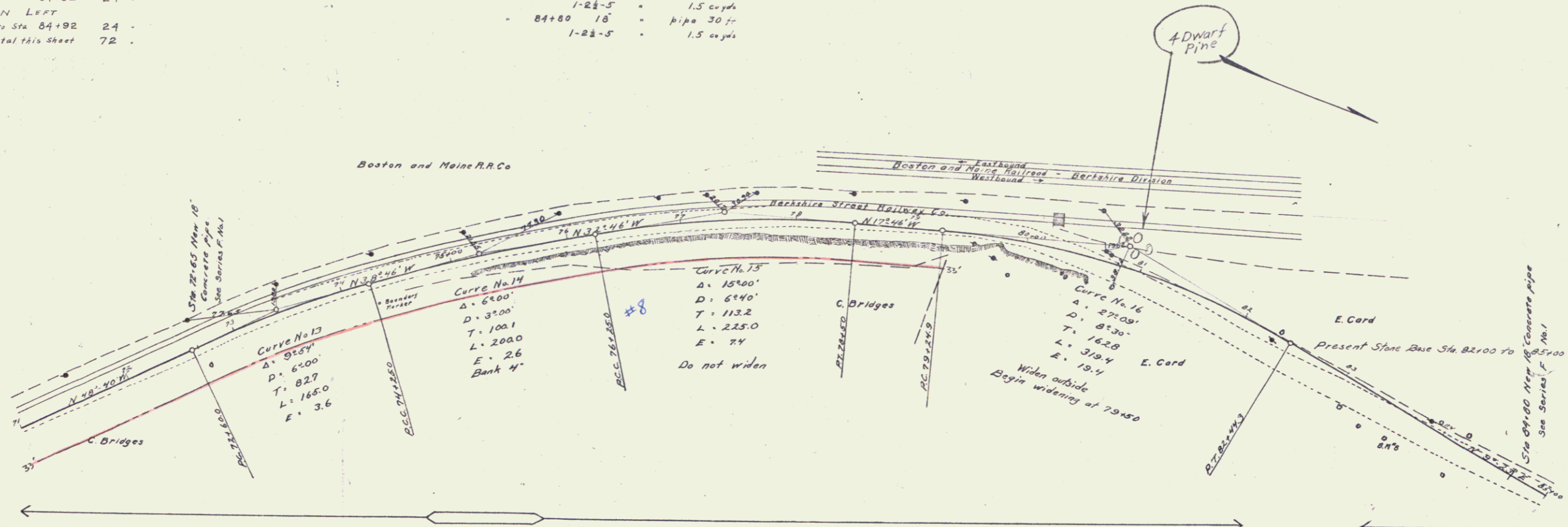
NEW CULVERTS REQUIRED

Sta 72+65	18" Concrete pipe	48 ft
1-24-5	"	1.5 cu yds
Sta 84+80	18" pipe	30 ft
1-24-5	"	1.5 cu yds

FOOTING	DATE	BY	SCALE	NO.	REV.	DATE	BY
9	11	11	22	0	1		

Nothing

Prepared by
 Checked by
 Examined by



GUARD RAIL REQUIRED

ON RIGHT	
Sta 87+63 to Sta 87+87	24 ft
• 92+38 • 92+62	24 •
• 93+10 • 93+64	24 •
ON LEFT	
Sta 86+60 to Sta 88+76	216 ft
• 91+30 • 93+78	148 •
Total this sheet	736 •

SUB BASE REQUIRED
Sta 93+30 to Sta 98+00 Length 470 ft

NEW CULVERTS REQUIRED

Sta 87+75	15' Concrete pipe 34 ft
1-28-5	1.5 cu yd
98+50	18' pipe 34 ft
1-28-5	1.5 cu yd
95+41	3x3 Reinforced Concrete
1-2-4	Concrete 101 cu yd
1-28-5	163
	Steel 223 #

CURBING REQUIRED ON RIGHT
Sta 94+85 to Sta 95+30
12-4 Concrete 11 cu yd

Nothing

9	17								
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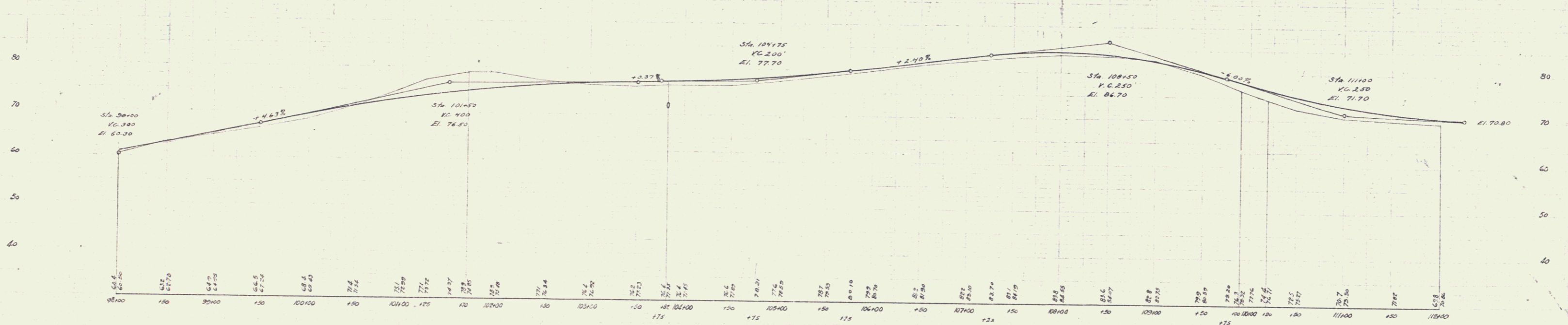
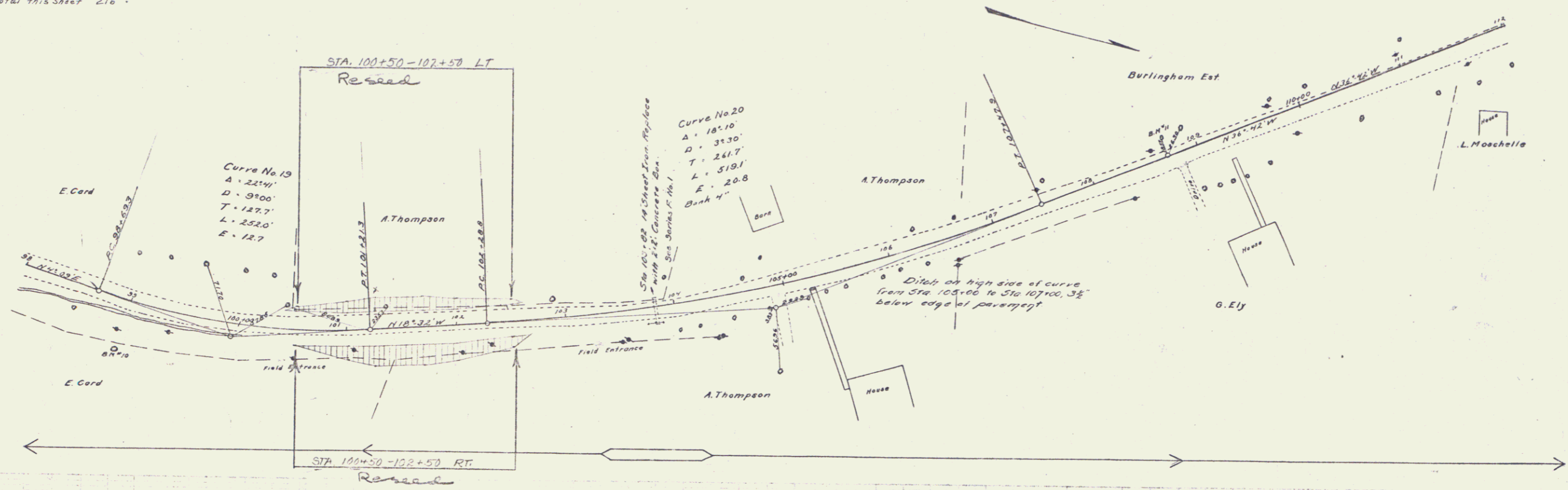
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GUARD RAIL REQUIRED
 ON RIGHT Sta 103+70 to Sta 103+94 24 ft
 ON LEFT Sta 103+22 to Sta 103+94 72 ft
 110+35 " 111+55 120 "
 Total this sheet 216 "

SUB BASE REQUIRED
 Sta 98+100 to Sta 103+00 Length 500 ft

NEW CULVERTS REQUIRED
 Sta 103+82 2x2 Concrete
 1-2-4 " 53 cu ft
 1-2-5 " 8.0 "

NO.	DATE	BY	CHKD.	APP.	REVISION
1	7-22-10	J. J. [unclear]	[unclear]	[unclear]	[unclear]



B.M. #10 high in 40 inch elm 48 feet on right Sta. 98+00 El. 70.84
 B.M. #11 high in 30 inch elm 16 feet on left Sta. 108+20 El. 84.20

Series 10 of 11
 Sheet 10 of 11

