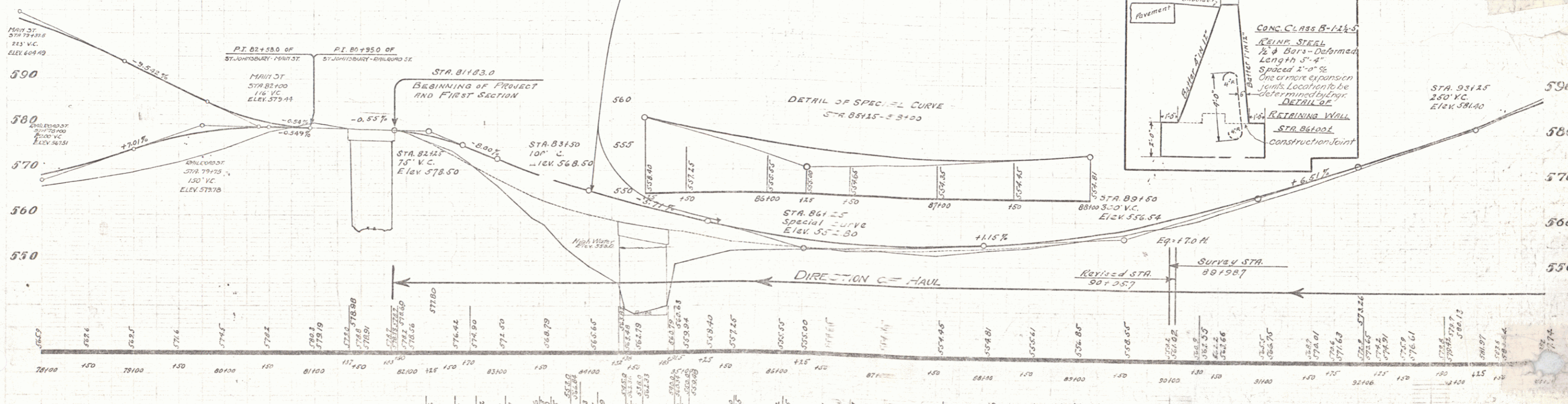
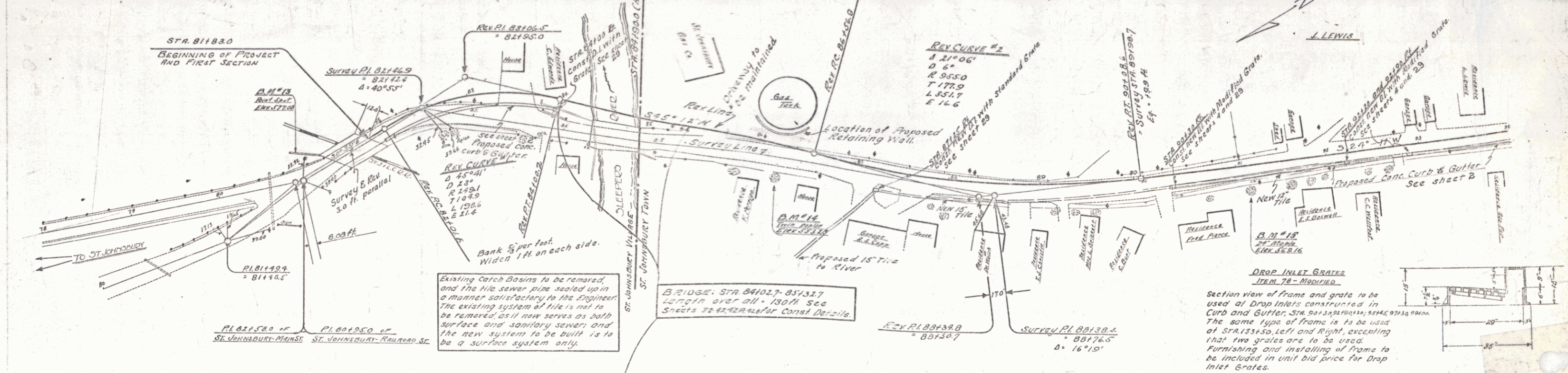
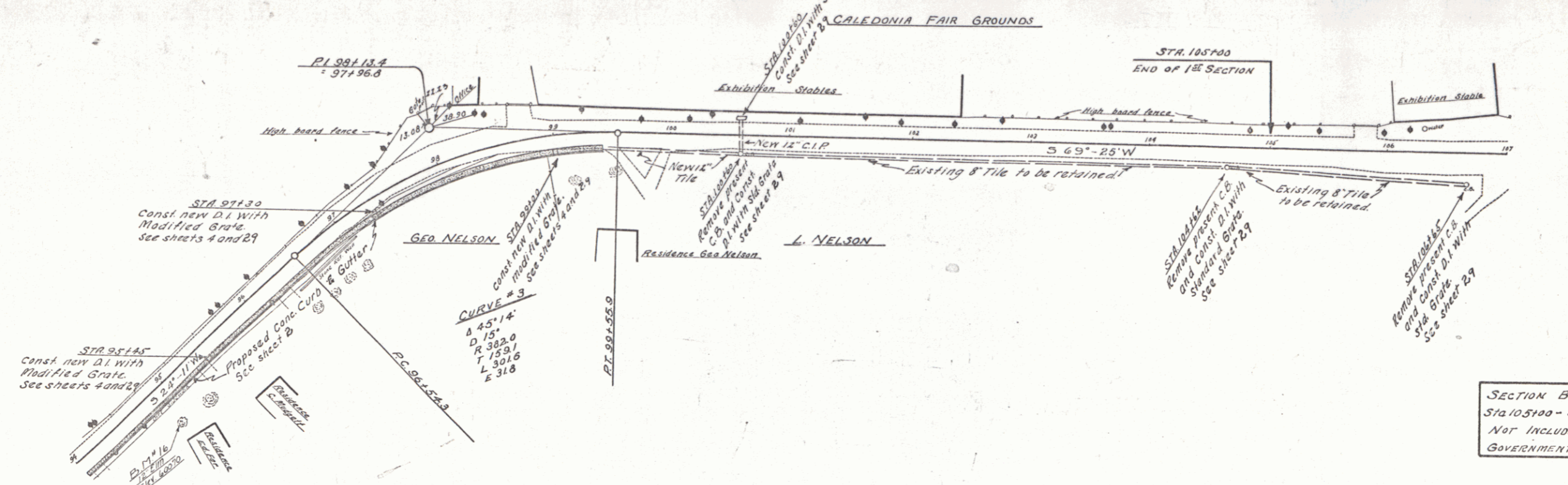


CABLE GUARD RAIL REQUIRED		DROP INLETS REQUIRED (STANDARD)		CONCRETE CURB & GUTTER REQUIRED	
Stations	Length	Station	Conc. R. Steel	Stations	Side Width
81103-84103	320	81100 R/L	1.4 cu yds	81100 R/L	2.0 ft
85115-85117	32	81115 R/L	1.4 " 99"	81115 R/L	1.0
85115-85117	-			81115 R/L	2.0
85115-85117	608			81115 R/L	1.0

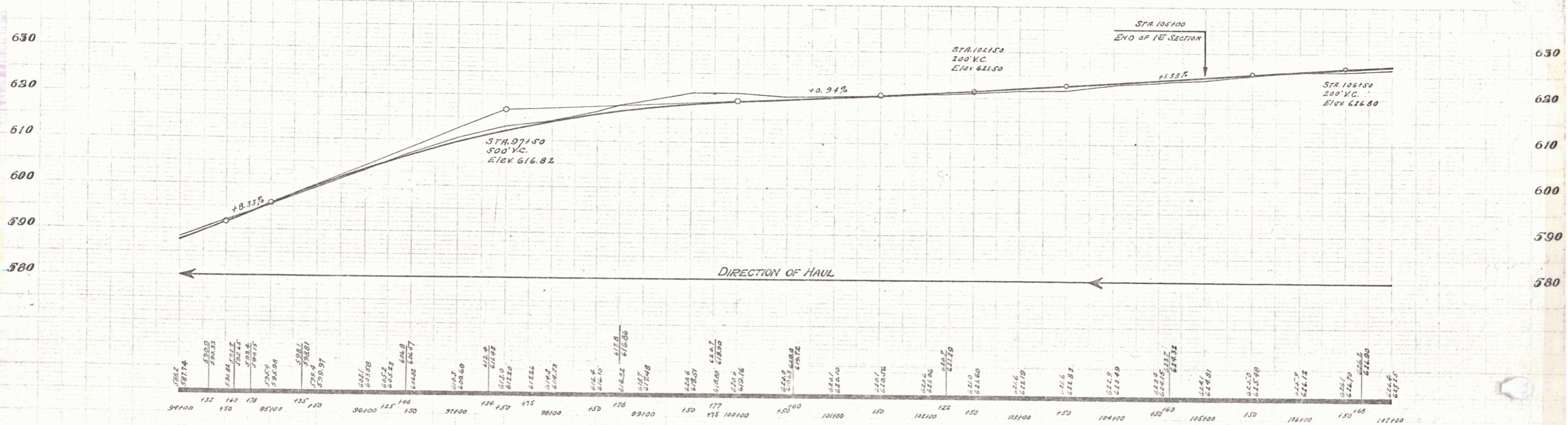


B.M. 13 Point spot on dry bridge abutment 30 ft left of Sta 81100. Elev 577.00
 B.M. 12 Spike in root of twin poplar 13 ft right of Sta 86100. Elev 553.53
 B.M. 13 Spike in root of 24 maple 24 ft right of Sta 81114. Elev 568.18

CABLE GUARD RAIL REQUIRED			NEW DROP INLETS WITH MODIFIED GRATE REQUIRED				NEW DROP INLETS WITH STANDARD GRATE				CONCRETE CURB & GUTTER REQUIRED						
Stations	Left	Right	Station	Comp. Class	Size	Grates	Station	Comp. Class	Size	Grates	Stations	Side	Width	Lead	Curb Height	Comp. B.	Steel
94100-97152		352	95145 KH	14 C.Y.	30"	1	100160 KH	14 C.Y.	30"	1	94100-99140 Rt.	1.0 ft.	5'-0"	8 inches	36	269	
			97130 KH	14	30"	1	100160 LA	14 C.Y.	30"	1							
			99140 KH	14	30"	1	100160 KH	14 C.Y.	30"	1							
							100160 LA	14 C.Y.	30"	1							
							100160 KH	14 C.Y.	30"	1							



SECTION BETWEEN
Sta 105100 - Sta 107100
NOT INCLUDED IN
GOVERNMENT PARTICIPATION



B.M. 16 SPIKE IN FOOT OF 12" ELM, 32.5 FT. ET. OF STA 94100 - ELEV 600.70

Wood Guard Rail Required

Culvert Station	Left	Right
109190	24	24
118162	-	24
122120	-	24
113108	24	24

Cable Guard Rail Required

Station	Left	Right
118125-119120	104	-
121150-123100	150	-

New Cast Iron Pipe Culverts Required

Station	Diam.	Length	Grade	Culvert Size
108162	18"	42'	0.2	18"
122120	18"	36'	-	18"
113108	18"	39'	-	18"

New Drop Inlets with Grates Required

Station	Cont. Class.	Size	Grate
107180 RA	14 cu yds.	39"	1
108170 RA	14 "	39"	1

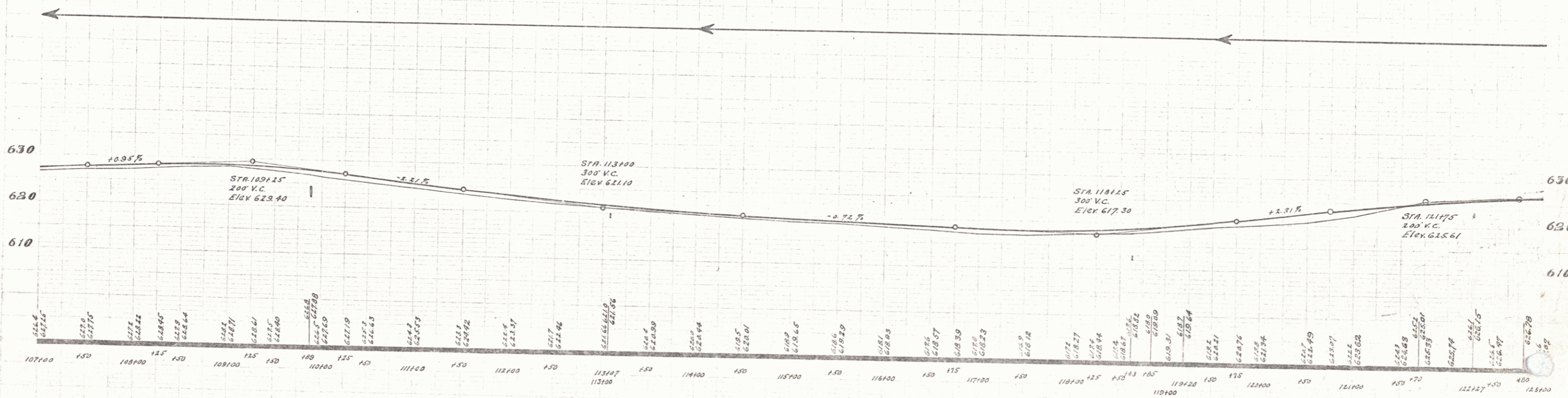
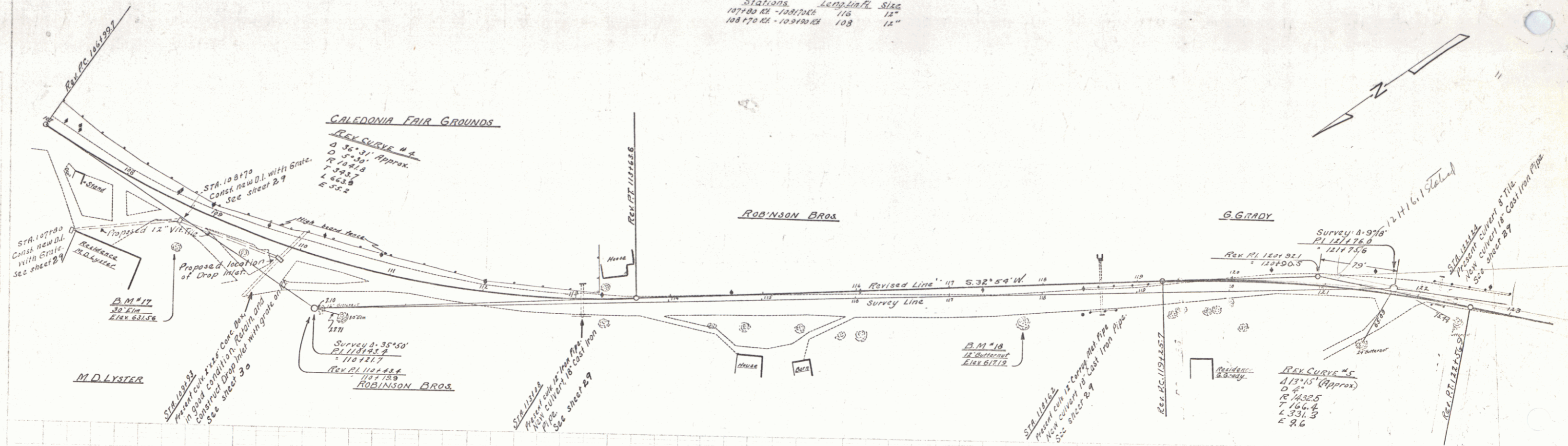
Culvert Repairs Required

Station	Cont. Class.	Size	D. Grate
109190	0.8	31"	1

New V.I. Tile Pipe Required

Station	Length	Size
107180 RA - 108170 RA	115	12"
108170 RA - 109190 RA	108	12"

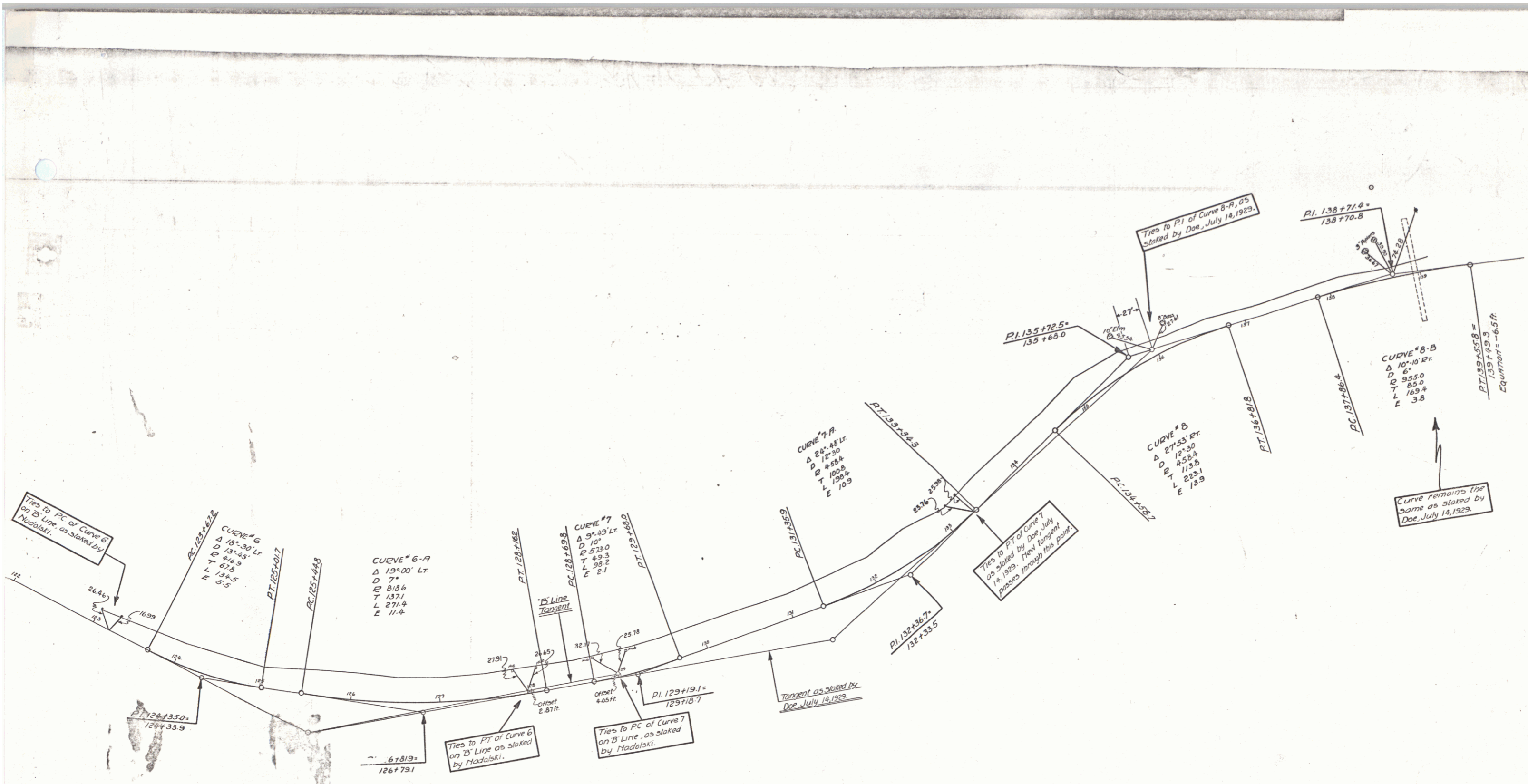
15-G 1929-6 97



B.M. #17 Spike in root of 50' Elm, 40 ft. right of Sta 100100. Elev 631.56
 B.M. #18 Spike in root of 18' Butternut, 24 ft. right of Sta 117181. Elev 617.19

SERIES 1925-B
 SHEET 6 OF 97

4



ST. JOHNSBURY 15-G
 POWER HOUSE HILL
 LINE AS REVISED AUG. 1, 1929
 ALL PREVIOUS EDITIONS VOID

WOOD GUANO RAIL REQUIRED

Station	Left	Right
145161	24	24

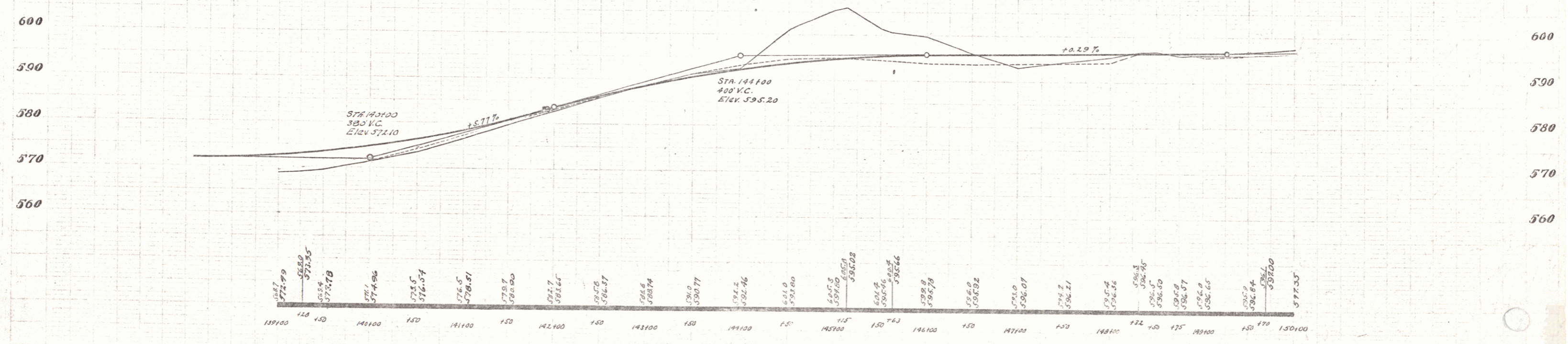
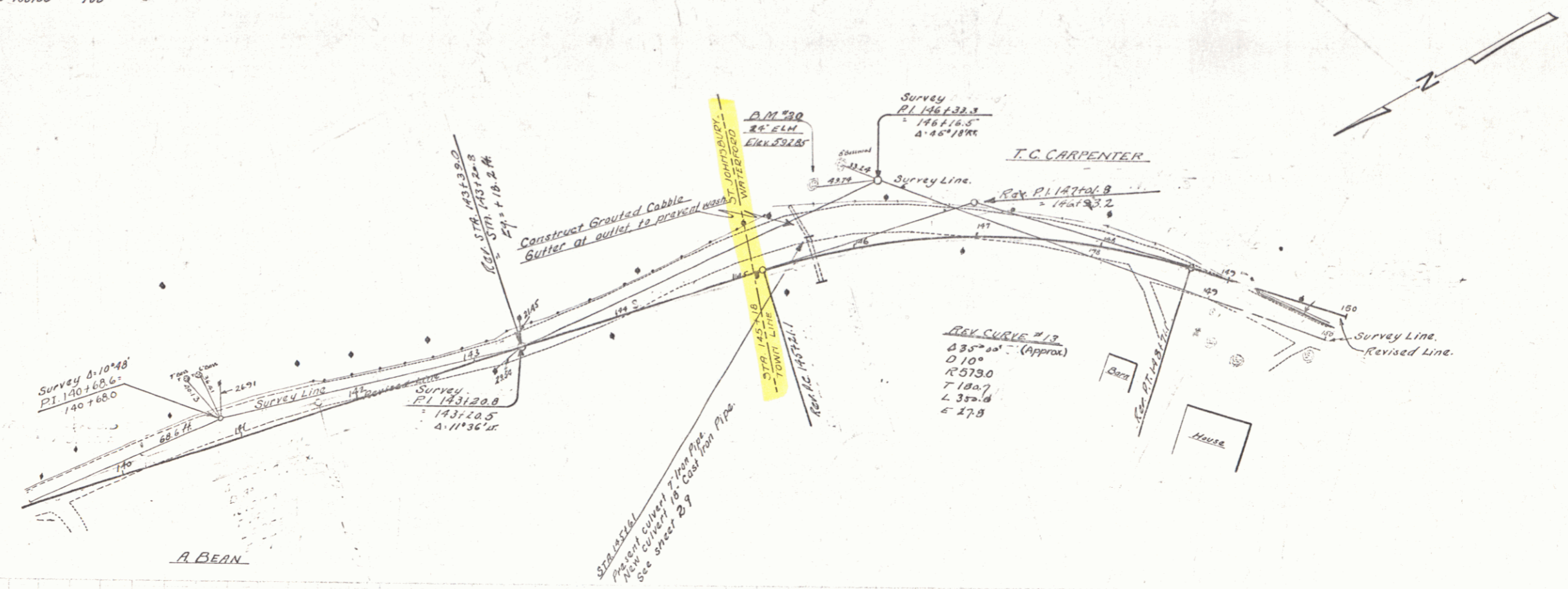
CABLE GUANO RAIL REQUIRED

Station	Left	Right
139100-139102	-	2
139100-139177	77	-
149100-150100	100	-

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diag.	Length	Concrete	Steel
145161	18'	36'	5.0	3.5

STATE OF CALIFORNIA
DIVISION OF HIGHWAYS
15-C-1929 B 97



B.M. 20 Spike in root of 34' Elm 30 ft left of Sta. 148+70. Elev. 592.85

WOOD GUNDO RAIL REQUIRED

Culvert Station	Left	Right
171126	24	24
175178	24	24

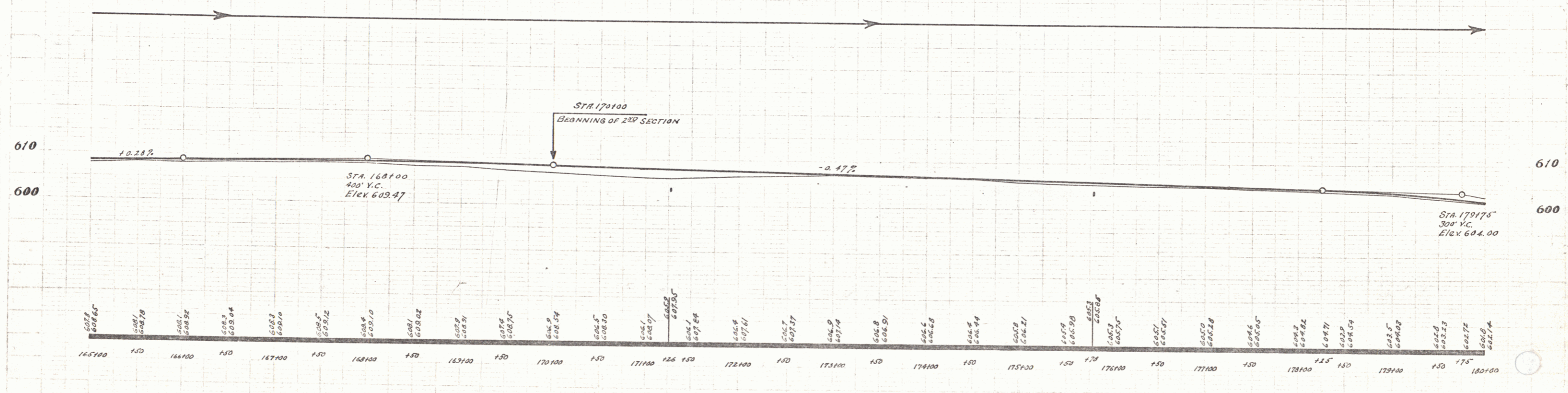
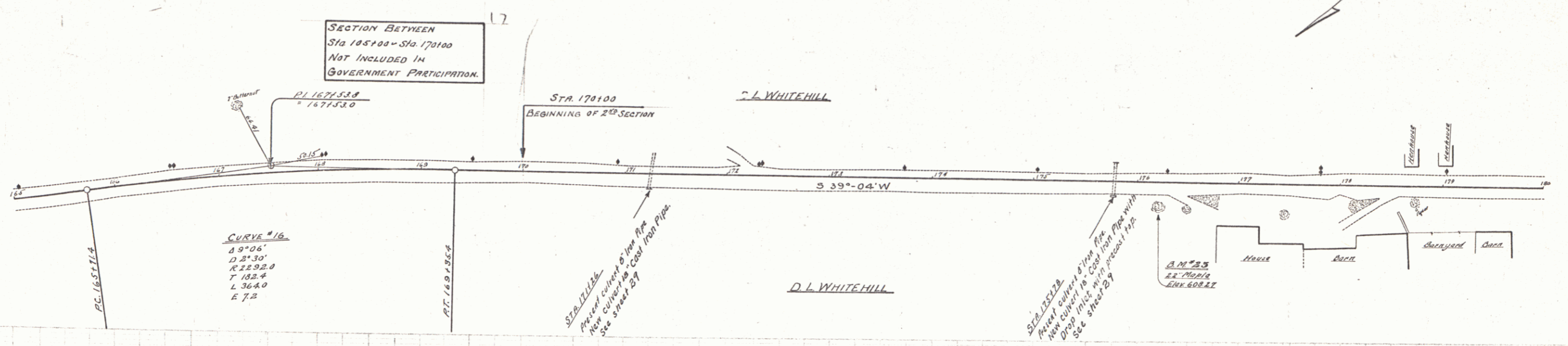
NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diam.	Length	Cost
171126	36"	15'	17
175178	36"	15'	17

15-G 1929 10 97

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B.M. #33 Spike in root of 32" Maple, 19 ft right of STA 176+24. Elev 608.27

SERIES F.R. 15-G
SHEET 10 OF 97

CABLE GUARD RAIL REQUIRED

Station	Side	Length
18450-18510	Left	76
18450-18475	Right	76
186175-188127	Right	152

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diam	Length	Conc. A	Steel
185110	24"	76	2.4	5.4

COAR. GALV. METAL PIPE (PAVED INVERT)

Station	Side	Diam	Length	Conc. A	Steel
186160	RH	12"	24	1.6	1.6

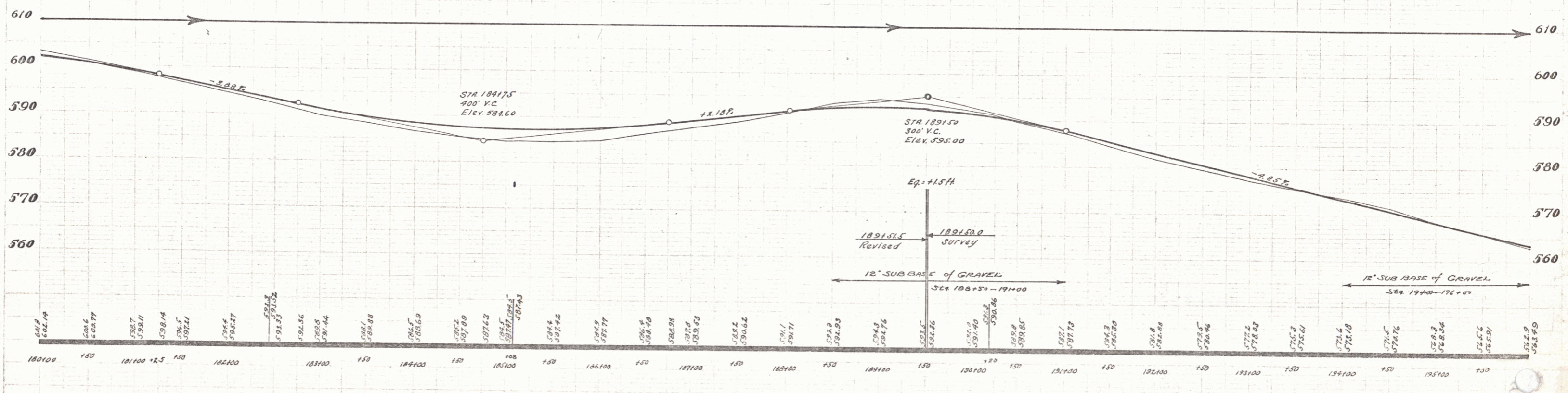
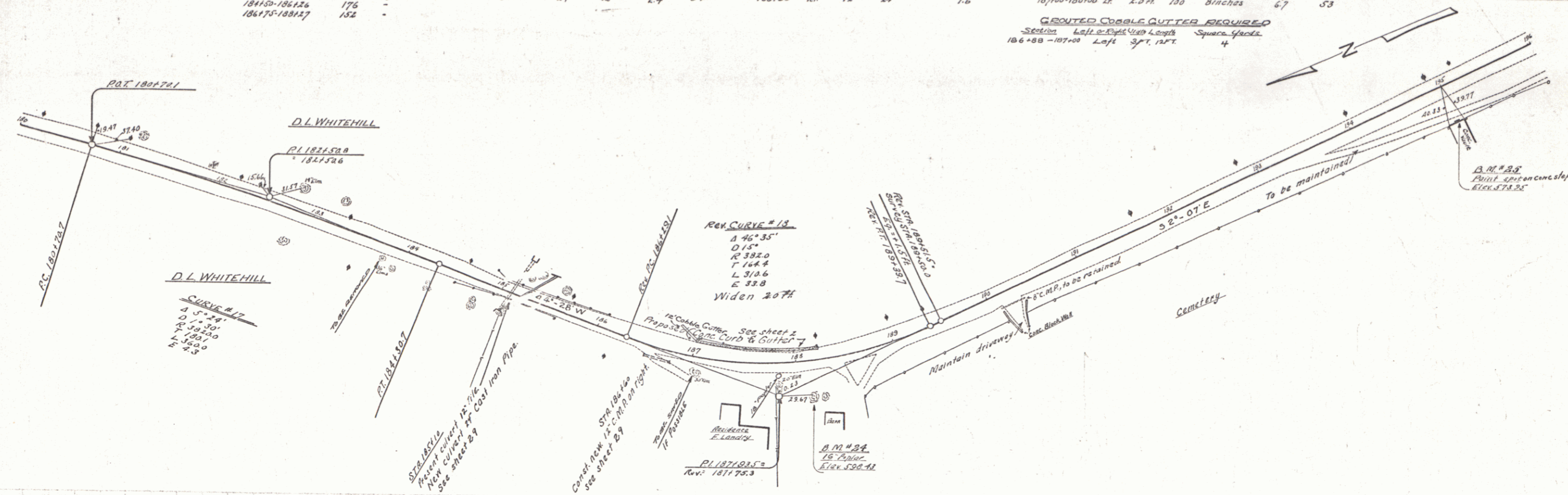
CONCRETE CURB & GUTTER REQUIRED

Stations	Side	Width	Height	Conc. A	Steel
187100-188100	LH	2.0 ft	120	6.7	5.3

GRAVELLED COBBLE GUTTER REQUIRED

Section	Left Side	Right Side	Space	Grade
186180-187100	Left	Right	4 ft	4"

15-B-1929 11 97



B.M. #24 Spike in root of 16" maple, 36 ft. right of Sta 180114, Elev. 598.43
 B.M. #25 Paint spot on concrete step of wall, 36 ft. right of Sta 195100, Elev. 573.95

SERIES F.R.15-B
 SHEET 77 OF 97

CABLE GUARD RAIL REQUIRED
 Stations Left Right
 197150-200170 320
 198100-201120 320

NEW REINFORCED CONCRETE BOX CULVERT REQUIRED
 STATION SIZE CONC. A. REIN. STEEL STRUCTURE ENG.
 199137 10X10 142.3CY. 11.754LBS. 195CY.

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NEW DEEP INLETS REQUIRED

Station	Left	Right	Cl. Conc. Steel Grate
21165	14	1A	99
21840	14	1A	99
21930	14	1A	99

NEW CAST IRON PIPE CONVERTS REQUIRED

Station	Diam.	Length	Conc. H.	Steel
21190	15"	20'	3.0	314
21744	18"	45'		

NEW CATCH BASIN REQUIRED

Station	Left	Right
21748		R.

NEW VITRIFIED CLAY PIPE REQUIRED

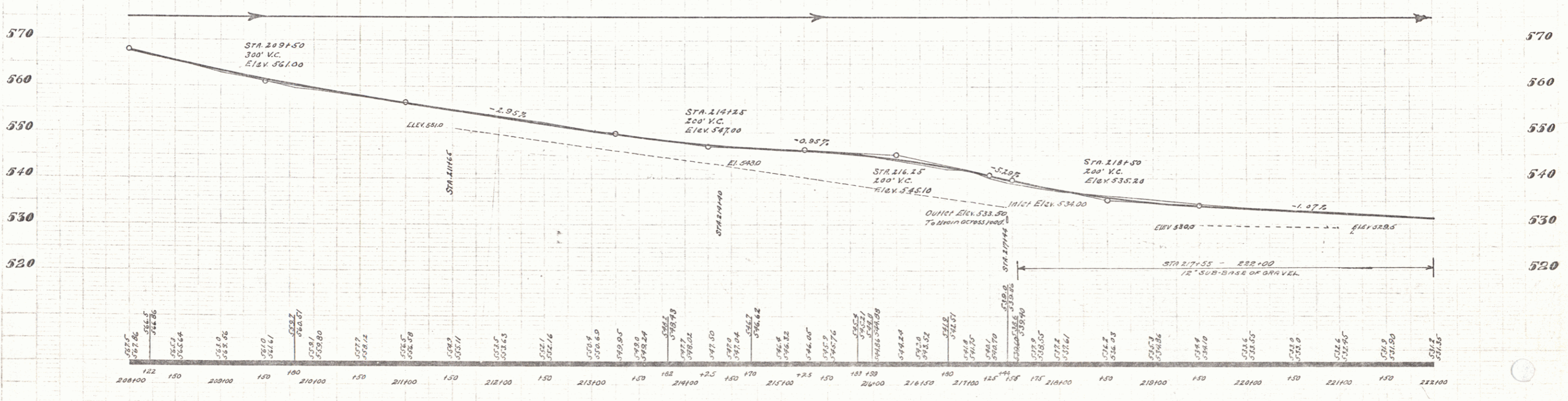
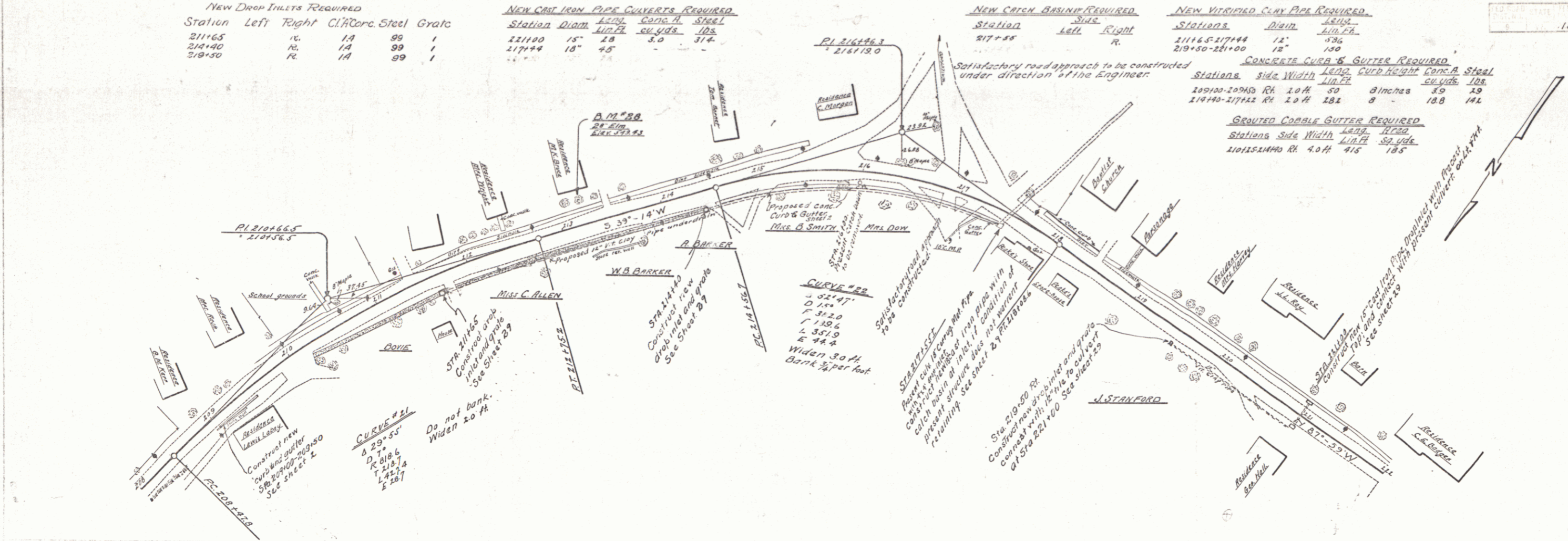
Stations	Diam.	Length	Conc. H.	Steel
21165-21714	12"	549'		
21950-22110	12"	160'		

CONCRETE CURB & GUTTER REQUIRED

Stations	Side	Width	Length	Curb Height	Conc. A	Steel
20910-20940	RH	2.0'	30'	8 inches	3.9	2.9
21940-21742	RH	2.0'	182'	8"	18.8	14.2

GRADED COBBLE GUTTER REQUIRED

Stations	Side	Width	Length	Depth
21055-21440	RH	4.0'	415'	18.5"



B.M. #26 Spike in root of 28 Elm, 23 ft. left of Sta. 213+34, Elev 549.43

12

WOOD GUANO RAIL REQUIRED

Culvert Station	Left	Right
223184	24	24
226145	24	24
227154	24	24
226118	24	24

CABLE GUANO RAIL REQUIRED

Station	Left	Right
225150-225196	294	-
226190-226200	200	-
222160-222112	164	-

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diag.	Length	Conc. Pipe	Cast Iron	Steel
226145	15"	40	1.5	1.2	174
229175	30"	51	3.7	-	106
226154	15"	44	-	2.3	33
226118	18"	36	-	2.3	33
223184	18"	39	-	3.0	33
222190	18"	36	-	1.5	17

CORRUGATED METAL PIPE (PAVED INVERT) KEY DRIVEWAY PIPE CULVERTS REQUIRED

Station	Side	Diag.	Length	Conc. Pipe	Cast Iron	Steel
228100	RH	16"	32	-	-	2.1

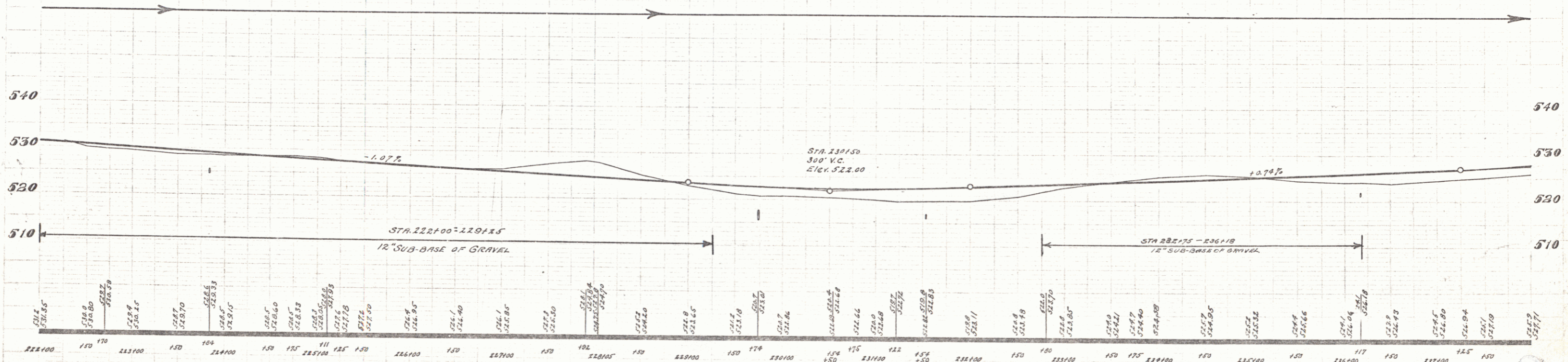
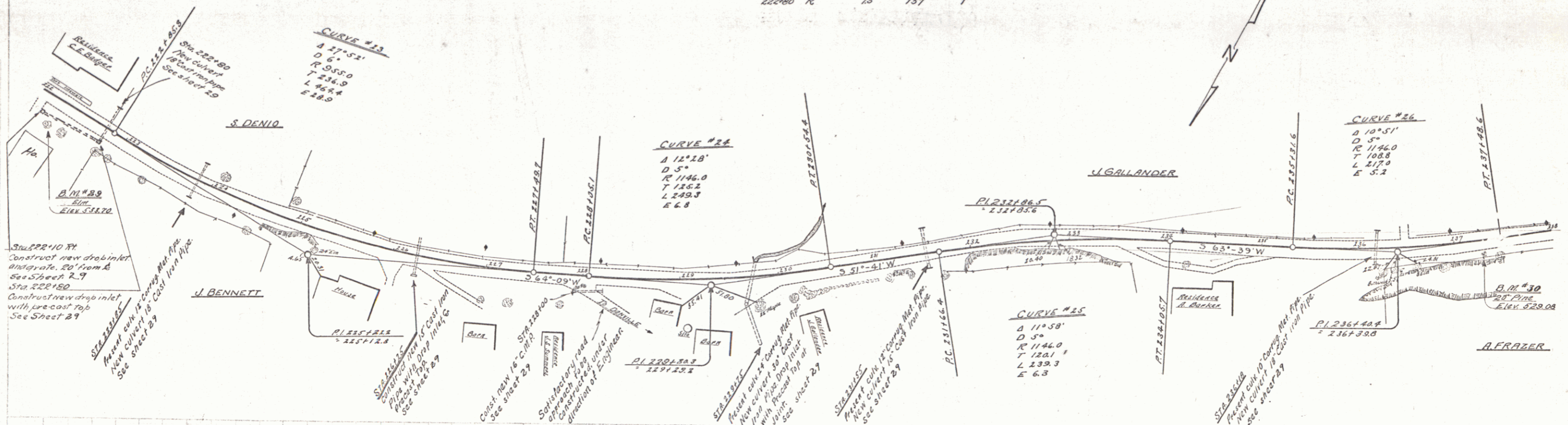
NEW VITRIFIED CLAY PIPE REQUIRED

Sta	Left	Right	Diag.	Length
222110	R	18	99	1
222180	R	15	137	1

DROP INLETS REQUIRED

Sta	Left	Right	Conc. Pipe	Steel	Grate
222110	R	18	99	-	1
222180	R	15	137	-	1

15-G 1929 14-97

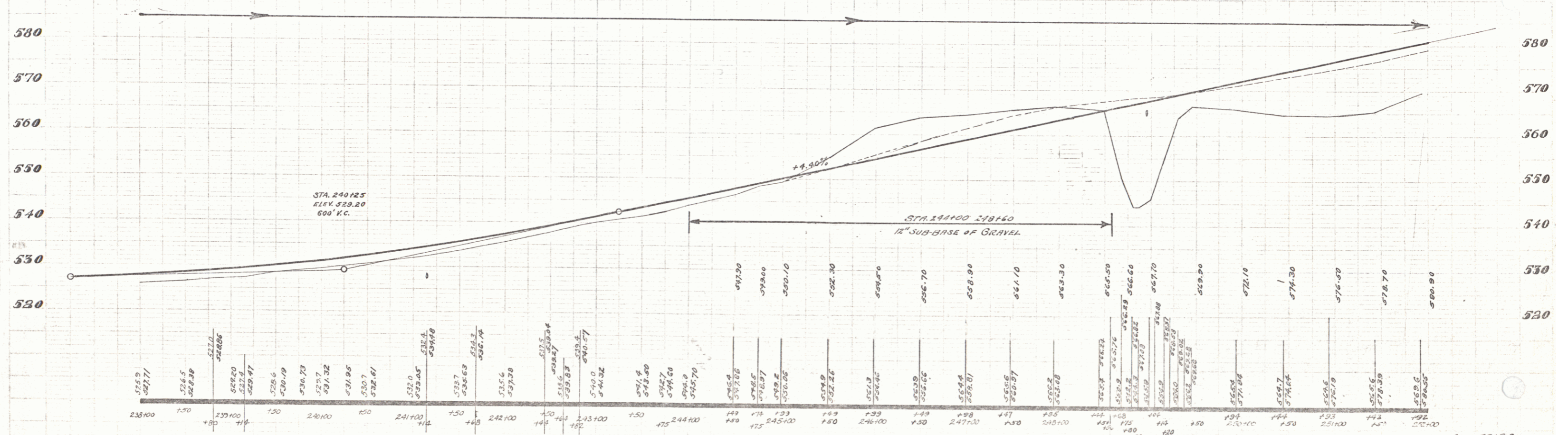
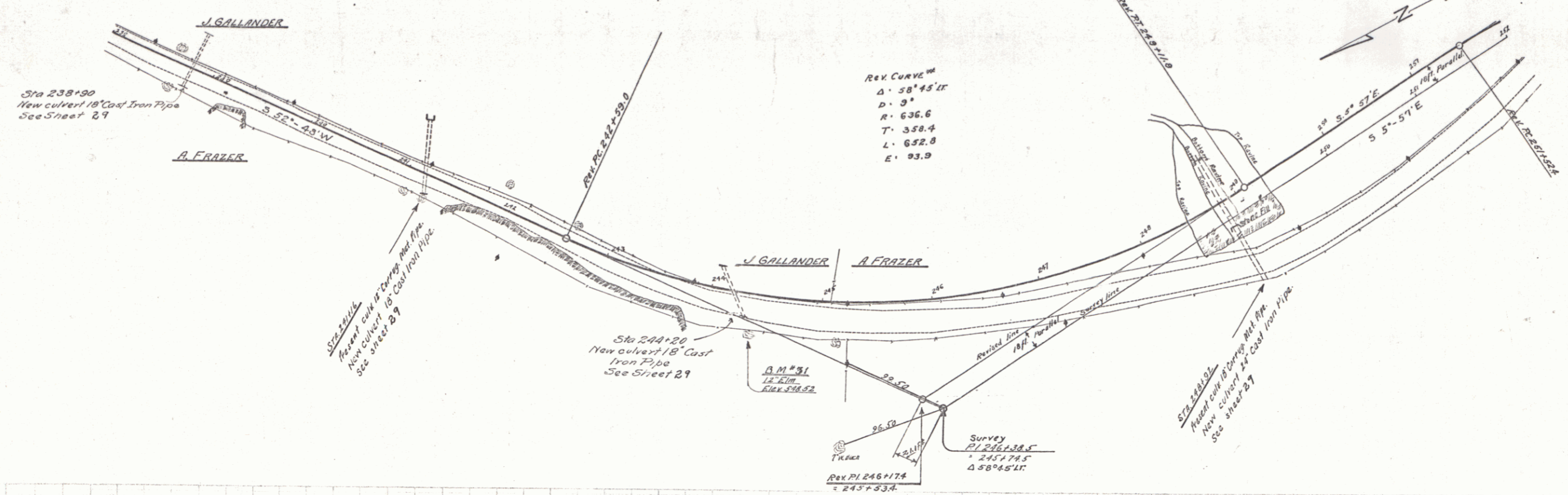


B.M. #29 Spike in root of 36" Elm 25' ft right of Sta. 222100 Elev. 533.70
 B.M. #30 Spike in root of 30" Pine 18' ft right of Sta. 227100 Elev. 532.03

SERIES F.R. 15-G
 SHEET 14 OF 97

15-B 1920 15 97

WOOD GUARD RAIL REQUIRED			CABLE GUARD RAIL REQUIRED			NEW CAST IRON PIPE CULVERTS REQ'D				
Culvert Station	Left	Right	Stations	Left	Right	Station	Diag.	Length	Clearance	Cost
241116	24	24	238100-242000	70	72	241114	18"	60	2.8	1.5
244120	24	24	248160-249132	72	72	248192	18"	72	2.4	2.4
238120	24	24	250100-252100	200		238130	18"	54	3.0	3.0
						244120	18"	42	3.0	3.3



J. GALLANDER
 A. FRAZER
 J. GALLANDER
 A. FRAZER

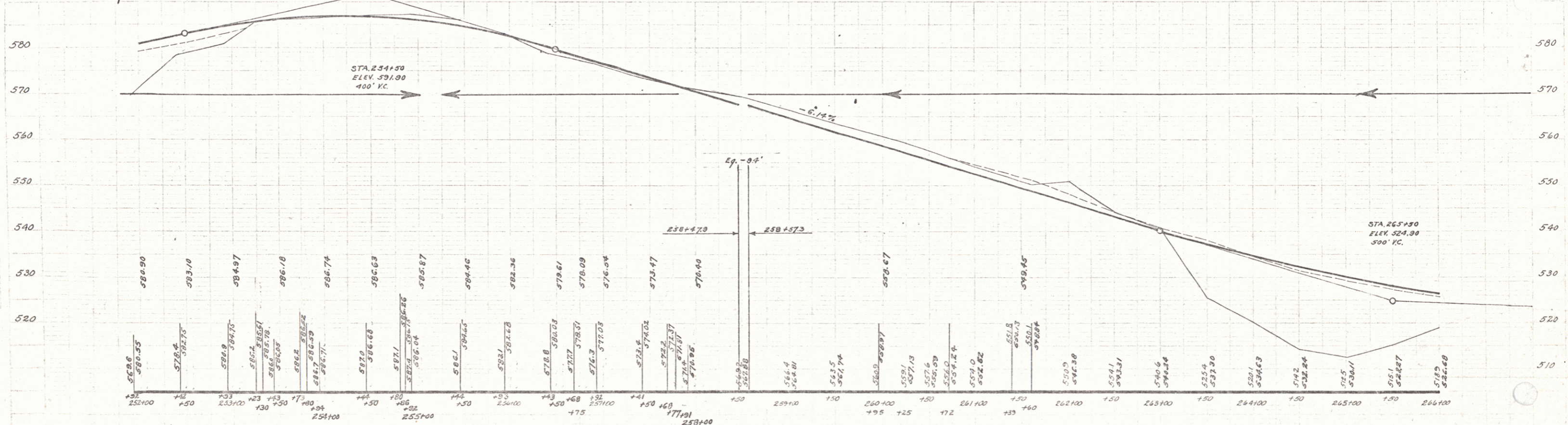
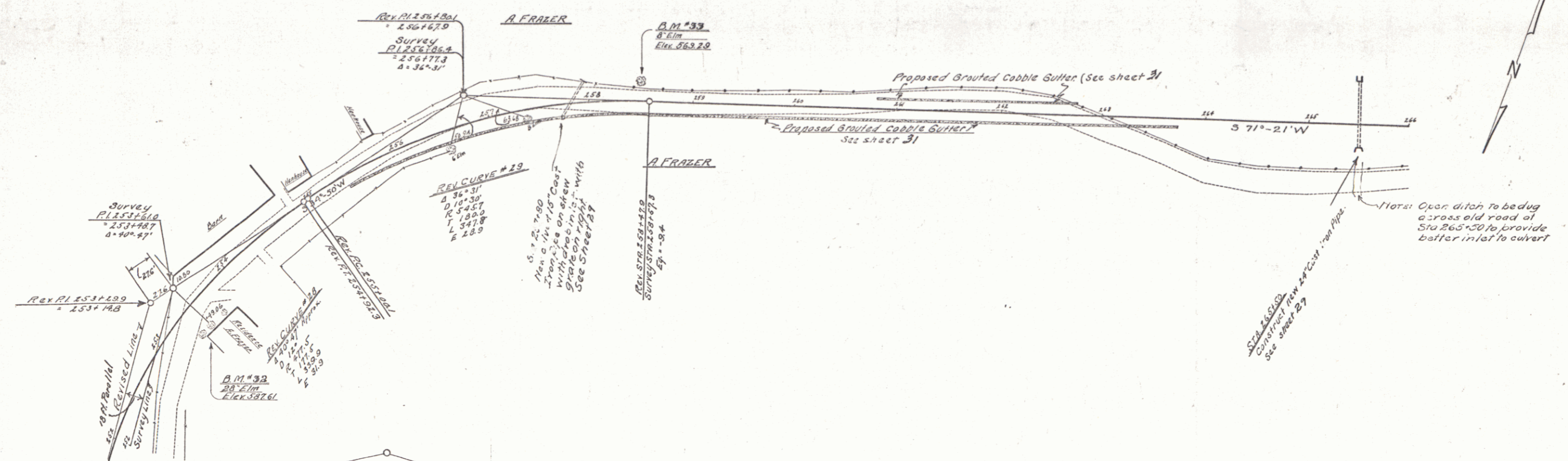
F. D. WARD
 E. FRANKLIN
 E. FRANKLIN

B.M. 31 SPIKE IN TRUNK OF 12" ELM, 275 FT. E. OF STA 244+00 - ELEV 548.52

SERIES E 15-B
SHEET 15 OF 97

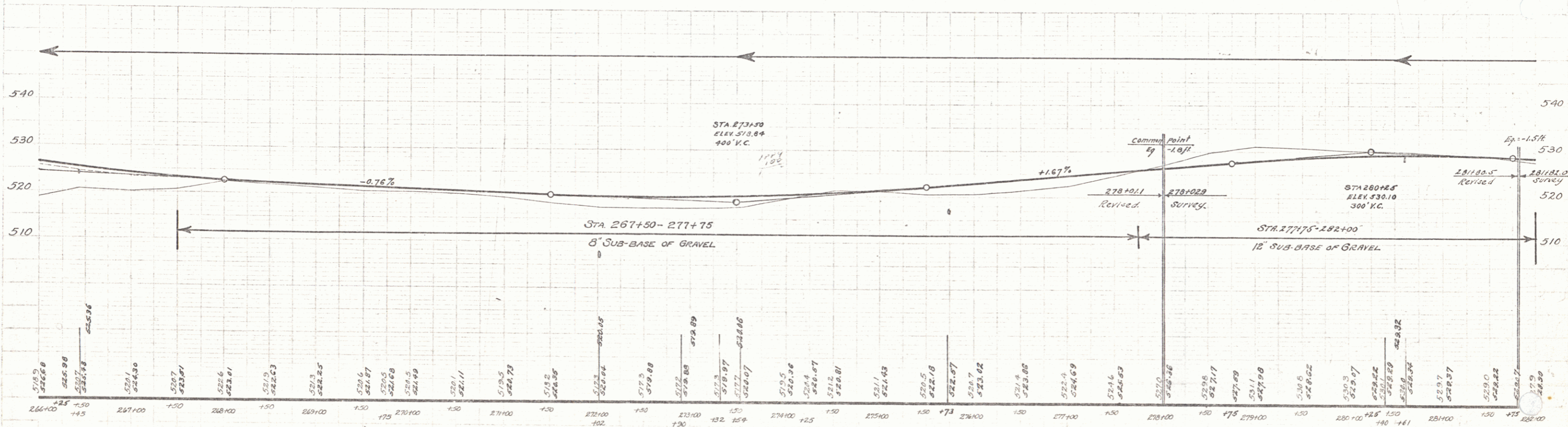
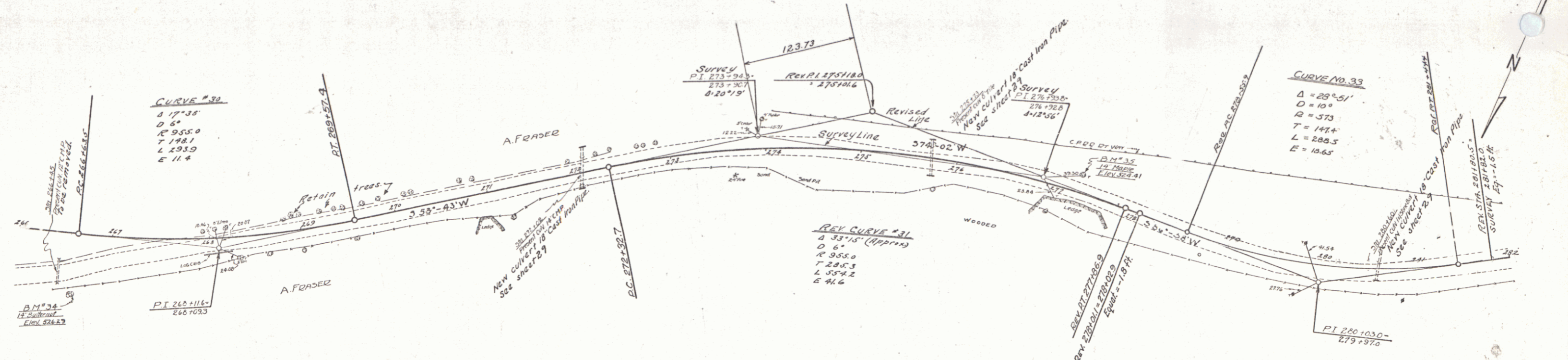
14

Cable Guard Poles Required				New Cast Iron Pipe Culverts Required				Grouted Cobble Gutter Required			
Stations	Left	Right		Station	Side	Width	Area	Station	Side	Width	Area
252100-252102	-	12		257+00	24'	66	58	259100-263175	EA	2.0H	82.5
254100-254104	-	124		257+00	15'	42	26	261100-262175	EA	2.0H	19.5
257150-261100	-	336									
262150-266100	-	352									
267150-266100	-	156									



B.M. #32 SPIKE IN FOOT OF 28' ELM, 22.5 FT. OF STA 253+45 - ELEV. 587.41
 B.M. #33 SPIKE IN TRUNK OF 8' ELM, 16 FT. OF STA 258+47 - ELEV. 569.29

WOOD GUARD RAIL REQUIRED			CABLE GUARD RAIL REQUIRED			NEW CAST IRON PIPE CULVERTS REQUIRED		
Culvert Station	Left	Right	Stations	Left	Right	Station	Diam.	Length
272102	24	24				272102	18"	33
275173	24	24	271100-273+00	200'	-	275173	18"	33
280160	24	24				280160	18"	33



DM # 34 SPIKE IN FOOT OF 14" BUTTERNUT, 62 FT. E. OF STA 266+60 - ELEV 526.29
 DM # 35 SPIKE IN FOOT OF 14" MAPLE, 17.5 FT. E. OF STA 277+51 - ELEV 524.41

SHEET # 15-B
 17 OF 97

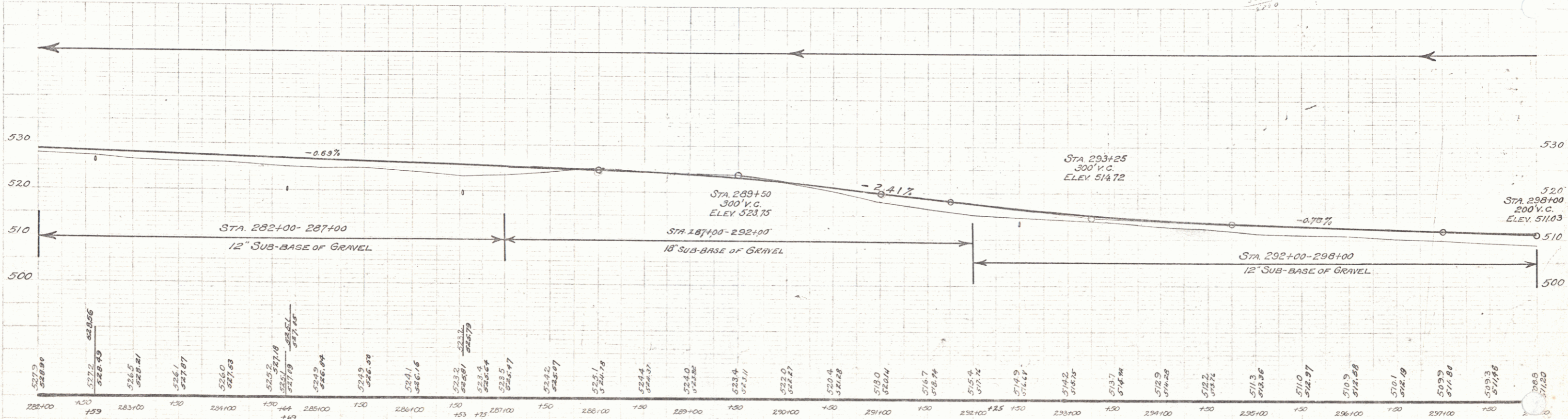
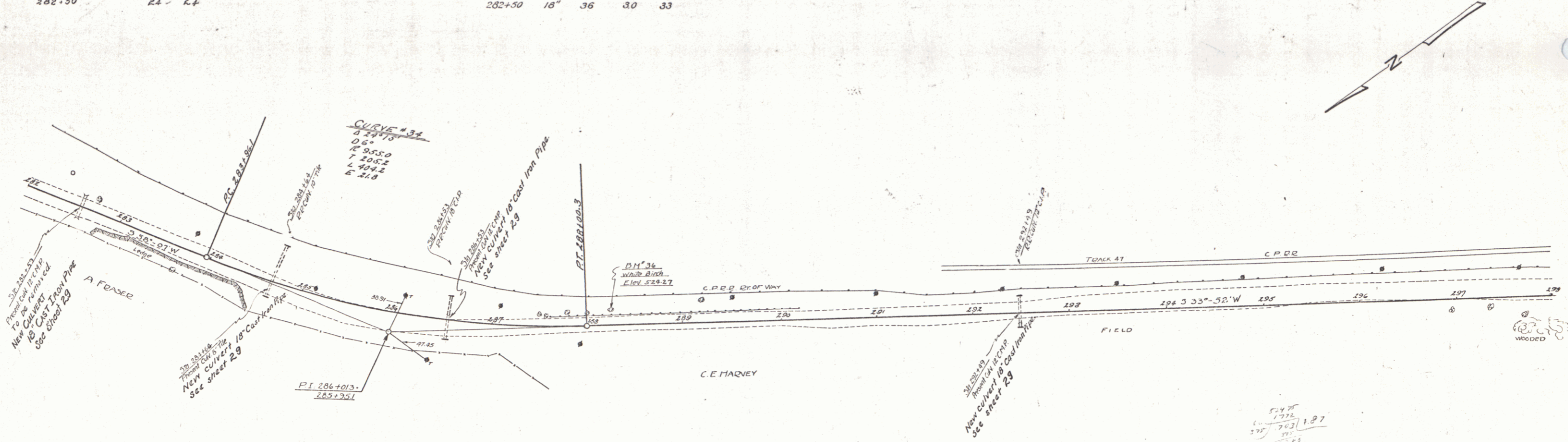
E. D. WOOD
 E. FRASER
 1928
 1925
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E. D. WOOD
 E. FRASER
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WOOD GUARD RAIL REQUIRED			CHALK GUARD RAIL REQUIRED			NEW CAST IRON PIPE CULVERTS REQUIRED			
Culvert station	Left	Right	Stations	Left	Right	Station	Diam.	Length	Grade
284+66	-	24	284+00-284+00	48	-	284+66	18"	57	3.0
286+49	-	24	286+00-286+00	360	-	286+49	18"	45	3.0
292+49	24	24	292+00-292+00	-	-	292+49	18"	33	3.0
292+50	24	24	292+00-292+00	-	-	292+50	18"	36	3.0

DATE 15-6 1928 18 97

A. D. Wood
 E. Flanagan
 11/28
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A. D. Wood
 E. Flanagan
 11/28
 11/28

B.M. #36 SPIKE IN ROOT OF WHITE BIRCH, 14 FT. LT. OF STA 285+24 - ELEV. 524.27

SERIES FR# 153
Sheet 18 of 97

WOOD GUANO RAIL REQUIRED

Station	Left	Right
301165	24	24
307132	24	24
308150	24	24

CABLE GUANO RAIL REQUIRED

Stations	Left	Right
304140-308100	400	400
308177-309125	64	48

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Side	Conc. A	Steel	Grate
301165	24"	42"	3.0	33"
307132	15"	36"	2.3	33"

NEW DROP INLET REQUIRED

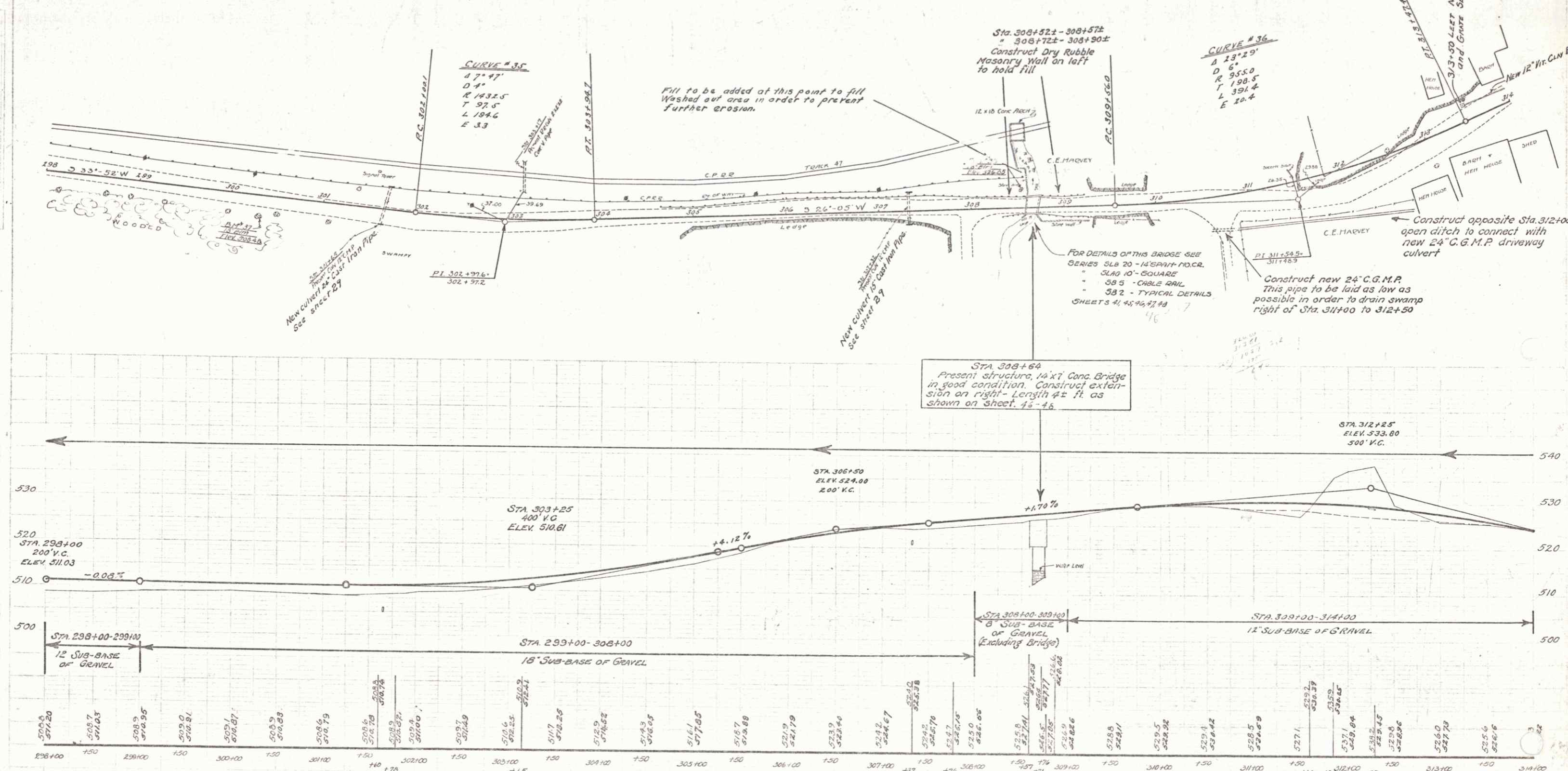
Sta.	Left	Right	Diam	Length
313+50	24"	26 ft.		

VITRIFIED CLAY PIPE REQUIRED

Stations	Side	Diam	Length
313+50-311+00	Left	12"	50 ft.

CORR. GALV. METAL PIPE (PAVED INVERT)
NEW DRIVEWAY PIPE CULVERTS REQUIRED
 Sta. Left Right Diam Length
 310+50 Right 24" 26 ft.

DRY RUBBLE MASONRY REQUIRED
 Station Left
 308+52± - 308+57± } 6 cu. yds.
 308+75± - 308+90± }



B.M. #37 SPIKE IN FOOT OF 15' ELM, 20.5 FEET OF STA. 300+30 - ELEV. 508.48
 B.M. #38 SPIKE IN TRUNK OF 18' ELM, 13.5 FT. LT. OF STA. 308+53 - ELEV. 526.05

SERIES # 15-6
 Sheet 18 of 97

WOOD GUARD RAIL REQUIRED

Curv. Station	Left	Right
3161.90	24	24
3231.69	24	24

CABLE GUARD RAIL REQUIRED

Stations	Left	Right
31.5150-3181.00	250	

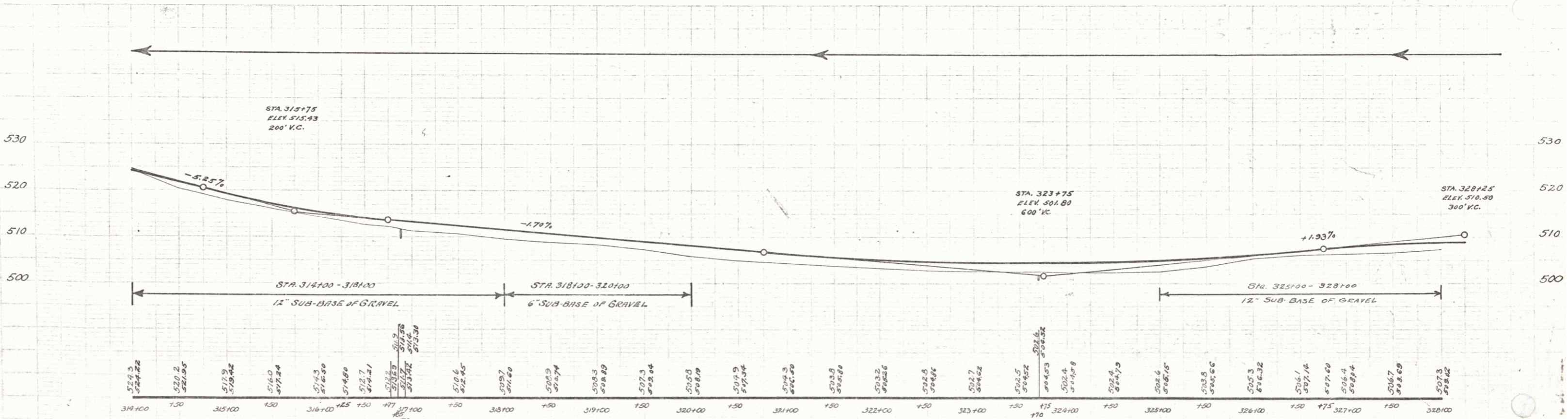
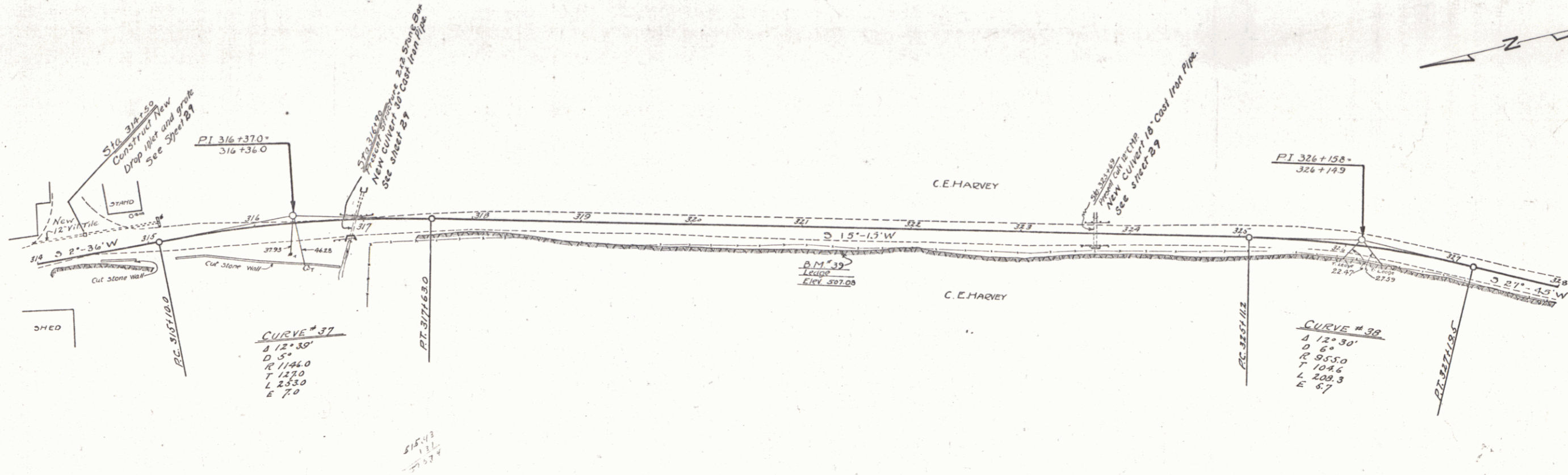
NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Size	Length	Cont. A	Cont. B	Steel
3161.90	30"	42'	2.2		53
3231.69	18"	33'		1.5	17

NEW VIT. CLAY PIPE REQUIRED

Sta.	Size	Length	Cont. A	Cont. B	Steel
314+00 to 315+00	18"	110 ft	1.4	0.7	116"

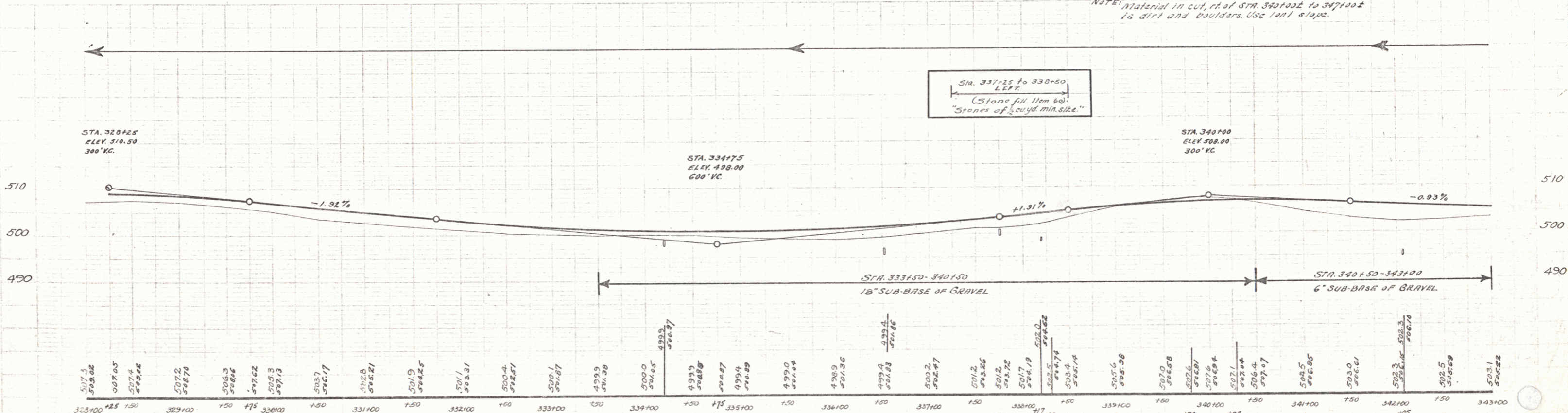
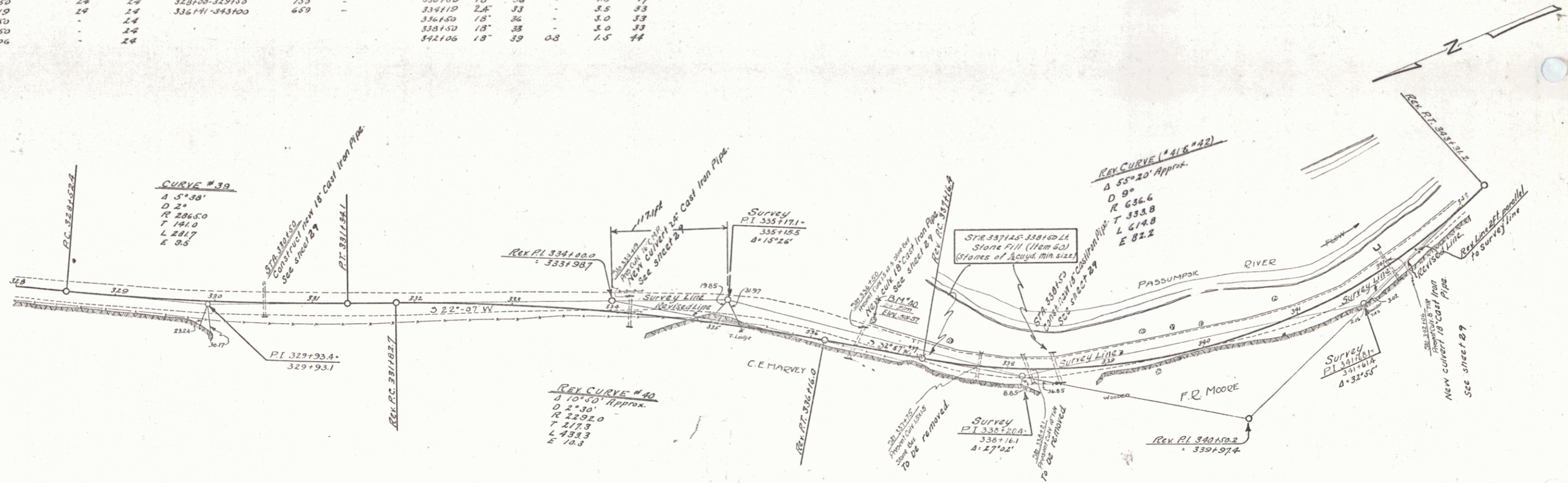
15-B 1929 20 97



B.M. # 39 PRINT SPOT ON LEDGE, 20 FT. E. OF STA. 321+36 - ELEV. 507.08

SERIES FR # 15-B Sheet 10 of 97

WOOD GUANO RAIL REQUIRED			SCALE GUANO RAIL REQUIRED			NEW CAST IRON PIPE CULVERTS REQUIRED			
Culvert Station	Left	Right	Stations	Left	Right	Station	Diag.	Length	Cost
330+50	24	24	328+00-329+50	150	-	330+50	18"	36	8.5
334+50	24	24	336+00-343+00	600	-	334+50	18"	36	8.5
336+50	-	24	-	-	-	338+50	18"	36	8.5
338+50	-	24	-	-	-	342+00	18"	36	8.5
342+00	-	24	-	-	-				

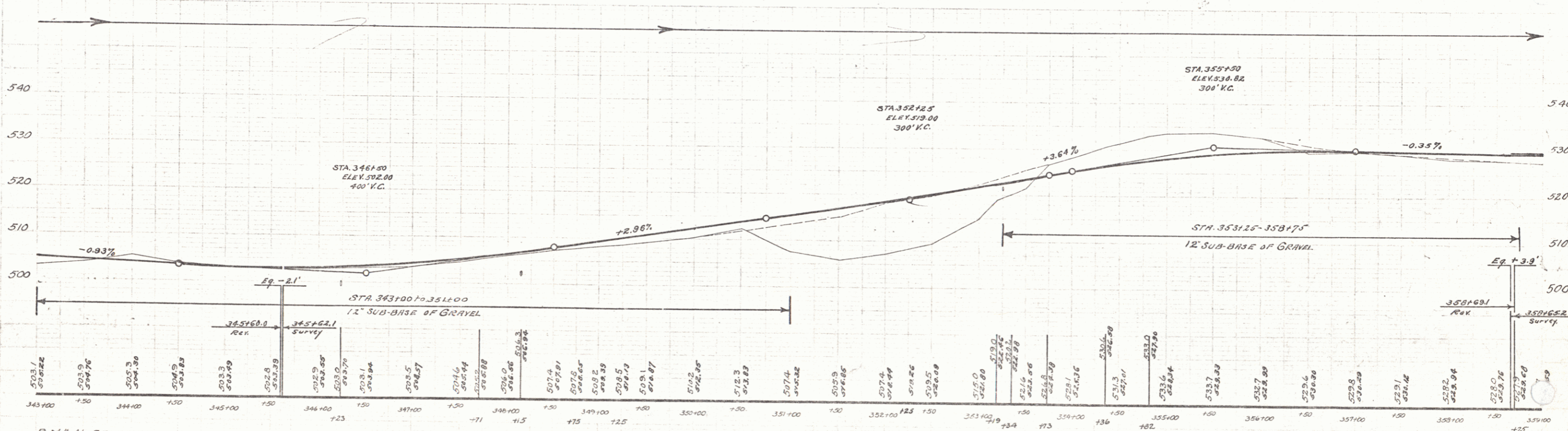
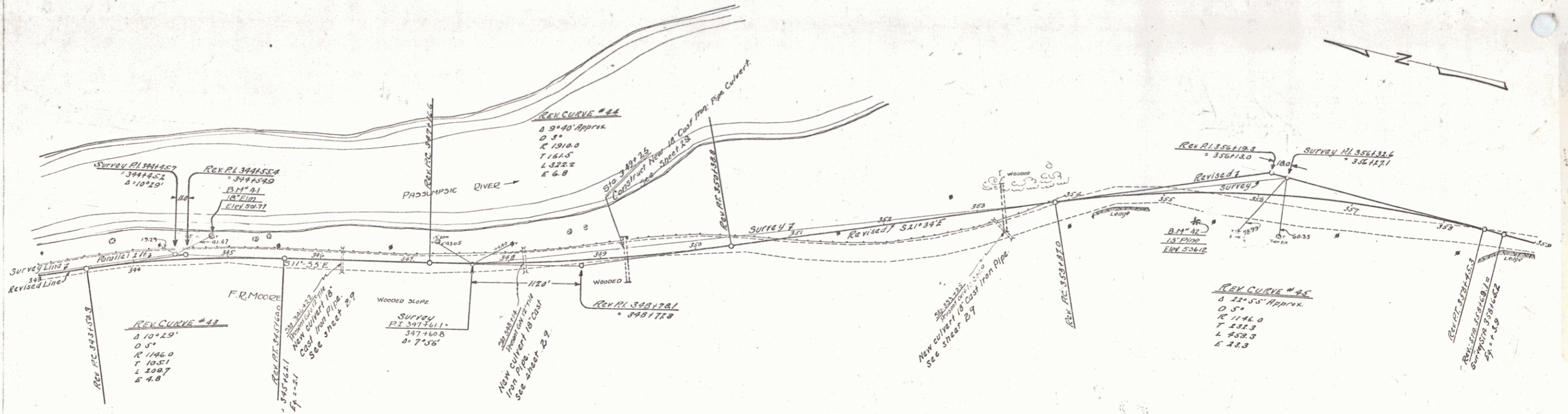


DM #40 Spike in foot of 24" Elm, 13.8 ft. of 579 336+38 - Elev 501.57

SHEET 21 of 27

WOOD GUARD RAIL REQUIRED				CABLE GUARD RAIL REQUIRED				NEW CAST IRON PIPE CULVERTS REQUIRED					
Culvert Station	Left	Right	Stations	Left	Right	Stations	Left	Right	Station	Length	Center	Center	Steel
346+22		24	343+00-343+77	1077			346+22	18'	59'	0.8	1.5'	44	
348+15		24					348+15	18'	36'	0.8	1.5'	44	
353+19		24					353+19	18'	57'	0.8	1.5'	44	
349+25		24					349+25	18'	33'	0.8	1.5'	44	

ROAD STATE ROAD LEGAL SHEET
 DIST. NO. 156 1929 28 97



B.M. # 41 SPIKE IN TRUNK OF 18' ELM, 19.3 FT. LT. OF STA. 344+13.3 - ELEV. 501.77
 B.M. # 42 SPIKE IN FOOT OF 13' PINE, 2.5 FT. RT. OF STA. 355+31 - ELEV. 536.12

SHEET NO. 156
 SHEET 28 OF 97

WOOD GUARD RAIL REQUIRED		
Culvert Station	Left	Right
361+98	32	24
366+05	-	24

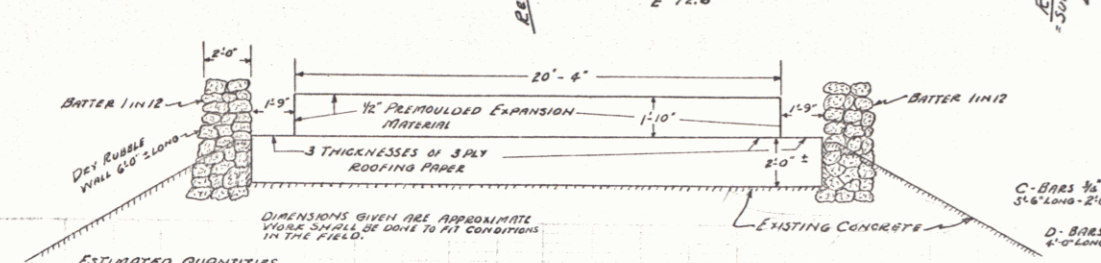
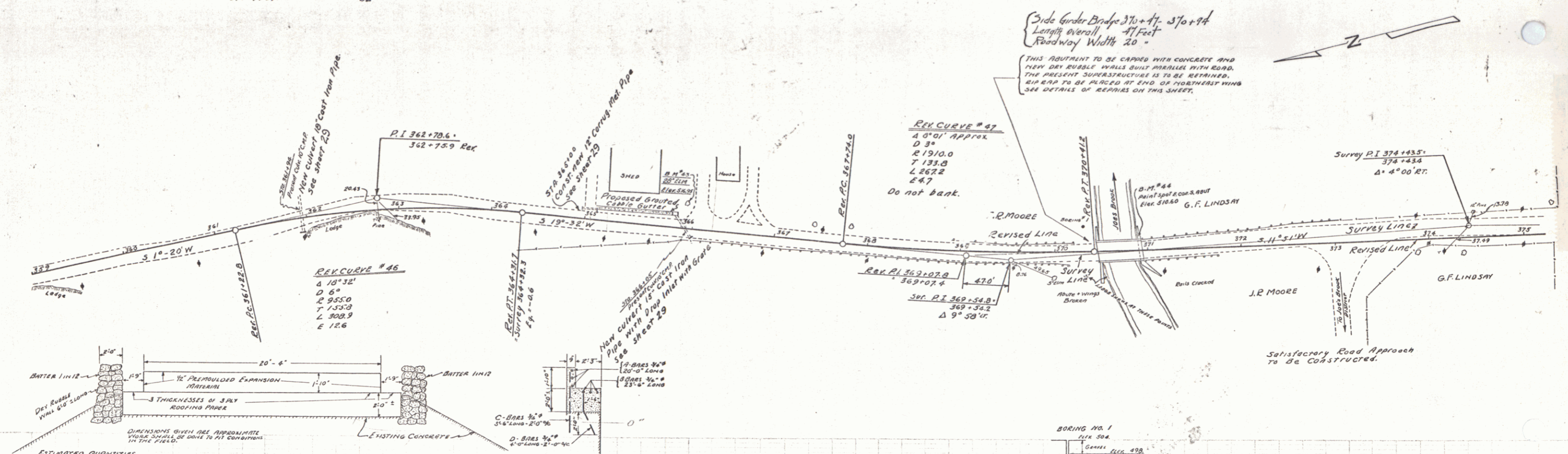
CABLE GUARD RAIL REQUIRED		
Stations	Left	Right
369+92-370+40	-	48'
369+92-370+40	40'	-
370+94-371+02	-	20'
370+94-371+02	20'	-

NEW CAST IRON PIPE CULVERTS REQUIRED				
Station	Long Cont. A	Cont. B	Steel	D. Grate
361+94	18'	39'	1.5	17
366+05	15'	32'	1.4	99

NEW DRIVEWAY PIPE CULVERTS REQUIRED			
Station	Side	Diam.	Length
365+00	Lt	12"	16'

GRAVELLED COBBLE GUTTER REQUIRED			
Stations	Side	Width	Area
365+10-365+94	Lt	3.0 ft	70
	Rt	3.0 ft	86

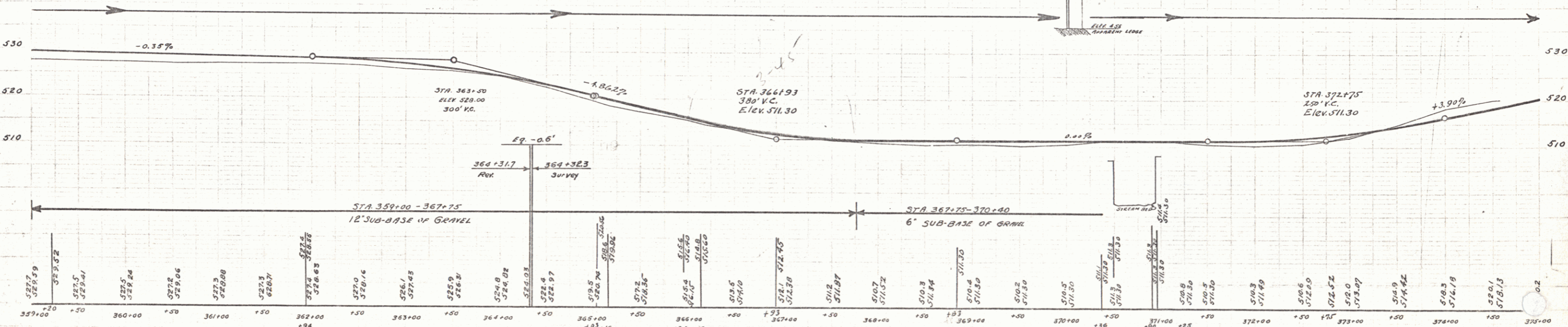
FED. DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	V	15-6	1929	23	97



ESTIMATED QUANTITIES

CONC. CLASS "A" 7.0 CY
 REIN. STEEL 380 LBS.
 DRY RUBBLE MASONRY 6 C.Y.
 RIP RAP 10 BANK PROTECTION 10 C.Y. (1/2 cu ft per sq. ft.)

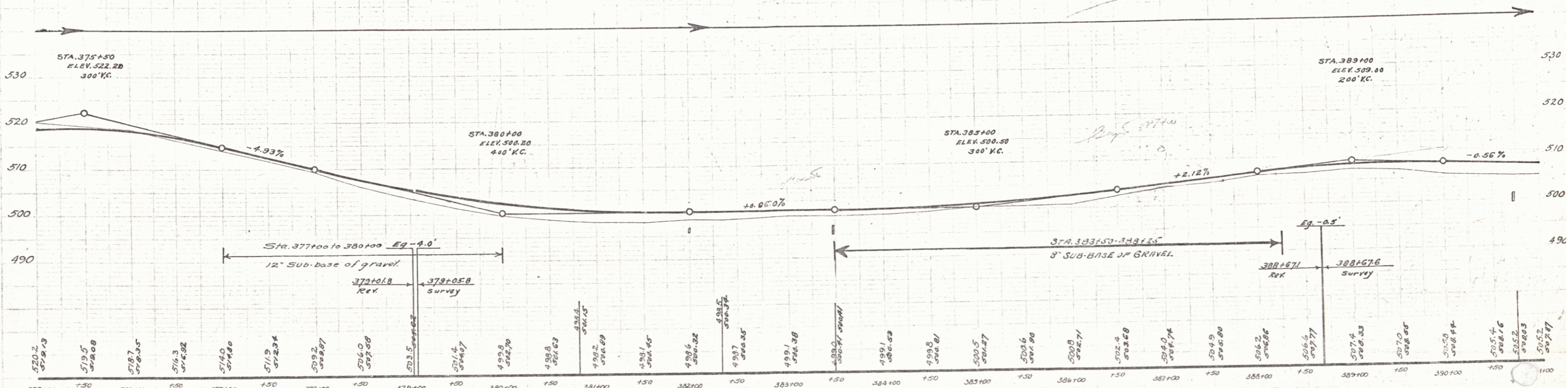
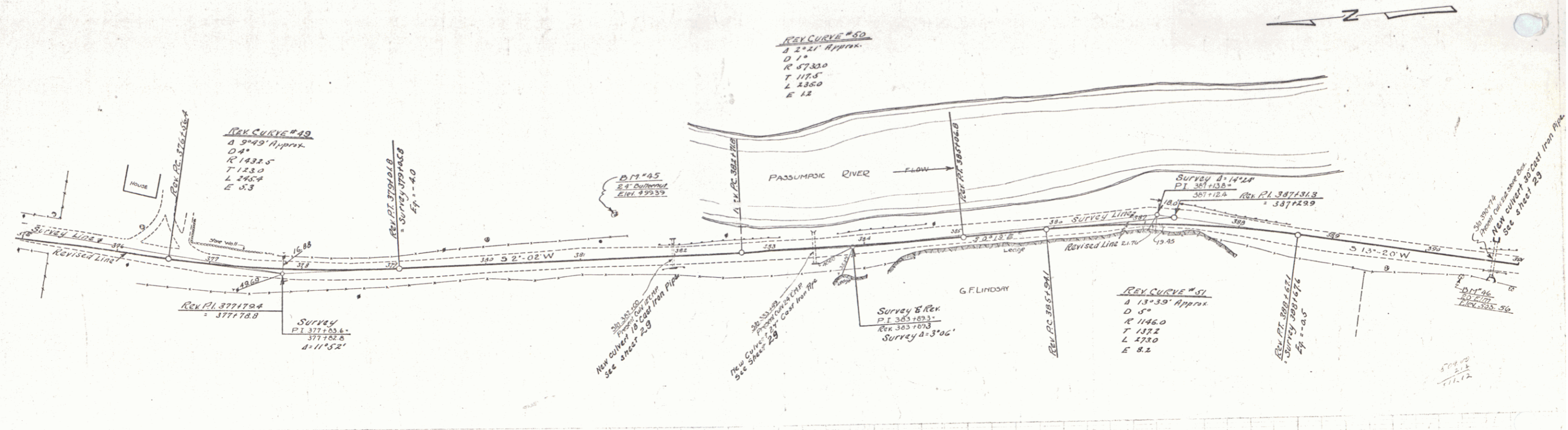
DETAIL OF REPAIRS BRIDGE AT STA. 370+75



D.M. # 43 SPIKE IN ROOT OF 20" ELM, 23 FT LT. OF STA. 366+06 - ELEV. 516.95
 D.M. # 44 PRINT SPOT ON EAST CORNER OF SOUTH ABUTMENT, 12.5 FT LT. OF STA. 370+90 - ELEV. 510.60

SERIES PR 15-6
 Sheet 23 of 97

Wood Guard Rail Required			CABLE GUARD RAIL REQUIRED			NEW CAST IRON PIPE CULVERTS REQUIRED		
Culvert Station	Left	Right	Stations	Left	Right	Station Diam.	Length	Cost
382+00	24	-	381+88-389+00	712	-	381+00 10"	35	3.0
383+47	24	-	389+25-390+85	69	-	389+73 30"	39	12.0
						383+47 24"	36	46.0



D.M. # 45 SPIKE IN ROOT 24" BUTTERNUT, 26 FT. LT. OF 379 381+41 - ELEV 499.39
 D.M. # 46 SPIKE IN ROOT 20" ELM, 18 FT. RT. OF 379 390+42 - ELEV 503.56

SECTION # 15-G
 Sheet 84 of 97

WOOD GUARD RAIL REQUIRED

Culvert Station	Left	Right
393171	14'	14'

NEW CAST IRON PIPE CULVERTS REQUIRED

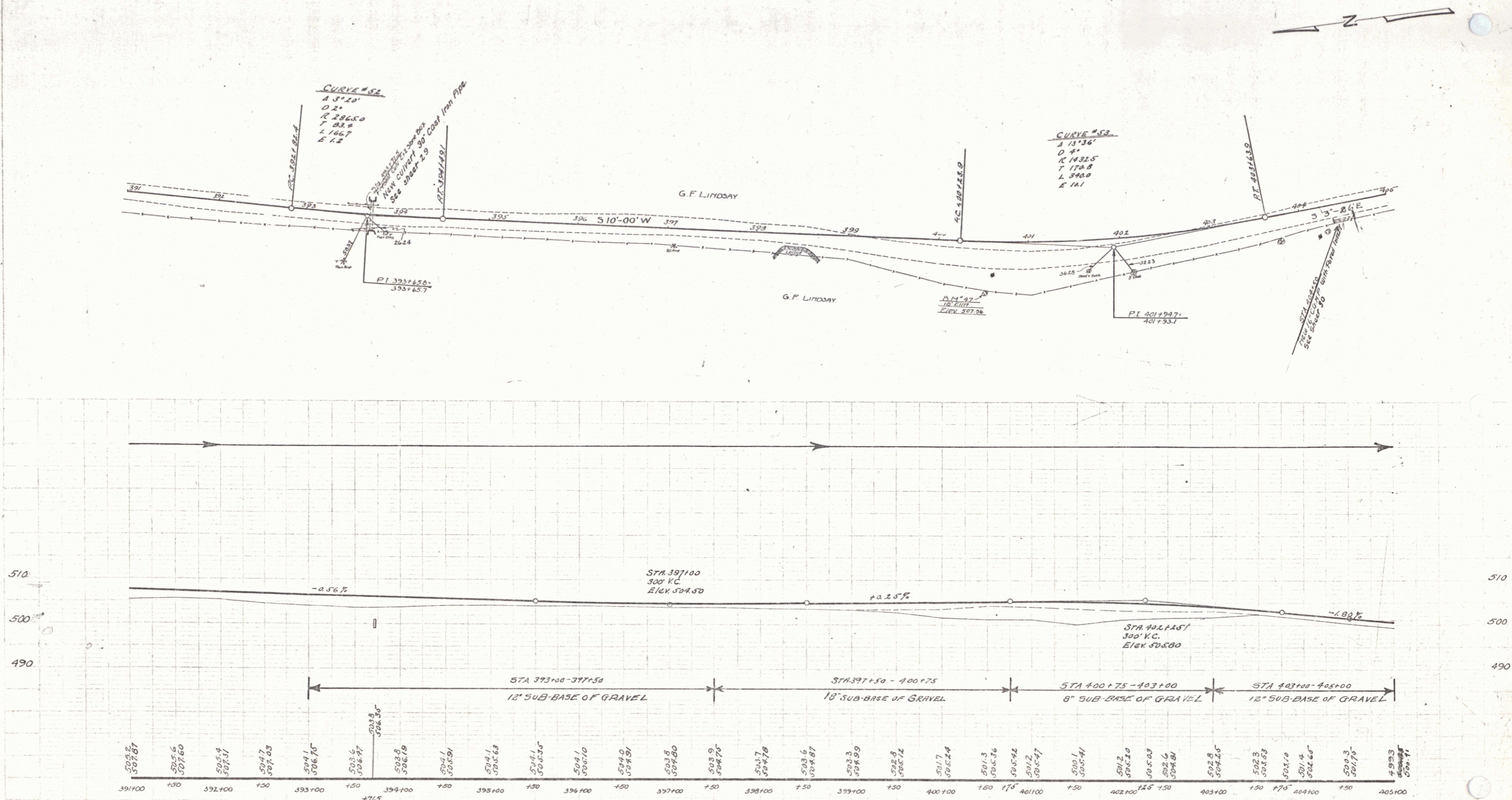
Station	Diam.	Length	Material
393171	30"	36'	3.2 5B

NEW DRIVEWAY PIPES REQUIRED

Station	Diam.	Length	Material
401150	16"	277'	2.1 G.3d

FED. ROAD STATE PROJ. NO. 15-G-1929 2.5 97

B.D. Wood
 E. Flanagan
 1928
 1923
 1925



SERIES # 15-G
Sheet 25 of 97

WOOD GUARD RAIL REQUIRED

CULV. STA.	LEFT	RIGHT
405130	24	24
408186	24	24
411138	24	24
414105	24	24
418172	24	24

CABLE GUARD RAIL REQUIRED

Stations	Linear ft.	Left	Right
418150	150		
420100			

NEW C.I.P. CULVERTS REQUIRED

STATION	DIAM.	LENG.	CONC.	'B' STEEL
405130	18"	39'	-	30 33*
408186	18"	39'	-	30 33*
411138	18"	42'	-	30 33*
414105	30"	39'	3.2	58*
418172	24"	36'	2.9	104*

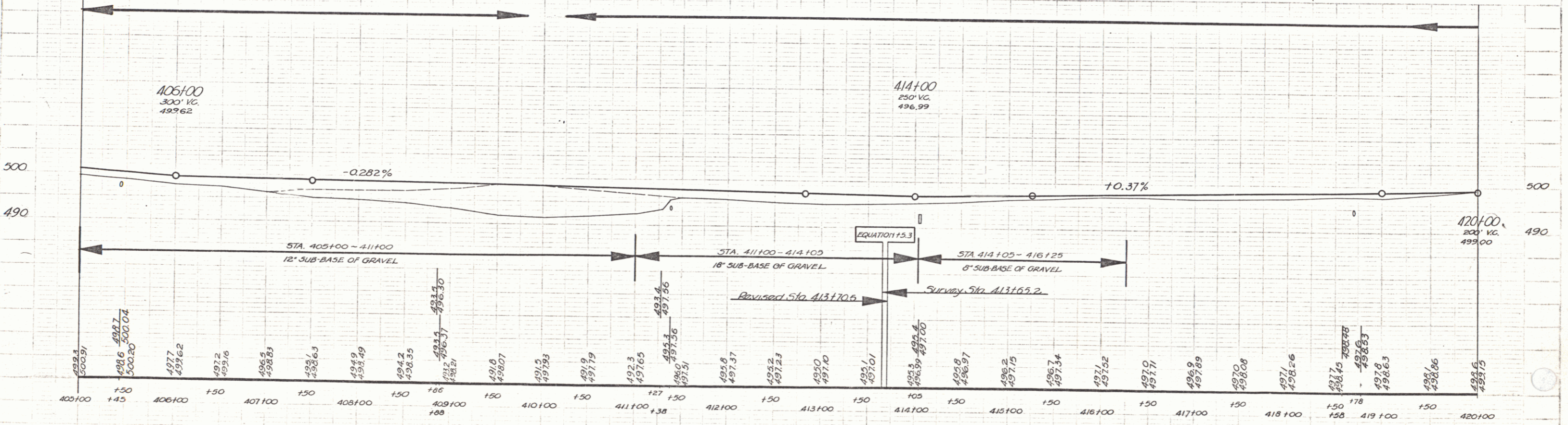
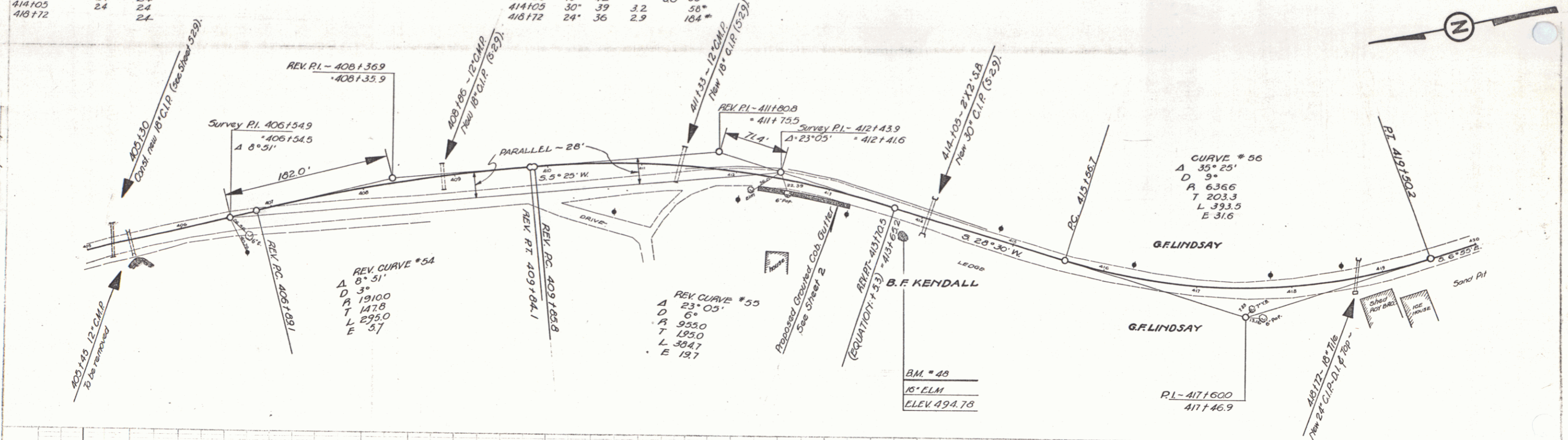
GRouted COBBLE GUTTER REQUIRED

Stations	Side-Width	Length-ft.	Area-syds.
412125	Rt. 30'	150'	50
413175			

FD-ROAD	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				15-6	26-97

4-D Woods
Flanagan, J. 28
Revised from print, 1936

Woods-Flanagan
Revised - G-1936



B.M. # 48 - Spine in root of 16" Elm, 23ft right of Sta. 413185 - Elevation: 494.78.

SERIES FR 10 15 6
SHEET 26 OF 97

WOOD GUARD RAIL REQUIRED

Culvert Station	Left (ln.ft.)	Right
423+01	24	-
426+06	-	24

CABLE GUARD RAIL REQUIRED

Stations	Left (ln.ft.)	Right
420+00-426+00	690	-
420+50-421+70	-	120
421+40-428+10	64	-

NEW CAST IRON PIPE CULVERTS REQUIRED

Station	Diam	Length (L)	Conc. A (cy)	Conc. B	Steel (lbs.)
423+01	18"	33	3.0	3.3	3.3
426+06	24"	36	4.6	3.3	3.3

NEW R.C. BOXES REQUIRED

Station	Size	Conc. class A	Steel
420+07	3'x3'	16.0 cu yds	1068 lbs.

NEW CAST IRON PIPE REQ'D.

Station	Diameter	Length (ln.ft.)
428+38	18"	48
430+00	12"	32
431+15	12"	28
432+10	12"	28

CONCRETE RETAINING WALL REQUIRED

Stations	Concrete class B	Steel
426+00 RT. - 429+75 RT.	82.0 cu yds.	1720 lbs.

GROUTED COBBLE GUTTER REQUIRED

Stations	Side	Width	Length (ln.ft.)	Area (sq yds)
426+10 - 429+75 RT.	30"	360	122	-

D.I. AND GRATES REQUIRED

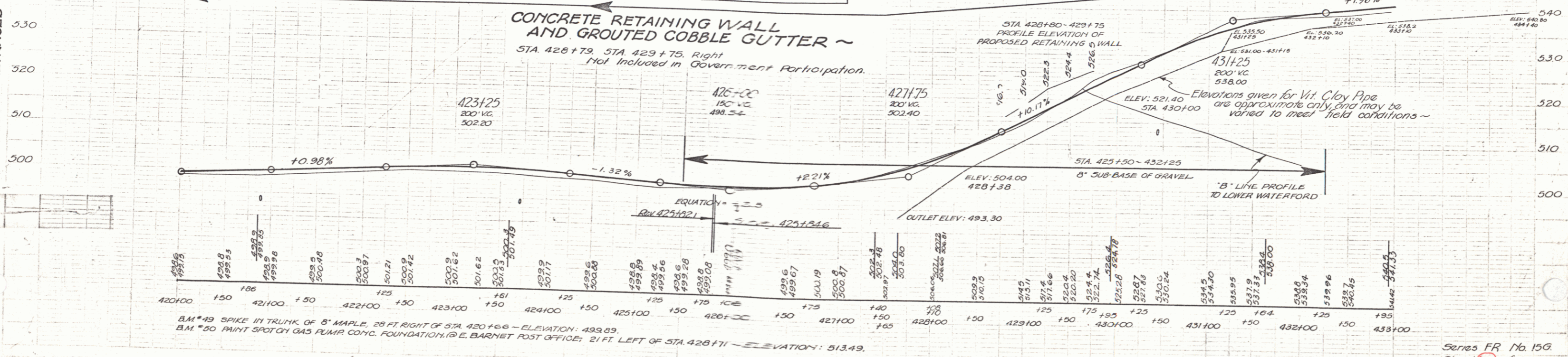
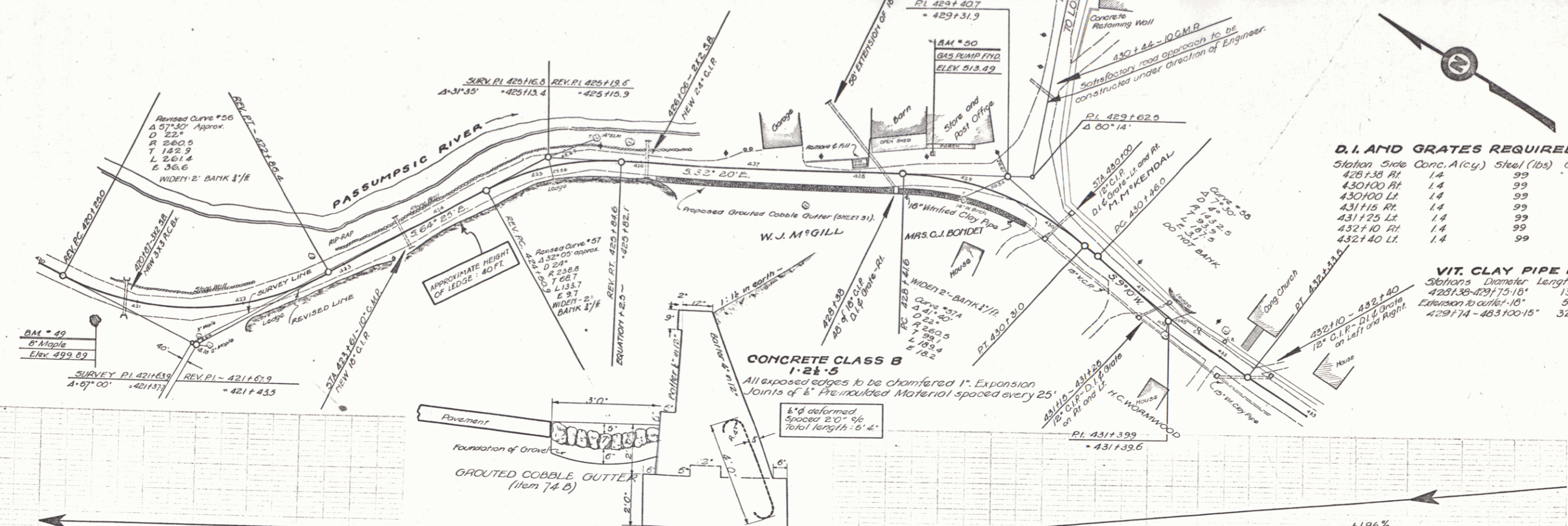
Station	Side	Conc. A (cy)	Steel (lbs)	Grate
428+38	RT.	1.4	99	1
430+00	RT.	1.4	99	1
430+00	LT.	1.4	99	1
431+15	RT.	1.4	99	1
431+25	LT.	1.4	99	1
432+10	RT.	1.4	99	1
432+40	LT.	1.4	99	1

VIT. CLAY PIPE REQ'D.

Stations	Diameter	Length
428+38-429+75	18"	137
Extension to culvert	18"	58
429+14 - 483+00	15"	324

A.D. WOOD OCT
E. FLANAGAN, N. 1928
RETRACED FROM PRINT 1936 R.G.

A.D. WOOD FLANAGAN
RETRACED



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WOOD GUARD RAIL REQUIRED

CULVERT STATIONS	LEFT	RIGHT
445+10	2'-0"	2'-0"
448+00	2'-0"	2'-0"

CABLE GUARD RAIL REQUIRED

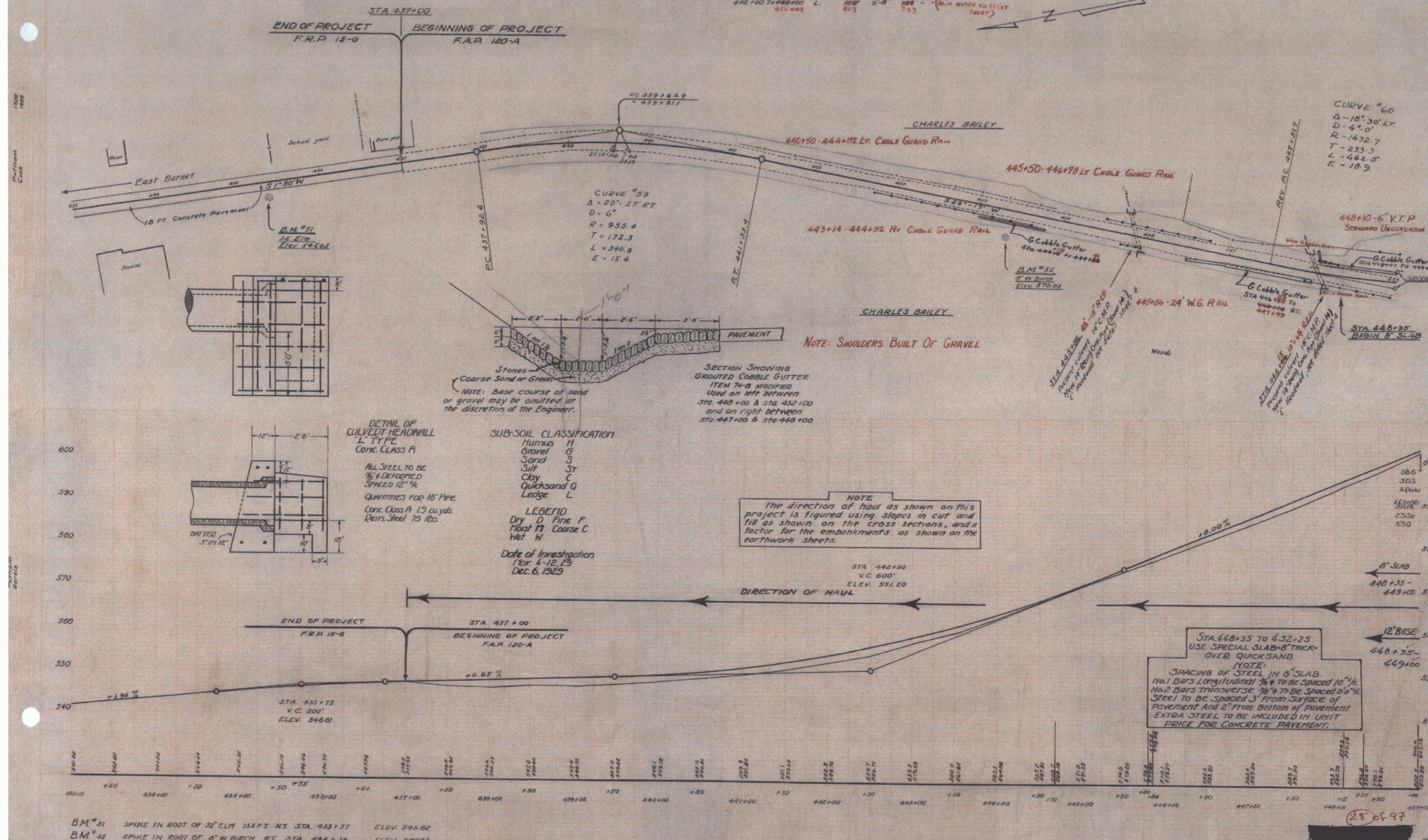
STATIONS	LEFT	RIGHT
440+00 TO 444+00	2'-0"	2'-0"
445+00 TO 448+00	2'-0"	2'-0"
449+14 TO 449+00	2'-0"	2'-0"

NEW REIN. CONC. PIPE CULVERTS REQUIRED

STATIONS	CLASS	LENGTH	CONC. A	CONC. C	REIN. STEEL
448+00	18"	40'	2.5	1.5	1.5
448+00	18"	40'	2.5	1.5	1.5

GROUTED COBBLE GUTTER REQUIRED

STATIONS	CLASS	LENGTH	WORK AREA	REIN. STEEL
444+00 TO 447+00	R	30'	32.3	0.9
447+00 TO 447+00	R	0'	0	0
447+00 TO 448+00	L	10'	10.7	0.3
448+00 TO 448+00	L	0'	0	0



BM #31 SPIKE IN ROOT OF 32' ELM 133 FT RT. STA. 435+37 ELEV. 595.62
 BM #32 SPIKE IN ROOT OF 6" W. BIRCH RT. STA. 444+36 ELEV. 370.63

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