

INDEX OF SHEETS

SHEET NO.	TITLE PAGE
1	TITLE PAGE
2	TYPICAL CROSS-SECTION OF IMPROVEMENT
3	PLAN AND PROFILE STA. 0+00 TO STA. 11+00
4	" " " " 11+00 " 26+00
5	" " " " 26+00 " 41+00
6	" " " " 41+00 " 56+00
7	" " " " 56+00 " 71+00
8	" " " " 71+00 " 85+00
9	" " " " 85+00 " 98+00
10	" " " " 98+00 " 112+00
11	" " " " 112+00 " 124+00
12 TO 41	CROSS SECTIONS

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

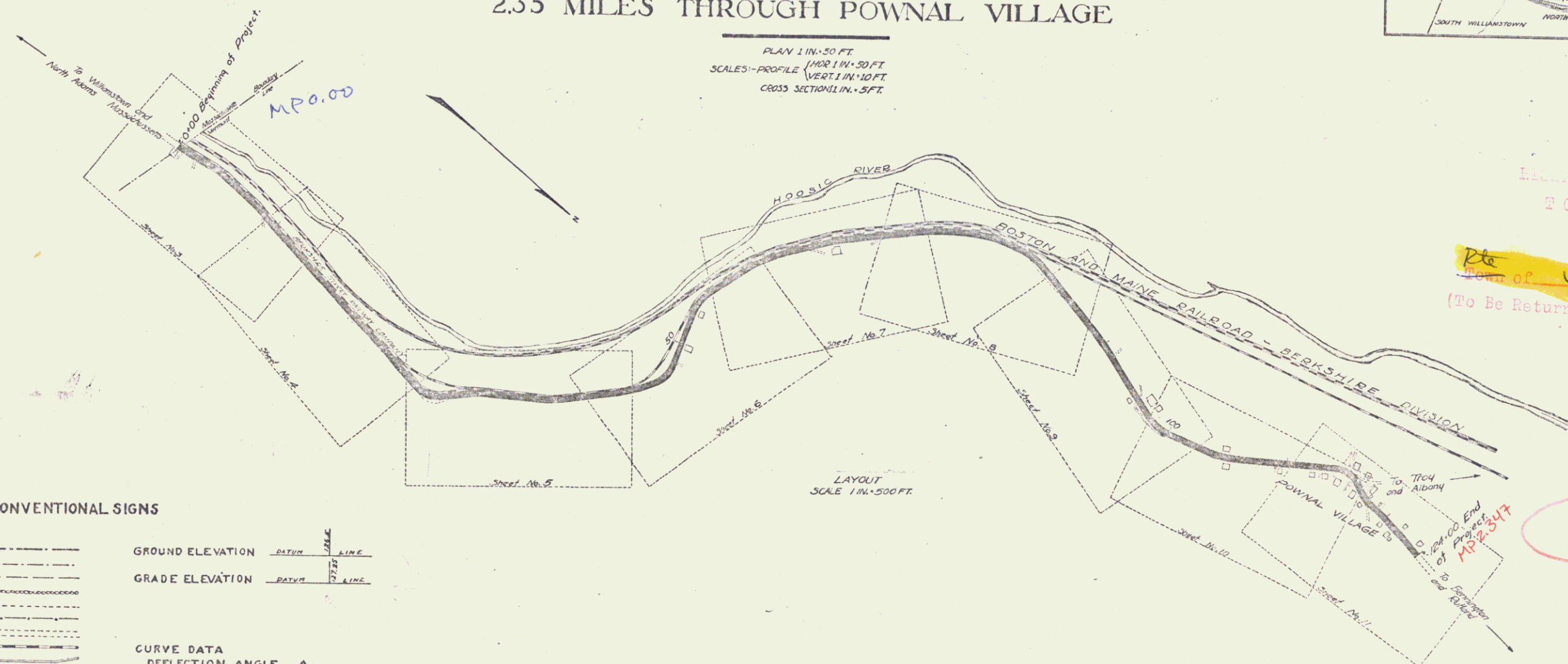
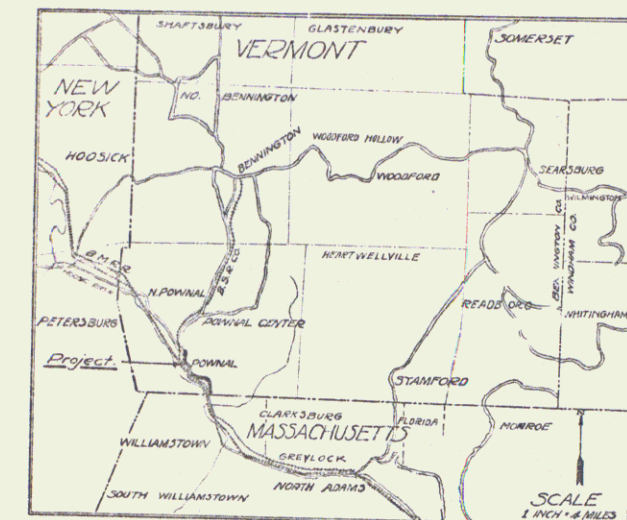
PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
FEDERAL AID PROJECT

TOWN OF POWNAL

Pin # 992522

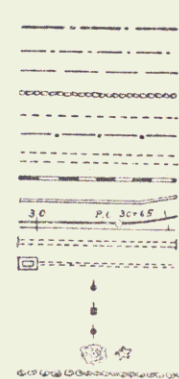
WILLIAMSTOWN - BENNINGTON ROAD
FROM MASSACHUSETTS STATE LINE NORTHERLY
2.35 MILES THROUGH POWNAL VILLAGE

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



CONVENTIONAL SIGNS

COUNTY LINE
TOWN LINE
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



GROUND ELEVATION - DATUM - LINE
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.

RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
Rte. 57
(To Be Returned To R.O.W. Division)

SUBMITTED BY OFFICE OF THE STATE HIGHWAY ENGINEER
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. 42
Sheet 1 of 1

Project No. F. 42

DIST. # 1 PLANS

TYPICAL CROSS SECTIONS

SCALE - 1 inch = 2 1/2 feet

REGULAR SECTION

Sta. 0+00 to Sta. 2+00.2 Length 200.2		
4+42.5 - 7+04.6	262.1	
8+36.4 - 26+31.6	835.2	
29+57.0 - 35+34.8	637.8	
38+38.5 - 43+27.8	476.6	Eq. 12.4
48+47.3 - 51+38.5	331.2	
55+51.1 - 58+04.1	253.0	
65+35.1 - 72+60.0	666.8	Eq. of 13
82+44.3 - 93+30.0	1065.7	
107+47.9 - 114+27.6	675.7	
115+65.0 - 116+30.0	83.0	
TOTAL	6533.5 ft	

REGULAR SECTION WITH SUB-BASE

Sta. 93+30.0 to Sta. 95+42.0 Length 212.0	
116+50.0 - 117+02.7	52.7
118+69.9 - 124+00.0	530.1
TOTAL	734 ft

CURVE SECTION

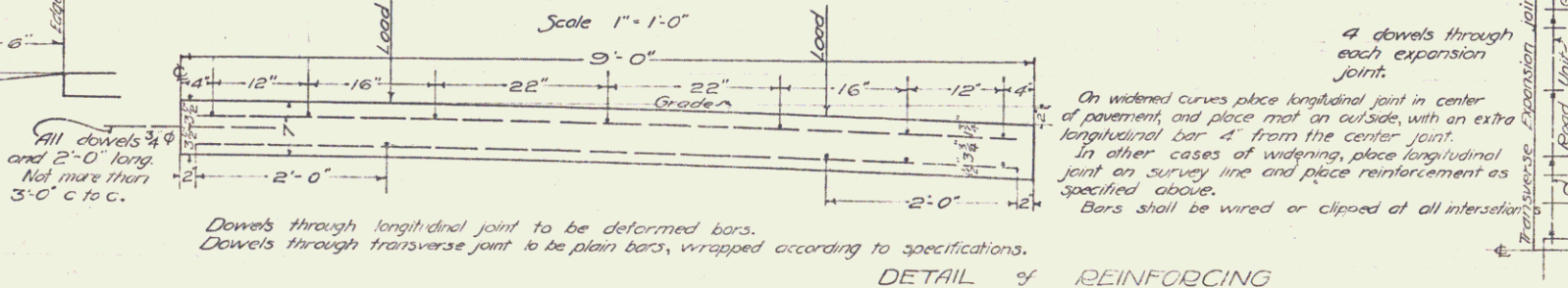
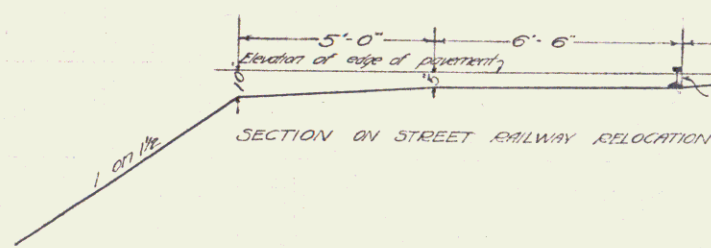
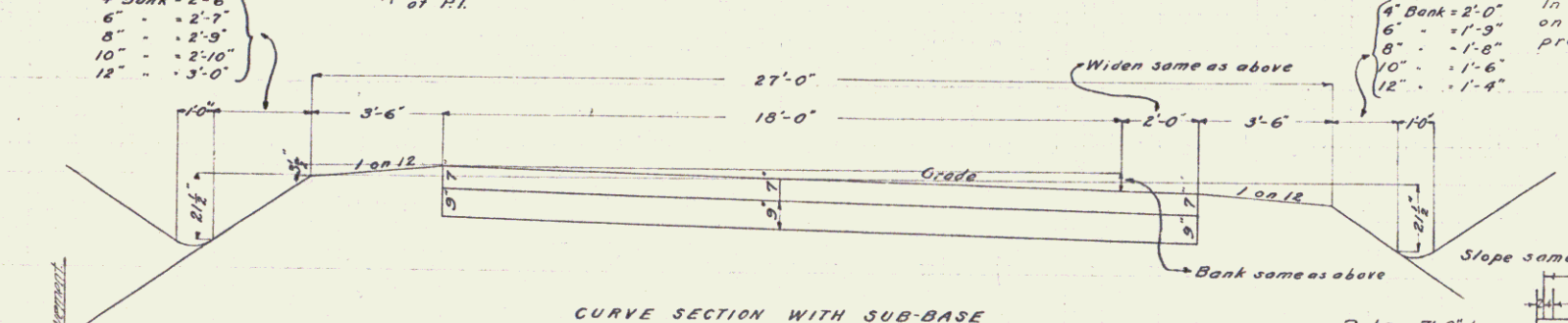
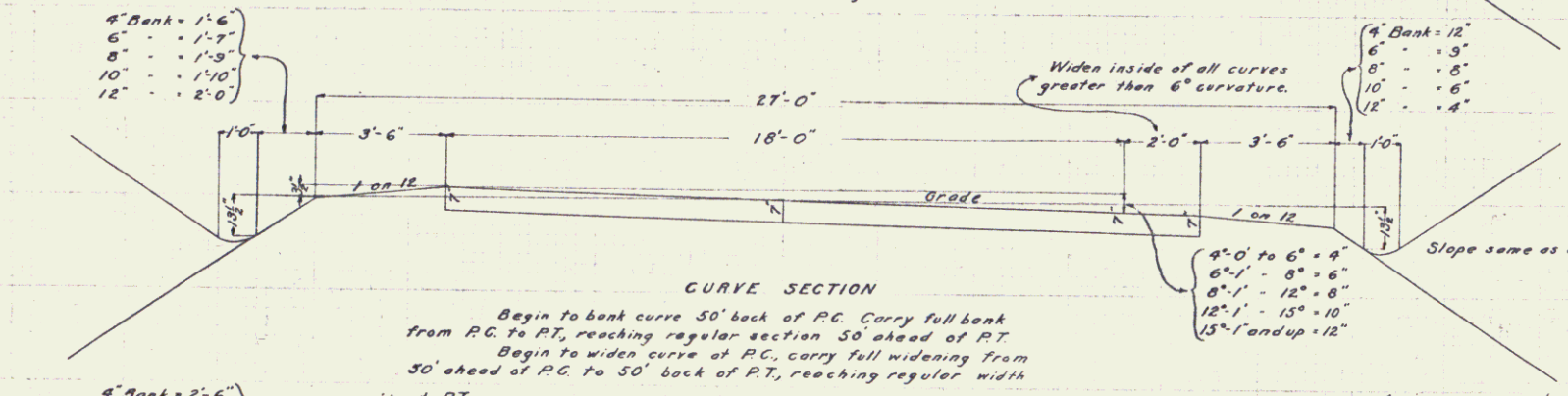
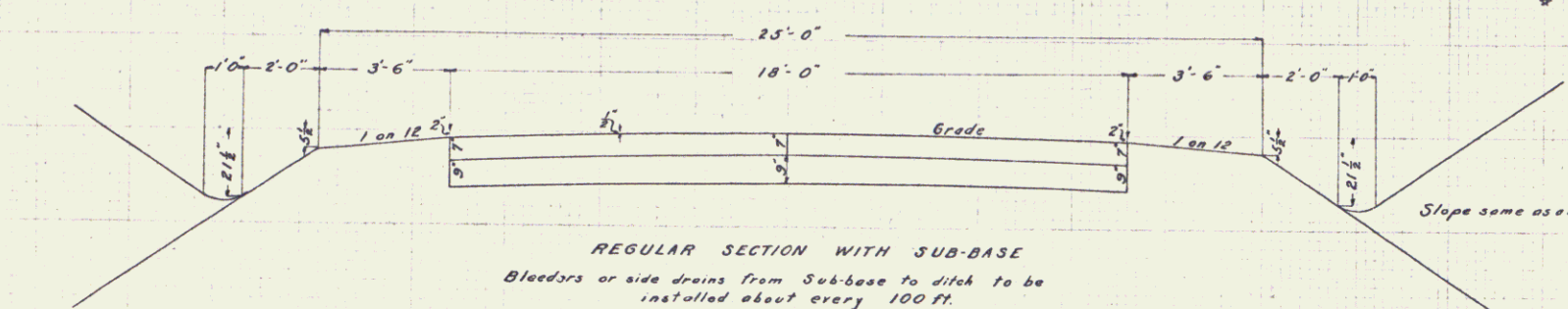
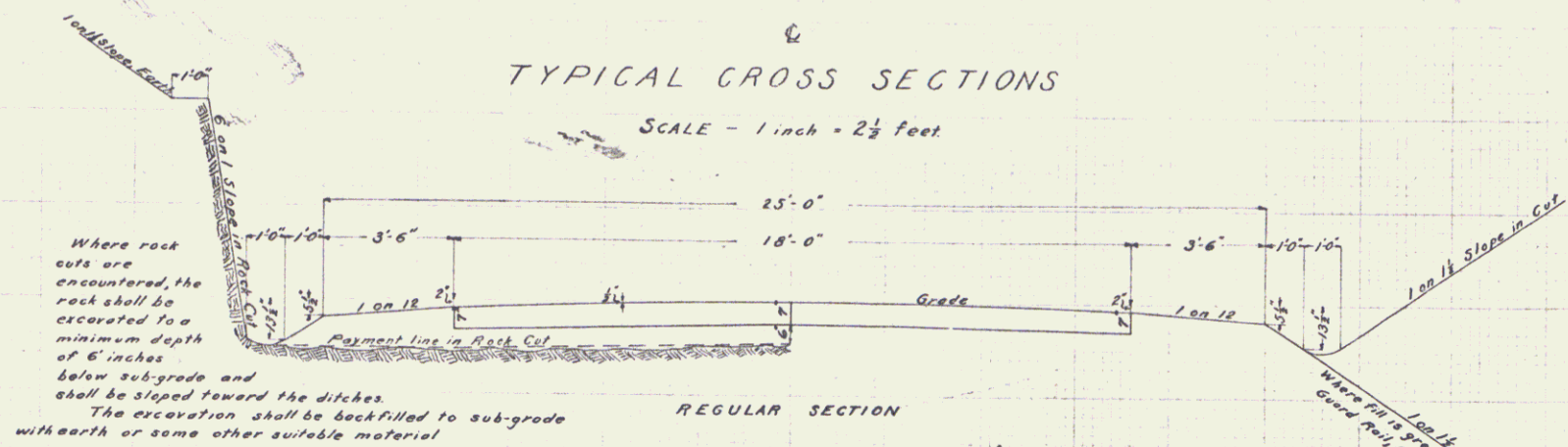
Sta. 2+00.2 to Sta. 4+42.5 Length 242.3 NW	
7+04.6 - 8+56.4	151.8 NW
26+91.6 - 29+57.0	262.9 Eq. of 12.5
35+29.8 - 38+58.8	244.0 NW
43+27.8 - 45+00.0	172.2 NW
45+00.0 - 48+47.3	345.1 Eq. of 22
51+38.5 - 55+51.1	350.0 Eq. of 26
58+04.1 - 65+35.1	791.0 NW
72+60.0 - 79+30.0	690.0 NW
79+30.0 - 82+44.3	294.3 W.O.
103+00.0 - 107+47.9	447.9 NW
114+27.6 - 115+65.0	137.4 W.O.
TOTAL	4153.9 ft

CURVE SECTION WITH SUB-BASE

Sta. 35+42.0 to Sta. 38+69.3 Length 327.3 N	
38+69.3 - 101+21.3	232.1
101+21.3 - 103+00.0	178.7 NW
117+02.7 - 118+69.9	167.2
TOTAL	325.2 ft

TOTAL FOR PROJECT 12387.7 ft

NW - Not Widened
W.O. - Widened outside



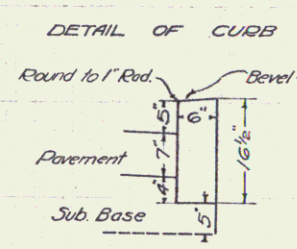
If gravel is encountered in excavation, the Contractor shall, if required by the Engineer, use it in building shoulders at such places as the Engineer shall direct. If the haul exceeds 1500 feet, the Contractor shall be entitled to overhaul for excavation.

APPROXIMATE SUMMARY OF QUANTITIES

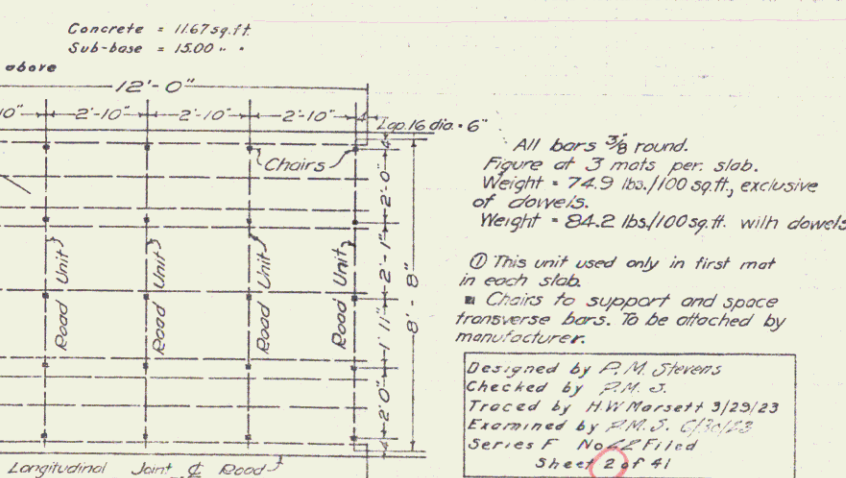
EARTH EXCAVATION	14,835 cu yd
ROCK	892 "
BOROUGH	350 "
SUB-BASE OF GRAVEL	878 "
ONE COURSE REINFORCED CEMENT CONCRETE	4,881 "
PAVEMENT WITH STEEL ENDS	27.4 "
CONCRETE CLASS A (1-2-2)	37.7 "
REINFORCED STEEL	493 lbs.
WOODEN GUARD RAIL	4,880 lin. ft.
15" CONCRETE PIPE CULVERTS	40 "
18" "	32.6 "
24" "	2.8 "
12" CORR. IRON PIPE	2.8 "
RELAYING PIPE CULVERTS	50 "

EXTRA QUANTITIES TO BE USED IF NECESSARY

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

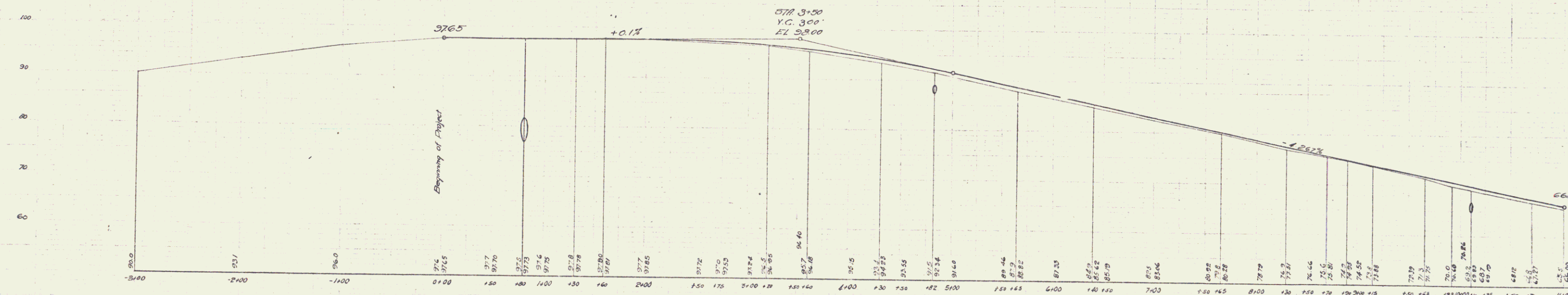


Where sub base is used carry base out under curb. Curbing shall be poured in place in sections 6' long.



Designed by R. M. Stevens
Checked by R. M. S.
Traced by H. W. Norsett 3/25/23
Examined by R. M. S. 3/25/23
Series F. No. 2. Filed
Sheet 2 of 41

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	22	22	3	41



BM #1 Granite Boundary marker 29 feet on left Sta. 0+03 El. 100.0
BM #2 Drill hole in boulder 56 feet on left Sta. 8+34 El. 67.90

Series F No. 4
Sheet 3 of 41

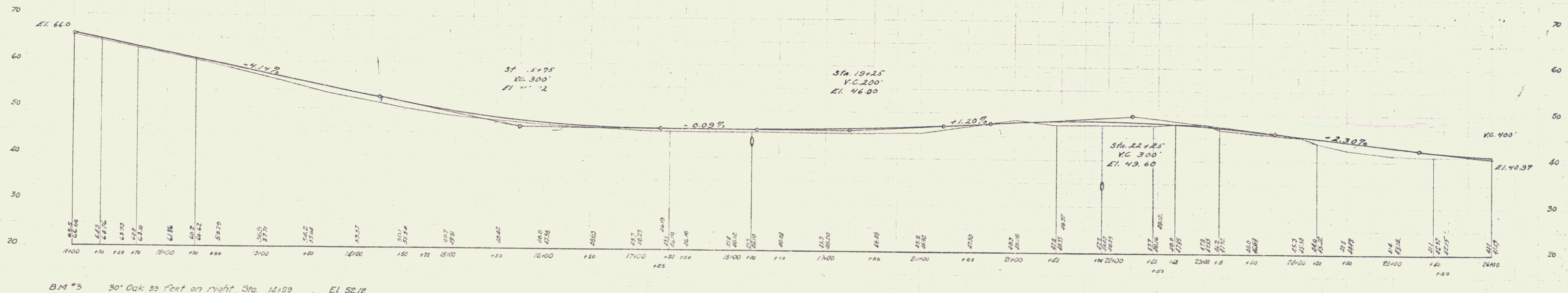
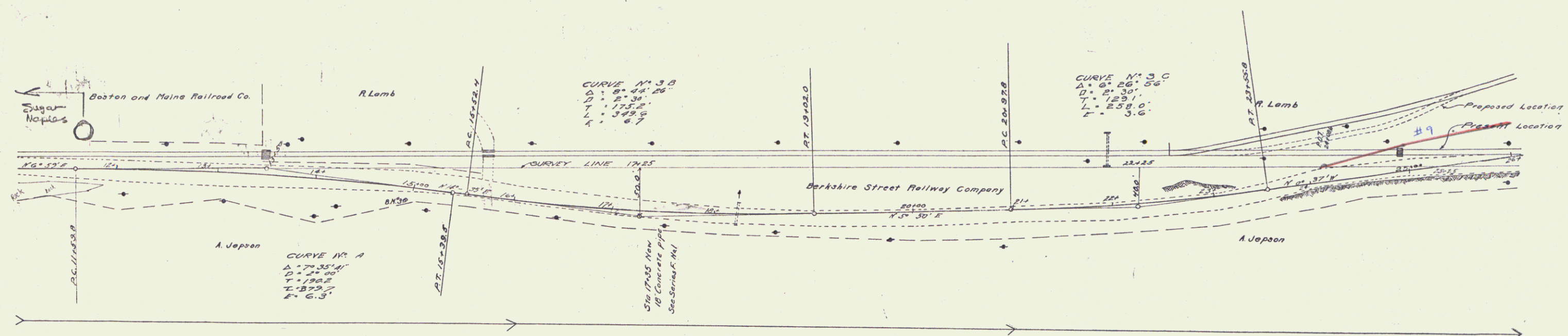
GUARD RAIL REQUIRED
ON RIGHT
Sta. 17+23 to Sta. 17+47 24 ft
ON LEFT
Sta. 17+23 to Sta. 25+23 800 ft
TOTAL THIS SHEET 824 ft

NEW CULVERTS REQUIRED
Sta. 17+35 18" Concrete pipe 30 ft
1-24-5 Concrete 15 cu yds

PER. NO.	DATE	BY	CHKD.	DATE	BY	CHKD.
9	KT	1-25	MEY	4	KT	

Checked
 Approved
 1/25/25
 1/25/25
 1/25/25

Checked
 Approved
 1/25/25
 1/25/25
 1/25/25



Series F No. 12
Sheet 4 of 4

NEW CULVERTS REQUIRED

Sta 26+80 18" Concrete pipe 32ft
1-2'-5" Concrete 15cuyds

28+69.51-21-5 " .05 "
" 33+53.5 18" " pipe 48 ft
1-2'-5" " .08 cuyds
" 39+92 18" " pipe 44 ft
1-2'-5" " .06 cuyds

FED. ROAD DIST. NO.	STATE	FED. AID PROGRAM	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	42	1962	5	41



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

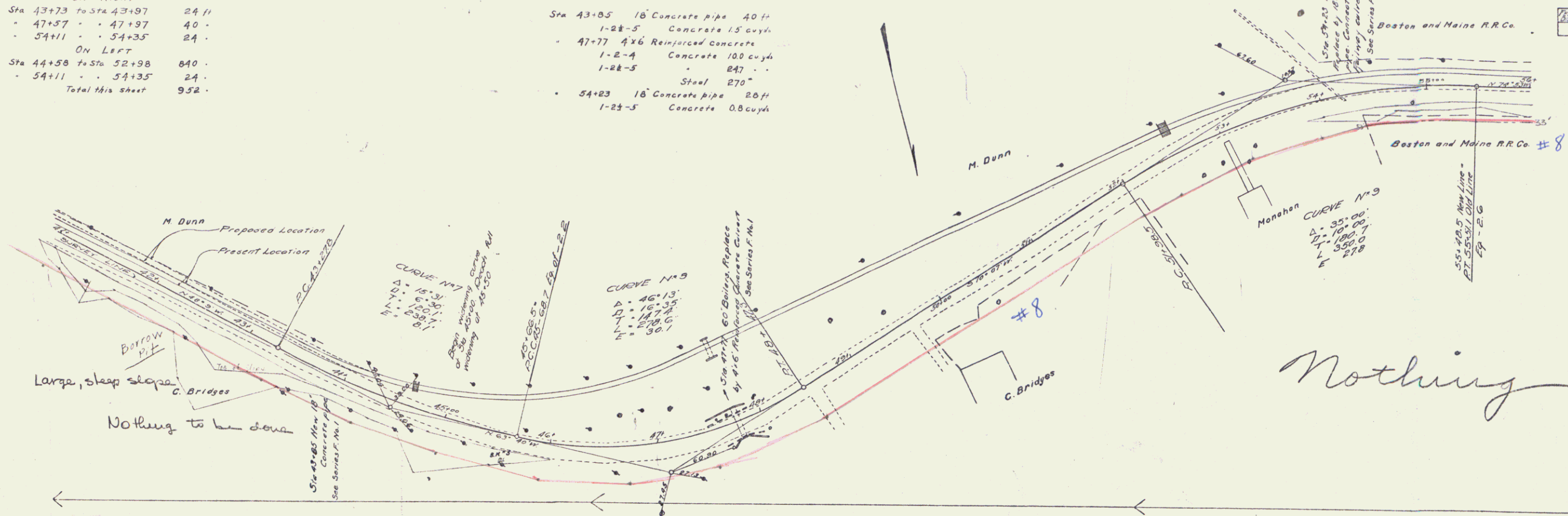
Sta 44+58 to Sta 52+98	840 "
54+11 " 54+35	24 "

Total this sheet 952 "

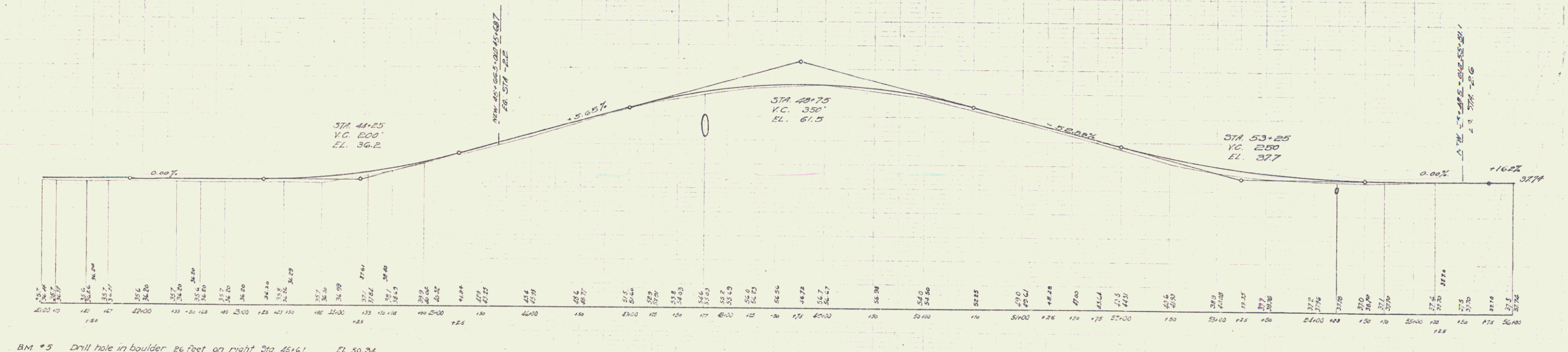
NEW CULVERTS REQUIRED

Sta 43+05	18" Concrete pipe	40 ft
47+77	4'x6' Reinforced concrete	100 cu yd
54+23	18" Concrete pipe	20 ft

DATE	1/27/22	SCALE	1" = 100'	SHEET	6	OF	41
------	---------	-------	-----------	-------	---	----	----



Nothing



Series F. No. 11
Sheet 6 of 41

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

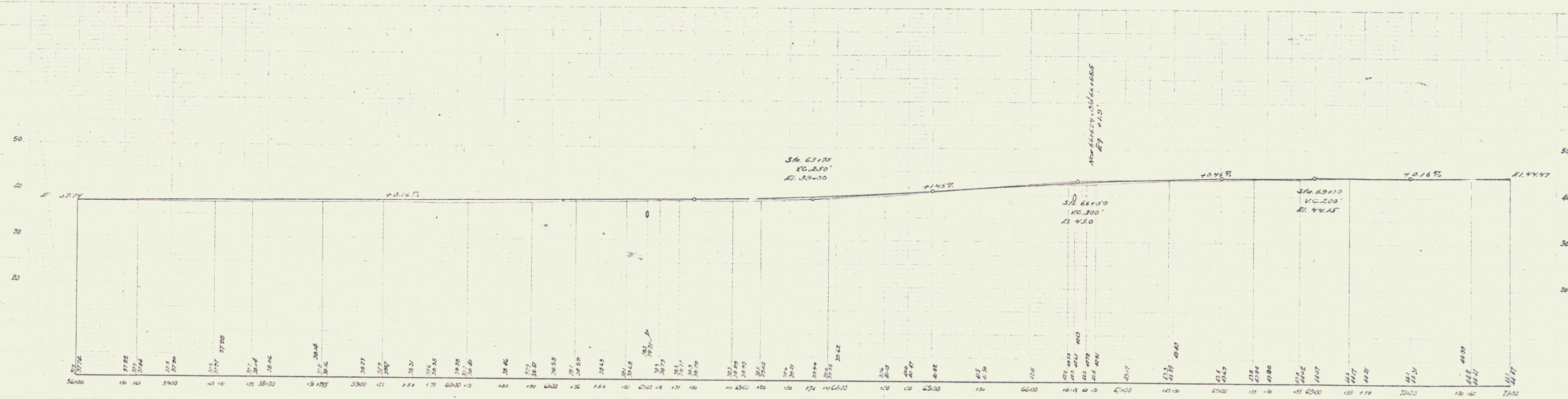
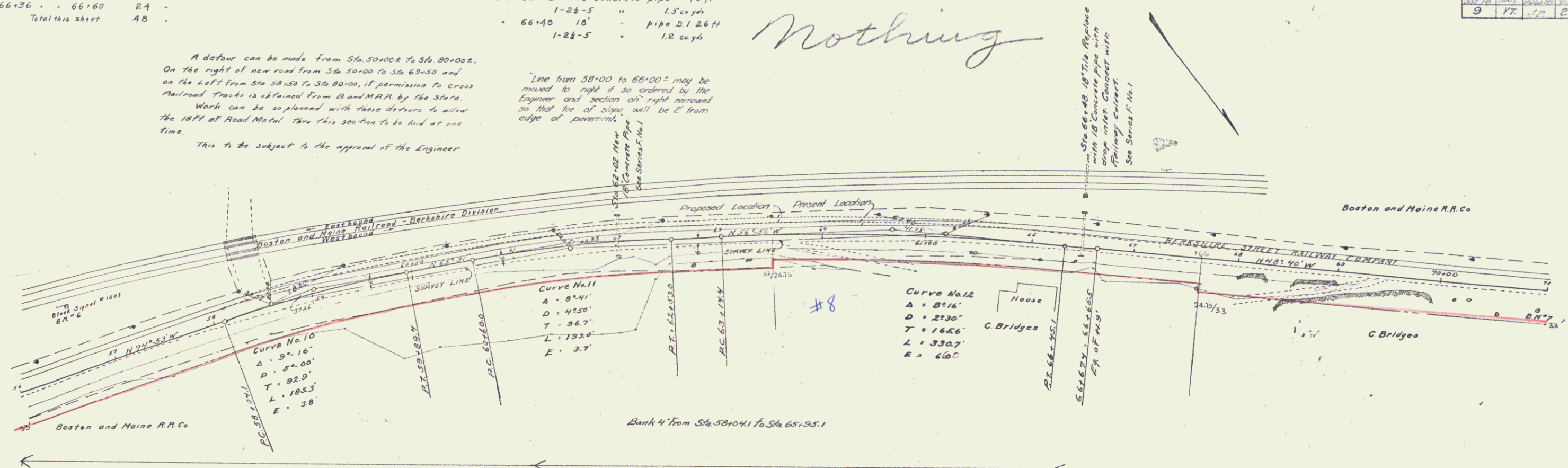
NEW CULVERTS REQUIRED
Sta 62+02 18" Concrete pipe 40 ft
1-24-5 " 1.5 cu yd
66+48 18" " pipe D.I. 26 ft
1-24-5 " 1.2 cu yd

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+30 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. This section to be laid at one
time.
This is 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.

Nothing

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



BM #6 H.E. cer foundation of black signal #1503 sixtyseven feet on left Sta 50+62 El. 36.62
BM #7 notch in 18 inch elm 12.5 feet on right Sta 70+93 El. 46.08

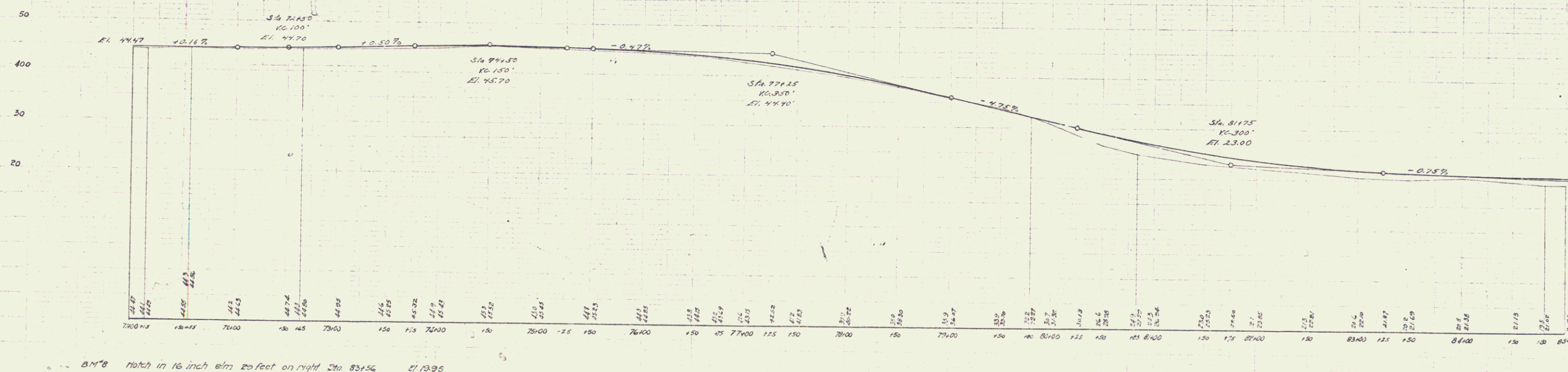
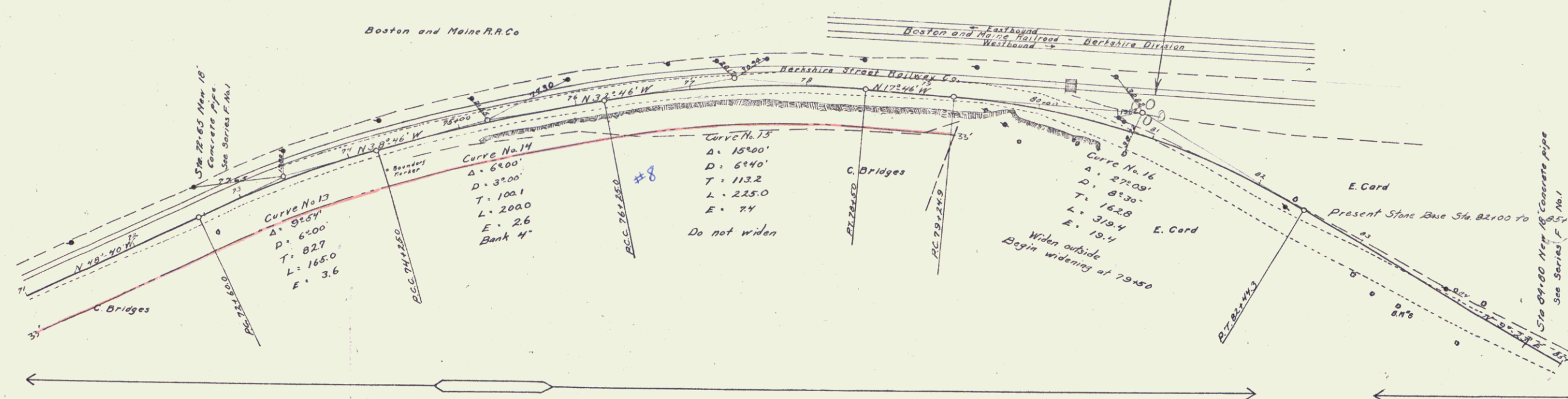
Series F No. 11
Sheet 7 of 11

NEW CULVERTS REQUIRED

Sta 72+65	18" Concrete pipe	48 ft
	1-2 1/2 - 5	" 1.5 cu yds
" 84+80	18"	" pipe 30 ft
	1-2 1/2 - 5	" 1.5 cu yds

FED ROAD DIST NO.	STATE	FED AID PROGRAM	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	42	22	6	4

Rothman



Series F No 4
Sheet 8 of 41

GUARD RAIL REQUIRED

ON RIGHT	
Sta 87+63 to Sta 87+87	24 ft
• 92+38 • • 92+62	24 •
• 93+40 • • 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 18" Concrete pipe 34 ft
1-28-5 1.5 cu yd
92+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 #

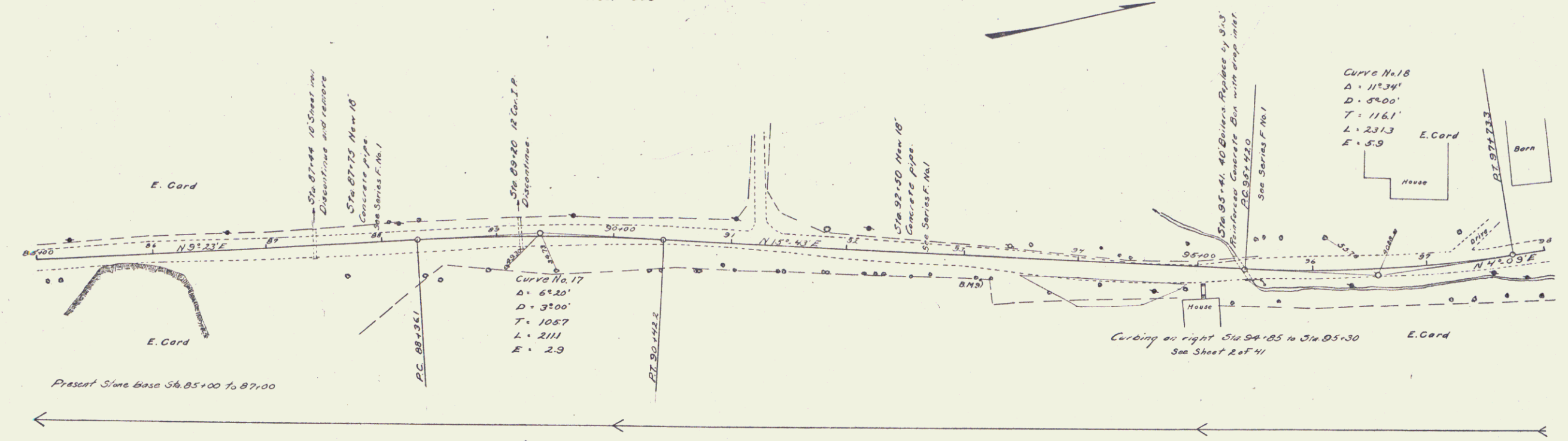
CURBING REQUIRED

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

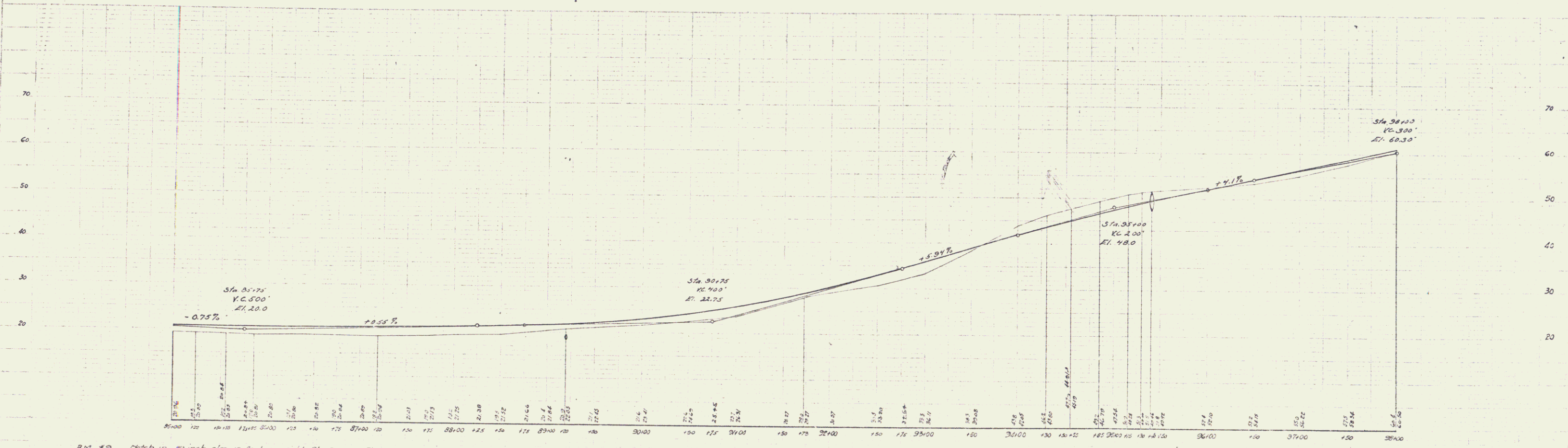
Nothing

PROJECT	DATE	BY	CHECKED	APPROVED
9	17			

ENGINEER: [Signature]
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]



ENGINEER: [Signature]
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]



BM +3 notch in 12 inch elm 19 feet on right Sta 93+11 El. 36.53

Series F No. 12
Sheet 9 of 11

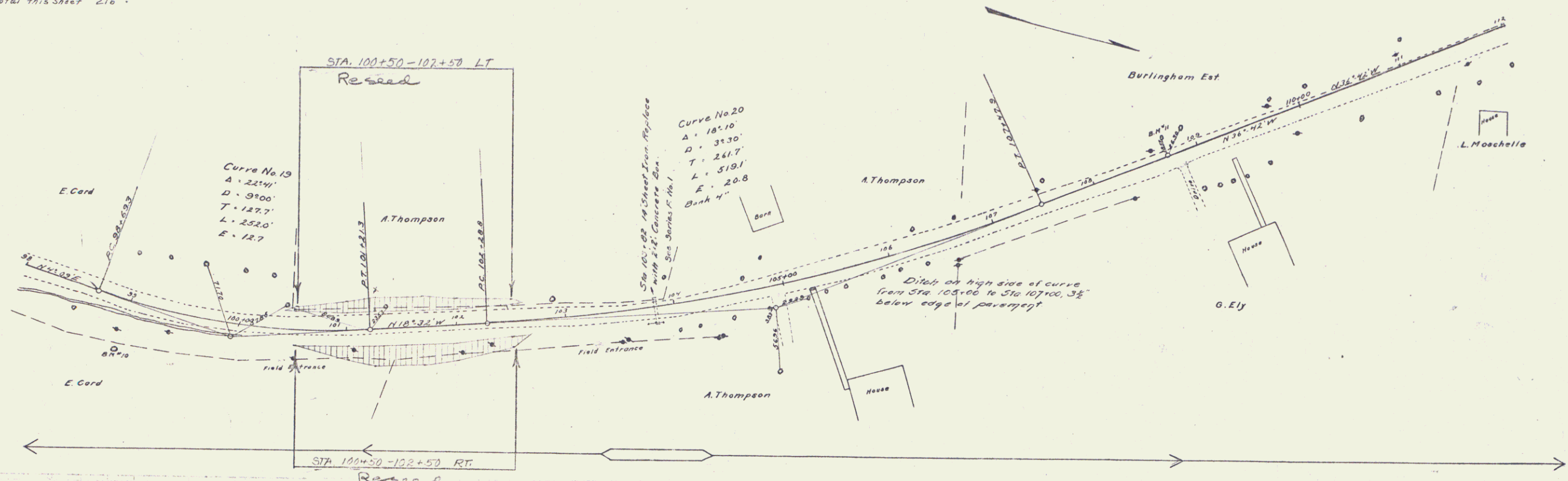
GUARD RAIL REQUIRED
 ON RIGHT
 Sta 103+70 to Sta 103+94 24 ft
 ON LEFT
 Sta 103+22 to Sta 103+94 72 -
 110+35 - 111+55 120 -
 Total this sheet 216 -

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

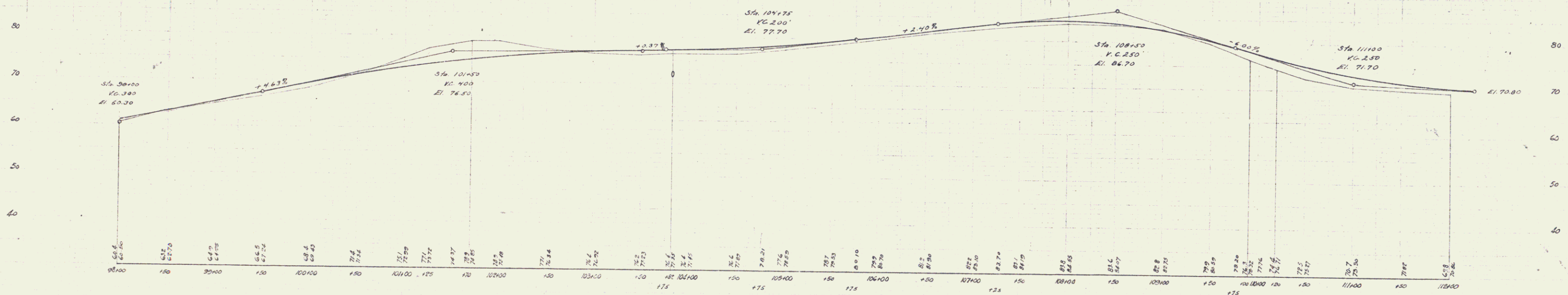
NEW CULVERTS REQUIRED
 Sta 103+82 2x2 Concrete
 1-2-A = 53 cu yd
 1-2-B = 8.0 -

DESIGNED BY	CHECKED BY	DATE	PROJECT	NO.	SHEET	OF
S	PT	10-25	1010	10	11	

Examined by
 10/25/10
 10/25/10
 10/25/10



Examined by
 10/25/10
 10/25/10
 10/25/10





Nothing

DATE	BY	CHKD	APPD	SCALE	NO.
9					