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STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

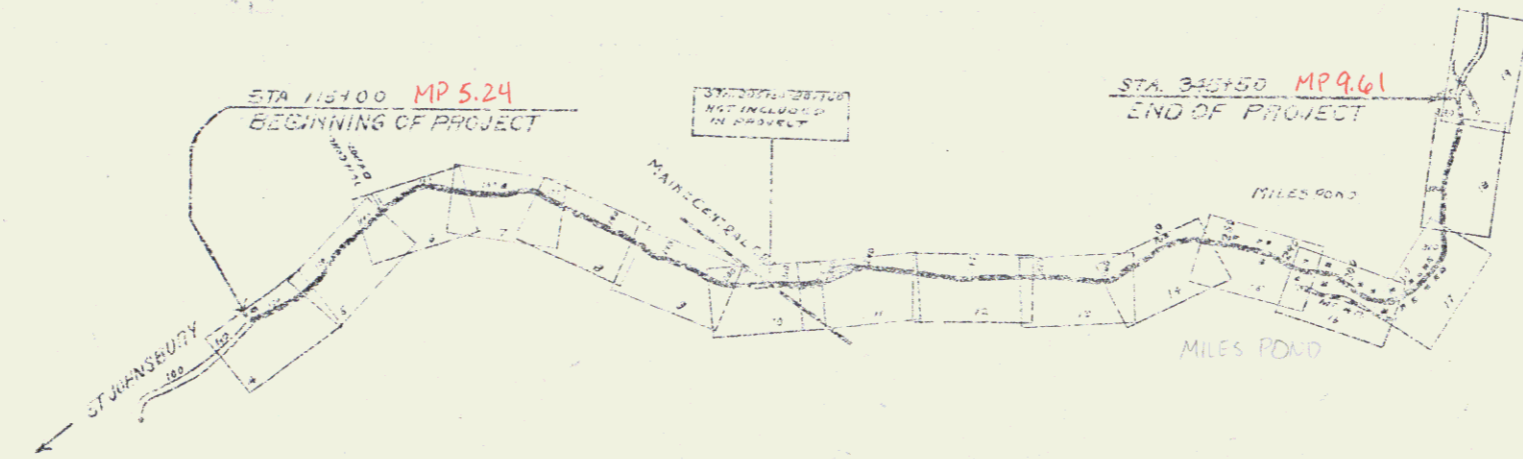
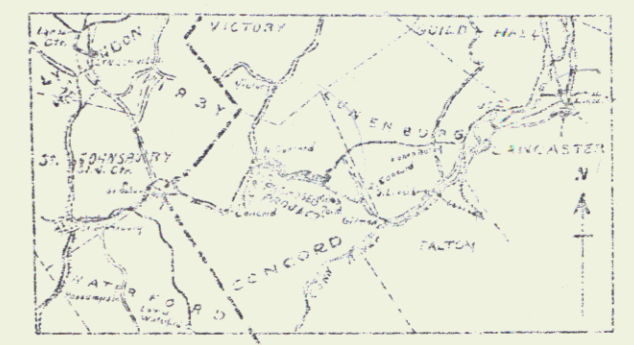
PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
FEDERAL AID PROJECT

TOWN OF CONCORD Pin# 99R148

ST. JOHNSBURY - LANCASTER ROAD

FROM T.L. LAVESQUES RESIDENCE EAST 4327 MILES
TO A POINT 2950 FT. EAST OF RESIDENCE OF R.S. SHIRLAW
LENGTH OF PROJECT 22046.8 FT. - 4327 MILES

POOR ORIGINAL COPY



RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
Town of US &
(To Be Returned To R.O.W. Division)

APPROVED: 214/2003
[Signature]
COMMISSIONER OF HIGHWAYS
SUBMITTED BY ORDER OF THE STATE HIGHWAY DEPARTMENT

SECTION	DESCRIPTION
1	ST. JOHNSBURY
2	CONCORD
3	MILES POND
4	LANCASTER

VERTICAL SIGNS

GROUND ELEVATION	1:100'
GRADE ELEVATION	1:100'

CURVE DATA

DEFLECTION ANGLE	D
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.

Scale -
Title: 1"=1500'
Plan: 1"=150'
Profile: 1"=10'
Cross Sections: 1"=5'

This title sheet was originally designed to show Gov't. Participation portion of Proj. and city. Since the plans were submitted to the Gov't. alterations have been made bringing the Project to the 5/21/03 Plan as shown. Thus the length of the Gov't. section becomes 22,046.8 ft. or 4.327 miles and that of the Non-Gov't. 19,919.1 ft. or 3.834 miles. Length of entire project 41,965.9 ft. or 7.912 miles.

These plans are subject to such revisions as may be required by the Bureau of Public Works or the Chief Engineer.

Project NO 131A

2/4/2003 checked by JLewis

RECOMMENDED FOR APPROVAL

APPROVED

DATE: 2/4/2003

BY: JLewis

SHEET 0 OF 1

WOOD GUARD RAIL REQUIRED

CHY. STA.	LEFT	RIGHT
92+74	24'	24'

CABLE GUARD RAIL REQUIRED

STA. TO STA.	LEN. LENS. COST DAY LENS.
94+00 - 94+10	L 4.9 20' 68"
94+00 - 94+40	R 4.9 20' 68"
95+04 - 95+02	L 4.8 20' 68"
95+04 - 95+22	R 4.8 20' 68"

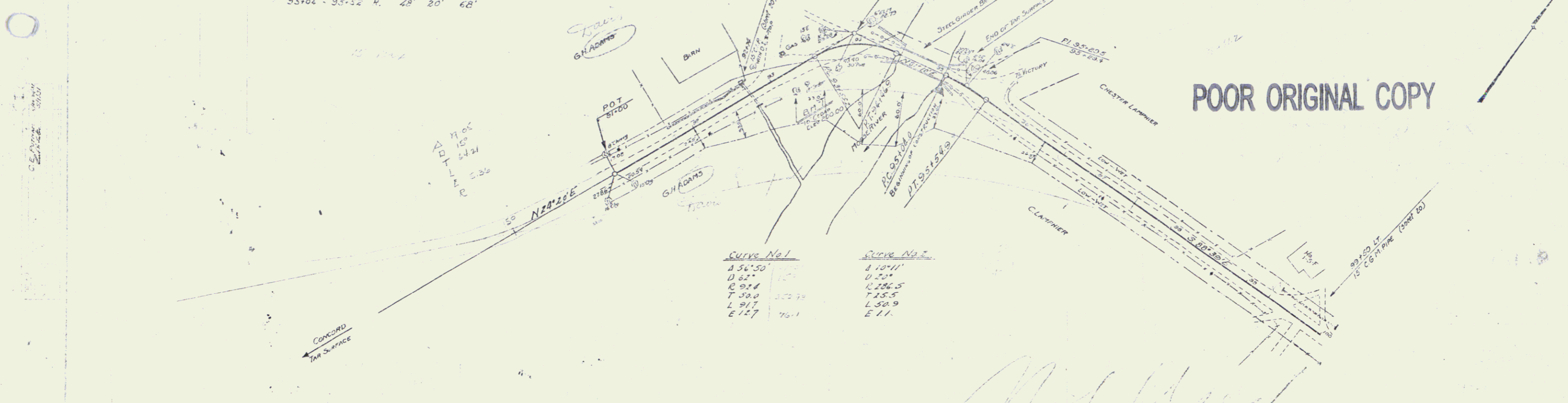
NEW COMPAS GALV. METAL DELIVERY PITS REQUIRED

STATION	DIAM.	LENS.	CEMENT PLANK MOUNTY
99+50 LT	15'	22'	2.7 C.Y.

NEW COST IRON PIPE CULVERTS REQUIRED

STATION	DIAM.	LENS.	CONE-C. CONCR. POINT STEEL
92+74	18"	33'	1.5 C.Y. 1.5 C.Y. 178 lbs.

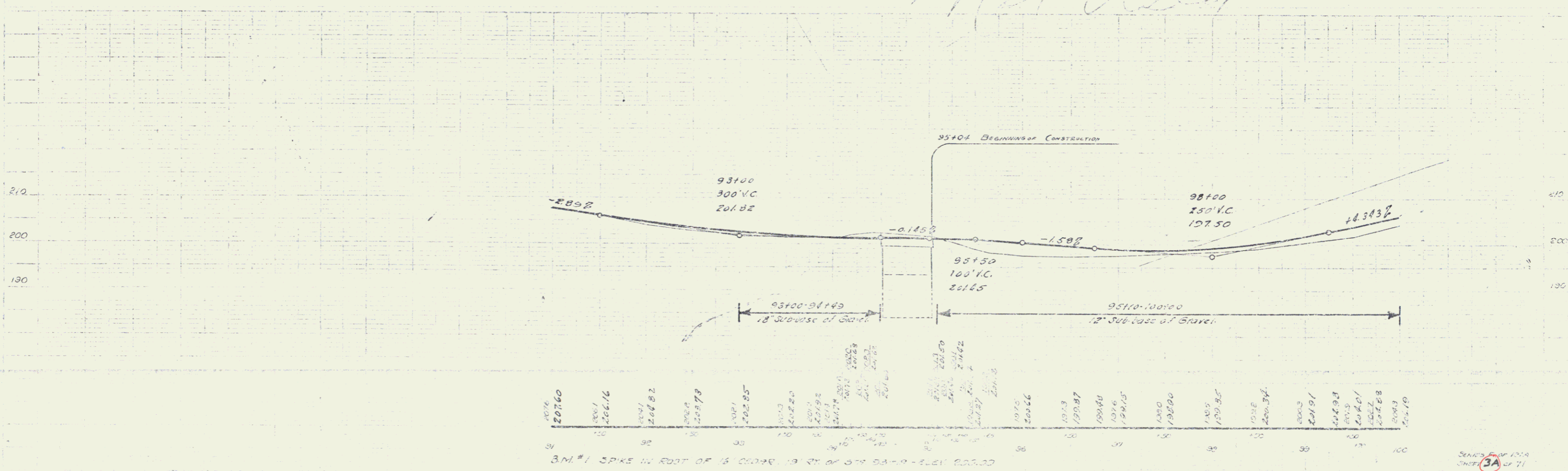
131-A 190V 2-1



POOR ORIGINAL COPY

Curve No. 1		Curve No. 2	
A 361.50	11.52'	A 107.11	11.52'
R 914	372.70	R 286.5	125.5
L 917	76.1	L 50.9	E 11.

Not Used



3.M.#1 SPIKE IN ROOT OF 18 CURVE, 19 ST. OF 314 94+9 - ELEV. 200.00

STATION	ELEVATION
92+60	207.60
92+70	206.16
92+80	204.82
92+90	203.58
93+00	202.35
93+10	201.12
93+20	199.88
93+30	198.65
93+40	197.41
93+50	196.18
93+60	194.94
93+70	193.71
93+80	192.47
93+90	191.24
94+00	190.00
94+10	188.77
94+20	187.53
94+30	186.30
94+40	185.06
94+50	183.83
94+60	182.59
94+70	181.36
94+80	180.12
94+90	178.89
95+00	177.65
95+10	176.42
95+20	175.18
95+30	173.95
95+40	172.71
95+50	171.48
95+60	170.24
95+70	169.01
95+80	167.77
95+90	166.54
96+00	165.30
96+10	164.07
96+20	162.83
96+30	161.60
96+40	160.36
96+50	159.13
96+60	157.89
96+70	156.66
96+80	155.42
96+90	154.19

SERIES #1 OF 131A SHEET 3A OF 71

WOOD CURVE RAIL REQUIRED

CURV STA.	LEFT	RIGHT
102+60	24'	24'
108+60	24'	24'

NEW CAST IRON PIPE CULVERTS REQUIRED

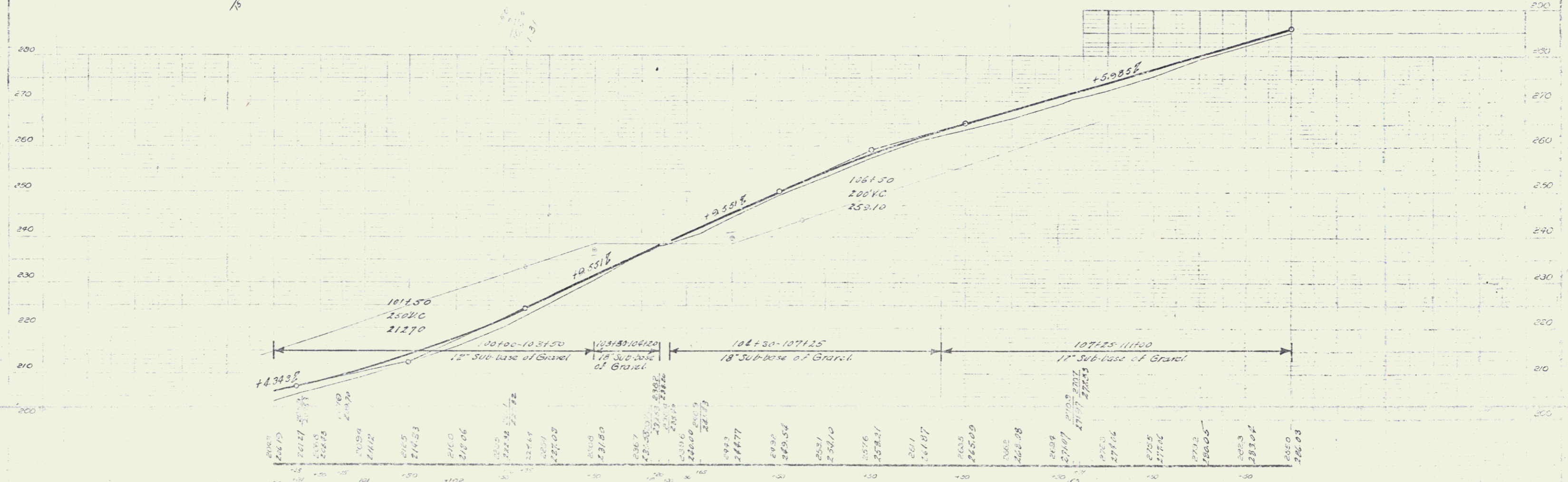
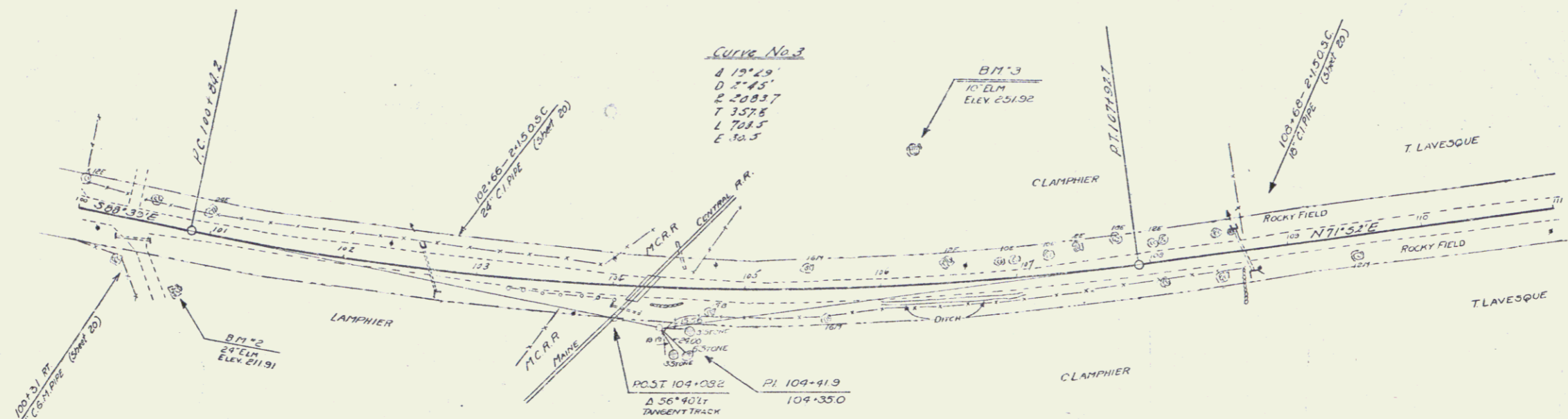
STATION	DIAM.	LENG.	CURV. R.	CHANG.	ADJ. STAK.
102+66	24"	39'	3.2	-	102+66
108+65	18"	39'	1.8	4	54' 60"

NEW CONCRETE CARRY METAL OPENING BRCS REQUIRED

STATION	DIAM.	LENG.	CEMENT	RUBBLE	INSULATION
100+31 RT	15'	26'	2.7	cy	

1512A 1921 38 71

POOR ORIGINAL COPY



BM 2 - SPINE IN ROOT OF 10' ELM, 45' RT OF STA 100+50, ELEV 211.91
 BM 3 - SPINE IN ROOT OF 10' ELM, 20' RT OF STA 106+50, ELEV 251.92

3

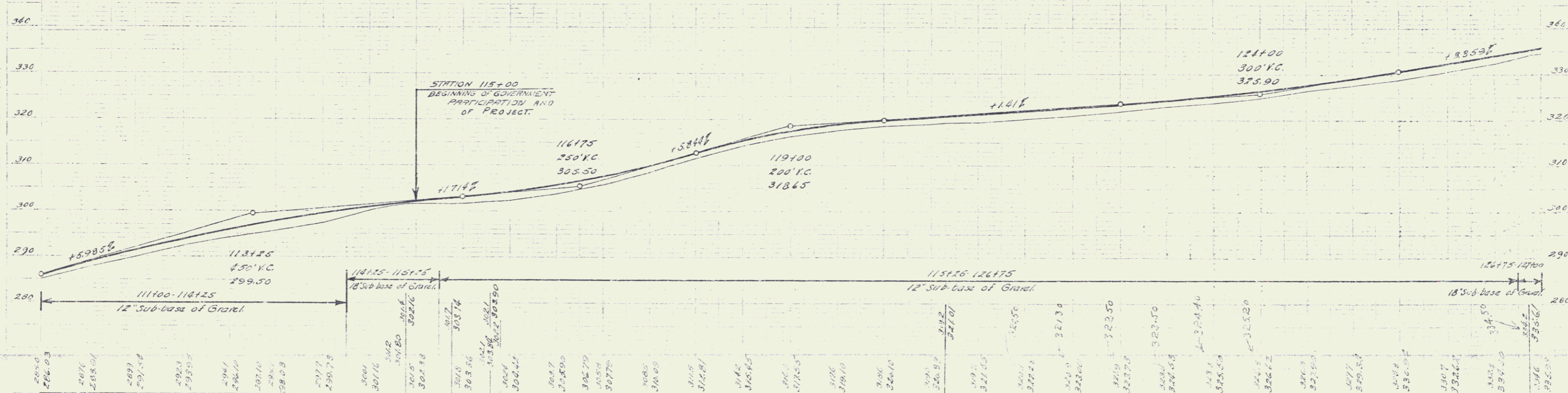
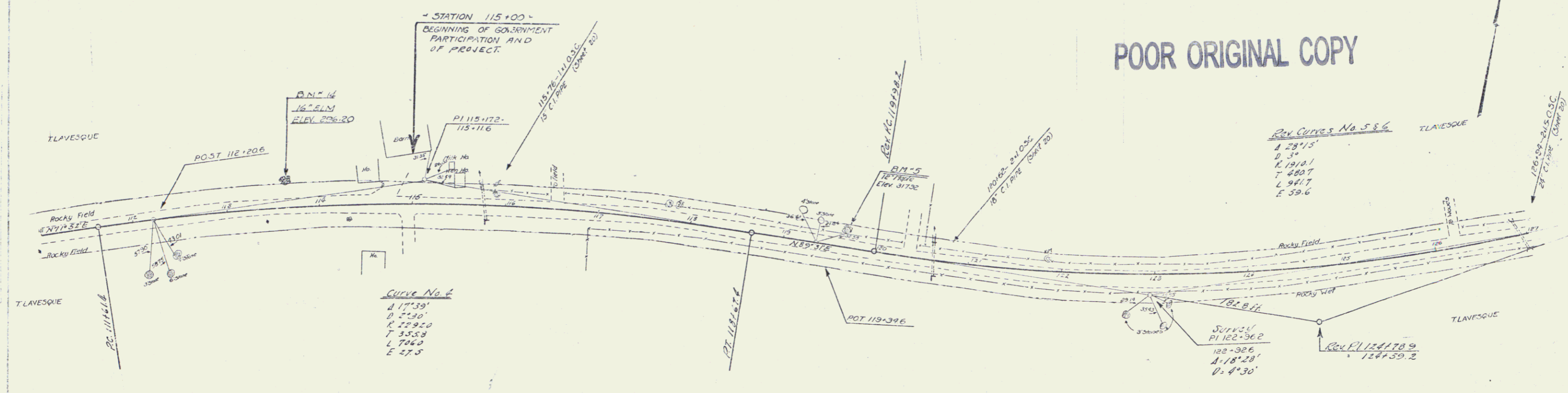
WOOD GUARD RAIL REQUIRED

CULV. STA	LEFT	RIGHT
115+76	24'	24'
120+62	24'	24'
126+94	24'	24'

NEW CAST IRON PIPE CONVEYERS REQUIRED

STATION	DIAM.	LENG.	CONC.	CONC.	EST. STAIL
115+74	15"	39'	1.5	17	73.100
120+62	16"	36'	2.4	17	102.150
126+94	24"	39'	2.4	17	34.100

POOR ORIGINAL COPY



Station	Elevation
114	286.03
115	288.50
116	291.50
117	293.50
118	294.00
119	297.10
120	298.03
121	299.75
122	301.16
123	302.26
124	303.14
125	303.26
126	303.26
127	303.26
128	303.26
129	303.26
130	303.26
131	303.26
132	303.26
133	303.26
134	303.26
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190	303.26
191	303.26
192	303.26
193	303.26
194	303.26
195	303.26
196	303.26
197	303.26
198	303.26
199	303.26
200	303.26

B.M. 4 - SPIKE IN ROOT OF W. ELM, 24' W. OF STA 113+61 - ELEV. 292.20
 B.M. 5 - SPIKE IN ROOT OF 12" MAPLE, 14' W. OF STA 119+34 - ELEV. 312.92

WOOD GUARD RAIL REQUIRED

ELEV. STA.	LEFT	RIGHT
131+27	24'	24'
132+82	24'	24'
141+81	24'	24'

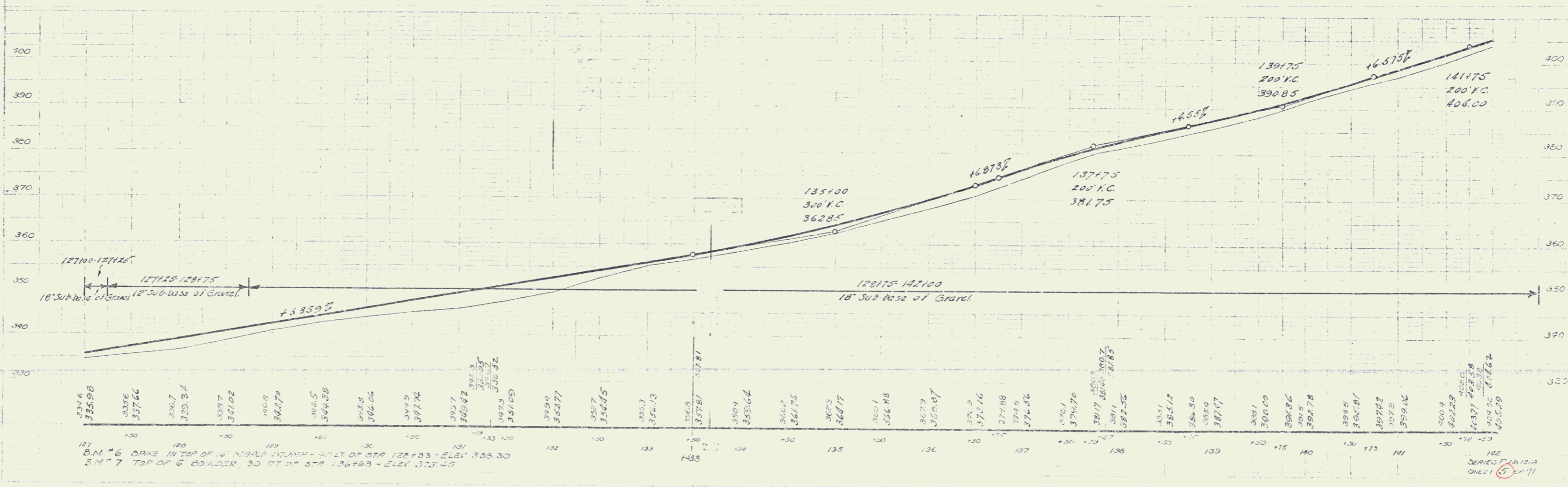
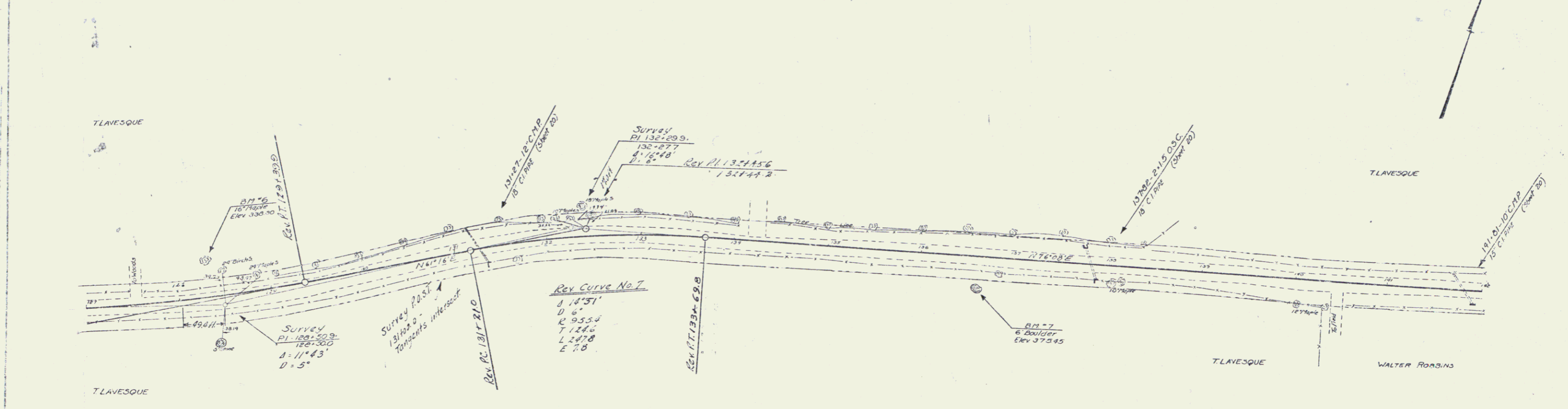
CABLE GUARD RAIL REQUIRED

SIREMS	LENG.	CONST.	PAYLENE
131+00-141+48	48'	40'	88'

NEW CAST IRON PIPE CULVERTS EQUIPPED

STATION	DIAM.	LENG.	CONC.	CONC.	REIN. STEEL
131+27	18"	40'	1.8 cy	—	75 lbs.
137+82	18"	42'	2.6 cy	—	102 lbs.
141+81	15"	39'	—	15 cy	17 lbs.

STA.	100	110	120	130	140
9	131.71	132.87	134.03	135.19	136.35



5

WOOD GUARD RAIL REQUIRED

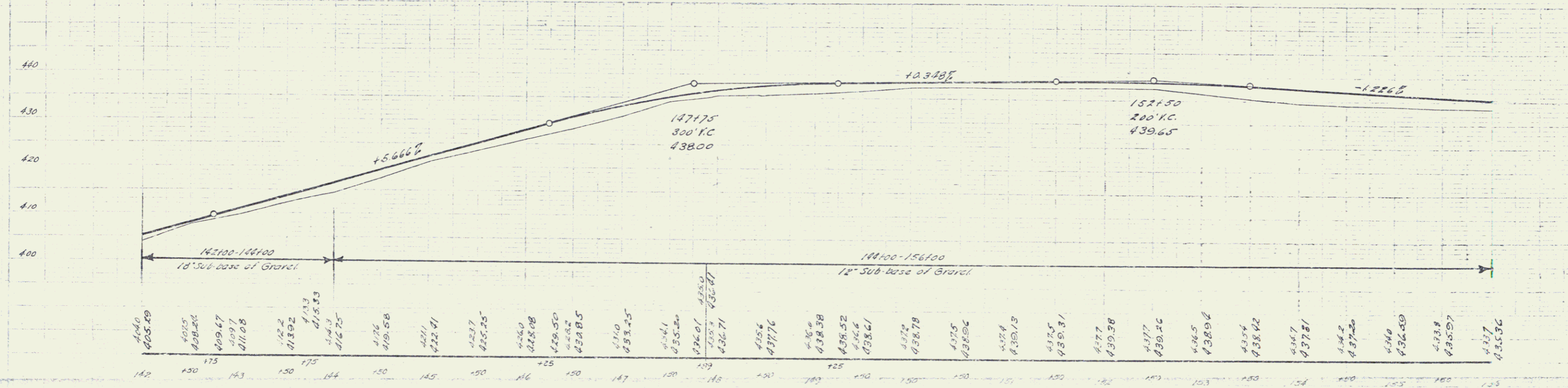
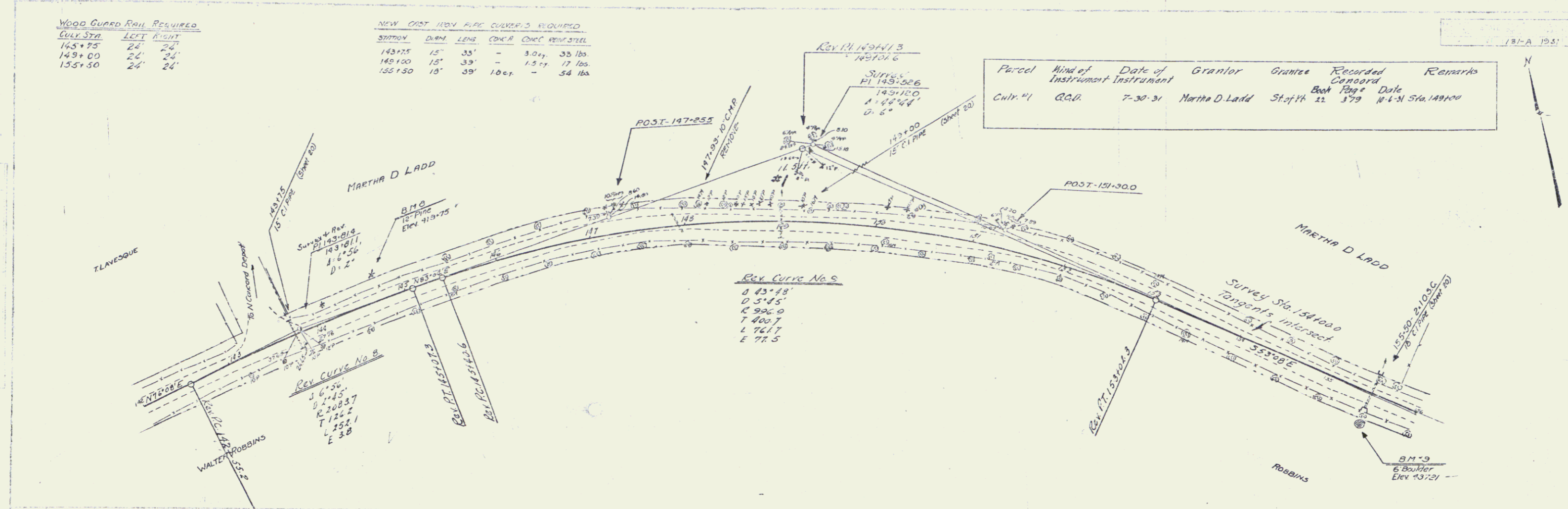
CHANG. STA.	LEFT	RIGHT
145+75	24'	24'
149+00	24'	24'
155+50	24'	24'

NEW CAST IRON RAIL CURVES REQUIRED

STATION	DIVISION	LENGTH	CONCR.	CONCR. RAIL STEEL
143+75	15'	35'	-	30 lbs.
149+00	15'	39'	-	17 lbs.
155+50	15'	39'	100%	54 lbs.

181-A 1951 6 71

Parcel	Kind of Instrument	Date of Grant	Grantor	Grantee	Recorded	Remarks
Chix #1	C.C.D.	7-30-31	Martha D. Ladd	St. of 14	Book Page Date	22 379 11-1-31 Sta. 149+00



B.M. 8, SPIKE IN ROOT OF 12' PINE, 25' LT. OF STA. 144+75 - ELEV. 419.75
 B.M. 9 TOP OF 6' BOULDER, 20' RT. OF STA. 155+00 ELEV. 437.21

SERIES 1071
 SHEET 71

6

WOOD GUARD RAIL REQUIRED

CURVE STA.	LEFT	RIGHT
158+88	24'	24'
165+30	24'	24'
169+50	24'	24'

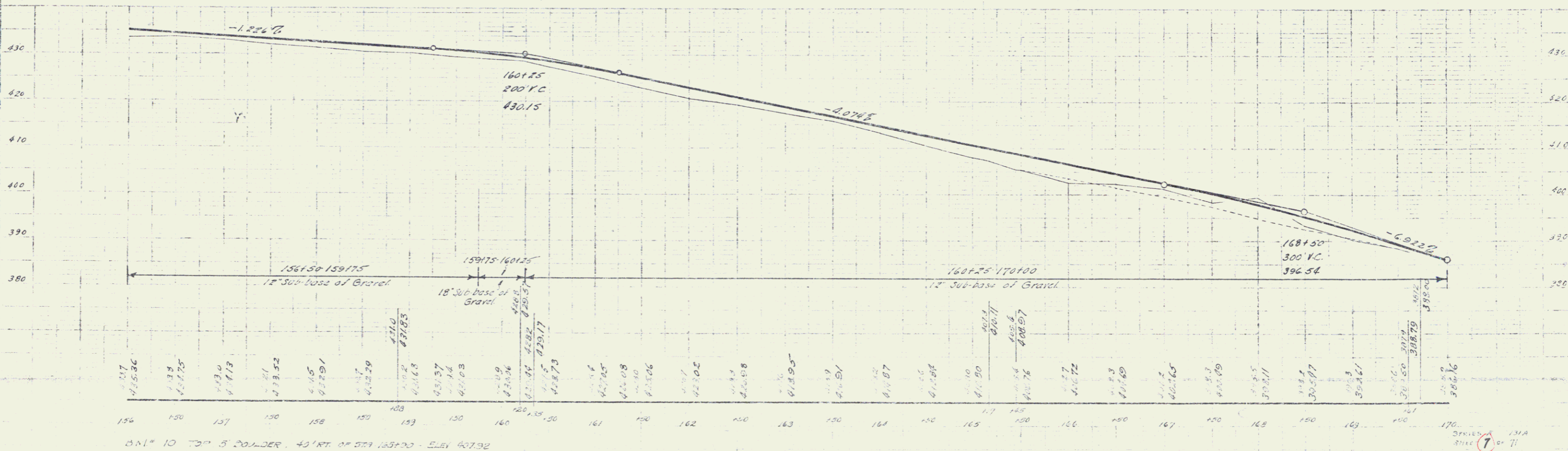
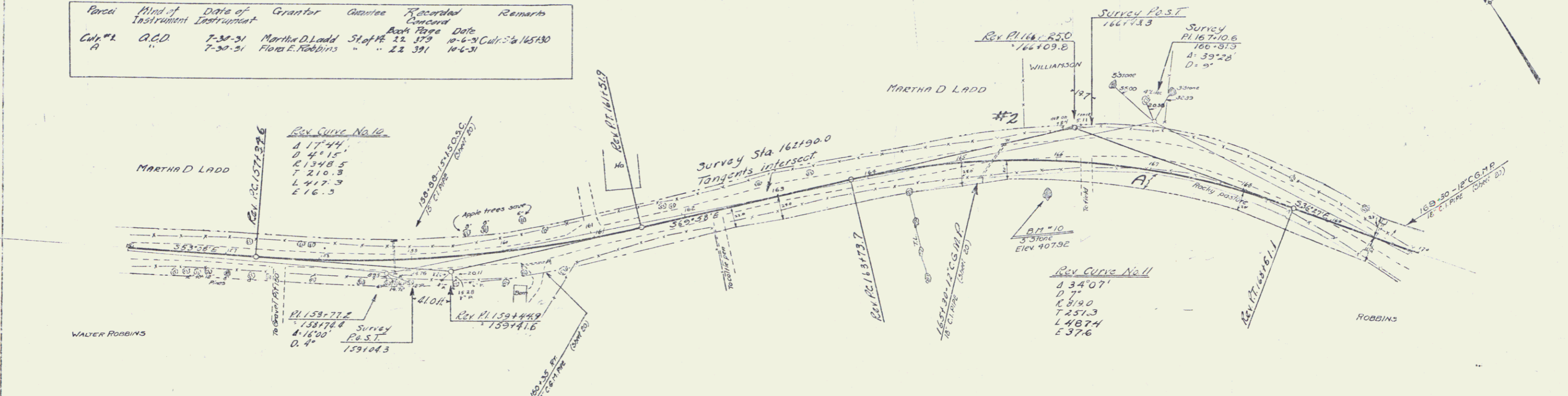
NEW CAST IRON PIPE CURBSETS REQUIRED

STATION	DIAM.	LENS	CURB	CONC. RAMP	STEEL
158+88	15"	36'	-	3.0 x 7	10 lbs.
165+30	18"	45'	1.8 x 7	-	75 lbs.
169+50	18"	36'	1.8 x 7	-	34 lbs.

NEW CONCRETE GAIN METAL DRIVEWAY PIPS REQUIRED

STATION	DIAM.	LENS	CONCRETE	ROBUST MASONRY
160+35	15"	20'	-	2.7 x 7

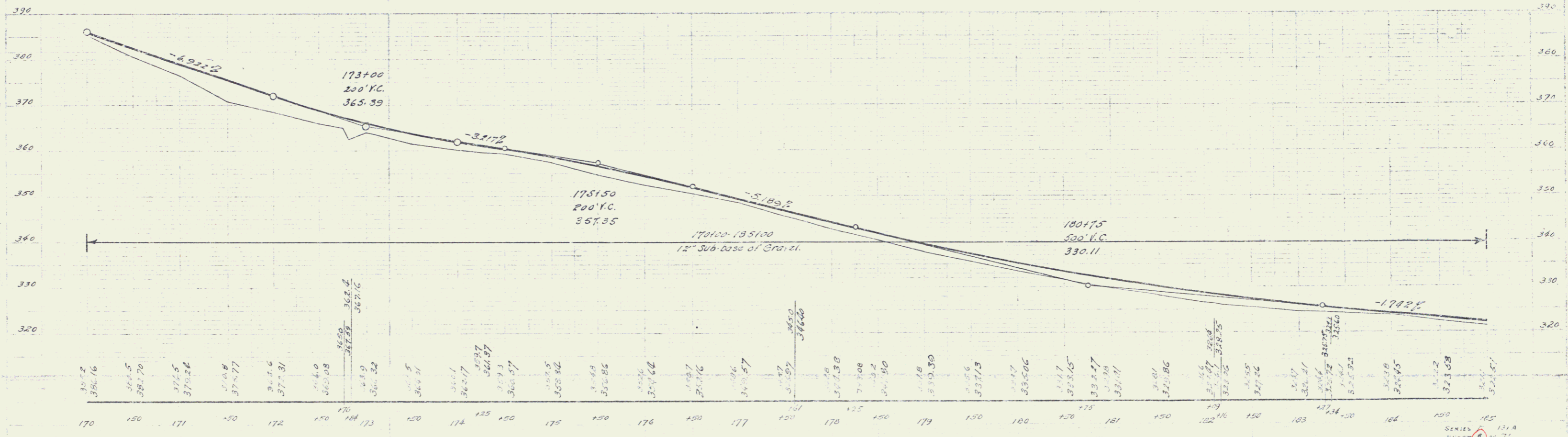
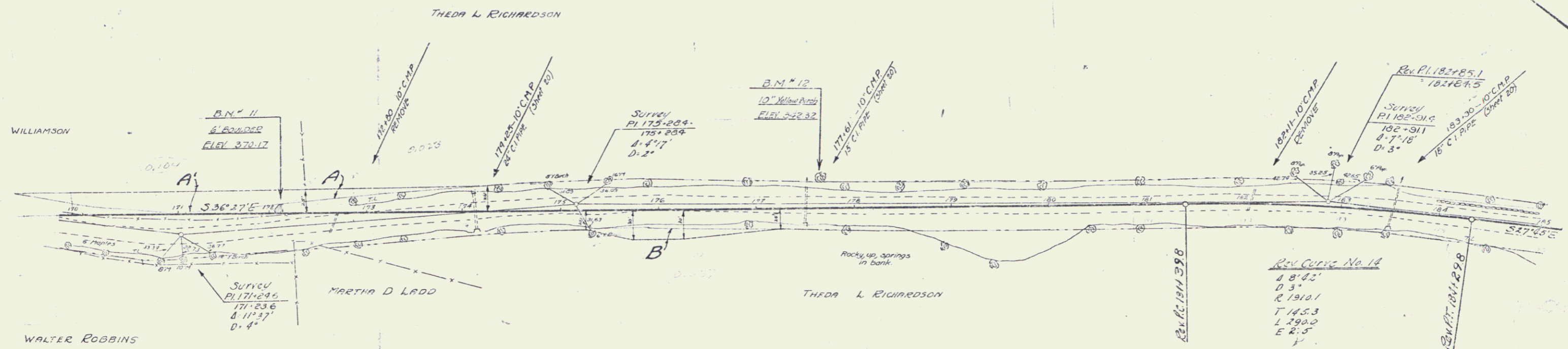
Parcel	Kind of Instrument	Date of Instrument	Grantor	Grantee	Recorded Concord	Remarks
1	O.C.D.	7-30-51	Martha D. Ladd	State	22 379	10-6-51
A	"	7-30-51	Flora E. Robbins	"	22 391	10-6-51



WILD CARD RAIL REQUIRED		
STATION	LEFT	RIGHT
174+25	24'	24'
177+61	24'	24'
183+30	24'	24'

NEW CAST IRON PIPE CULVERTS REQUIRED					
STATION	DIAM.	LENG.	CONC. A	CONC. C	REIN. STEEL
174+25	24"	36'	2.4	4	54 lbs
177+61	18"	42'	1.5	7	73 lbs
183+30	18"	42'	1.0	7	27 lbs

Parcel	Kind of Instrument	Date of Instrument	Grantor	Grantee	Recorded Conveyance Book Page Date	Remarks
A	A.C.D.	7-30-31	William Williamson	Steffl	22 389 10-6-31	
A&B	"	8-10-31	T.L. Richardson	"	22 375 10-6-31	



B.M. # 11 - TOP OF 6' BOUNDER 13' LT. OF STA. 172+25 - ELEV. 370.17
 B.M. # 12 - SPIKE IN ROOT OF 10" YELLOW BIRCH, 22' LT. OF STA. 177+78 - ELEV. 342.32

SERIES 8
 SHEET 8 OF 71

8

WOOD GUARD RAIL REQUIRED

GAUGE STA	LEFT	RIGHT
186+76	24'	24'
192+77	24'	24'
198+66	24'	24'

CABLE GUARD RAIL REQUIRED

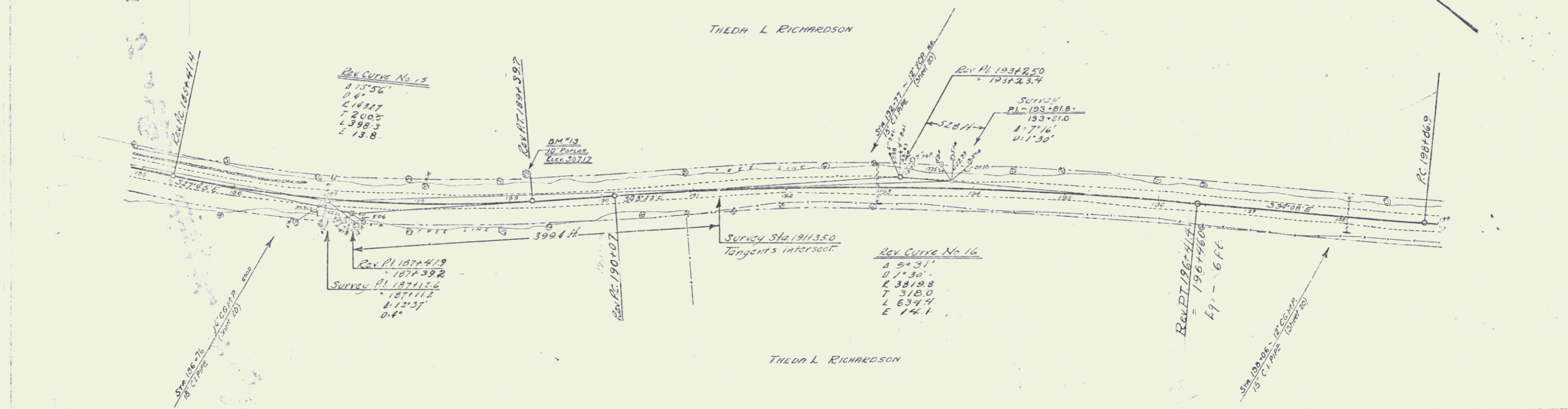
STATIONS	LENG	COST	TOTALS
192+20 193+00	72'	40	112'

NEW CAST IRON PIPE SUPPORTS REQUIRED

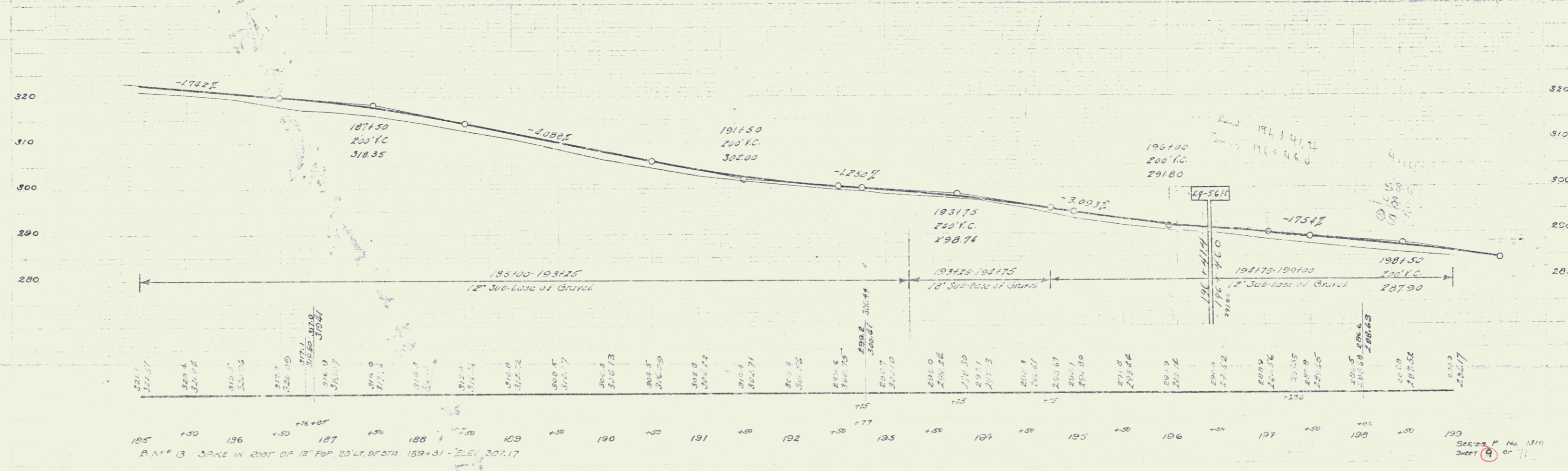
STATION	DIST	LENG	COST	CHC	POSTS
186+76	18"	35'	2.67	-	109 lbs
192+77	15"	42'	-	1.57	17 lbs
198+66	15"	35'	-	1.57	17 lbs

13-A 193 2 71

THEDA L. RICHARDSON



THEDA L. RICHARDSON



Series P No. 1311
Sheet 9 of 11

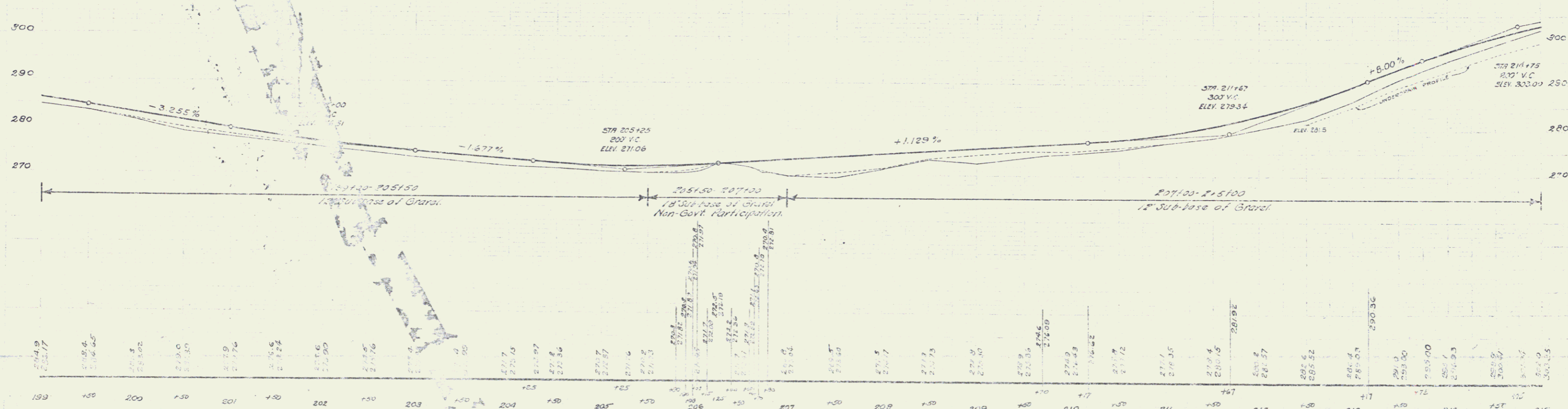
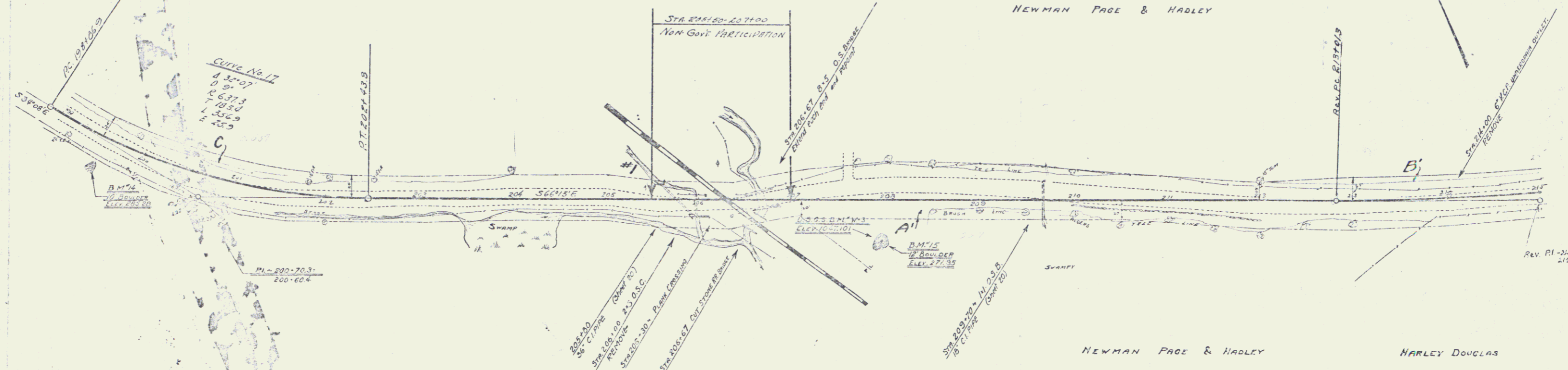
9

WOOD CURBS TO BE BUILT			CABLE GUARD RAIL REQUIRED		
CUV. STA.	LENG.	HIGHT	STATIONS	LENG.	CONST. TO LINE
205+80	24'	24"	206+28-207+04	72'	40'
209+70	24'	24"	206+56-207+04	48'	40'
					88'

NEW CAST IRON PIPE CULVERTS REQUIRED					
STATION	DIAM.	LENG.	NO. OF	CONC.	AMP. STEEL
205+80	36"	54'	4	0.1	50 lbs.
209+70	18"	45'	-	-	-

SITE INVESTIGATION WITH ST. BECK CONCRETE SAW PUMP, ETC. REQUIRED					
STA. TO STA.	LENG.	CEMENT	RUBBLE	MACHINE	1/2" #7
204+50 - 205+00	50'				

Parcel	Kind of Instrument	Date of Instrument	Grantor	Grantee	Recorded Copy No.	Remarks
C&C 1/4 #1	G.C.D.	8-10-31	T.L. Richardson	St. of W.	22, 375	10-6-31 C&C Sta. 205+00
A-68'	"	7-31-31	Norman, Reynolds	"	22, 387	10-6-31



B.M. 14 TOP OF 10' BOUNDER, 23' RT. OF STA 199+50, ELEV. 283.23
 B.M. 15, (U.S. B.M. BRONZE DSK, ELEV. 107.10) TOP OF 10' BOUNDER, MARKED STA 207+96, ELEV. 271.86

10

WOOD GUARD RAIL REQUIRED

STATION	FEET	RISHT
216+50	24'	24'
220+04	24'	24'
222+80	24'	24'
222+09	24'	24'

NEW CAST IRON PIPE CULVERTS REQUIRED

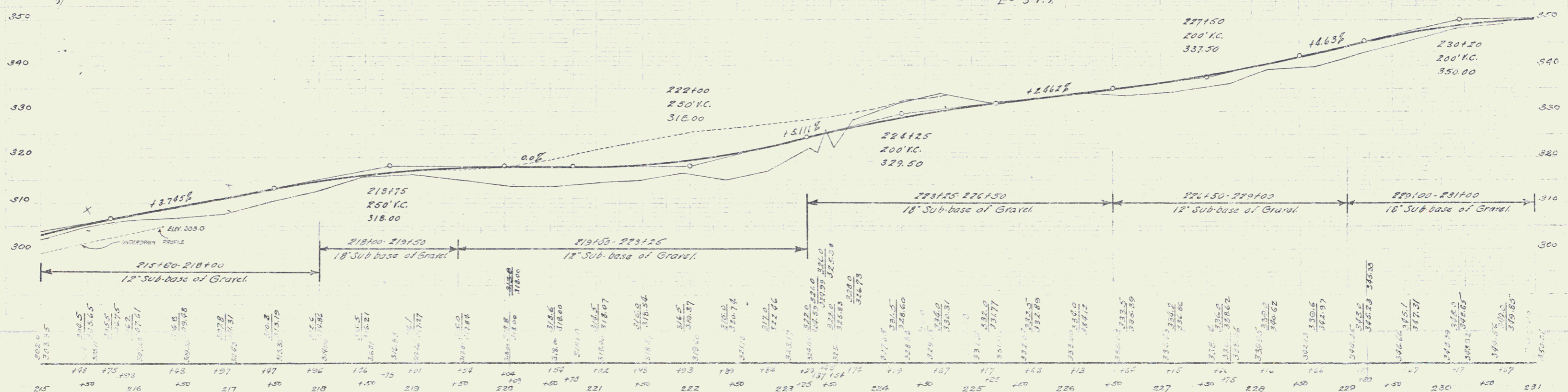
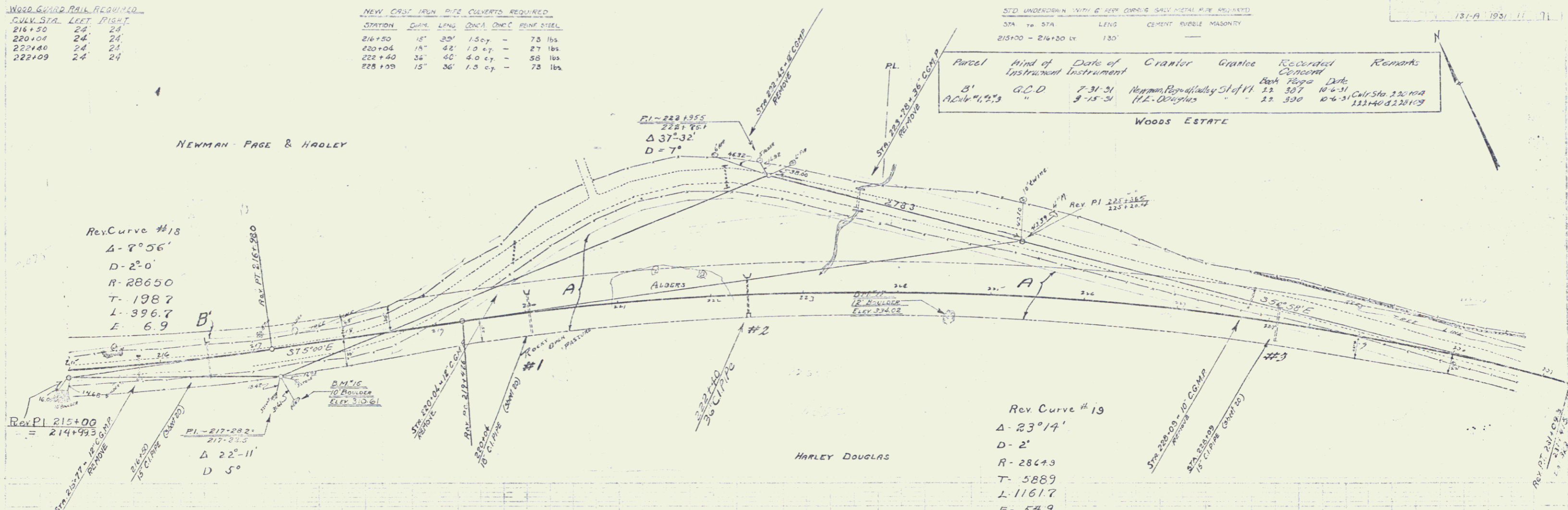
STATION	DEPTH	LENGTH	CONCRETE	PIPE	REIN. STEEL	WEIGHT
216+50	15"	30'	1.5 cy	-	-	73 lbs
220+04	15"	40'	1.0 cy	-	-	27 lbs
222+40	36"	40'	4.0 cy	-	-	58 lbs
228+50	15"	36'	1.5 cy	-	-	73 lbs

STD. UNDERDRAIN WITH 6" CONC. & SAND METAL PIPE (PROTECTED)

STA. TO STA.	LENGTH	CEMENT	RUBBLE	MASONRY
215+00 - 216+20	20'	-	-	-

Parcel	Kind of Instrument	Date of Instrument	Grantor	Grantee	Recorded	Remarks
B'	G.O.D.	7-31-51	Newman, Page & Hadley	Woods Estate	Book Page	12 387 10-4-51
A.C. # 4, 9, 7, 3	"	8-15-51	H.L. Douglas	"	12 390 10-4-51	Cal Sta 320 100
						12140 522 10-3

NEWMAN PAGE & HADLEY



B.M. 16, TOP OF 10' BOUNDER, 52' RT. OF STA 217+33 - ELEV. 310.61
 B.M. 17, TOP OF 12' BOUNDER, 91' RT. OF STA 224+94 - ELEV. 324.02

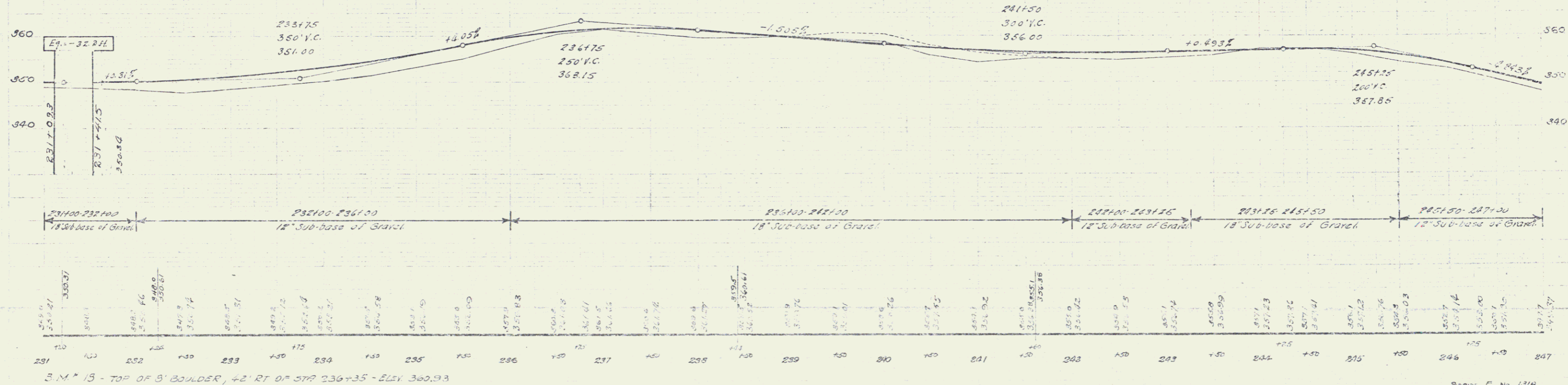
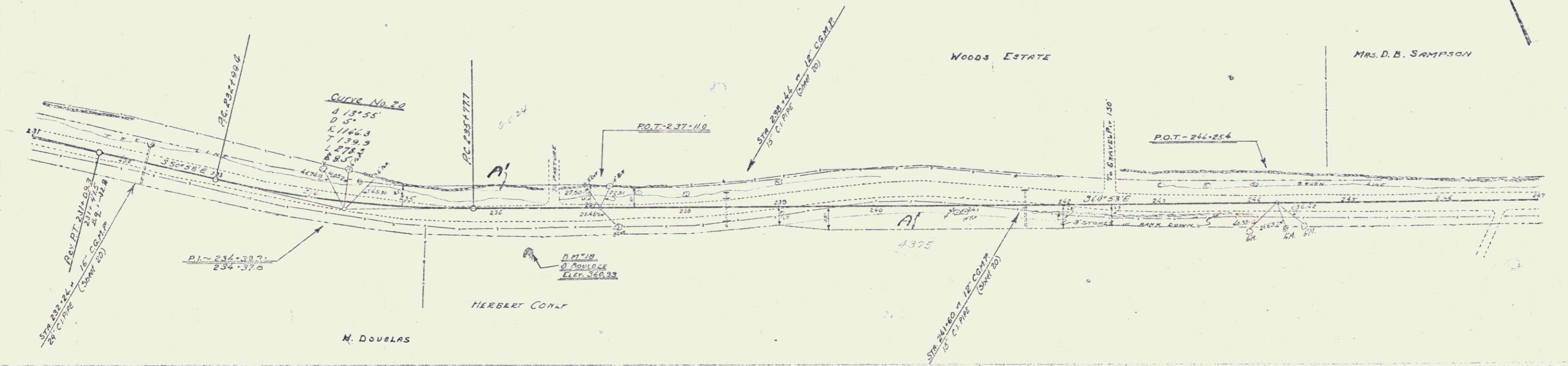
SHRINER No. 4310
 SHEET 11 OF 11

WOOD GUARD RAIL REQUIRED		
CHUY STA	LEFT	RIGHT
232+24	24'	24'
238+44	24'	24'
241+60	24'	24'

NEW CAST IRON PIPE CULVERTS REQUIRED					
STATION	DIAM.	LENGTH	OWNER	CMPC	LINE STEEL
233+21	18"	45'		1.0	27 lbs
238+44	15"	36'		1.5 cy	17 lbs
241+60	15"	42'		1.5 cy	17 lbs

Parcel	Kind of Instrument	Date of Instrument	Grantor	Grantee	Recorded	Remarks
A'	QCD	8-13-31	Suzie M. Wood	St of W	22 385	12-4-31
A	"	7-21-31	J.H.H. Conly	"	22 382	11-4-31

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Sheet No. 1214
Sheet 12 of 71

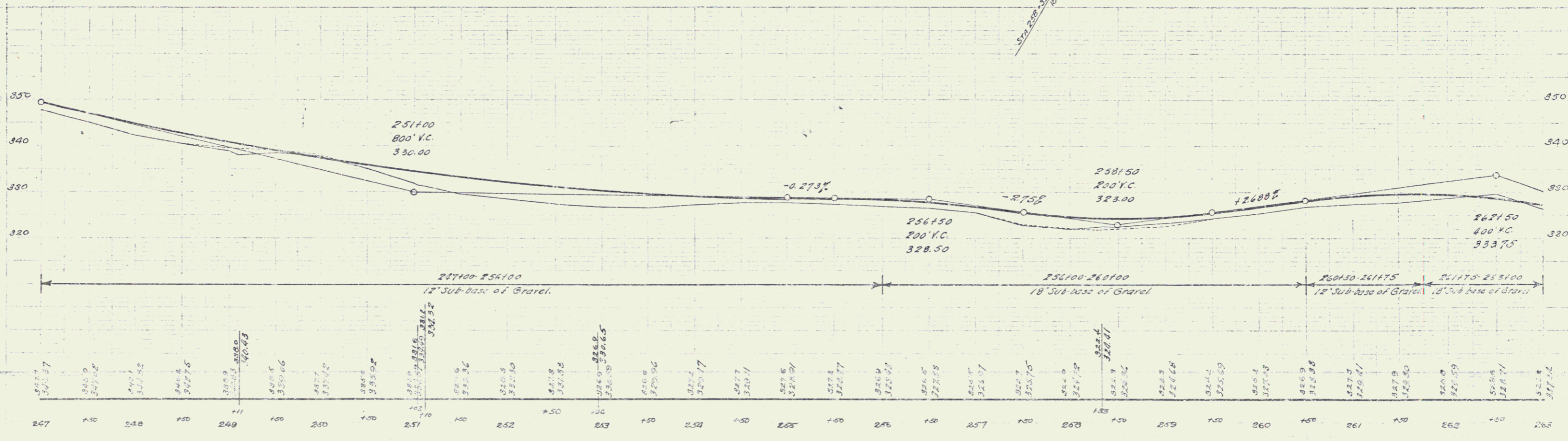
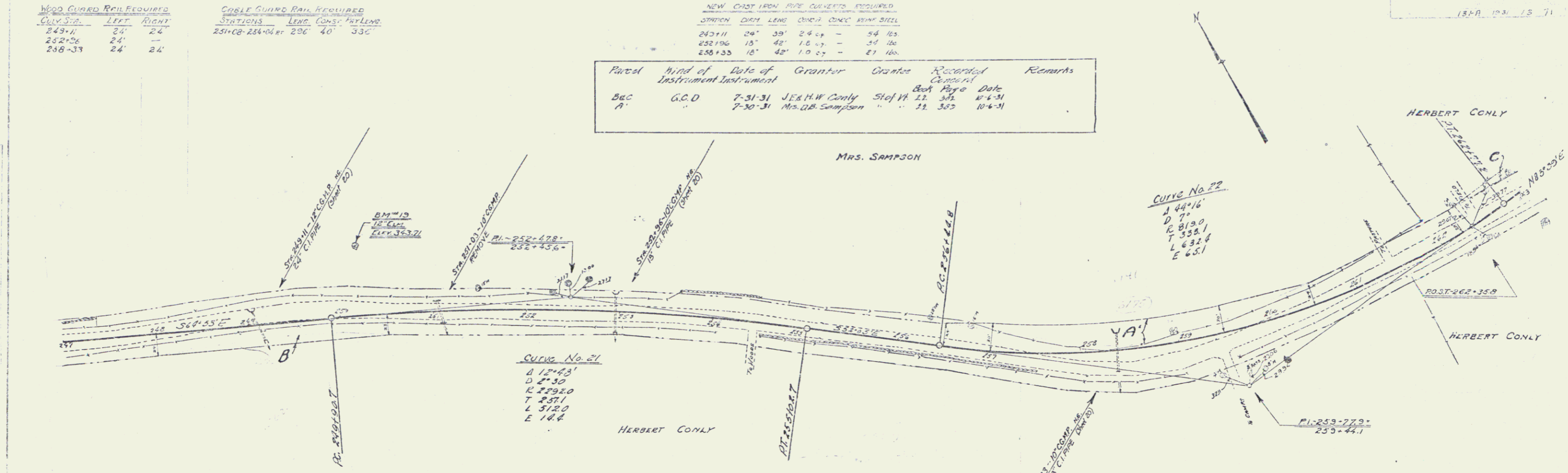
12

WOOD GUARD RAIL PROVIDED		
STATION	LEFT	RIGHT
249+41	24'	24'
252+56	24'	-
258+33	24'	24'

CASTLE GUARD RAIL PROVIDED		
STATIONS	LENS	CONC. PAVING
251+08-254+04	296'	40' 330'

NEW CAST IRON PIPE CONCRETE STRUCTURE					
STATION	DIAM.	LENS	CONC.	CONC.	PIPE DIAM.
243+11	24"	39"	24"	-	54" 165'
252+196	18"	42"	16"	-	24" 100'
258+333	18"	42"	16"	-	24" 100'

Part of	Kind of Instrument	Date of Instrument	Grantor	Grantee	Recorded	Remarks
B&C	G.C.D.	7-31-31	J.E. & H.W. Conly	Stef. 11	22 325	10-4-31
A	"	7-30-31	Mrs. B.B. Sampson	"	22 325	10-4-31



B.M. 19 SPARE IN ROOT OF 12" E.M. 7 1/2 FT OF STW 250+24 - Elev. 343.71

Series No. 131A
Sheet 13 of 17

WOOD GUARD RAIL REQUIRED

CHY. STA.	LEFT	RIGHT
271+00	24'	24'

COAL GUARD RAIL REQUIRED

STATIONS	LENG.	CONST.	ST. LENS.
265+00-268+30	300'	40'	300'
268+00-268+00 LT.	200'	40'	240'
270+16-271+36 R.	120'	40'	160'
276+00-276+40 LT.	40'	40'	80'
276+00-276+40 R.	40'	40'	80'

STD. UNIFORMITY WITH 6" RIM CONCRETE BOX CULVERTS REQUIRED

STA. TO STA.	LENG.	CONST.	ST. LENS.
270+00 - 271+00 LT.	100'		

NEW CRST HIGH PINE CULVERTS REQUIRED

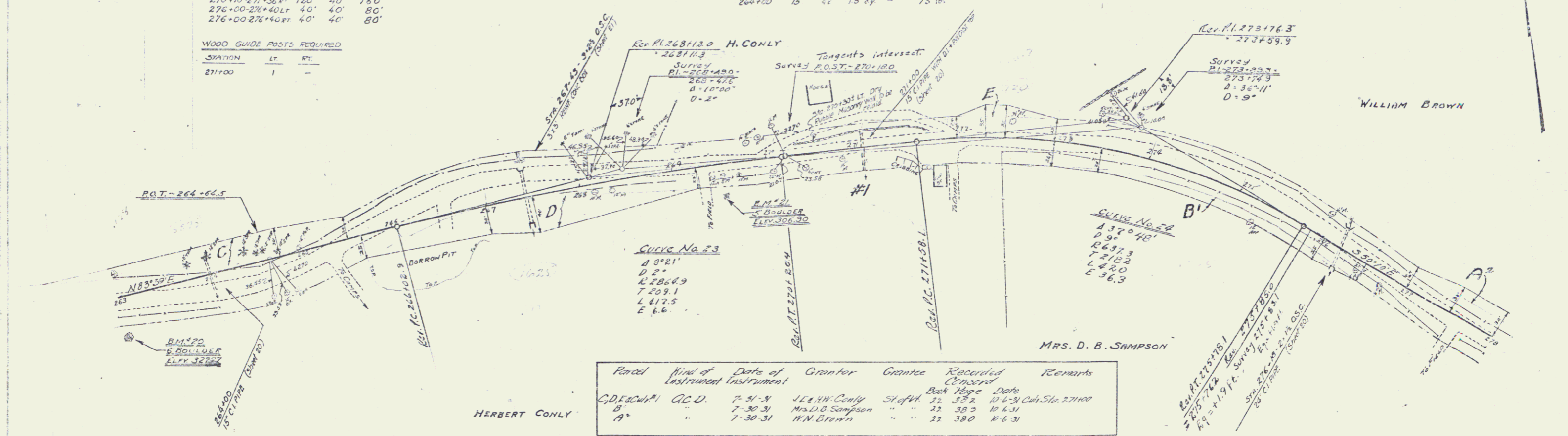
STATION	CHY. LENS.	CONST. R.	CONST. L.	CONST. S.
271+00	15'	33'	1.5 cy	124 lbs.
276+18	24'	15'	4.4 cy	54 lbs.
264+00	15'	22'	1.5 cy	75 lbs.

NEW 6" RIM CONCRETE BOX CULVERTS REQUIRED

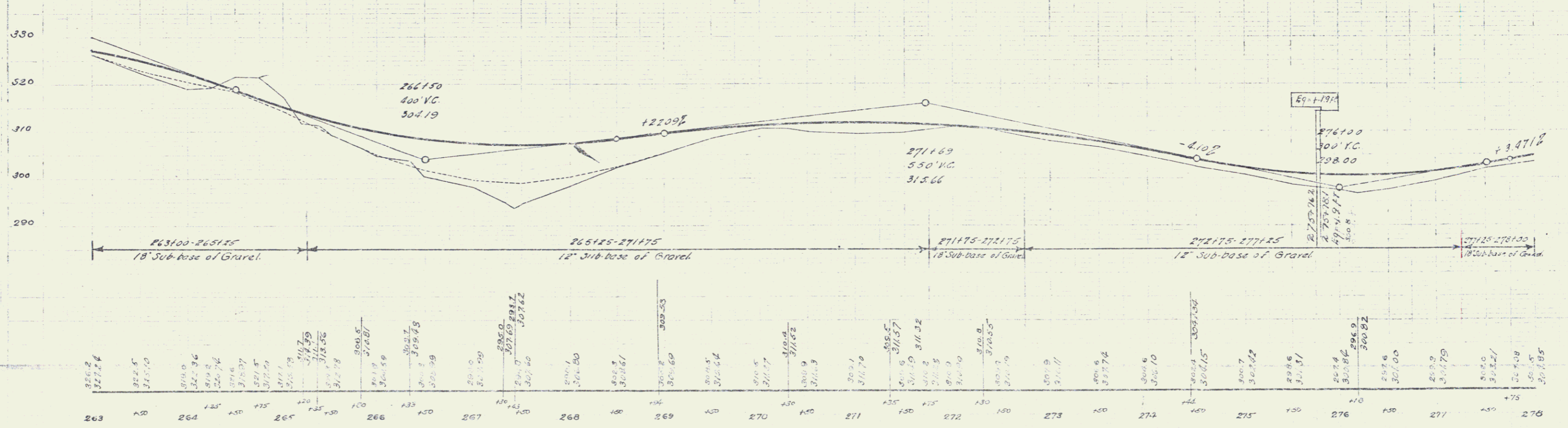
STATION	CHY. LENS.	CONST. R.	CONST. L.	CONST. S.
267+45	3'x3'	24.7 cy		1707 lbs.

WOOD GUIDE POSTS REQUIRED

STATION	LY.	RY.
271+00	1	



Parcel	Kind of Instrument	Date of Instrument	Grantor	Grantee	Recorded	Remarks
C, D, E, G, H, I	Q.C.D.	7-31-31	J. E. W. Conly	St. J. H. Beck	104	Highway 271+00
B	"	7-30-31	Mrs. D. B. Simpson	"	12	30.2 10 4.31
A	"	7-30-31	H. N. Brown	"	12	380 10 6.31



B.M. 20 - TOP OF 6" BOULDER 10' RT. OF STA. 264+00 - ELEV. 327.77
 B.M. 21 - TOP OF 6" BOULDER 32' RT. OF STA. 269+32 - ELEV. 306.90

14

WOOD GUARD RAIL REQUIRED

Curv Sta	Left	Right
264+58	24'	24'
231+00	24'	24'
294+00	24'	24'

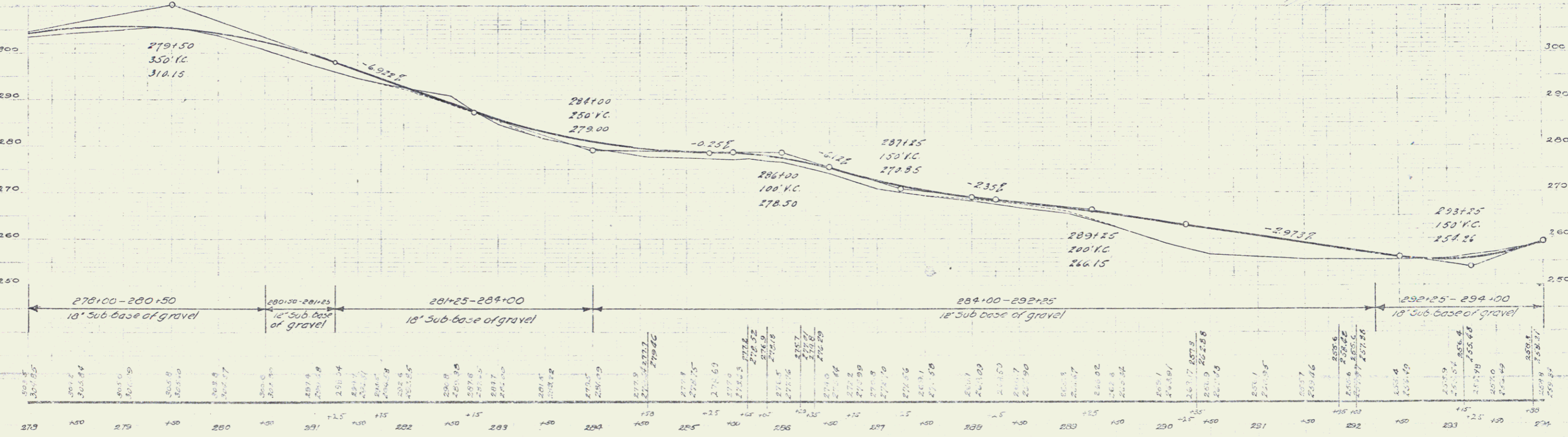
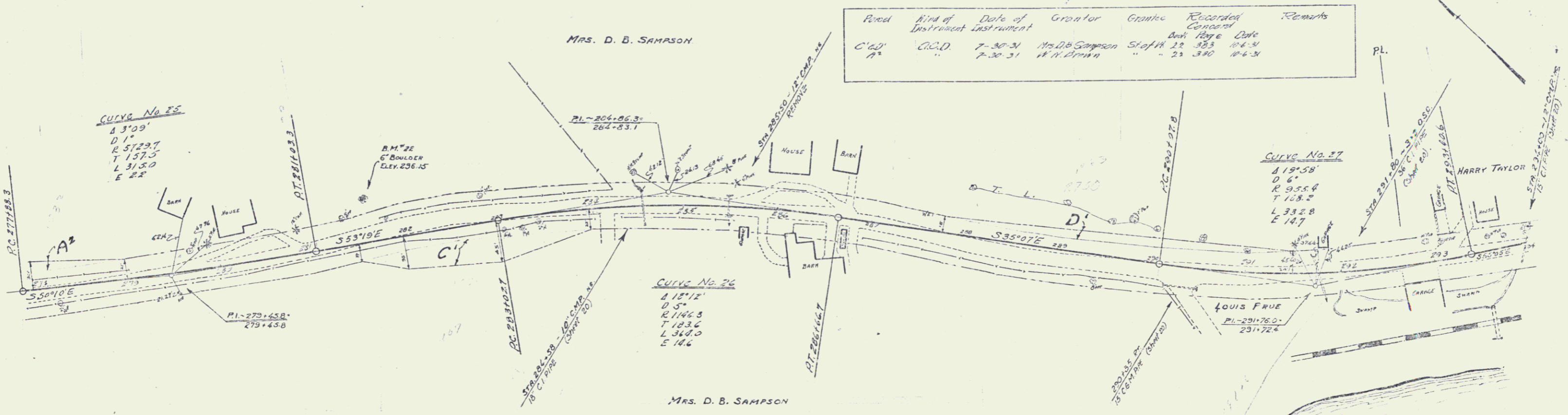
NEW CORRUG GALV METAL DRAINAGE PIPES REQUIRED

STATION	DIAM	LENG	CEMENT RUBBLE MASONRY
290+15 R.P.	15"	56'	2.7 cy

NEW CAST IRON PIPE CULVERTS REQUIRED

STATION	DIAM	LENG	CONC A	CONC C	STEEL
264+58	18"	59'	1.0 cy	-	27 lbs
291+80	36"	48'	1.8 cy	-	29 lbs
294+00	15"	42'	-	3.0 cy	33 lbs

Reel	Kind of Instrument	Date of Instrument	Grantor	Grantee	Recorded	Remarks
C-101	C.C.D.	7-30-31	Mrs. D. B. Sampson	Steff H. 22	333	10-4-31
A-2	"	7-30-31	W. V. Brown	"	23	3-30-10-4-31



B.M. # 22 TOP OF 6" BOULDER, 45' LT. OF STA 281+00 - ELEV 296.15
 B.M. # 23 CORNER IN ROOT OF B' POST, 43' LT. OF STA 289+74 - ELEV 261.41

SEE 20 No. 157A
 SHEET 5 OF 7

WOOD GUARD RAIL REQUIRED

CHAIN STATION	LEFT	RIGHT
297+02	24'	-
301+70	24'	-

CABLE GUARD RAIL REQUIRED

STATIONS	LENG.	CONST.	PAVING
295+24-305+24	1000	60	1080

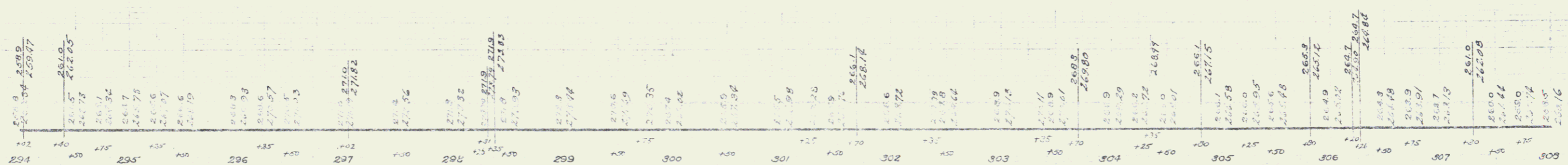
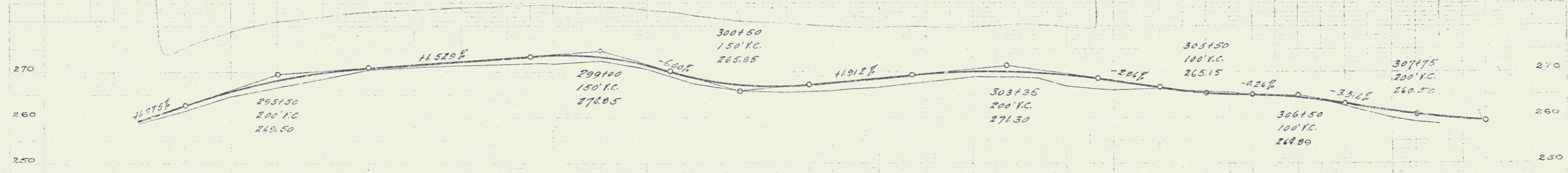
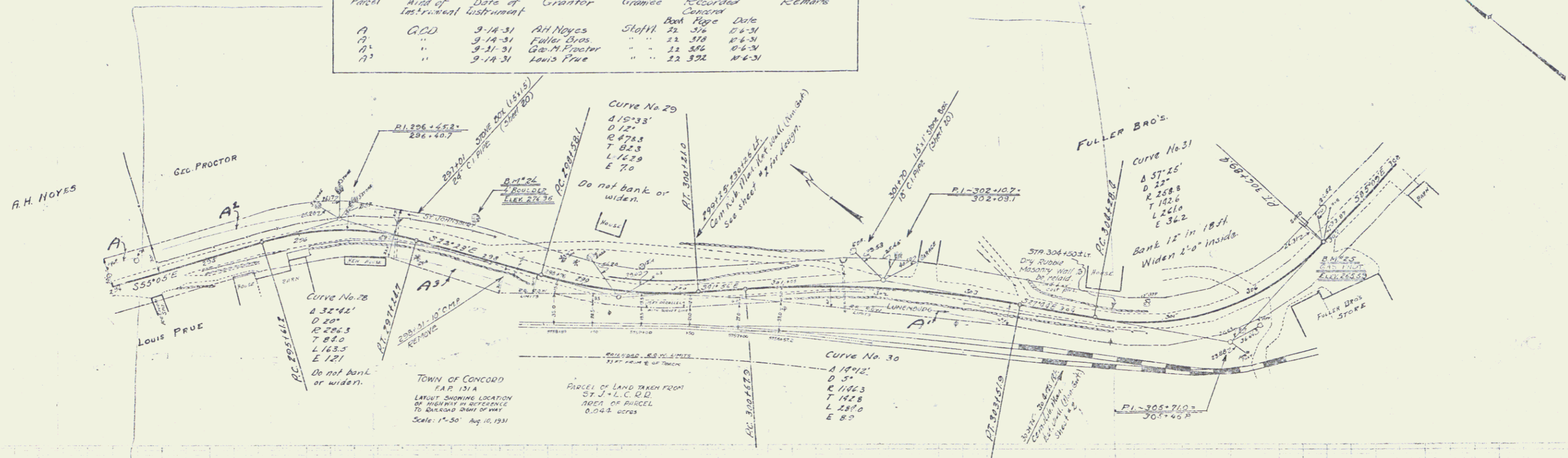
Cent. Riv. Mass. Co. Wall

Sta.	Volume
295+24-301+25	150 cu yd.
303+75-304+15	150 "

NEW CAST IRON PIPE COVERTS REQUIRED

SECTION	DIAM.	LENG.	QTY	CONC. REINFORCED
297+02	24"	48'	1.0	27 lbs.
301+70	18"	54'	1.0	21 lbs.

Parcel	Kind of Instrument	Date of Instrument	Grantor	Grantee	Recorded Concord	Book Page	Date	Remarks
A	G.D.D.	9-14-31	A.H. Noyes	Slooff	22	376	12-6-31	
A'	"	9-14-31	Fuller Bros.	"	22	378	12-6-31	
A''	"	9-31-31	Geo. M. Proctor	"	22	386	12-6-31	
A'''	"	9-14-31	Louis Prue	"	22	396	12-6-31	



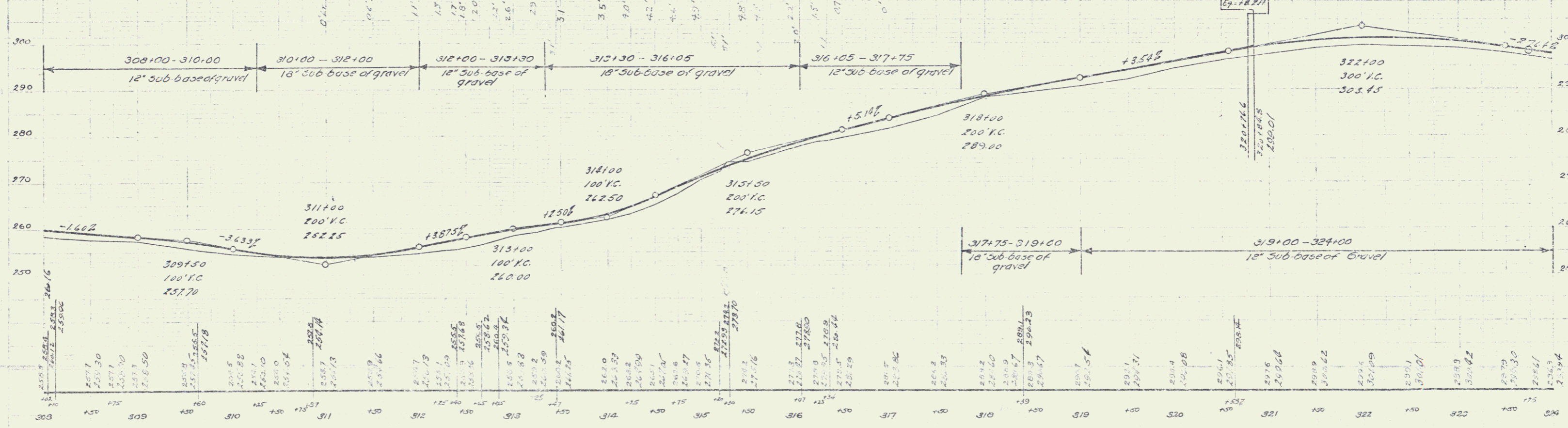
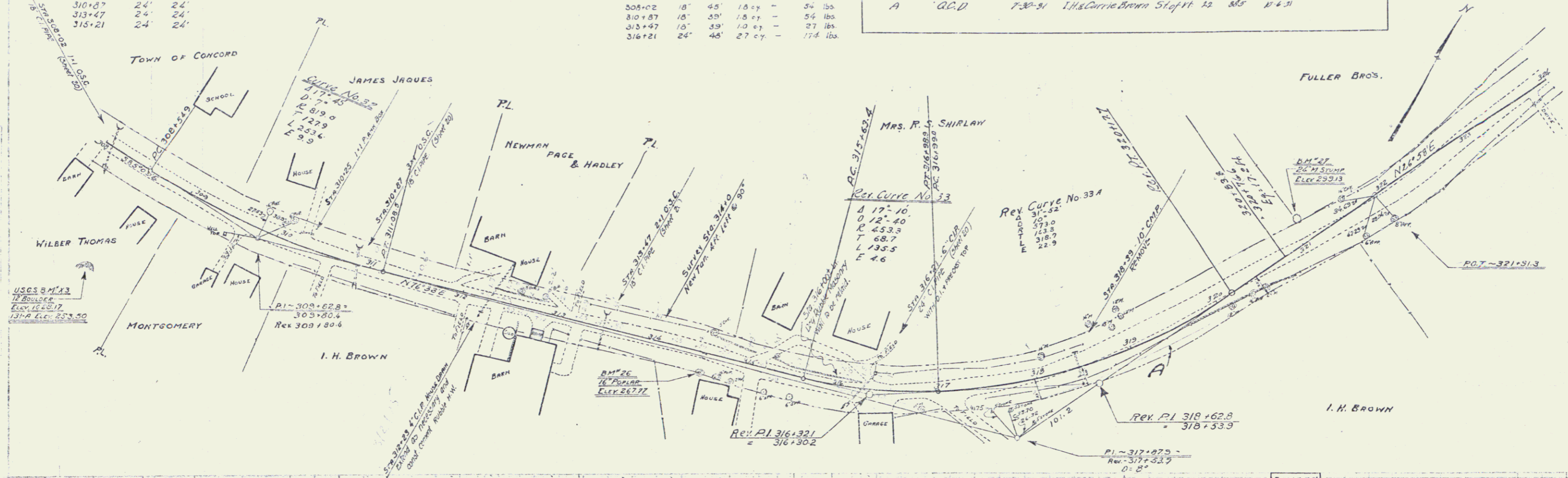
B.M. 24 - TOP OF 4" BINDER, 85' L. OF STA. 297+75 - ELEV. 269.93
 B.M. 25 - N.W. COR. CONC. PAV. 300' W. FROM P.M.P. - STA. 304+04 - ELEV. 265.59

Station	Left	Right
308+02	24'	24'
310+67	24'	24'
313+47	24'	24'
315+21	24'	24'

Station	Left	Right
312+23	-	-

Station	Diam.	Length	Conc. A	Conc. C	Rein. Steel
308+02	18"	45'	1.8 cy	-	54 lbs
310+87	18"	59'	1.8 cy	-	54 lbs
313+47	18"	59'	1.8 cy	-	27 lbs
316+21	24"	46'	2.7 cy	-	174 lbs

Parcel	Kind of Instrument	Date of Grant	Grantor	Grantee	Recorded Concord	Book Page	Date	Remarks
A	Q.C.D.	7-30-91	I.H. & Carrie Brown	Sleftt	32	385	11-4-91	

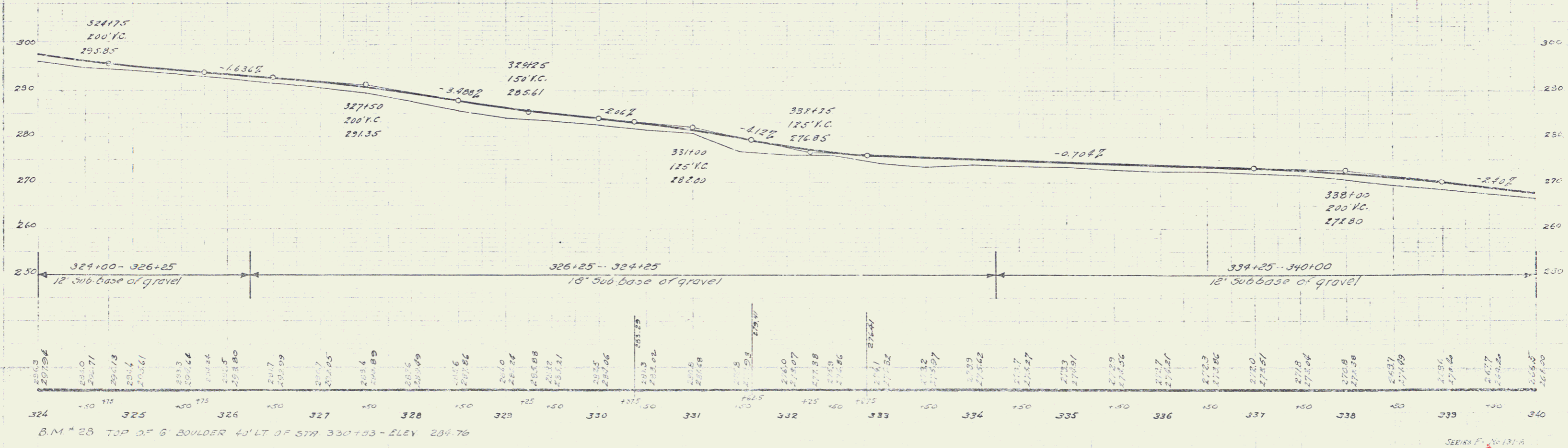
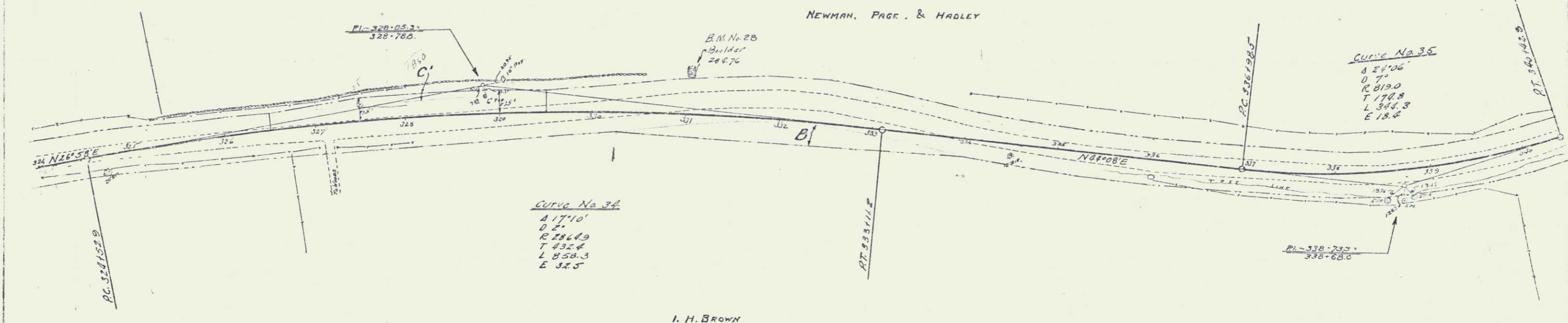


B.M. 26 - SPIKE IN ROOT OF 12" POP - 14' RT OF STA 314+50 ELEV 267.77
 B.M. 27 - SPIKE IN ROOT OF 24" MARK STUMP, 24' LT OF STA 321+05 ELEV 259.43

Series No. 1210
 Sheet 11 of 11

Paved	Kind of Instrument	Date of	Operator	Grade	Revised	Remarks
C	Q.C.D.	7-31-31	Norman Page & Hadley Staff	22	31	24.31
B	"	7-31-31	L.H. Carter & Brown	22	31	24.31

131-A 1931 18 71



SERIES F-131-A
 SHEET 18 OF 71

18

WOOD CURB FIN. REQUIRED

Curv. Sta.	Left	Right
341+85	-	24'
346+54	-	24'
345+41	-	24'

CABLE GUARD FIN. REQUIRED

SECTIONS	LENG.	CONST.	PAVING
341.55-342.00	45'	40'	80'
342.70-343.31	24'	20'	44'
343.41-350+00	24'	20'	44'
350+00-350+43.1	24'	20'	44'
353+40-354+00	260'	40'	300'

NEW 8" DIA. CONCRETE BOX CULVERTS REQUIRED

STATION	SIZE	CONC.	REIN. STEEL
341+89	4'x4'	26.0 cy	1778 lbs.

NEW COST IRON PIPE CULVERTS REQUIRED

STATION	DIA.	LENG.	CUTS	CONC.	REIN. STEEL
346+54	18"	45'	13 ft	-	75 lbs.
355+41	15"	39'	26 ft	-	108 lbs.

BRIDGE STA 349+148 TO STA 350+15

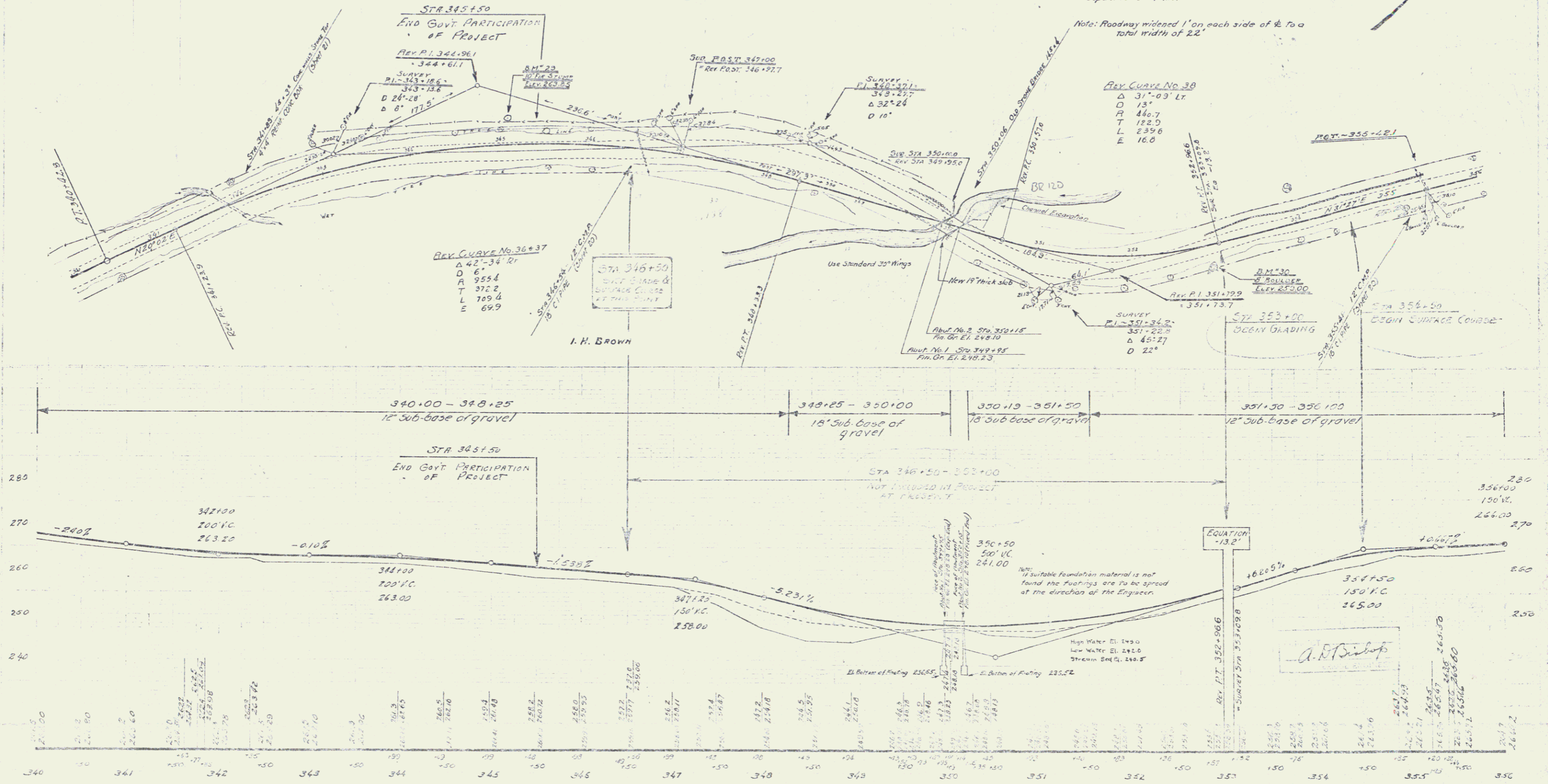
SUMMARY OF QUANTITIES

Item 14 Channel Excavation	100 CY
" 15 Structure Excavation	240 CY
" 33A Concrete Class A	37 CY
" 33B Concrete Class D	136 CY
" 34 Reinforcing Steel	3280 Lbs.
" 35 Temporary Bridge and Maintaining Traffic	1 L.S.
Removal of Present Superstructure	1 L.S.

SHEETS TO BE USED

Sheet No. 2N S.L.B. 20 No. 18	Slab Bridge
" " 3N S.L.A. No. 45	Abutment Details
" " 4N S.B. No. 6	Typical Details
" " 5N S.B. No. 2A	Typical Details
" " 1N	Plan and Profile

NEWMAN, PAGE & HADLEY



B.M. 29 TOP OF 10" IRON RING, 30' LT. OF STA 343+07 - ELEV. 243.34
 B.M. 30 TOP OF 8" BRICKER, 10' RT. OF STA 353+00, ELEV. 259.00

High Water El. 249.0
 Low Water El. 242.0
 Stream Bed El. 240.5

Equation 13.2

Sheet No. 14 of 57

WOOD GUARD RAIL REQUIRED

STATION	LEFT	RIGHT
359+74	-	24'
362+27	24'	24'
366+00	-	24'
370+22	-	24'

CABLE GUARD RAIL REQUIRED

STATIONS	LENG.	CABLE	POSTS
365+80-366+44	144'	40'	184'
366+00-366+04	40'	40'	444'
370+10-372+00	190'	20'	210'

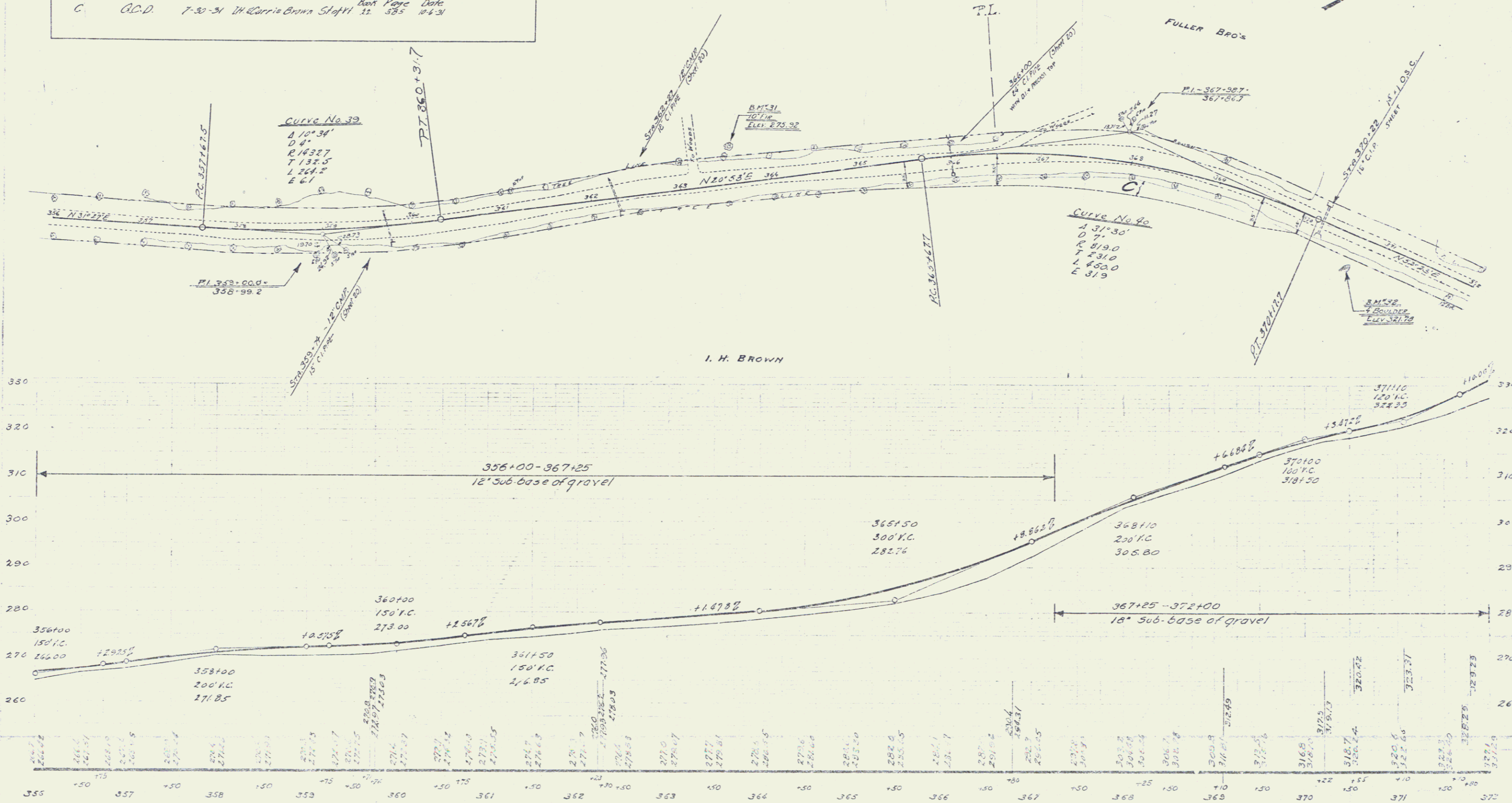
NEW CAST IRON PIPE CULVERTS REQUIRED

STATION	DIAM.	LENG.	CONC.	CONC.	REIN. STEEL
359+74	18"	39'	1.8 cy	-	73 lbs.
362+27	18"	39'	1.8 cy	-	73 lbs.
366+00	24"	35'	2.9 cy	-	174 lbs.
370+22	18"	35'	1.8 cy	-	51 lbs.

Parcel	Kind of Instrument	Date of Record	Grantor	Grantee	Recorded	Remarks
C	C.C.D.	7-30-31	I.H. Brown	Staff	32	385 10431

NEWMAN, PAGE & HADLEY

131A 1931 EOA 71



B.M. 31 SPIKE IN ROOT OF 10' FR. 37' W. OF STA 363+07 - ELEV. 273.92
 B.M. 32 TOP OF 4' BOULDER, 34' RT. OF STA 370+68 - ELEV. 321.78

SERIES NO 151-11
 SHEET NO 71

WOOD GUARD RAIL REQUIRED

CULV. STA.	LEFT	RIGHT
373+00	24'	24'
377+50	24'	24'
381+45	24'	24'

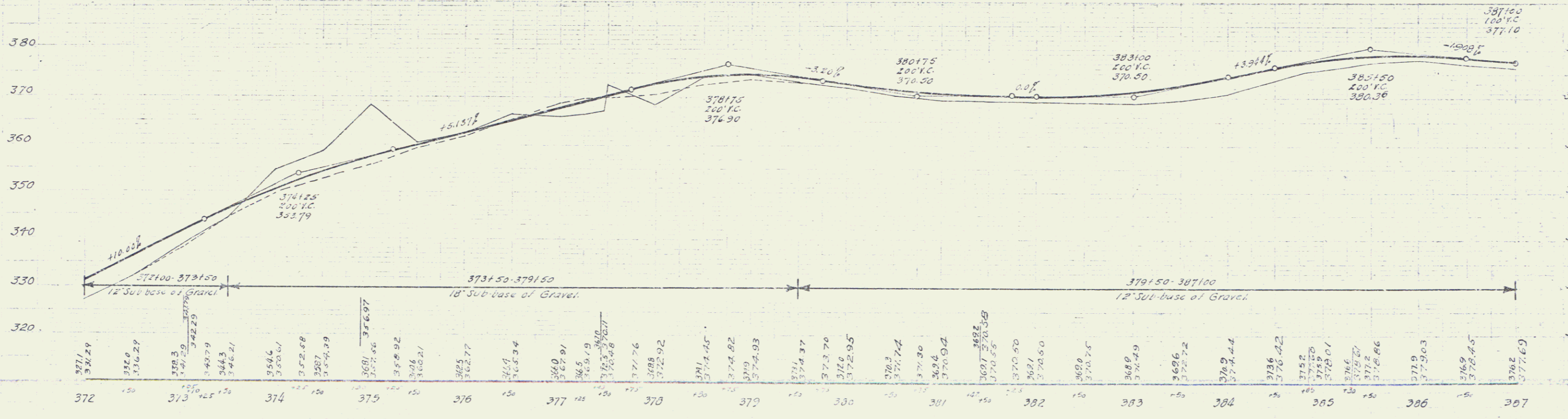
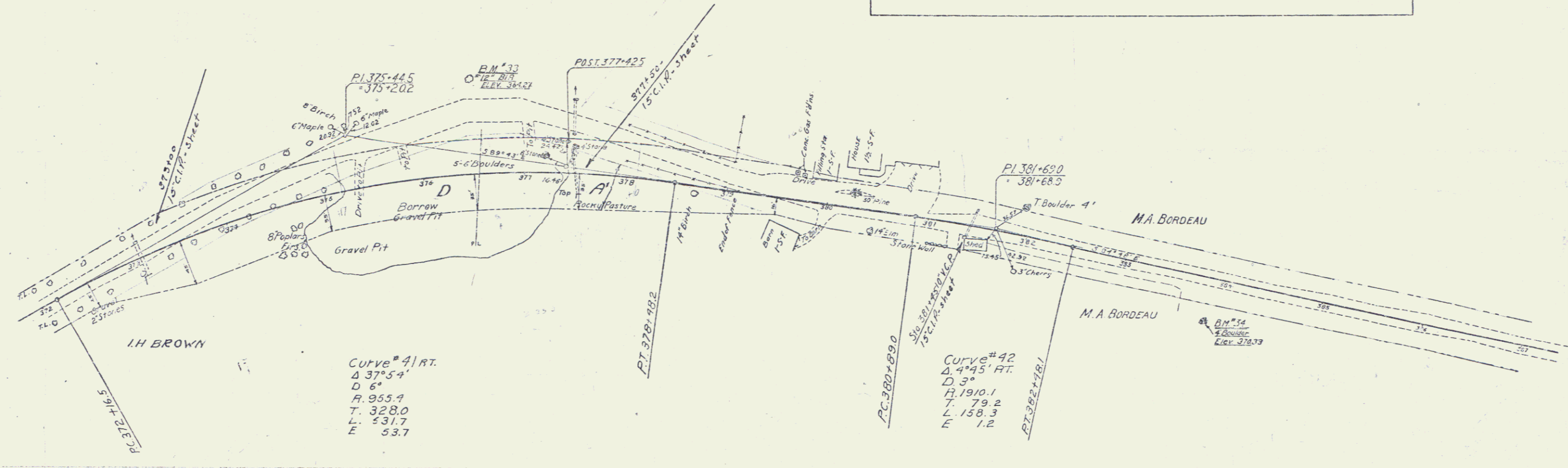
CABLE GUARD RAIL REQUIRED

STATIONS	LEFT	RIGHT	DAY LANE
372+00-373+00	21'	20'	23'

NEW CAST IRON PIPE CULVERTS REQUIRED

STATION	DIAM	LENG	CONC. A	CONC. C	BRIDGE STEEL
373+00	15"	42'	1.54		73.10
377+50	15"	48'	1.54		73.10
381+45	15"	36'	1.54		157.18

Pencil	Kind of Instrument	Date of Instrument	Grantor	Grantee	Plotted	Remarks
D	A.C.D.	7-30-31	Ed. Gerrie Brown	Staff	22	55' 10-6-31
2'	"	9-14-31	Moulder	Bordeaux	22	38' 10-4-31



BM #33 12" BIR 96' LT OF STA 376+50 ELEV 364.27
 BM #34 BOULDER 41' RT OF STA 383+00 ELEV 370.33

SERIES No. 131A
 SHEET 21 OF 71

WOOD GUARD RAIL RECALC'D

STATION	LEFT	RIGHT
387+78	24'	24'
394+00	24'	24'
397+50	24'	24'
400+75	24'	24'
401+50	24'	24'

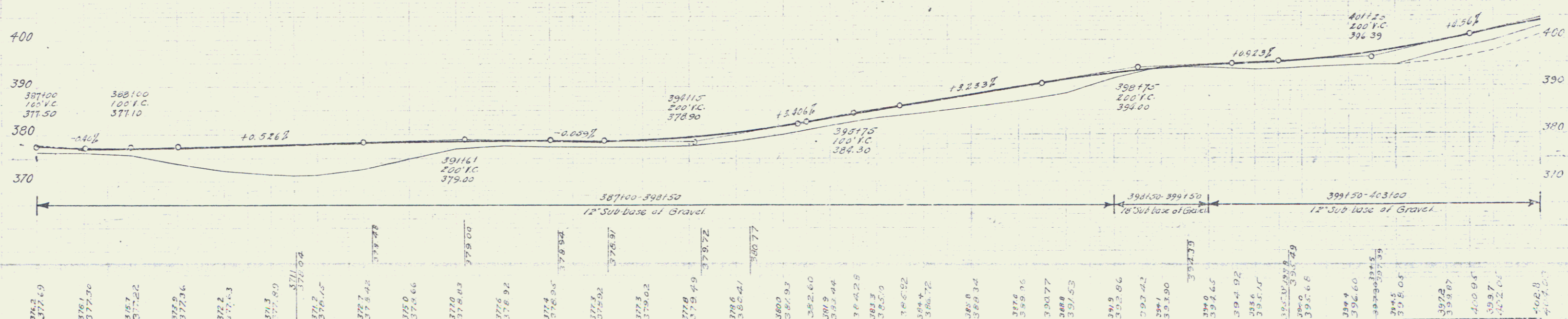
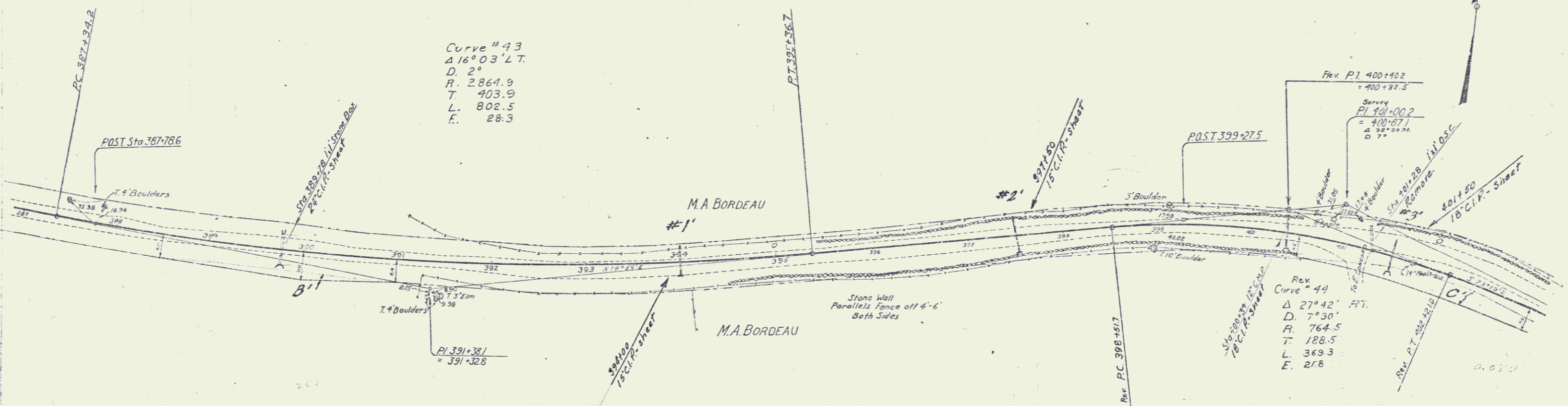
NEW CAST IRON PIPE CONCRETE REQUIRED

STATION	DIAM.	LENGTH	CLASS	CLASS	DEPTH	FEET
387+78	24"	45'	27.0		5'	51.45
394+00	18"	33'	18.0		7'	73.15
397+50	18"	36'	15.0		7'	73.15
400+75	18"	34'	10.0		7'	67.15
401+50	18"	45'	10.0		7'	67.15

Parcel Map of Date of Grantor Grantee Recorded Remarks
 Instrument Instrument
 S.C. Cult. 11, 283' G.C.D. 3-1A-31 Maude A. Bourdeau Steffli. 22 38A 10-4-31 397+50-401+50

131A 194 22A 71

Curve #43
 $\Delta 16^{\circ} 03' L.T.$
 $D 2^{\circ}$
 $R 2864.9$
 $T 403.9$
 $L 802.5$
 $E 28.3$



376.2	377.69	379.1	377.70	379.2	377.22	379.3	377.36	379.4	377.4	379.5	377.5	379.6	377.6	379.7	377.7	379.8	377.8	379.9	377.9	380.0	378.0	380.1	378.1	380.2	378.2	380.3	378.3	380.4	378.4	380.5	378.5	380.6	378.6	380.7	378.7	380.8	378.8	380.9	378.9	381.0	379.0	381.1	379.1	381.2	379.2	381.3	379.3	381.4	379.4	381.5	379.5	381.6	379.6	381.7	379.7	381.8	379.8	381.9	379.9	382.0	380.0	382.1	380.1	382.2	380.2	382.3	380.3	382.4	380.4	382.5	380.5	382.6	380.6	382.7	380.7	382.8	380.8	382.9	380.9	383.0	381.0	383.1	381.1	383.2	381.2	383.3	381.3	383.4	381.4	383.5	381.5	383.6	381.6	383.7	381.7	383.8	381.8	383.9	381.9	384.0	382.0	384.1	382.1	384.2	382.2	384.3	382.3	384.4	382.4	384.5	382.5	384.6	382.6	384.7	382.7	384.8	382.8	384.9	382.9	385.0	383.0	385.1	383.1	385.2	383.2	385.3	383.3	385.4	383.4	385.5	383.5	385.6	383.6	385.7	383.7	385.8	383.8	385.9	383.9	386.0	384.0	386.1	384.1	386.2	384.2	386.3	384.3	386.4	384.4	386.5	384.5	386.6	384.6	386.7	384.7	386.8	384.8	386.9	384.9	387.0	385.0	387.1	385.1	387.2	385.2	387.3	385.3	387.4	385.4	387.5	385.5	387.6	385.6	387.7	385.7	387.8	385.8	387.9	385.9	388.0	386.0	388.1	386.1	388.2	386.2	388.3	386.3	388.4	386.4	388.5	386.5	388.6	386.6	388.7	386.7	388.8	386.8	388.9	386.9	389.0	387.0	389.1	387.1	389.2	387.2	389.3	387.3	389.4	387.4	389.5	387.5	389.6	387.6	389.7	387.7	389.8	387.8	389.9	387.9	390.0	388.0	390.1	388.1	390.2	388.2	390.3	388.3	390.4	388.4	390.5	388.5	390.6	388.6	390.7	388.7	390.8	388.8	390.9	388.9	391.0	389.0	391.1	389.1	391.2	389.2	391.3	389.3	391.4	389.4	391.5	389.5	391.6	389.6	391.7	389.7	391.8	389.8	391.9	389.9	392.0	390.0	392.1	390.1	392.2	390.2	392.3	390.3	392.4	390.4	392.5	390.5	392.6	390.6	392.7	390.7	392.8	390.8	392.9	390.9	393.0	391.0	393.1	391.1	393.2	391.2	393.3	391.3	393.4	391.4	393.5	391.5	393.6	391.6	393.7	391.7	393.8	391.8	393.9	391.9	394.0	392.0	394.1	392.1	394.2	392.2	394.3	392.3	394.4	392.4	394.5	392.5	394.6	392.6	394.7	392.7	394.8	392.8	394.9	392.9	395.0	393.0	395.1	393.1	395.2	393.2	395.3	393.3	395.4	393.4	395.5	393.5	395.6	393.6	395.7	393.7	395.8	393.8	395.9	393.9	396.0	394.0	396.1	394.1	396.2	394.2	396.3	394.3	396.4	394.4	396.5	394.5	396.6	394.6	396.7	394.7	396.8	394.8	396.9	394.9	397.0	395.0	397.1	395.1	397.2	395.2	397.3	395.3	397.4	395.4	397.5	395.5	397.6	395.6	397.7	395.7	397.8	395.8	397.9	395.9	398.0	396.0	398.1	396.1	398.2	396.2	398.3	396.3	398.4	396.4	398.5	396.5	398.6	396.6	398.7	396.7	398.8	396.8	398.9	396.9	399.0	397.0	399.1	397.1	399.2	397.2	399.3	397.3	399.4	397.4	399.5	397.5	399.6	397.6	399.7	397.7	399.8	397.8	399.9	397.9	400.0	398.0	400.1	398.1	400.2	398.2	400.3	398.3	400.4	398.4	400.5	398.5	400.6	398.6	400.7	398.7	400.8	398.8	400.9	398.9	401.0	399.0	401.1	399.1	401.2	399.2	401.3	399.3	401.4	399.4	401.5	399.5	401.6	399.6	401.7	399.7	401.8	399.8	401.9	399.9	402.0	400.0	402.1	400.1	402.2	400.2	402.3	400.3	402.4	400.4	402.5	400.5	402.6	400.6	402.7	400.7	402.8	400.8	402.9	400.9	403.0	401.0	403.1	401.1	403.2	401.2	403.3	401.3	403.4	401.4	403.5	401.5	403.6	401.6	403.7	401.7	403.8	401.8	403.9	401.9	404.0	402.0	404.1	402.1	404.2	402.2	404.3	402.3	404.4	402.4	404.5	402.5	404.6	402.6	404.7	402.7	404.8	402.8	404.9	402.9	405.0	403.0	405.1	403.1	405.2	403.2	405.3	403.3	405.4	403.4	405.5	403.5	405.6	403.6	405.7	403.7	405.8	403.8	405.9	403.9	406.0	404.0	406.1	404.1	406.2	404.2	406.3	404.3	406.4	404.4	406.5	404.5	406.6	404.6	406.7	404.7	406.8	404.8	406.9	404.9	407.0	405.0	407.1	405.1	407.2	405.2	407.3	405.3	407.4	405.4	407.5	405.5	407.6	405.6	407.7	405.7	407.8	405.8	407.9	405.9	408.0	406.0	408.1	406.1	408.2	406.2	408.3	406.3	408.4	406.4	408.5	406.5	408.6	406.6	408.7	406.7	408.8	406.8	408.9	406.9	409.0	407.0	409.1	407.1	409.2	407.2	409.3	407.3	409.4	407.4	409.5	407.5	409.6	407.6	409.7	407.7	409.8	407.8	409.9	407.9	410.0	408.0	410.1	408.1	410.2	408.2	410.3	408.3	410.4	408.4	410.5	408.5	410.6	408.6	410.7	408.7	410.8	408.8	410.9	408.9	411.0	409.0	411.1	409.1	411.2	409.2	411.3	409.3	411.4	409.4	411.5	409.5	411.6	409.6	411.7	409.7	411.8	409.8	411.9	409.9	412.0	410.0	412.1	410.1	412.2	410.2	412.3	410.3	412.4	410.4	412.5	410.5	412.6	410.6	412.7	410.7	412.8	410.8	412.9	410.9	413.0	411.0	413.1	411.1	413.2	411.2	413.3	411.3	413.4	411.4	413.5	411.5	413.6	411.6	413.7	411.7	413.8	411.8	413.9	411.9	414.0	412.0	414.1	412.1	414.2	412.2	414.3	412.3	414.4	412.4	414.5	412.5	414.6	412.6	414.7	412.7	414.8	412.8	414.9	412.9	415.0	413.0	415.1	413.1	415.2	413.2	415.3	413.3	415.4	413.4	415.5	413.5	415.6	413.6	415.7	413.7	415.8	413.8	415.9	413.9	416.0	414.0	416.1	414.1	416.2	414.2	416.3	414.3	416.4	414.4	416.5	414.5	416.6	414.6	416.7	414.7	416.8	414.8	416.9	414.9	417.0	415.0	417.1	415.1	417.2	415.2	417.3	415.3	417.4	415.4	417.5	415.5	417.6	415.6	417.7	415.7	417.8	415.8	417.9	415.9	418.0	416.0	418.1	416.1	418.2	416.2	418.3	416.3	418.4	416.4	418.5	416.5	418.6	416.6	418.7	416.7	418.8	416.8	418.9	416.9	419.0	417.0	419.1	417.1	419.2	417.2	419.3	417.3	419.4	417.4	419.5	417.5	419.6	417.6	419.7	417.7	419.8	417.8	419.9	417.9	420.0	418.0	420.1	418.1	420.2	418.2	420.3	418.3	420.4	418.4	420.5	418.5	420.6	418.6	420.7	418.7	420.8	418.8	420.9	418.9	421.0	419.0	421.1	419.1	421.2	419.2	421.3	419.3	421.4	419.4	421.5	419.5	421.6	419.6	421.7	419.7	421.8	419.8	421.9	419.9	422.0	420.0	422.1	420.1	422.2	420.2	422.3	420.3	422.4	420.4	422.5	420.5	422.6	420.6	422.7	420.7	422.8	420.8	422.9	420.9	423.0	421.0	423.1	421.1	423.2	421.2	423.3	421.3	423.4	421.4	423.5	421.5	423.6	421.6	423.7	421.7	423.8	421.8	423.9	421.9	424.0	422.0	424.1	422.1	424.2	422.2	424.3	422.3	424.4	422.4	424.5	422.5	424.6	422.6	424.7	422.7	424.8	422.8	424.9	422.9	425.0	423.0	425.1	423.1	425.2	423.2	425.3	423.3	425.4	423.4	425.5	423.5	425.6	423.6	425.7	423.7	425.8	423.8	425.9	423.9	426.0	424.0	426.1	424.1	426.2	424.2	426.3	424.3	426.4	424.4	426.5	424.5	426.6	424.6	426.7	424.7	426.8	424.8	426.9	424.9	427.0	425.0	427.1	425.1	427.2	425.2	427.3	425.3	427.4	425.4	427.5	425.5	427.6	425.6	427.7	425.7	427.8	425.8	427.9	425.9	428.0	426.0	428.1	426.1	428.2	426.2	428.3	426.3	428.4	426.4	428.5	426.5	428.6	426.6	428.7	426.7	428.8	426.8	428.9	426.9	429.0	427.0
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WOOD SUPPLY RAIL RESUMED

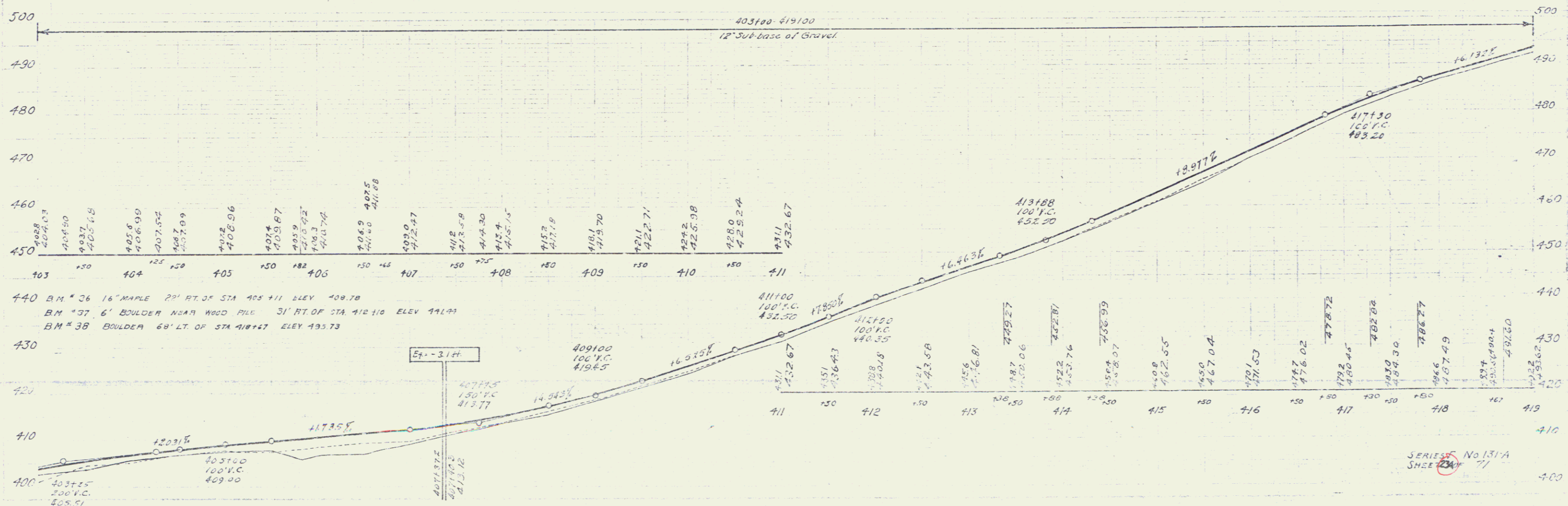
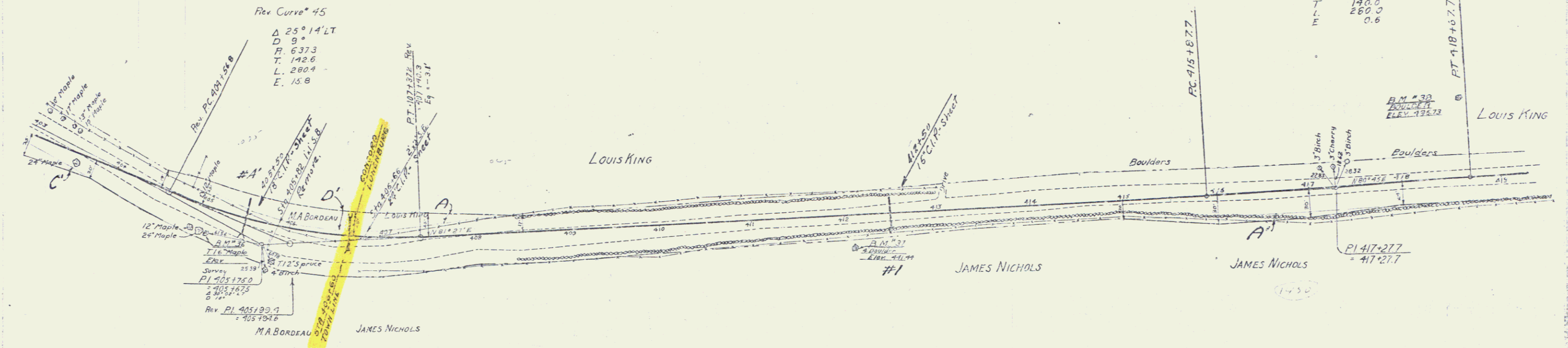
STATION	LEFT	RIGHT
405+00	2.4'	2.4'
406+00	2.4'	2.4'
412+50	2.4'	2.4'

NEW CURVE DATA - SCHEDULE REQUIRED

STATION	FROM	TO	CLASS	GRADE	BEFORE	AFTER
405+00	18"	42"	10		27.162	
406+00	24"	39"	2.9		34.182	
412+50	15"	39"	1.5		73.182	

Parcel	Kind of Instrument	Date of Instrument	Operator	Grantee	Recorded	Remarks
C. J. Clark	Co.D.	9-14-31	Mark A. Boudreau	Stof H. 22	10-5-31	10-5-31 Cult. Sta. 413+00
A. G. H. 1	"	9-14-31	Louis King	"	10-5-31	10-5-31 Cult. Sta. 413+00
A. G. H. 1	"	9-14-31	James Nichols	"	10-5-31	10-5-31 Cult. Sta. 413+00

Curve # 46
 Δ 0° 42' LT.
 D 9° 15'
 R 222718.3
 T 190.0
 L 280.0
 E 0.6

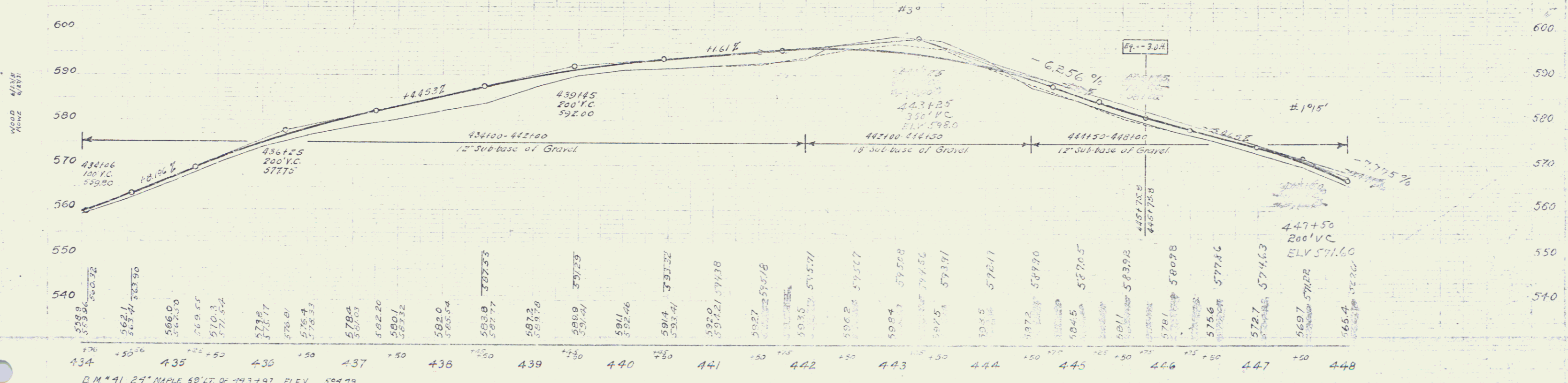
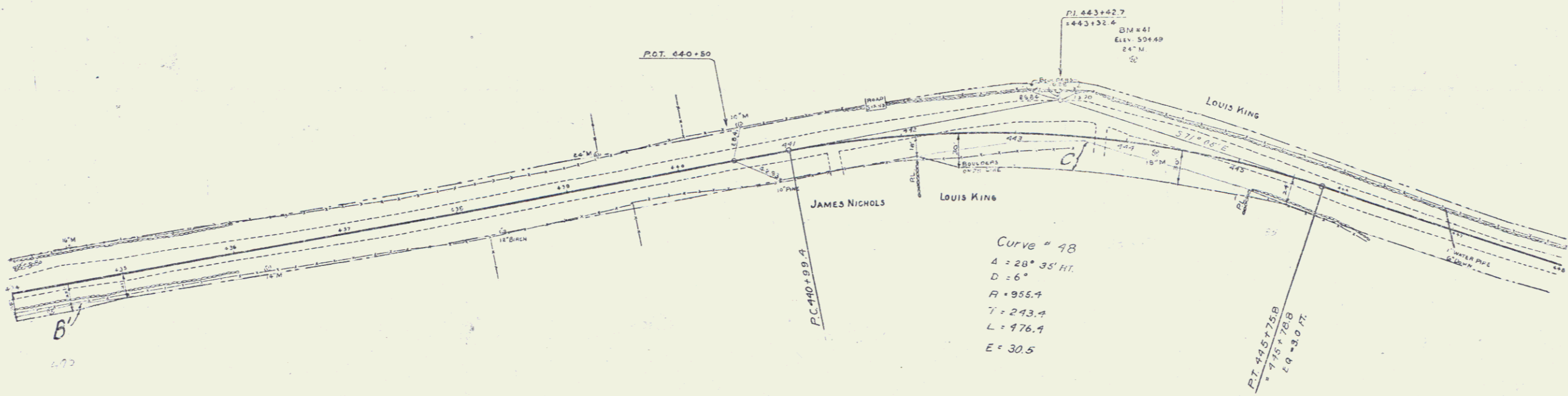


440 B.M. # 26 16" MAPLE 22' RT. OF STA 405+11 ELEV 408.78
 B.M. # 27 6' BOULDER NEAR WOOD PILE 31' RT. OF STA 412+10 ELEV 414.99
 B.M. # 28 BOULDER 68' LT. OF STA 418+27 ELEV 433.73

SERIES No 131-A
 SHEET 77

Parcel	Kind of Instrument	Date of Instrument	Grantor	Grantee	Recorded	Remarks
C	O.C.D.	9-11-31	Louis King	St. of Va.	Book Page Date	
D	"	9-14-31	James Nichols	"	25 368 10-5-31	

137A, 1931 25A 71



D.M. # 41 29' MAPLE 50' LT. OF 1937 97 ELEV. 594.99

SERIES F No 131-A
SHEET 25A OF 71

WOOD GUARD RAIL PROVIDED

STA	LEFT	RIGHT
449+80	24'	24'
456+75	24'	24'
462+50	24'	24'

NEW CAST IRON PIPE CONCRETE REQUIRED

STATION	DIAM	LENG	CLASS	WASER	HEINT	STEEL
449+80	24"	43'	24"			54 lbs.
462+50	24"	33'	24"			54 lbs.

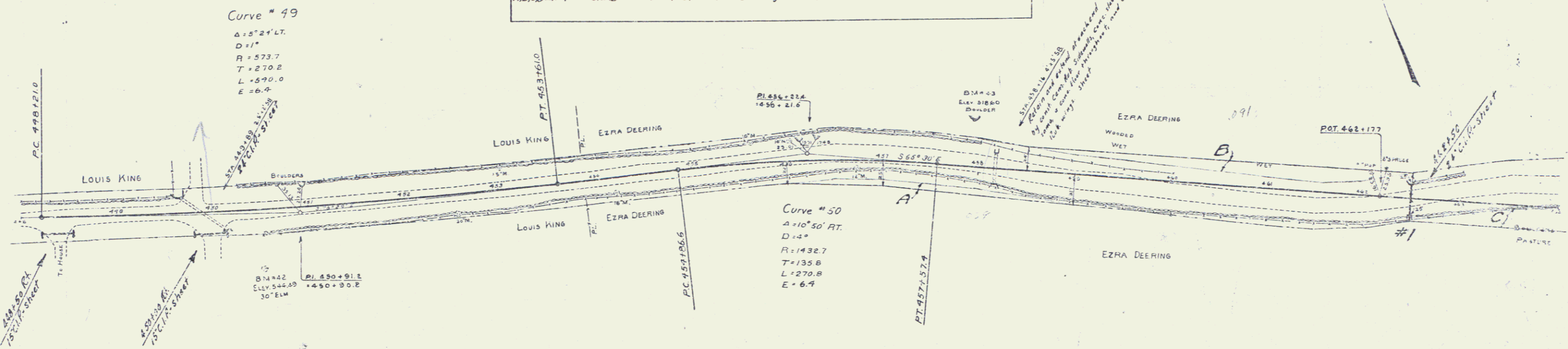
CULVERT REINFORCING REQUIRED

STA	SIZE	CONE	NO	SPAC	COR	REIN	REIN
449+80	48"	15'	27'	23"			33
462+00	48"	15'	30'	23"			33

NEW CAST IRON DRIVEWAY ROPS REQUIRED

STA	DIAM	LENG	CORN	RIP	WAS
449+80	12"	27'			23.5"
462+00	12"	30'			23.5"

Parcel	Kind of Instrument	Date of Grant	Grantor	Grantee	Recorded	Remarks
A.B.C. 4th #1	O.C.D.	9-14-31	Ezra Deering	Stet #1	15 366	10-5-91 Cul. Sta 453+50



B.M. #42 30' EUM 60' RT OF 450+50 ELEV 547.49
 B.M. #43 BOULDER 76' LT OF STA 457+92 ELEV 519.60

SERIES F NO. 121-A
 SHEET 264 OF 71

26

WOOD GUARD RAIL REQUIRED

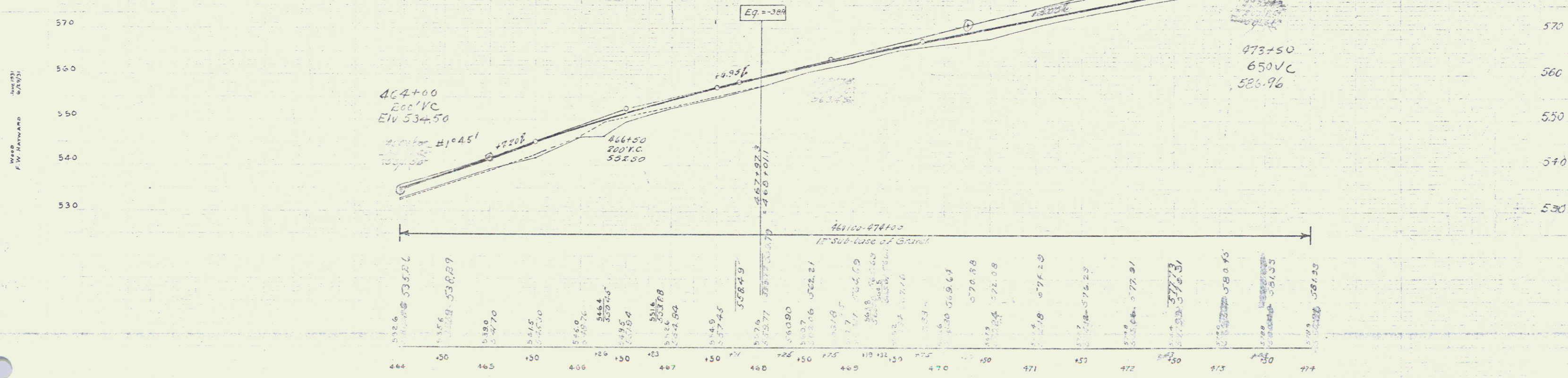
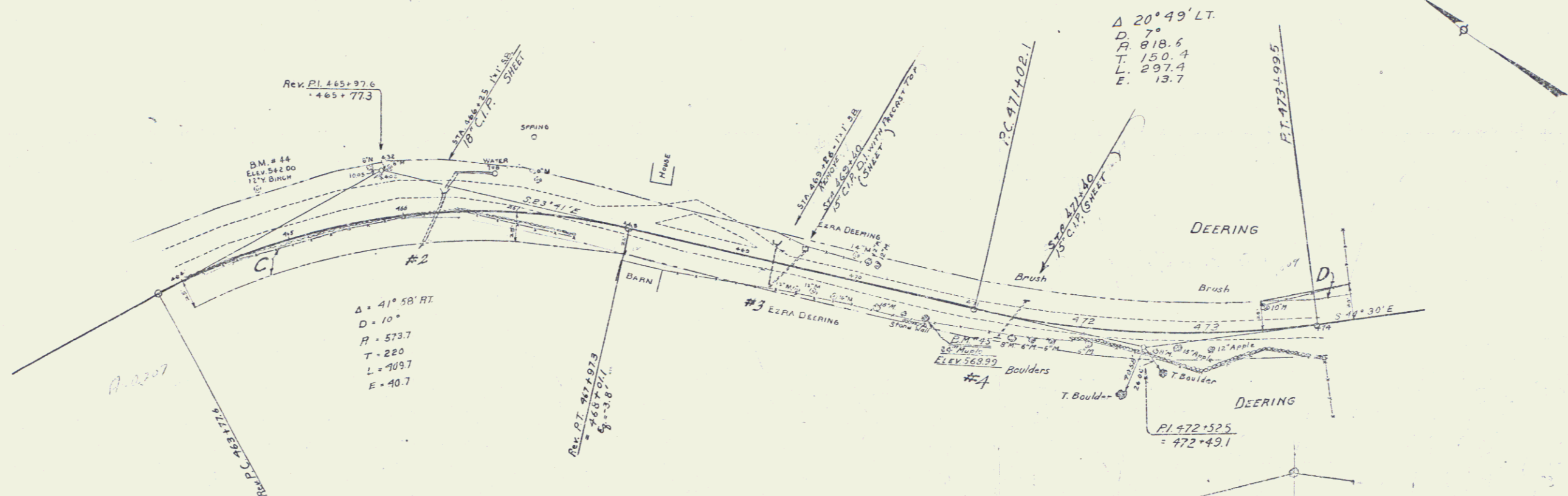
STATION	LEFT	RIGHT
464+00	2'	2'
465+00	2'	2'
466+00	2'	2'
467+00	2'	2'
468+00	2'	2'
469+00	2'	2'
470+00	2'	2'
471+00	2'	2'
472+00	2'	2'
473+00	2'	2'
474+00	2'	2'
475+00	2'	2'
476+00	2'	2'
477+00	2'	2'

NEW CAST IRON PIPE CULVERTS REQUIRED

STATION	DRAIN	LENGTH	CLASS	CLASS C	PIPE SIZE
465+00	18"	42'	1024		27"
469+00	15"	45'	15"		15"
471+00	15"	42'	2.3 cy		33"

Parcel	Kind of Instrument	Date of Grantor	Grantee	Recorded	Remarks
C. 22493, 24A R.C.D.		8-1A-31	Ezra Deering	Steph. 25 356	Book Page Date (Culverts added)

NO. 131-A 1934 27A 71



SERIES F No. 131-A
SHEET 27A OF 71

WOOD GUARD RAIL REQUIRED

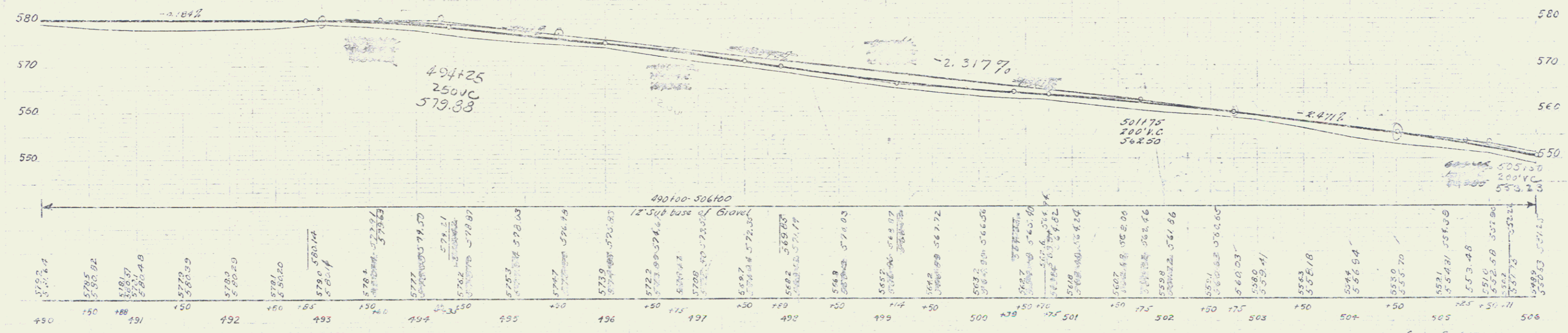
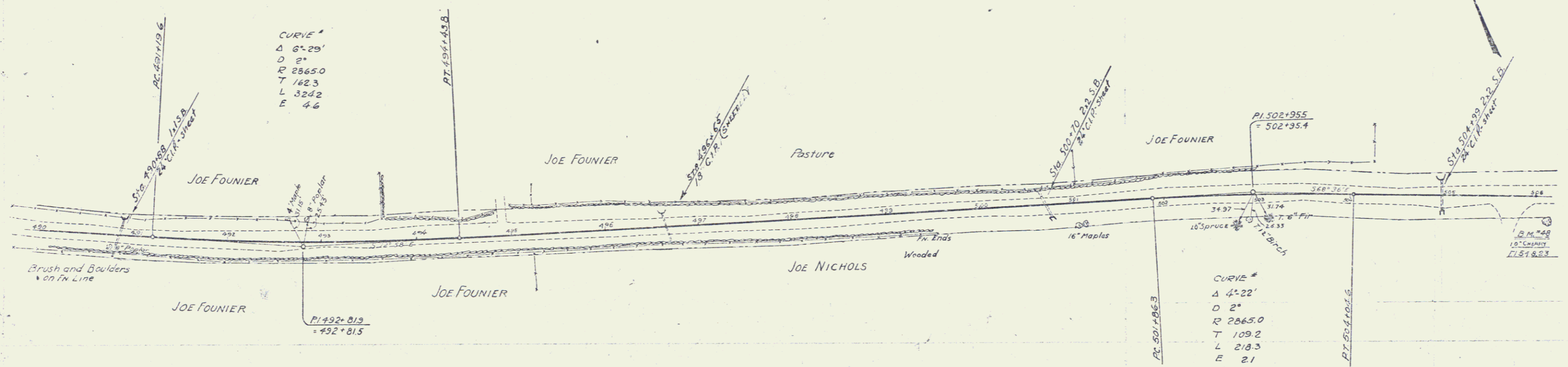
CULV STA.	LEFT	RIGHT
490+88	24'	24'
493+65	24'	24'
500+70	24'	24'
504+99	24'	24'

NEW CAST IRON PIPE CURVE(S) REQUIRED

Sta.	Diam.	Length	Conc. H.	Steel
490+88	24"	42'	1.3CY	27"
493+65	18"	36'	1.0	21"
500+70	24"	36'	1.4	34"
504+99	24"	36'	2.4	34"

STATE OF OHIO
 COUNTY OF CUYAHOGA
 137A 1931 29A 71

POOR ORIGINAL COPY



490+00 - 506+00
 12" sub base of Gravel

490	579.24
150	579.5
188	579.82
191	580.07
	580.37
	580.67
	580.97
150	581.27
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Wood Guide Post Required

STATION	LEFT	RIGHT
510+12	24'	24'
511+50		

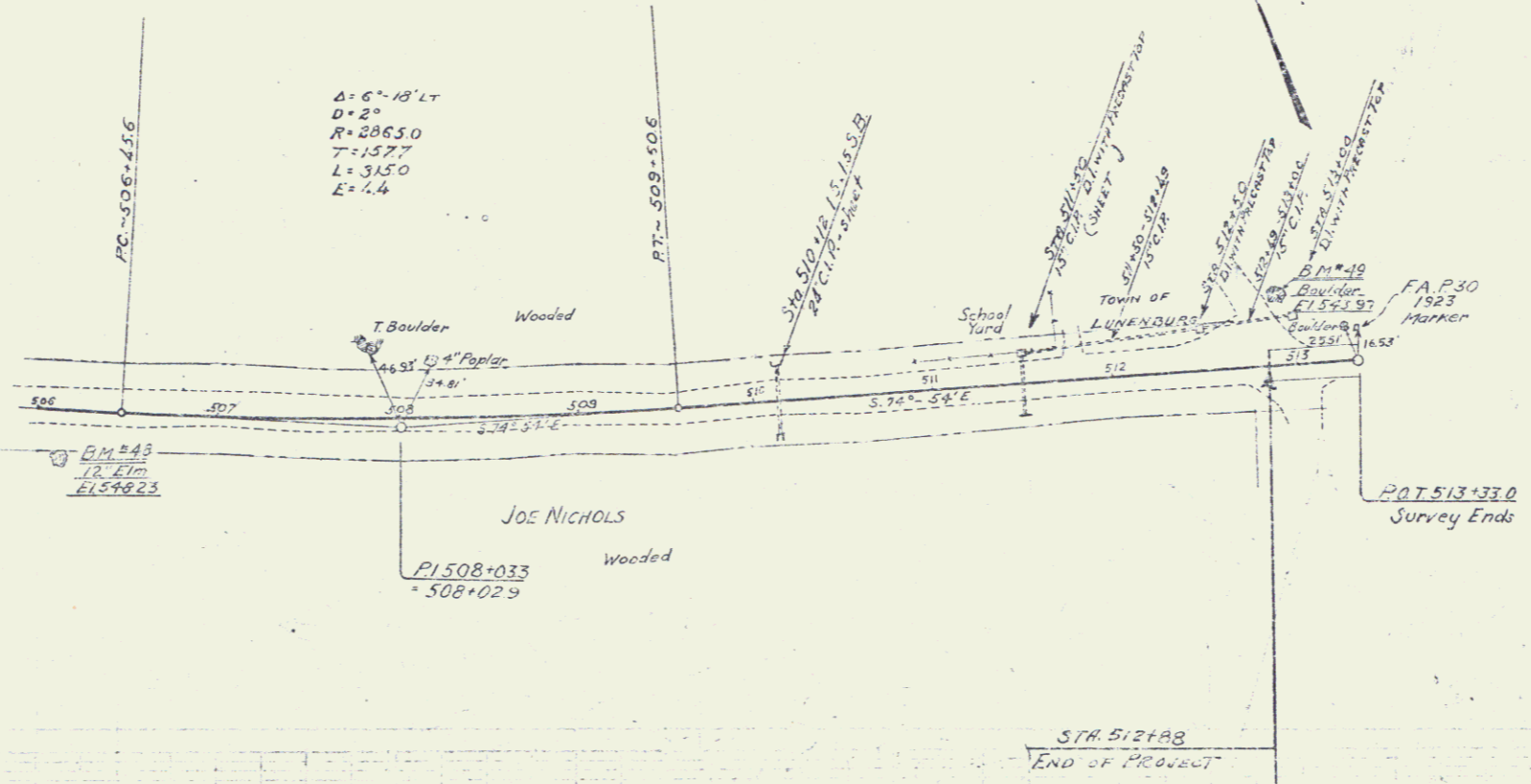
WOOD GUIDE POSTS REQUIRED

STATION	LEFT	RIGHT
511+50	/	/
512+50	/	/
513+00	/	/

NEW CURB AND GUTTER REQUIRED

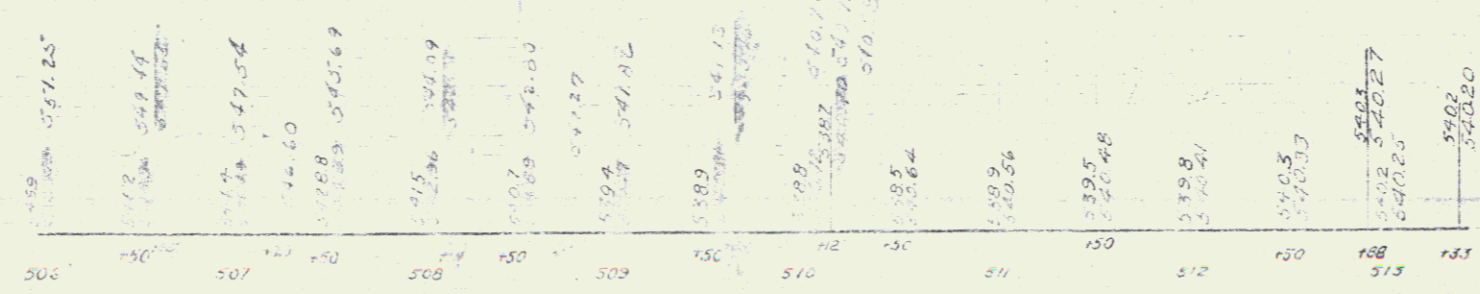
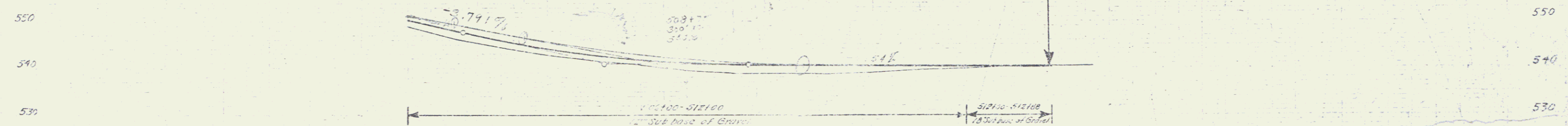
Sta.	Dist.	Long.	Comp. C.	Steel
511+12	24'	36"	24"	52"
511+50	15'	33"	18"	176"
511+50-512+50	15'	33"	18"	182"
512+50-513+00	15'	31"	15"	187"

Δ = 6°-18' LT
 D = 2°
 R = 8865.0
 T = 157.7
 L = 315.0
 E = 1.4



POOR ORIGINAL COPY

Wood
 AC Flangers
 AT
 1/2" x 1/2"



BM #48 12" Elm near Sta 506+00 E 548.23
 BM #49 Boulder near Sta 513+00 E 543.79

Series C No 131-A
 Street Map of 71