

INDEX OF SHEETS

SHEET NO.	TITLE PAGE
1	TITLE PAGE
2	TYPICAL CROSS-SECTION OF IMPROVEMENT
3	DETAILS OF CONSTRUCTION
4	PLAN AND PROFILE SHEETS STA. 10+00 - 10+13.2
18	STANDARD STRUCTURE SHEET 3-20 PIPE CULVERTS
19	STANDARD STRUCTURE SHEET 3-21 BOX CULVERTS
20	STANDARD STRUCTURE SHEET 3-22 GUARD RAIL ETC.
21	STANDARD CULVERT SHEET 5-C-1 CULVERTS OVER 5 FT SPAN
22	BRIDGE - STA. 10+15 - 10' X 20' REINF. CONCRETE BOX CULVERT
23	CROSS SECTION SHEETS

FED. ROAD DIST. NO.	STATE	CLASS.	PLAN SHEET NO.	PROFILE SHEET NO.
9	VT.	102-C	1	1

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

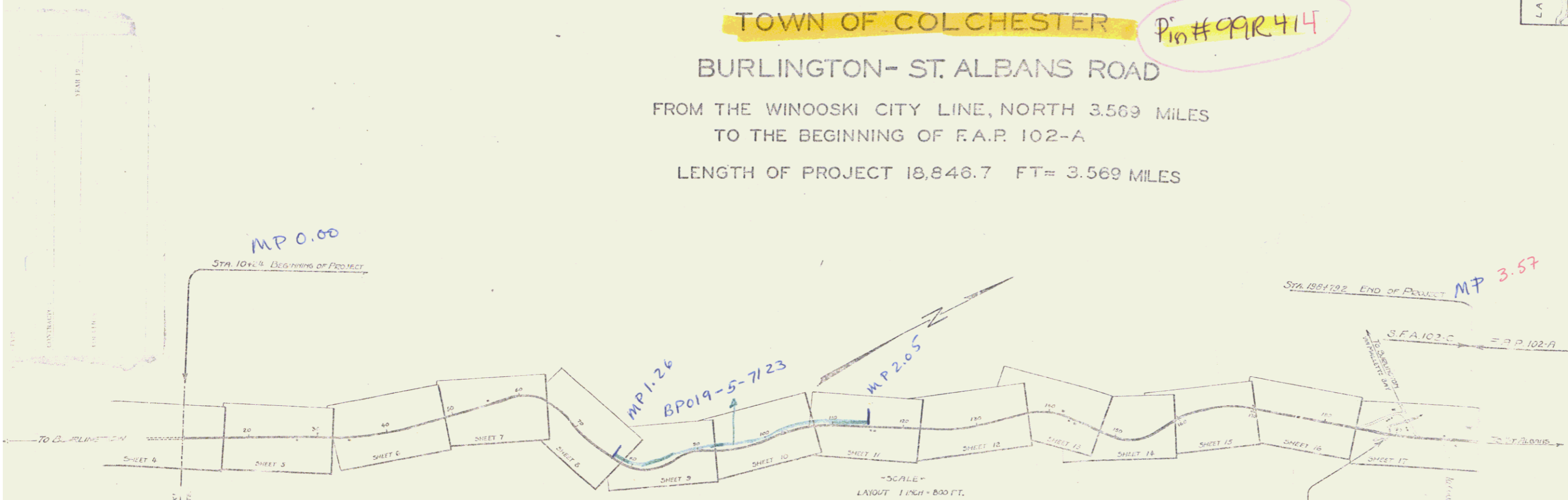
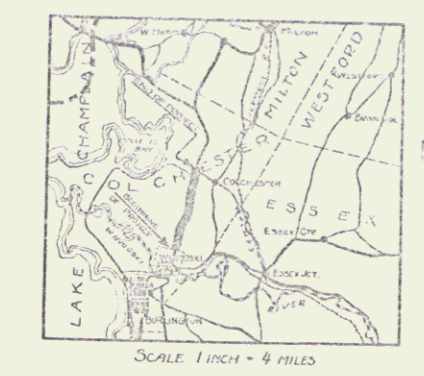
PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
STATE FEDERAL AID PROJECT

TOWN OF COLCHESTER **Pin # 99R414**

BURLINGTON-ST. ALBANS ROAD

FROM THE WINOOSKI CITY LINE, NORTH 3.569 MILES
TO THE BEGINNING OF F.A.P. 102-A

LENGTH OF PROJECT 18,846.7 FT = 3.569 MILES



CONVENTIONAL SIGNS

COUNTY LINE	GROUND ELEVATION
TOWN LINE	GRADE ELEVATION
FENCE LINE	
STONE WALL	
UNFENCED PROPERTY	
GUARD RAIL	
TRAVELED WAY	
RAILROAD	
RETRAILING WAY	
CENTER LINE	
SURVEY LINE	
CHIMNEY	
POLE	
POWER POLE	
TELEPHONE POLE	
TREE	
REDGE	

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
PLAN 1 INCH = 50 FT
PROFILE HORIZ 1 INCH = 50 FT
VERT 1 INCH = 10 FT
CROSS SECTIONS 1 INCH = 5 FT

STA. 10+37.5
CONSTRUCT 10' X 20'
BOX CONCRETE BOX CULVERT
SEE SHEET 23 FOR
DETAILS OF CONSTRUCTION

APPROVED: JAN 21 1930
H. Jenkins
SUBMITTED BY ORDER OF THE STATE HIGHWAY DEPARTMENT

Project No. **ST. 102-C**

This project to be constructed in accordance with Standard Road and Bridge Specifications for 1930.
These plans are subject to such revisions as may be required by the Chief Engineer.

RECOMMENDED FOR APPROVAL
RECOMMENDED FOR APPROVAL
APPROVED

COMPLETED - JAN 21 1930
SERIES SFA No 102C FILED
SHEET 0 OF 43

STEARNS R. JENKINS

Rte 102-C

WOOD GUARD RAIL REQUIRED
CULVERT STATIONS

STATION	LEFT	RIGHT
17+22	24'	24'
25+80	24'	24'

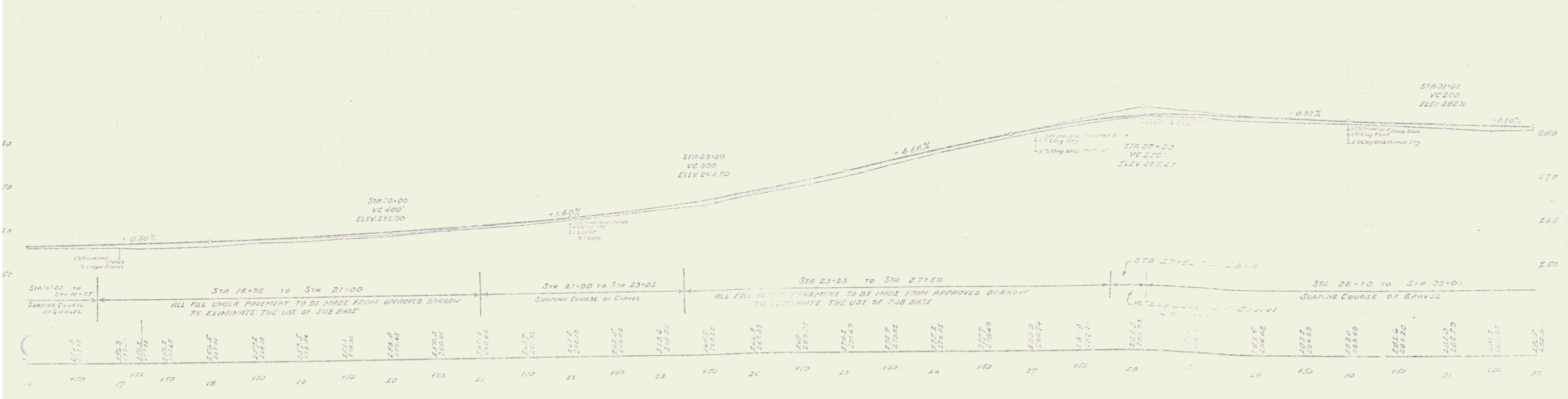
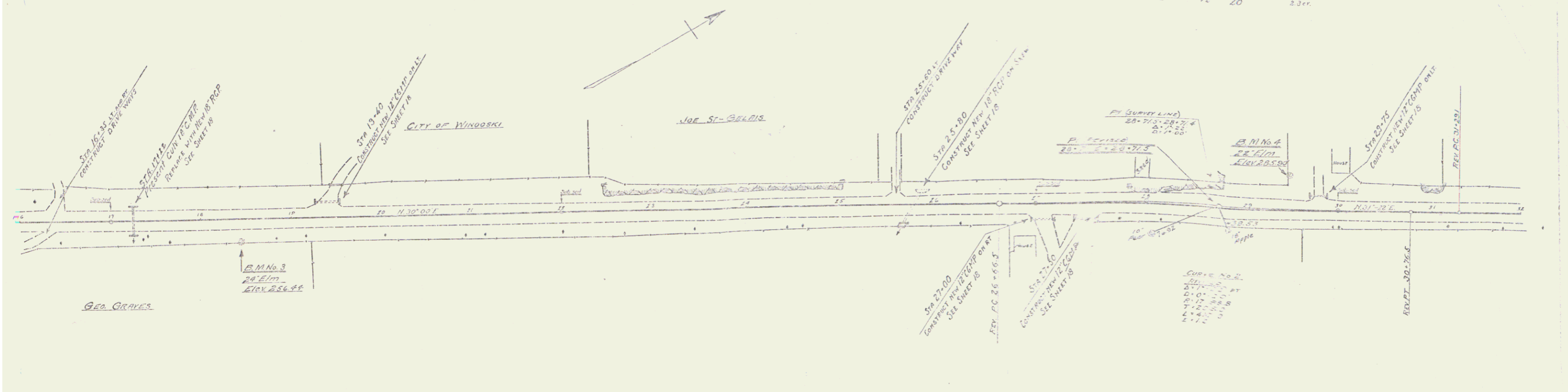
NEW FRAME CONCRETE PIPE CULVERTS REQUIRED

STATION	DIAM.	LENGTH	CONCRETE	STEEL
17+22	18"	36'	3.00	33 LBS
25+80	18"	40'	3.00	33 LBS

DRIVEWAY PIPE CULVERTS REQUIRED

STATION	L. OR R.	DIAM.	LENGTH	CURB	GEN'L. RUDLE MASSING
17+40	L	12"	26'	2.30	
17+50	R	12"	20'	2.30	
25+75	L	12"	20'	2.30	

S.F.A.
102-0 1750 4 28



B.M. No. 3 Spike in top of E.P.C.A. right Sta. 18+44, Elev 256.44
B.M. No. 4 2x Elm 39 ft left Sta. 29+45, Elev 265.90

Scale: 1" = 40'

WOOD GUARD RAIL REQUIRED

CULVERT STATIONS	LEFT	RIGHT
36+00	24	24
46+00	24	24

NEW REINFORCED CONCRETE PIPE CULVERTS REQUIRED

STATION	DIAM.	LINE	CONC. FT.	CONC. IN.	REIN. STEEL
36+00	18"	36	3.0	0.0	33 LB.
46+00	15"	36	2.0	0.0	33 LB.

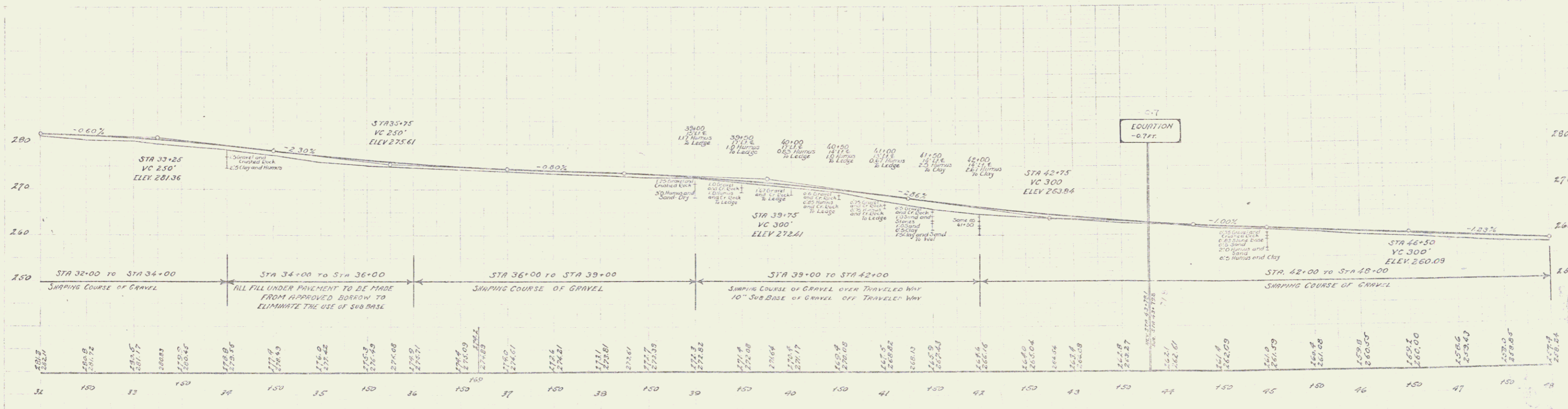
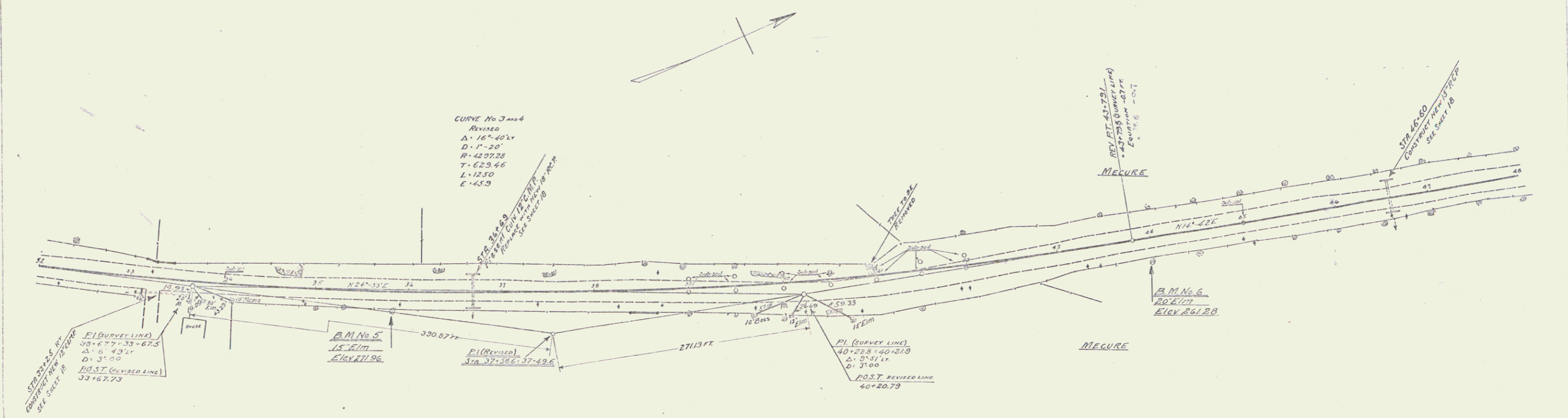
DRIVE WAY PIPE CULVERTS REQUIRED

STATION	DIAM.	LINE	LENGTH	CEMENT	PIPE	MATERIAL
38+25	R	12"	30'	2.3	0.0	2.3 CY

STATE	YEAR	SHEET NO.	TOTAL SHEETS
182-C	1939	6	8

1928
 1929
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 1939



B.M. No. 5 Spike in 15' Elm, 18' right of Sta. 35+00, Elev. 271.96
 B.M. No. 6 " 20' Elm, 24' right of Sta. 43+30, Elev. 261.28

SERIES F.V.D. 102C
 SHEET 6 OF 40

WOOD GUARD RAIL REQUIRED

STATION	LEFT	RIGHT
54+57	1	24

CABLE GUARD RAIL REQUIRED

STATION	LEFT	RIGHT
53+72 to 54+25	1	1

NEW REIN. CONCRETE PIPE CULVERTS REQUIRED

STATION	LENGTH	CONC. REIN. STEEL	D.I. CURVE
54+57	16'	32 FT 1.5 CY	15 G
53+00	18'	40 FT 2.2 CY	126 LBS

DRIVEWAY PIPE CULVERTS REQUIRED

STATION	LENGTH	D.I.	CONC. PUBL. MASONRY
54+25	2	16" x 24"	2.7 CY

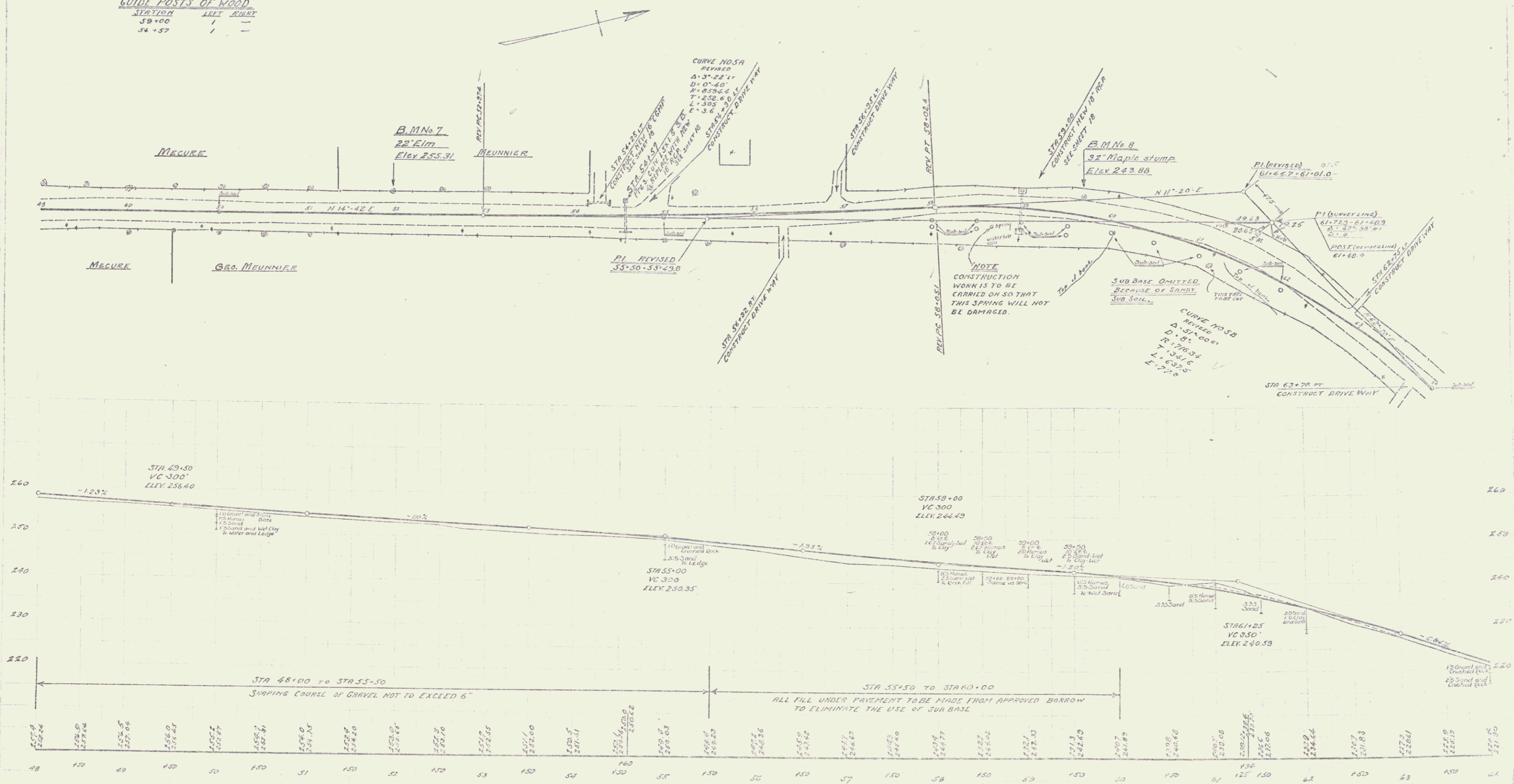
GUIDE POSTS OF WOOD

STATION	LEFT	RIGHT
53+00	1	1
54+57	1	1

S.F.A. 1024
1024
1024

1024
1024
1024

1024
1024
1024



B.M. No. 7, Spike in 22' Elm, 25 ft left of Sta 51+07, Elev. 255.31
 B.M. No. 8 - 32' Maple stump, 19 ft left of Sta 59+64, Elev. 243.88

SERIES 5-A-N-133C
 SHEET 7 OF 40

5

WOOD GUARD RAIL REQUIRED

STATIONS	LEFT	RIGHT
66+38	24'	24'
70+09	24'	—

CABLE GUARD RAIL REQUIRED

STATIONS	LEFT	RIGHT
68+73-75+21	—	64B
77+25-78+00	—	75

NEW REINFORCED CONCRETE PIPE CULVERTS REQUIRED

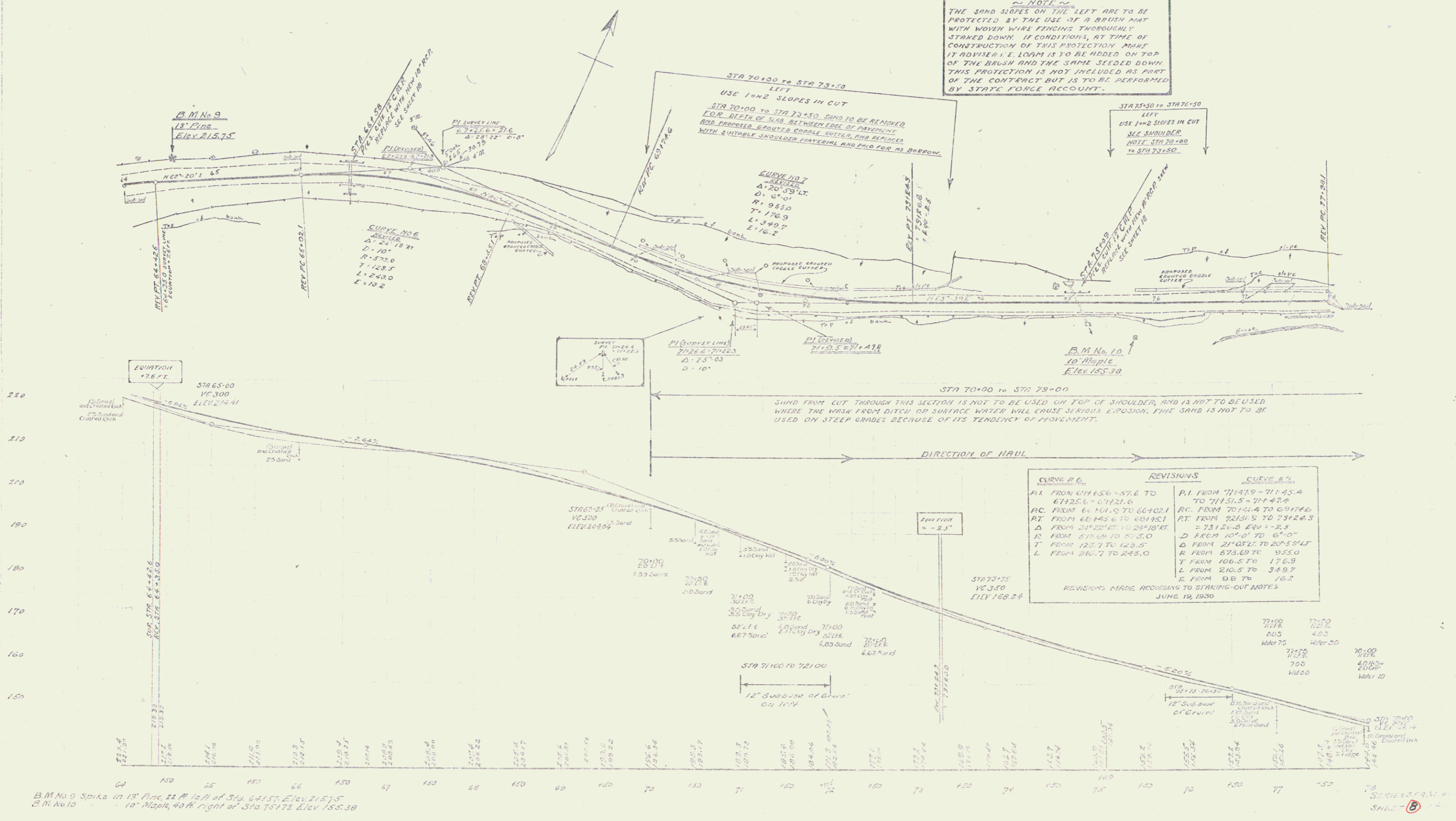
STATIONS	DIA.	LENGTH	CONC.	REIN. SILL
66+38	18"	40'	—	33 lbs
73+09	18"	48'	1.8 CY	34 lbs

GRADED COBBLE CUTTER REQUIRED

STATIONS	TYPE	WIDTH	LENGTH	AREA
68+60-69+00	R	4'-0"	30'	232 sq. yds.
70+00-73+50	L	4'-0"	350'	1533 sq. yds.
75+75-78+00	L	4'-0"	225'	1003 sq. yds.
73+30-73+75	L	4'-0"	25'	11 sq. yds.

PLAN SHEET S.F.A. 102-C (Part B) 48

NOTE
 THE SAND SLOPES ON THE LEFT ARE TO BE PROTECTED BY THE USE OF A BRUSH MAT WITH WOVEN WIRE FENCING THOROUGHLY STAKED DOWN. IF CONDITIONS AT TIME OF CONSTRUCTION OF THIS PROTECTION MAKE IT ADVISABLE, LOAM IS TO BE ADDED ON TOP OF THE BRUSH AND THE SAME SEEDED DOWN. THIS PROTECTION IS NOT INCLUDED AS PART OF THE CONTRACT BUT IS TO BE PERFORMED BY STATE FORCE ACCOUNT.



REVISIONS

CURVE # 6	REVISIONS	CURVE # 7	REVISIONS
PI FROM 61145.6 TO 61145.6	PI FROM 71143.9 TO 71145.4	PI FROM 71131.5 TO 71142.4	
PC FROM 60101.0 TO 60102.1	PC FROM 70151.4 TO 69174.6	PC FROM 72151.5 TO 72124.3	
PT FROM 62145.6 TO 62145.1	PT FROM 73124.8 TO 73124.3	PT FROM 74101.0 TO 74101.0	
Δ FROM 6170.6 TO 6170.6	Δ FROM 101.0 TO 101.0	Δ FROM 211.0 TO 211.0	
R FROM 617.6 TO 617.6	R FROM 617.6 TO 617.6	R FROM 617.6 TO 617.6	
L FROM 210.7 TO 210.7	L FROM 106.5 TO 106.5	L FROM 106.5 TO 106.5	
	E FROM 210.5 TO 210.5	E FROM 210.5 TO 210.5	
	E FROM 61.8 TO 61.8	E FROM 61.8 TO 61.8	

REVISIONS MADE ACCORDING TO STAKING-OUT NOTES
 JUNE 13, 1930

B.M. No. 9 Spike in 13' Pine 21 ft left of Sta. 64+51 Elev. 218.75
 B.M. No. 10 10' Maple 40 ft right of Sta. 75+78 Elev. 156.38

SHEET 6

WOOD GUARD RAIL REQUIRED

COLLECT STATIONS	LEFT	RIGHT
81+36	24	

CABLE GUARD RAIL REQUIRED

STATIONS	LEFT	RIGHT
76+00-76+29	23	
79+40-82+20	280	
86+77-86+77	200	
86+60-85+03	49	
90+63-82+03	137	
80+30-32+00	150	

NEW REIN. CONCRETE PIPE CULVERTS REQUIRED

STATIONS	DIAM.	LENGTH	CONC. A	CONC. C	REIN. STEEL
81+85	18"	52	1.8 cu		34 LBS

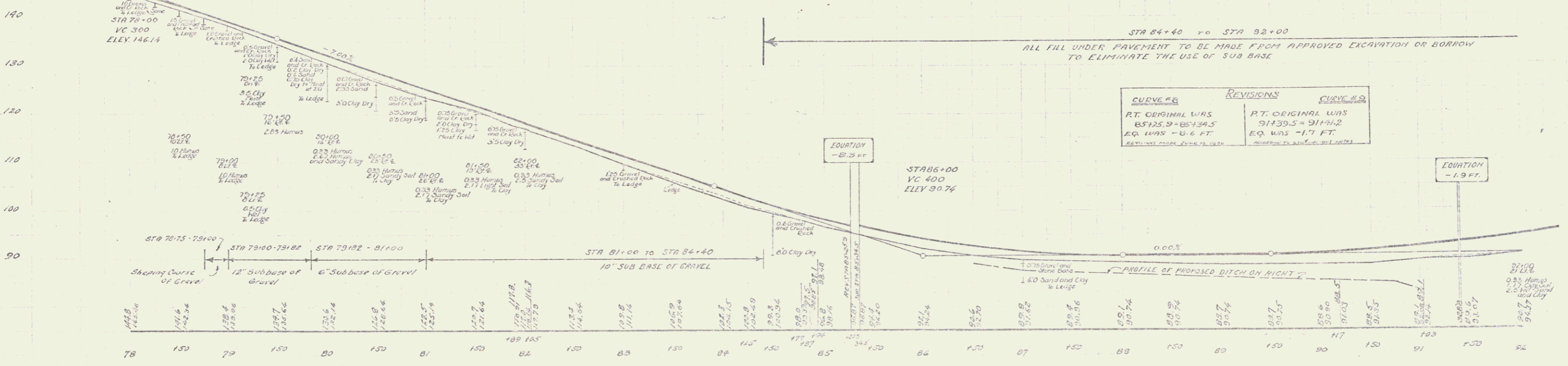
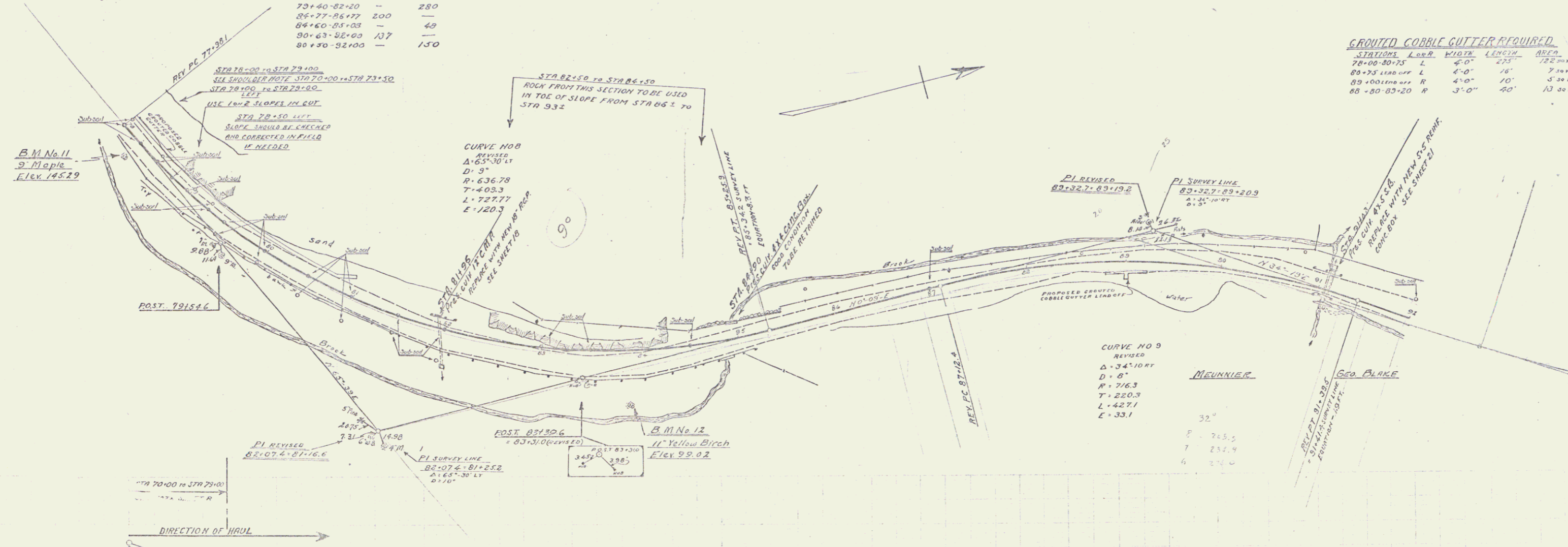
NEW REIN. CONCRETE BOX CULVERTS REQUIRED

STATION	SIZE	CONC. A	REIN. STEEL
91+03	5'x5'	30.9 cu yds	2062 LBS

S.F.A. 122-C 1950 9 40

GRAVELLED COBBLE GUTTER REQUIRED

STATIONS	LOW	WIDTH	LENGTH	AREA
78+00-80+75	L	4'-0"	275'	722 sq yds
85+25-100+00	L	4'-0"	18'	71 sq yds
89+00-100+00	R	4'-0"	10'	53 sq yds
88+80-85+20	R	3'-0"	40'	13 sq yds



BM No 11 Spike in 9" Maple 18' right Sta 70+23 Elev 143.29
 BM No 12 Back side 11" Yellow Birch by 18' line 50' right Sta 83+83 Elev 39.02

SERIES SF AND 122C
 SHEET 9 OF 48

7

WOOD GUARD RAIL REQUIRED

STATION	TYPE	LENGTH
110+63	24	24
121+31	24	24

NEW REINFORCEMENT PIPE CULVERTS REQUIRED

STATION	DIAMETER	LENGTH	CONCRETE	PIPE	REINFORCEMENT
110+63	48"	40'	1.8 cu	34 lbs	
121+31	48"	36'	3.0 cu	33 lbs	

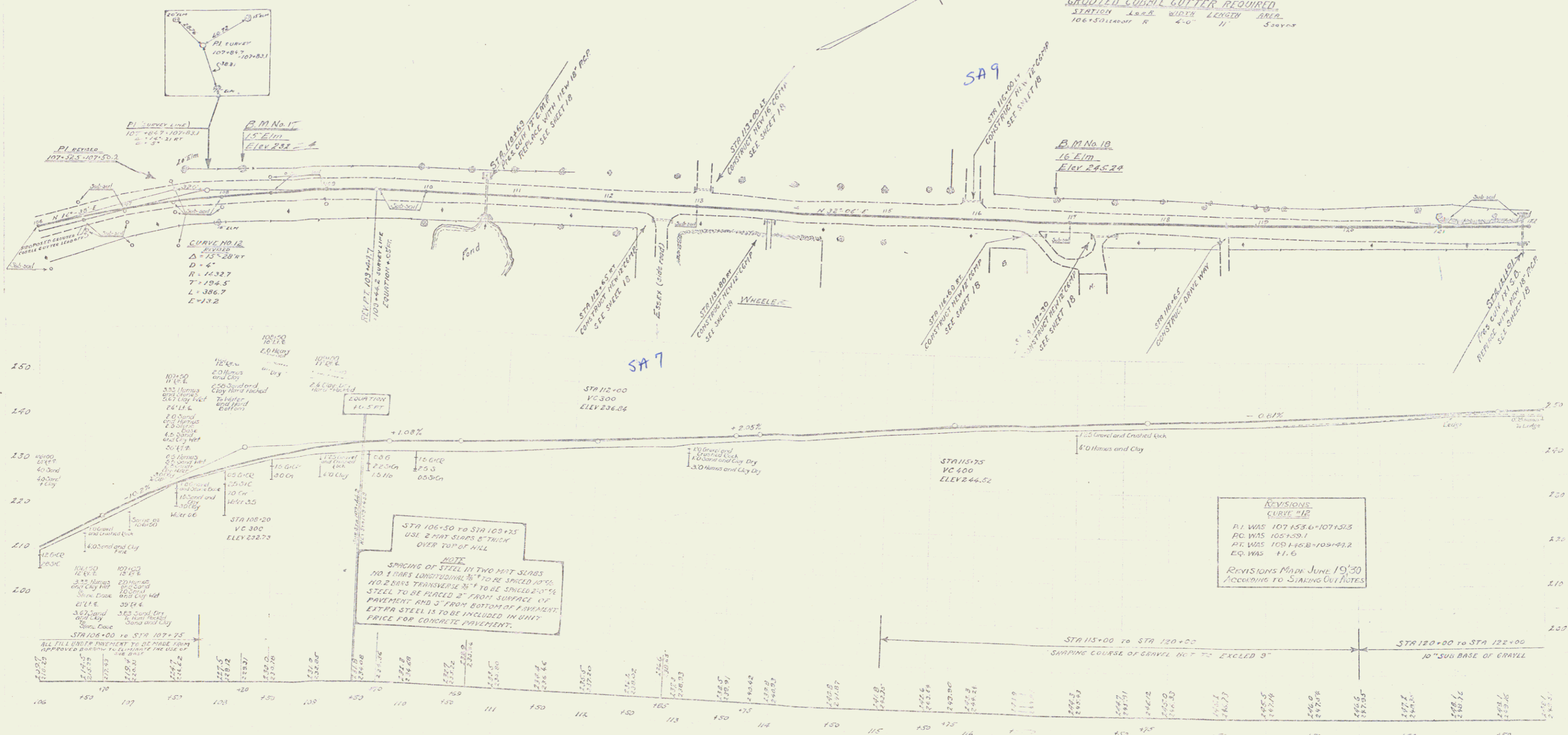
DRIVE WAY FIRE CULVERTS REQUIRED

STATION	DIAMETER	LENGTH	CEMENT	PIPE	REINFORCEMENT
112+55	12"	20'	2.3 cy		
113+00	L 12"	20'	2.7 cy		
114+50	R 12"	10'	2.3 cy		
116+00	L 12"	20'	2.3 cy		
116+60	R 12"	20'	2.3 cy		
117+30	R 12"	20'	2.3 cy		

GROUTED COBBLE GUTTER REQUIRED

STATION	DIAMETER	WIDTH	LENGTH	AREA
106+00 to 107+00	R	4'-0"	11'	32 sq ft

SFA
102-C/1230/27/140



B.M. No. 17 Spill in 5' E of Sta 107+25 Elev 232.24
 B.M. No. 18 16' E of Sta 116+10 Elev 245.24

REVISIONS
 CURVE #12
 P.I. WAS 107+53.6+107+53.3
 P.C. WAS 105+53.1
 P.T. WAS 109+16.8+109+16.2
 EQ. WAS 11.6
 REVISIONS MADE JUNE 19'30
 ACCORDING TO STAKING OUT NOTES

SERIES SPAN 10' C
 SHEET 11 OF 40

WOOD GUARD RAIL REQUIRED

CULVERT STATIONS	LEFT	RIGHT
126+25	24'	24'
130+58	24'	24'
137+00	24'	24'

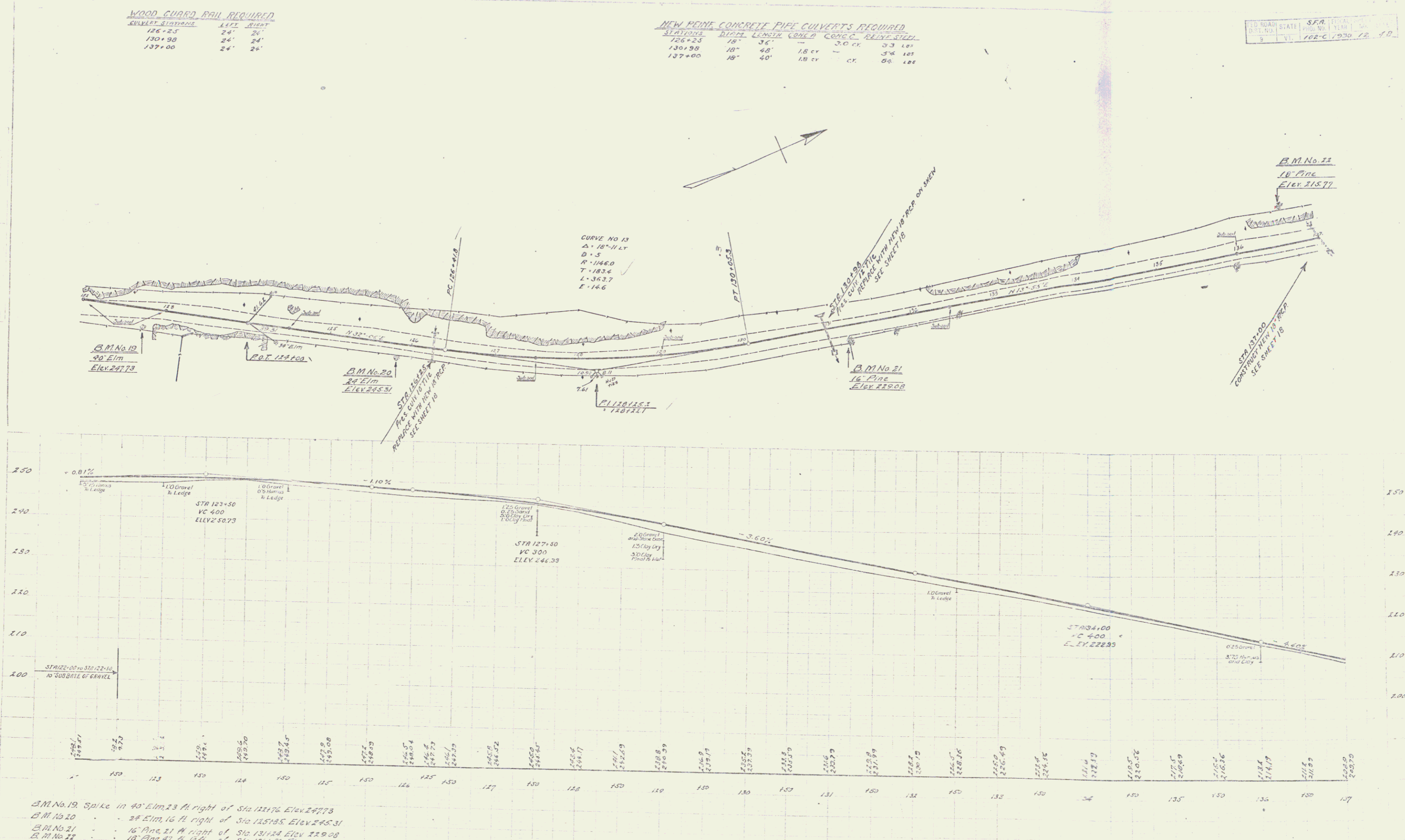
NEW PEINE CONCRETE PIPE CULVERTS REQUIRED

STATIONS	DIA	LENGTH	CONC	CONC C	RELIEF SILL
126+25	18"	36'	-	3.0 CY	3.3 LB
130+58	18"	48'	1.8 CY	-	5.4 LB
137+00	18"	60'	1.8 CY	-	5.4 LB

STATE OF ILLINOIS
 DIVISION OF HIGHWAYS
 PROJECT NO. 102-C-1930-12-10

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B.M. No. 19, Spike in 40' Elm. 13 ft. right of Sta. 126+25 Elev. 247.73
 B.M. No. 20, " " 24' Elm. 16 ft. right of Sta. 125+85 Elev. 245.31
 B.M. No. 21, " " 16' Pine. 21 ft. right of Sta. 131+34 Elev. 229.08
 B.M. No. 22, " " 18' Pine. 47 ft. left of Sta. 136+58 Elev. 215.77

SERIES 57110-102-C
 SHEET 12 OF 40

WOOD CURVED PILING REQUIRED
 STATION 157+50
 24'

CHALK CHORD ROIL REQUIRED
 STATIONS DIST. BLEN.
 151+76 - 152+26 50' 40"
 156+26 - 155+00 126' -
 157+45 - 150+00 75' -

NEW REIN. CONCRETE PIPE CULVERTS REQUIRED
 STATIONS DIST. LENGTH CONC. CONC. REIN. STEEL DISCIPLIN.
 157+50 18' 44' 1.4 cu 1.5 cu 128.00'

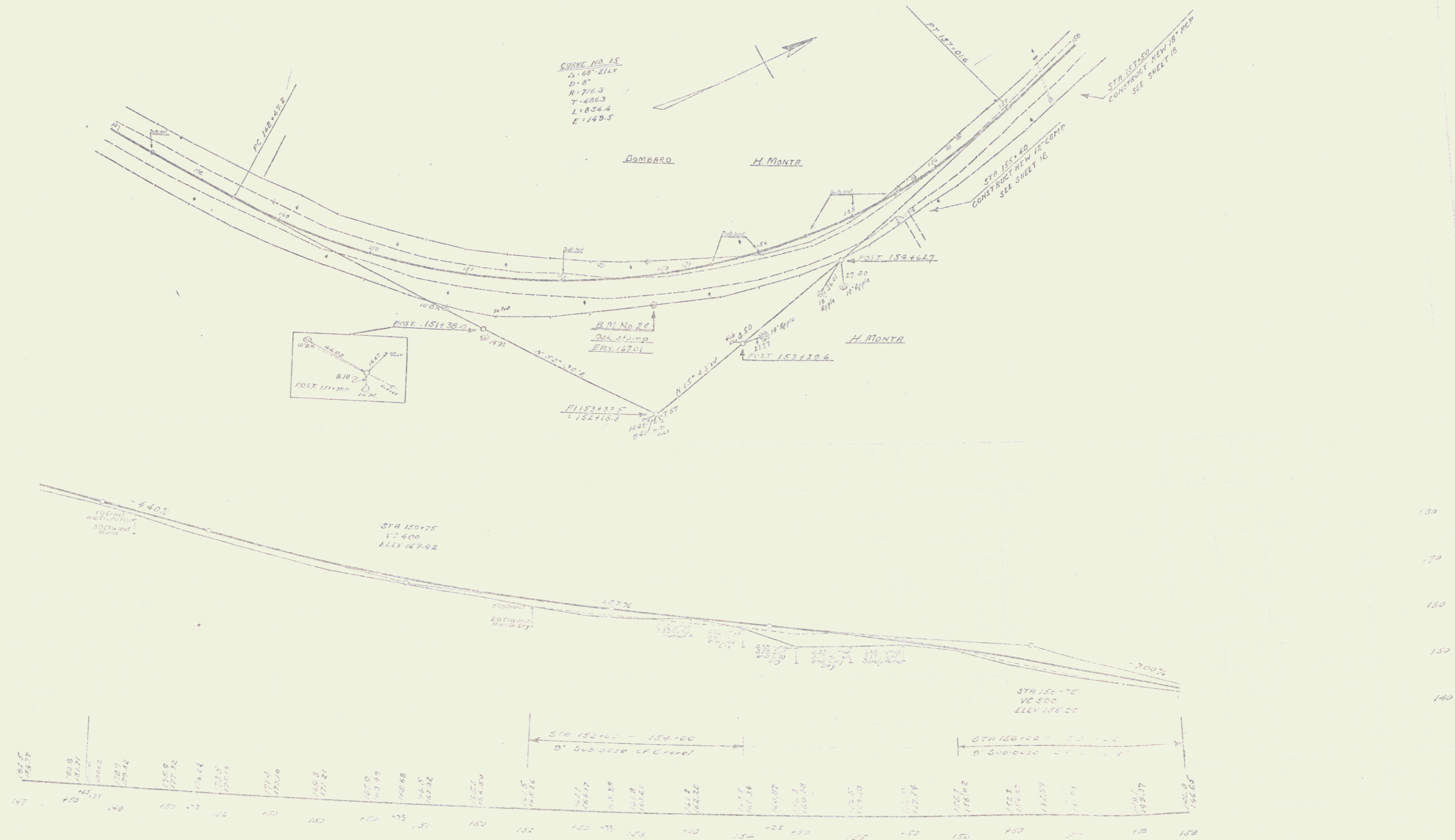
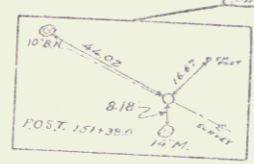
DRIVE WAY PIPE CULVERTS REQUIRED
 (CONC. CURB, 12" DIA. PIPE)
 STATION LANE DIA. LENGTH EMBLNT. FINISH MASONRY
 153+40 R 12' 20' 2.3 cu.

SPR 102-C 1970 14 47

CURVE NO. 15
 $\Delta = 68^\circ 21' 47''$
 $D = 8'$
 $R = 776.3$
 $T = 436.3$
 $L = 874.4$
 $E = 149.5$

BOMBARD H. MONTR

B.M. No. 22
 206.41
 ELEV. 167.01



Two 24' Splice in top of 36\"/>

SERIES C P 102-C
 SHEET 14 OF 18

COBLE GUARD RAIL REQUIRED

STATIONS	LEFT	RIGHT
158+00-159+50	33'	---
160+30-162+10	160	---
165+80-165+76	54'	---
165+20-165+70	---	160

MINIMUM CONCRETE BOX CULVERTS REQUIRED

STATION	SIZE	COEFF. OF	PIPE DIA.
166+20	3'x3'	34.6%	22" dia

NEW UNSTRENGTHENED CLAY PIPE REQUIRED

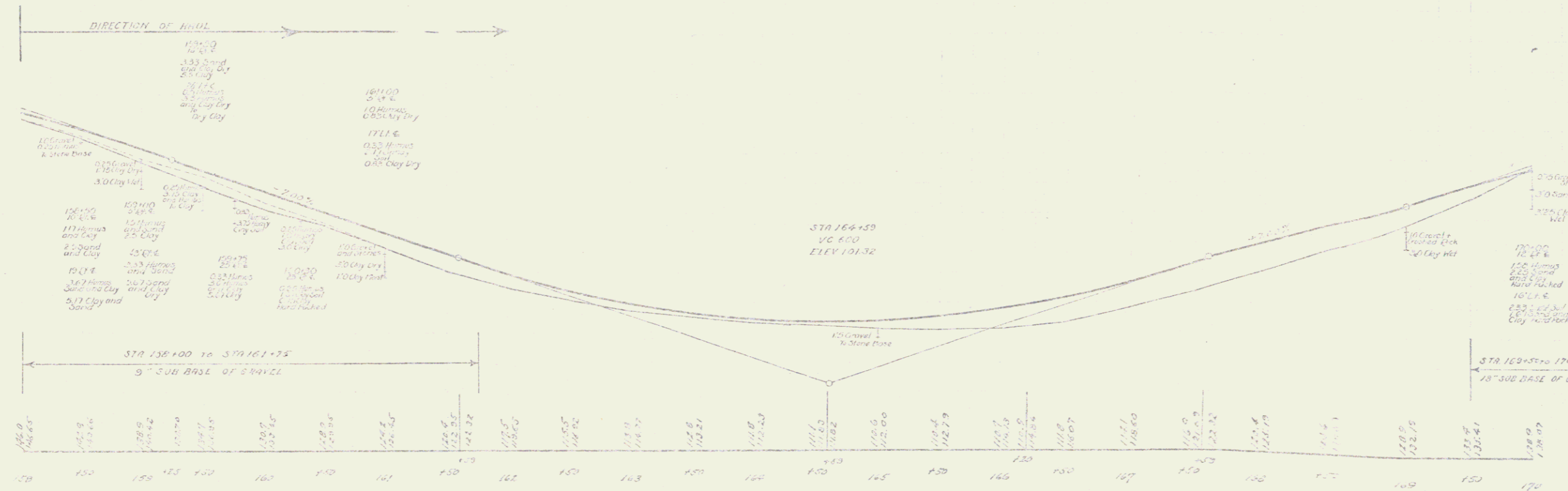
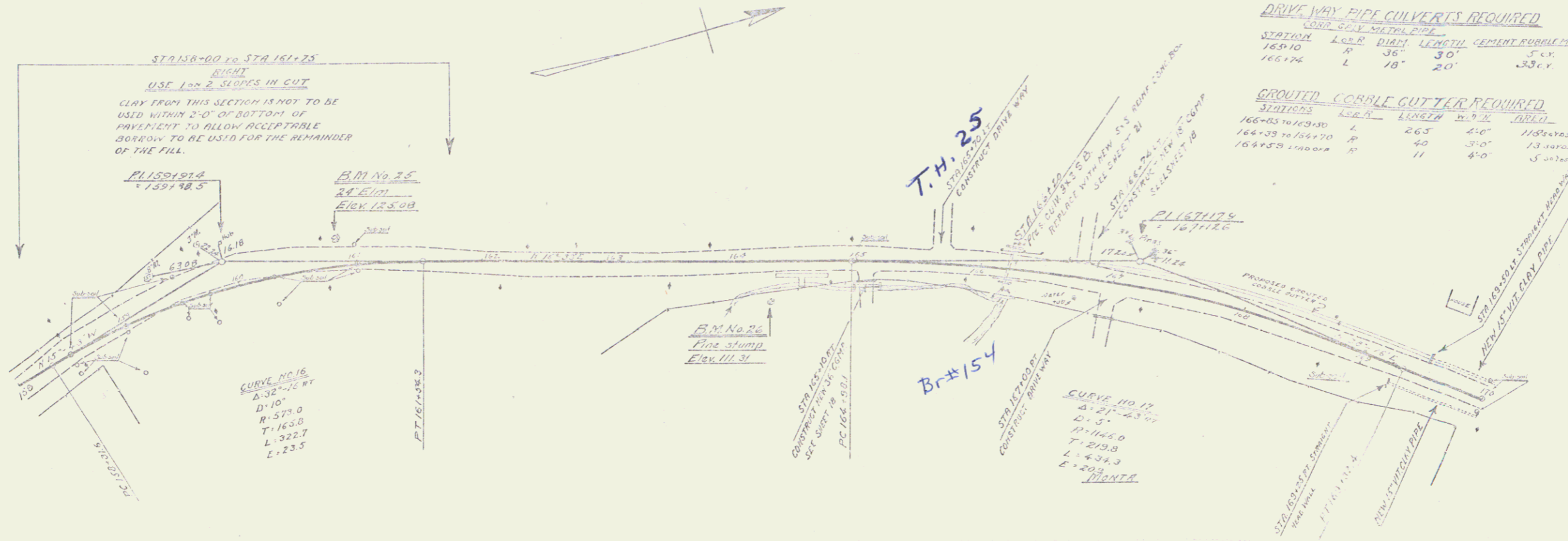
STATION	TYPE	DEPTH	CURVE	REMARKS
163+30-170+00	R	30"	---	---
163+24-169+00	R	36"	---	---
163+36	L	36"	---	STR HEAD WALL 12x12
163+26	R	36"	---	12x12

DRIVE WAY PIPE CULVERTS REQUIRED

STATION	TYPE	DIAM.	LENGTH	CEMENT RUBBER JOINT
169+10	R	36"	30'	33 c.y.
166+76	L	18"	20'	33 c.y.

GROUTED COBBLE CUTTER REQUIRED

STATION	SIZE	DEPTH	REMARKS
166+03-166+30	L	24"	24"
166+39-166+70	R	40"	3'-0"
169+50-170+00	R	11"	4'-0"

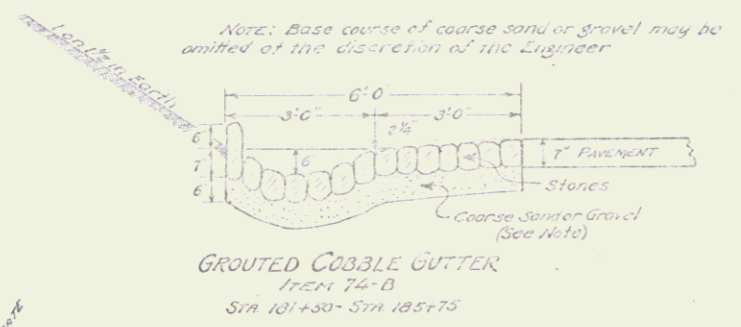


B.M. No. 25 Spike in back of Fig. 23 left Sta 158+07 Elev 145.00
 B.M. No. 26 Spike in top 20" Face Stump 34' right Sta 166+33 Elev 111.31

SERIALS 10/14/40
 SHEET 15 OF 21

SIDE POSTS OF WOOD

STATION	LEFT	RIGHT
170+50	1	1
171+20	1	1
171+40	1	1



1/2" IS. VERIFIED CLAY PIPE REQUIRED

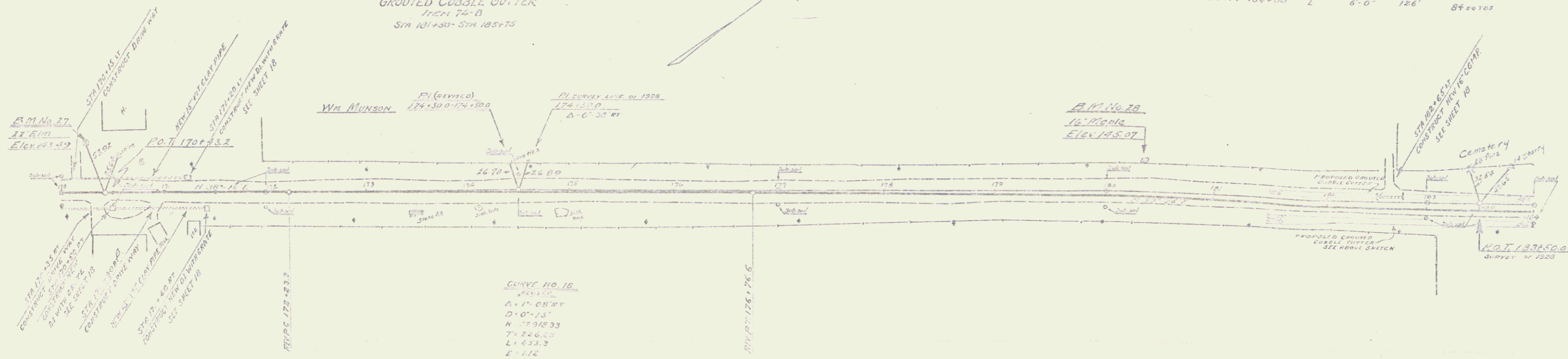
STATION	L	R	LENGTH	CONCRETE	STEEL	DIAMETER
170+20	L	R	120			
170+20 - 171+40	R		50			
170+50	R		50			
171+20	L	R	DRAPING	15 CY.	33 LB.	1
171+40	R	DRAPING	14 CY.	33 LB.	1	

DRIVE WAY PIPE CONVERTER REQUIRED
 (CONCRETE METAL PIPES)

STATION	LEN	BLK	LEN	CEMENT	PIPE	MARKING
182+65	L	16'	2-6"	2-3 CY.		

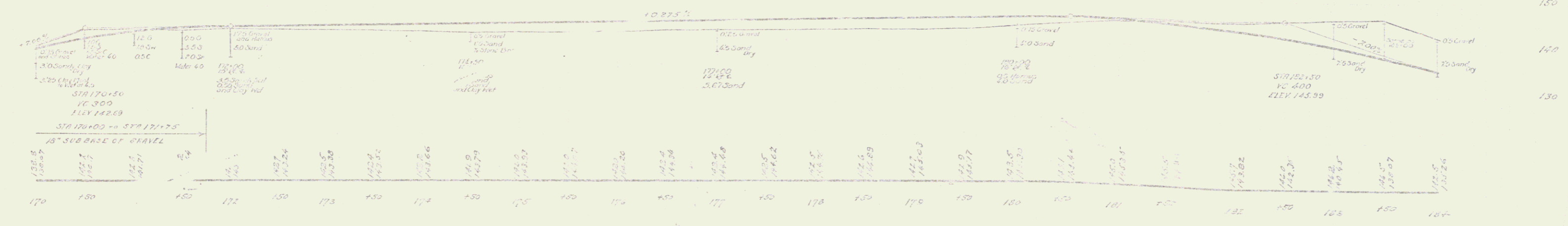
GRouted COBBLE CUTTER REQUIRED

STATION	L	R	LENGTH	CONCRETE	STEEL	DIAMETER
181+50 - 182+50	L	R	100'	600 Pcs		
181+30 - 182+10	R		50'	550 Pcs		
182+00 - 182+20	R		200'	1330 Pcs		
182+71 - 184+00	L	R	126'	8400 Pcs		



170+00	100.00
171+00	100.00
172+00	100.00
173+00	100.00
174+00	100.00
175+00	100.00
176+00	100.00
177+00	100.00
178+00	100.00
179+00	100.00
180+00	100.00
181+00	100.00
182+00	100.00
183+00	100.00
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185+00	100.00
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189+00	100.00
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183+00	100.00
184+00	100.00
185+00	100.00
186+00	100.00
187+00	100.00
188+00	100.00
189+00	100.00
190+00	100.00



2" 1/2" 1" 1/2" in 22' Elm 50' left Sta 170+26 Elev 143.49
 2" 1/2" 1" 1/2" Spike in 16' Maple 35' left Sta 180+81 Elev 145.07

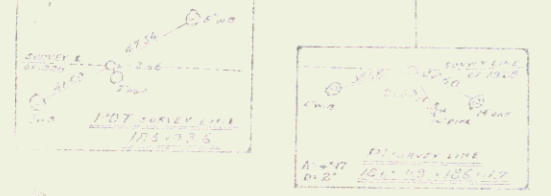
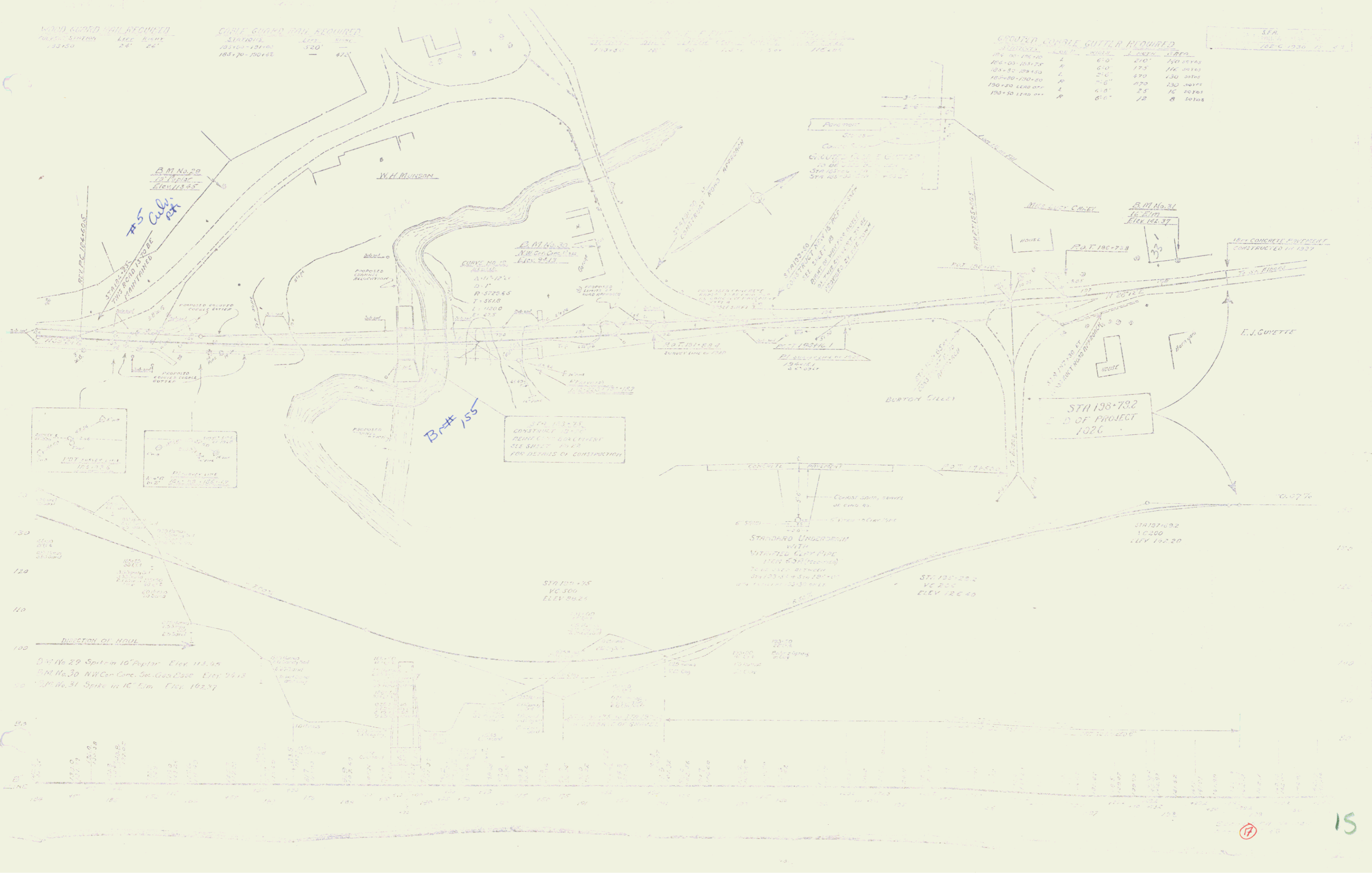
WOOD GUARD RAIL REQUIRED
 185+00 TO 185+20
 24' 26'

CONCRETE GUTTER REQUIRED
 185+00 TO 185+20
 47'

GRADED CURVE GUTTER REQUIRED

STATION	WIDTH	DEPTH	LENGTH	AREA
184+00-184+25	6'-0"	2'-0"	25'	150 sq ft
184+25-184+50	6'-0"	1'-6"	25'	150 sq ft
184+50-184+75	6'-0"	1'-0"	25'	150 sq ft
184+75-185+00	6'-0"	0'-6"	25'	150 sq ft
185+00-185+25	6'-0"	0'-0"	25'	150 sq ft

S.F.A.
 185+00 TO 185+20



SEE SHEET 15 FOR DETAILS OF CONSTRUCTION

STA 184+75.21
 P.O. OF PROJECT
 1926