

TYPE B

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

FEDERAL AID PROJECT

TOWNS OF

MANCHESTER, SUNDERLAND AND ARLINGTON

MANCHESTER-BENNINGTON ROAD

FROM THE CONCRETE PAVEMENT IN MANCHESTER VILLAGE SOUTHERLY 8.736 MILES

LENGTH OF PROJECT INCLUDING BRIDGES OVER 20 FOOT SPAN= 46,128.6 FEET= 8.736 MILES
LENGTH OF PROJECT EXCLUDING BRIDGES OVER 20 FOOT SPAN= 45,951.6 FEET= 8.702 MILES

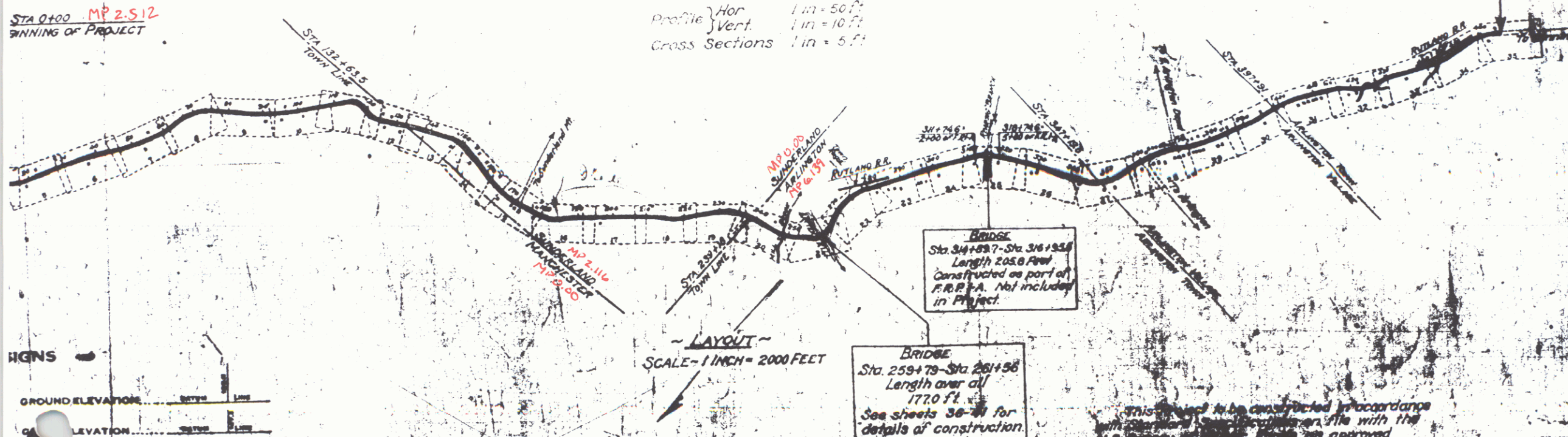


SCALE - 1 INCH = 4 MILES

STA 0+00 MP 2.512
BEGINNING OF PROJECT

STA 465+00
END OF PROJECT
MP 1.852

SCALES
Plan 1 in = 50 ft
Profile Hor 1 in = 50 ft
Vert 1 in = 10 ft
Cross Sections 1 in = 5 ft



BRIDGE
Sta. 34+63.7 - Sta. 36+85.8
Length 222.1 Feet
Constructed as part of
F.R.R.P.A. Not included
in Project.

BRIDGE
Sta. 259+75 - Sta. 261+56
Length over all
1770 ft.
See sheets 36-37 for
details of construction.

LAYOUT
SCALE - 1 INCH = 2000 FEET

VERTICAL CURVES
GROUND ELEVATION
PROPOSED ELEVATION

CURVE DATA
DEFLECTION ANGLE
DEGREE OF CURVE
RADIUS OF CURVE
TANGENT DISTANCE

Pin# 99K75
11129
VTR 7A
Project No. F104A

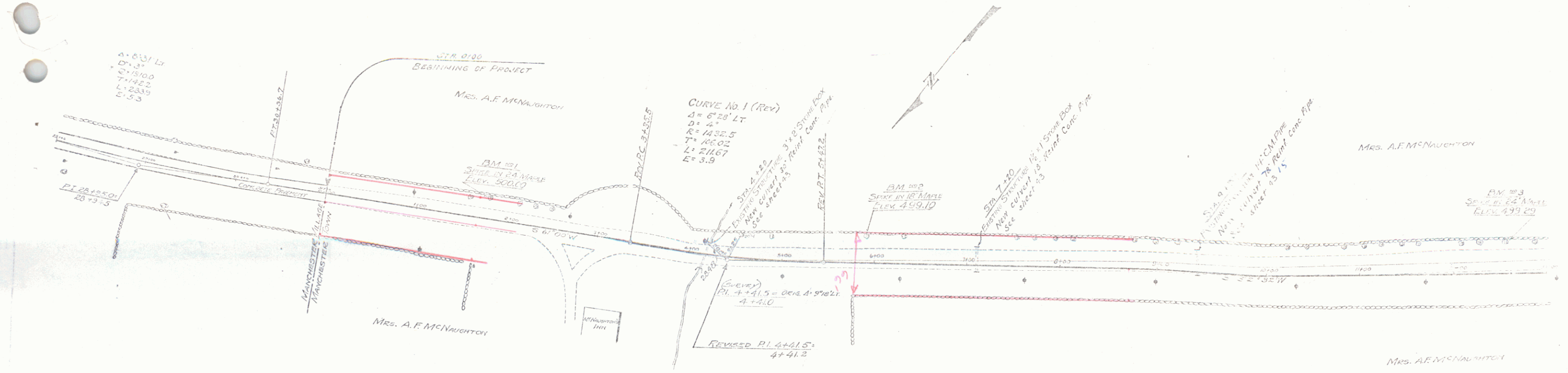
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Vertical Curve Data

Station	Length	Grade
4101-4145	44 ft	4.4%
4108-4132	24 ft	-
4138-4142	4 ft	2.4%
4145-4149	4 ft	2.4%

Curve Data

Station	Dist.	Long. Cont. A	Cont. B
7120	30'	34.6'	35.4'
7120	16'	31.4'	34.6'
7127	15'	32.0'	32.0'



4+00 - 9+50
12" sub base of gravel
8' wide on right

9+50 - 13+00
12" sub base of
gravel 10' wide on R+.

Station	Elevation	Station	Elevation
0+00	499.77	10+00	500.70
1+00	500.00	11+00	500.70
2+00	501.57	12+00	500.70
3+00	502.00	13+00	500.70
4+00	502.00	14+00	500.70
5+00	502.00	15+00	500.70
6+00	501.20	16+00	500.70
7+00	501.20	17+00	500.70
8+00	501.20	18+00	500.70
9+00	501.20	19+00	500.70
10+00	501.20	20+00	500.70
11+00	501.20	21+00	500.70
12+00	500.70	22+00	500.70
13+00	500.70	23+00	500.70
14+00	500.70	24+00	500.70
15+00	500.70	25+00	500.70
16+00	500.70	26+00	500.70
17+00	500.70	27+00	500.70
18+00	500.70	28+00	500.70
19+00	500.70	29+00	500.70
20+00	500.70	30+00	500.70

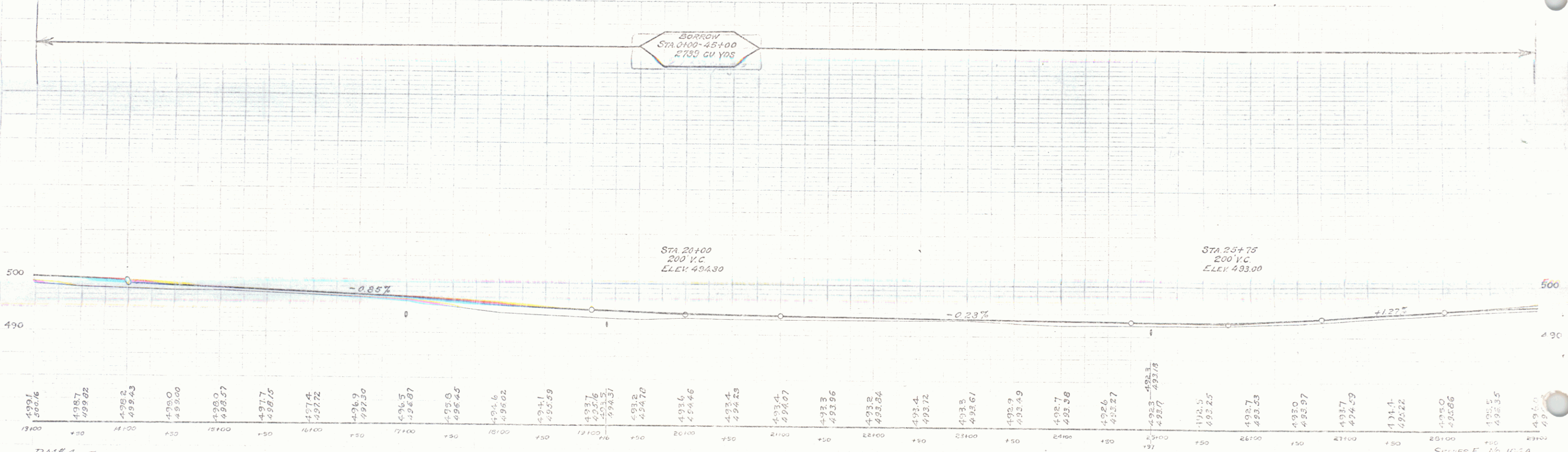
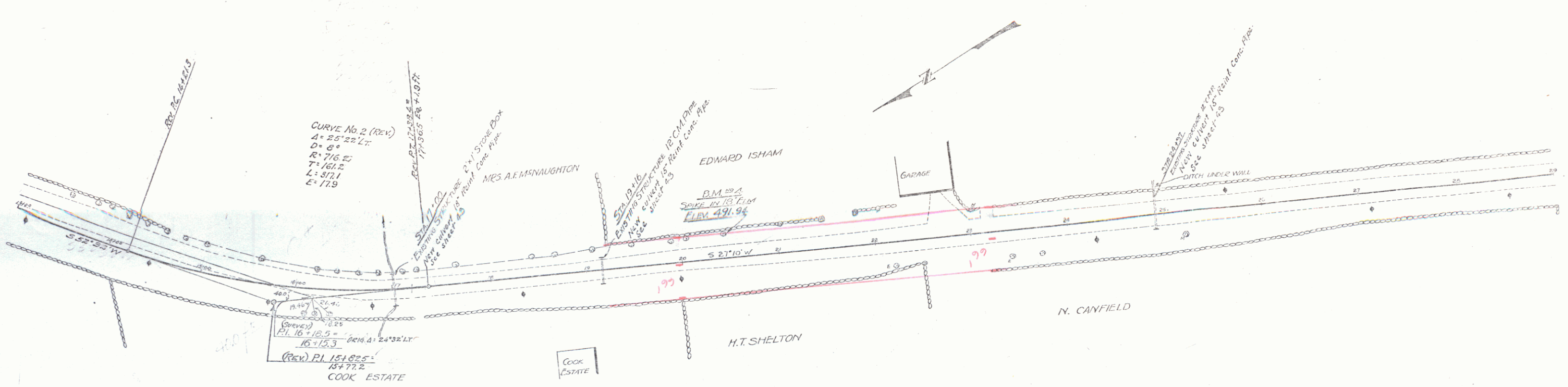
SECTION No. 1004
SHEET 4 OF 24 SHEETS

WOOD GUARD RAIL REQUIRED

Stations	Left	Right
16100-17112	24 ft	24 ft
17104-19148	24 ft	24 ft
24185-25120	24 ft	24 ft

NEW FIELD CONC. PIPE CULVERTS REQUIRED

Station	Diag.	Len.	Conc. B.	Steel
17100	18"	22 ft	3000	24# 34#
19116	15"	22 ft	2400	34# 34#
24127	15"	22 ft	2400	34#



BM #4 - SPIKE IN TRUNK OF 18" ELM 26' LT. OF STA. 20+47 - ELEV. = 491.94

SERIES F 16.10-7A
SHEET 6 OF 25 SHEETS

CABLE GUARD RAIL REQUIRED

Stations	Lt/Right	Dist.
44763-45103	40'	
44730-44790		
44757-45100	43 ft	
44773-44797	24	

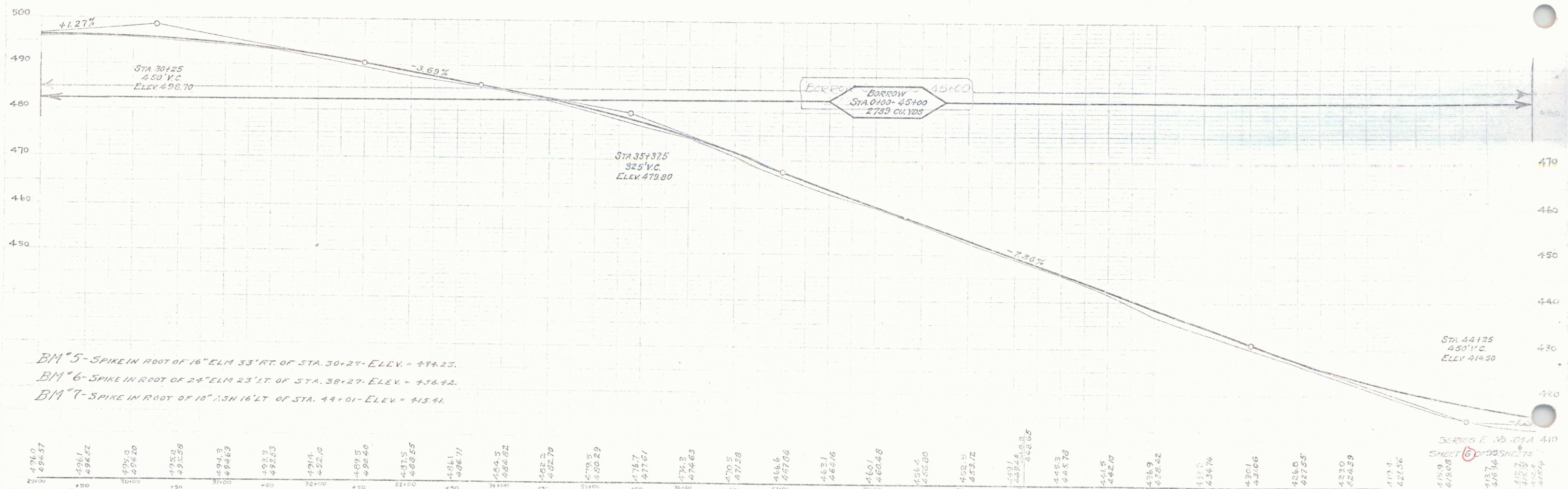
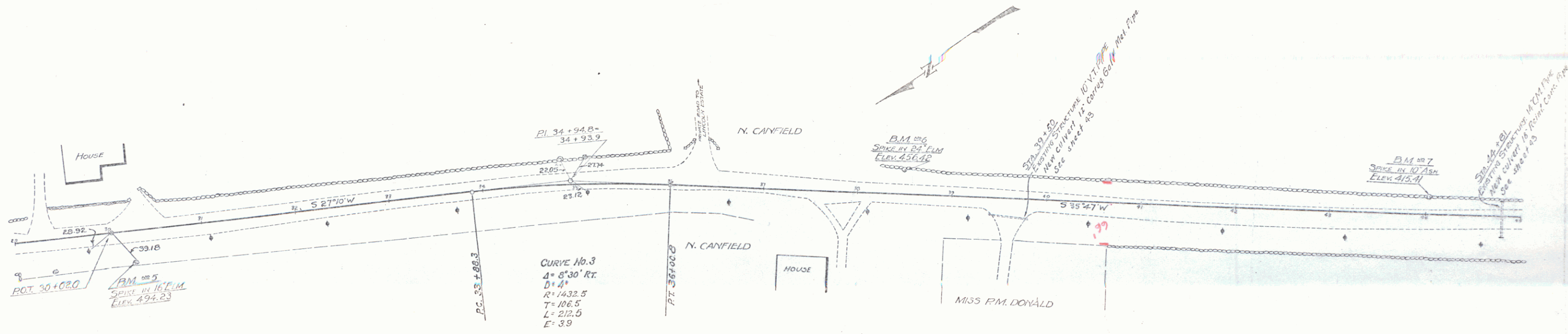
NEW BRICK CONC. PIPE CONCRETS REQUIRED

Station	From	Length	Comp. B	Steel
44181	15'	44'	3-5	25

NEW DOWNSIDE PIPE CONCRETS REQUIRED

Station	From	Length	Comp. B	Steel
39150	11'	44'	3-5	25

104A 1957 6 90



BM[#]5 - SPIKE IN ROOT OF 16" ELM 33' RT. OF STA. 30+27 - ELEV. = 494.23.
 BM[#]6 - SPIKE IN ROOT OF 2" ELM 23' LT. OF STA. 38+27 - ELEV. = 456.42.
 BM[#]7 - SPIKE IN ROOT OF 10" ASH 16' LT. OF STA. 44+01 - ELEV. = 413.41.

A.A. DRE
 E.C. BALL
 R.P. KENNEDY
 CIV. ENGR.
 INC. 1950
 Jan. 1950
 Dec. 1950

SHEET 6 OF 9 SHEETS
 SERIES E No. 101A 410

WOOD GUARD RAIL REQUIRED

Stations	Left	Right
53159-53181	14 H.	24 H.
53182-53189	14 H.	24 H.

CABLE GUARD RAIL REQUIRED

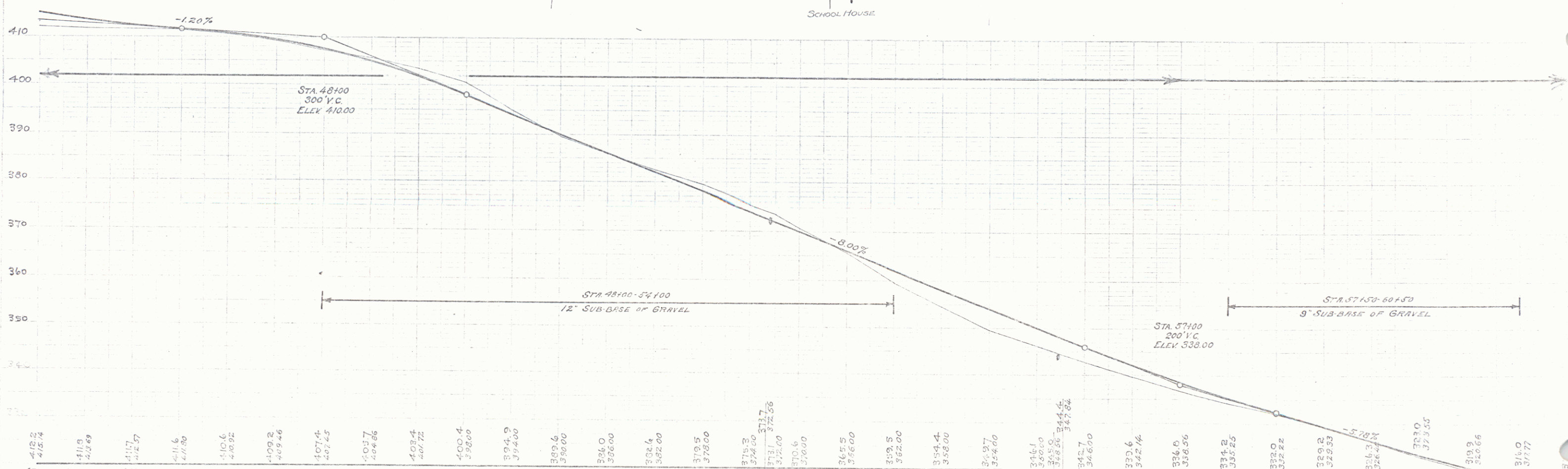
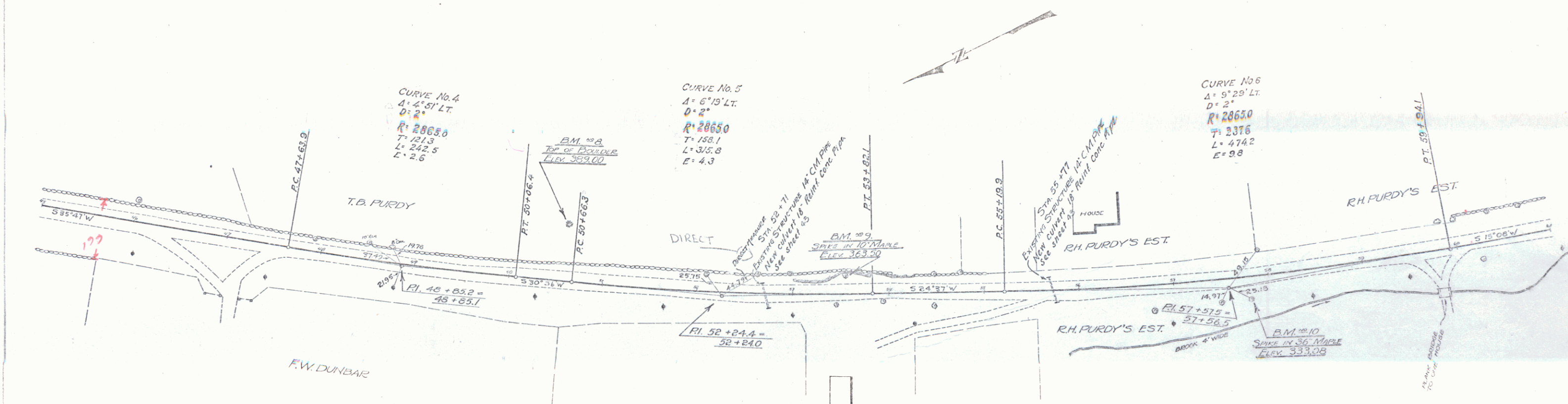
Stations	Left	Right
43300-43305	5 H.	5 H.
45130-45136	60 H.	73 H.
52130-52136		152 H.

NEW REINFORCED CONCRETE PIPE CULVERTS REQUIRED

Station	Dist.	Leq.	Cont.	Size
52171	18'	31 H.	30 C.Y.	36" 34
52177	18'	36 H.	30 C.Y.	36" 34

104.A 1929 7 98

PLAN
 1/4" = 100'
 1/8" = 50'
 1/16" = 25'
 1/32" = 12.5'



BM #8 - TOP OF BOULDER 60' LT. OF STA. 53+59 - ELEV = 389.00
 BM #9 - SPIKE IN ROOT OF 10' MAPLE 17' LT. OF STA. 53+34 - ELEV = 363.50
 BM #10 - SPIKE IN ROOT OF 36' MAPLE 23' RT. OF STA. 57+48 - ELEV = 333.08

SERIES P. NO. 10
 SHEET 10 OF 28 SHEETS

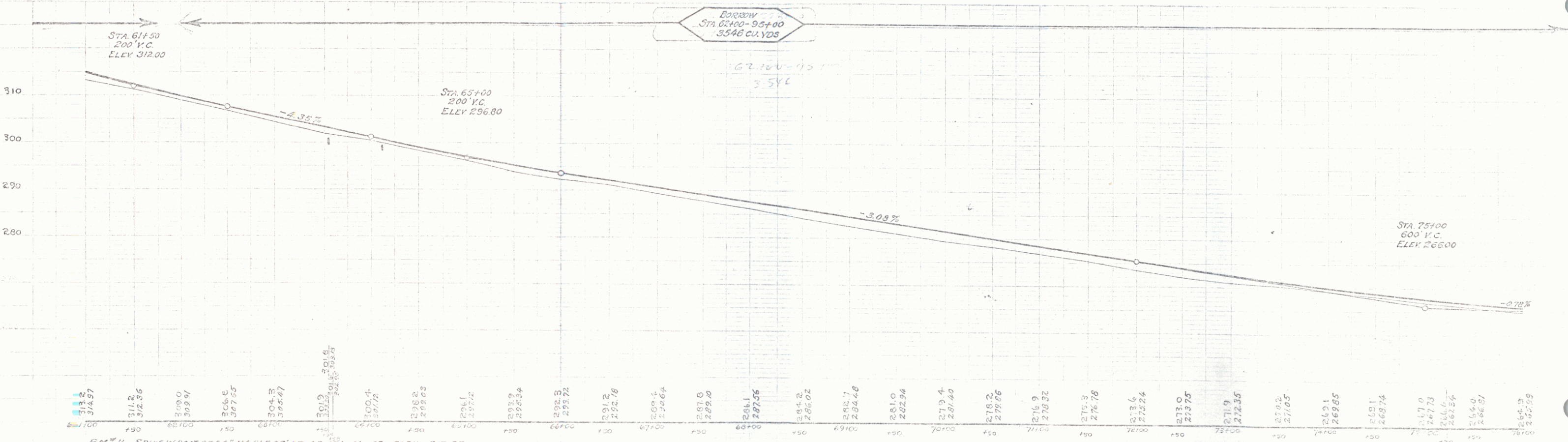
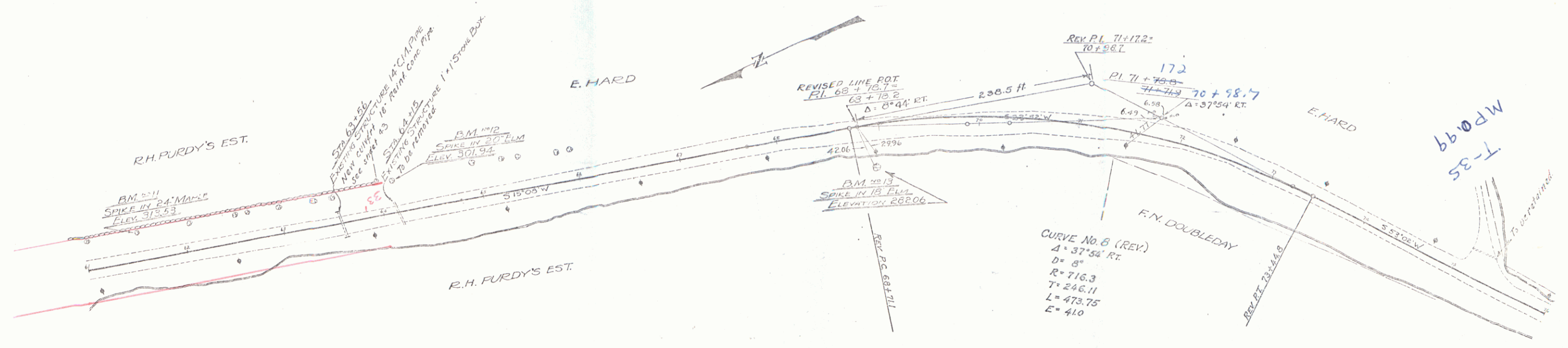
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Wood Guard Rail Required
 Stations 14 ft. 24 ft.
 63141-63166 24 ft.
 63166-63170 24 ft.

Cable Guard Rail
 61+10-61+50 RT.
 JO1

New Guard Conc. Pipe Culverts Required
 Station 18 32 ft. 20 ft. 34 ft.

121A 1923 d 90



61+00	313.2	314.2	315.2	316.2	317.2	318.2	319.2	320.2	321.2	322.2	323.2	324.2	325.2	326.2	327.2	328.2	329.2	330.2	331.2	332.2	333.2	334.2	335.2	336.2	337.2	338.2	339.2	340.2	341.2	342.2	343.2	344.2	345.2	346.2	347.2	348.2	349.2	350.2	351.2	352.2	353.2	354.2	355.2	356.2	357.2	358.2	359.2	360.2	361.2	362.2	363.2	364.2	365.2	366.2	367.2	368.2	369.2	370.2	371.2	372.2	373.2	374.2	375.2	376.2	377.2	378.2	379.2	380.2	381.2	382.2	383.2	384.2	385.2	386.2	387.2	388.2	389.2	390.2	391.2	392.2	393.2	394.2	395.2	396.2	397.2	398.2	399.2	400.2	401.2	402.2	403.2	404.2	405.2	406.2	407.2	408.2	409.2	410.2	411.2	412.2	413.2	414.2	415.2	416.2	417.2	418.2	419.2	420.2	421.2	422.2	423.2	424.2	425.2	426.2	427.2	428.2	429.2	430.2	431.2	432.2	433.2	434.2	435.2	436.2	437.2	438.2	439.2	440.2	441.2	442.2	443.2	444.2	445.2	446.2	447.2	448.2	449.2	450.2	451.2	452.2	453.2	454.2	455.2	456.2	457.2	458.2	459.2	460.2	461.2	462.2	463.2	464.2	465.2	466.2	467.2	468.2	469.2	470.2	471.2	472.2	473.2	474.2	475.2	476.2	477.2	478.2	479.2	480.2	481.2	482.2	483.2	484.2	485.2	486.2	487.2	488.2	489.2	490.2	491.2	492.2	493.2	494.2	495.2	496.2	497.2	498.2	499.2	500.2	501.2	502.2	503.2	504.2	505.2	506.2	507.2	508.2	509.2	510.2	511.2	512.2	513.2	514.2	515.2	516.2	517.2	518.2	519.2	520.2	521.2	522.2	523.2	524.2	525.2	526.2	527.2	528.2	529.2	530.2	531.2	532.2	533.2	534.2	535.2	536.2	537.2	538.2	539.2	540.2	541.2	542.2	543.2	544.2	545.2	546.2	547.2	548.2	549.2	550.2	551.2	552.2	553.2	554.2	555.2	556.2	557.2	558.2	559.2	560.2	561.2	562.2	563.2	564.2	565.2	566.2	567.2	568.2	569.2	570.2	571.2	572.2	573.2	574.2	575.2	576.2	577.2	578.2	579.2	580.2	581.2	582.2	583.2	584.2	585.2	586.2	587.2	588.2	589.2	590.2	591.2	592.2	593.2	594.2	595.2	596.2	597.2	598.2	599.2	600.2	601.2	602.2	603.2	604.2	605.2	606.2	607.2	608.2	609.2	610.2	611.2	612.2	613.2	614.2	615.2	616.2	617.2	618.2	619.2	620.2	621.2	622.2	623.2	624.2	625.2	626.2	627.2	628.2	629.2	630.2	631.2	632.2	633.2	634.2	635.2	636.2	637.2	638.2	639.2	640.2	641.2	642.2	643.2	644.2	645.2	646.2	647.2	648.2	649.2	650.2	651.2	652.2	653.2	654.2	655.2	656.2	657.2	658.2	659.2	660.2	661.2	662.2	663.2	664.2	665.2	666.2	667.2	668.2	669.2	670.2	671.2	672.2	673.2	674.2	675.2	676.2	677.2	678.2	679.2	680.2	681.2	682.2	683.2	684.2	685.2	686.2	687.2	688.2	689.2	690.2	691.2	692.2	693.2	694.2	695.2	696.2	697.2	698.2	699.2	700.2	701.2	702.2	703.2	704.2	705.2	706.2	707.2	708.2	709.2	710.2	711.2	712.2	713.2	714.2	715.2	716.2	717.2	718.2	719.2	720.2	721.2	722.2	723.2	724.2	725.2	726.2	727.2	728.2	729.2	730.2	731.2	732.2	733.2	734.2	735.2	736.2	737.2	738.2	739.2	740.2	741.2	742.2	743.2	744.2	745.2	746.2	747.2	748.2	749.2	750.2	751.2	752.2	753.2	754.2	755.2	756.2	757.2	758.2	759.2	760.2	761.2	762.2	763.2	764.2	765.2	766.2	767.2	768.2	769.2	770.2	771.2	772.2	773.2	774.2	775.2	776.2	777.2	778.2	779.2	780.2	781.2	782.2	783.2	784.2	785.2	786.2	787.2	788.2	789.2	790.2	791.2	792.2	793.2	794.2	795.2	796.2	797.2	798.2	799.2	800.2	801.2	802.2	803.2	804.2	805.2	806.2	807.2	808.2	809.2	810.2	811.2	812.2	813.2	814.2	815.2	816.2	817.2	818.2	819.2	820.2	821.2	822.2	823.2	824.2	825.2	826.2	827.2	828.2	829.2	830.2	831.2	832.2	833.2	834.2	835.2	836.2	837.2	838.2	839.2	840.2	841.2	842.2	843.2	844.2	845.2	846.2	847.2	848.2	849.2	850.2	851.2	852.2	853.2	854.2	855.2	856.2	857.2	858.2	859.2	860.2	861.2	862.2	863.2	864.2	865.2	866.2	867.2	868.2	869.2	870.2	871.2	872.2	873.2	874.2	875.2	876.2	877.2	878.2	879.2	880.2	881.2	882.2	883.2	884.2	885.2	886.2	887.2	888.2	889.2	890.2	891.2	892.2	893.2	894.2	895.2	896.2	897.2	898.2	899.2	900.2	901.2	902.2	903.2	904.2	905.2	906.2	907.2	908.2	909.2	910.2	911.2	912.2	913.2	914.2	915.2	916.2	917.2	918.2	919.2	920.2	921.2	922.2	923.2	924.2	925.2	926.2	927.2	928.2	929.2	930.2	931.2	932.2	933.2	934.2	935.2	936.2	937.2	938.2	939.2	940.2	941.2	942.2	943.2	944.2	945.2	946.2	947.2	948.2	949.2	950.2	951.2	952.2	953.2	954.2	955.2	956.2	957.2	958.2	959.2	960.2	961.2	962.2	963.2	964.2	965.2	966.2	967.2	968.2	969.2	970.2	971.2	972.2	973.2	974.2	975.2	976.2	977.2	978.2	979.2	980.2	981.2	982.2	983.2	984.2	985.2	986.2	987.2	988.2	989.2	990.2	991.2	992.2	993.2	994.2	995.2	996.2	997.2	998.2	999.2	1000.2
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BM #11 - SPIKE IN ROOT OF 24" MAPLE 27' LT. OF STA. 61+33 - ELEV. 313.55.
 BM #12 - SPIKE IN ROOT OF 20" ELM 31' RT. OF STA. 62+13 - ELEV. 301.19.
 BM #13 - SPIKE IN ROOT OF 18" ELM 35' RT. OF STA. 68+94 - ELEV. 282.06

SERIES F. No 104 A
 SHEET 8 OF 90 SHEETS

CABLE GUARD RAIL REQUIRED

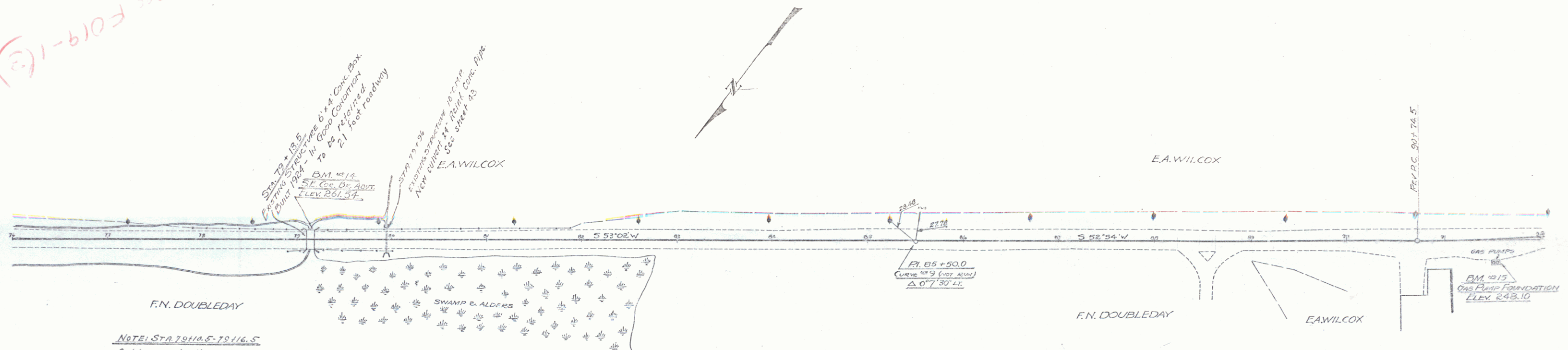
Stations	Left	Right
77+00-78+10	24	24
78+10-78+75	24	24
78+75-80+14	24	24
80+14-82+00	24	24
82+00-84+00	24	24
84+00-86+00	24	24
86+00-88+00	24	24
88+00-90+00	24	24
90+00-92+00	24	24
92+00-94+00	24	24
94+00-96+00	24	24
96+00-98+00	24	24
98+00-100+00	24	24

NEW BRIDGE CONC. PIPE COVERED REVISION

Station	Diam.	Length	Chgs.	Steel	Soil
78+00	24	36H	24	24	24
80+00	30	30	30	30	30

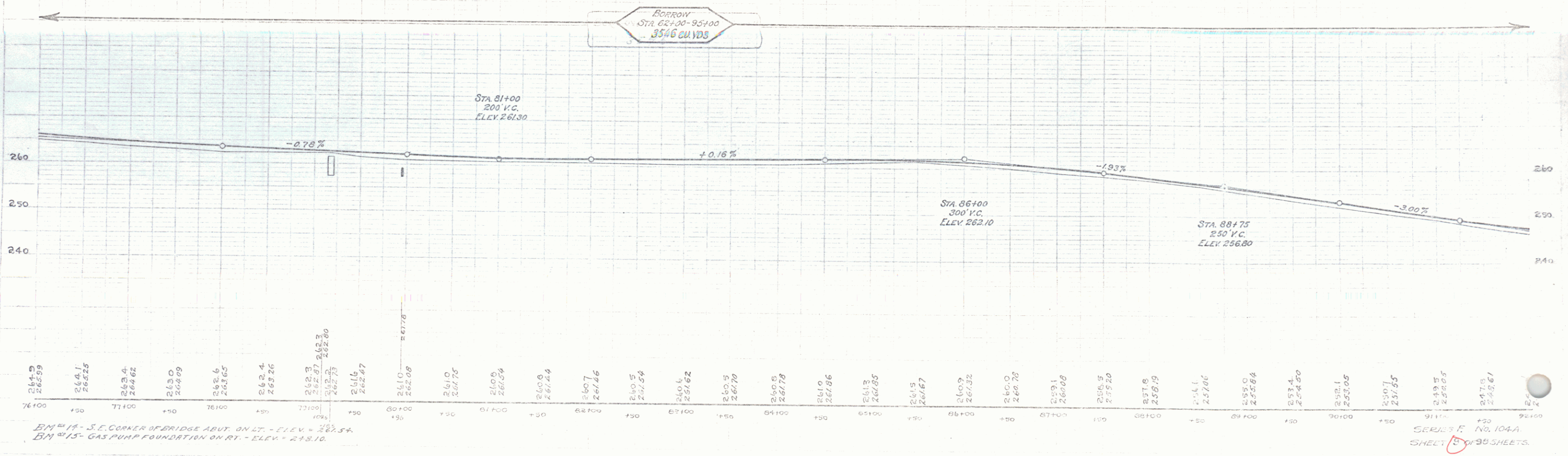
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ALL F019-1(3)



NOTE: STA. 79+45-79+16.5
Cable guard rail on right shall be fastened to bridge rail by the contractor, charge for this item shall be included in the bid price per foot for Cable Guard Rail.

BORROW
STA 62+00-95+00
3546 CU YDS



BM #14 - S.E. CORNER OF BRIDGE ABUT. ON LT. - ELEV. = 263.54
BM #15 - GAS PUMP FOUNDATION ON RT. - ELEV. = 248.10

SERIES No. 104A
SHEET 15 OF 30 SHEETS.

WOOD GUARD RAIL REQUIRED

Station	Left	Right
36169-36193	24'11"	24'11"
100107-100131	24'11"	24'11"

CABLE GUARD RAIL REQUIRED

Station	Left	Right
32100-32107	8'9"	8'9"
32108-32112-12	45'11"	45'11"
101104-101106	22'4"	22'4"
101154-101154	200'	200'

NEW REIN CONC. PIPE CURVERTS REQUIRED

Station	Diam.	Length	Size
96180	18"	33'	34"
100118	18"	24'	34"

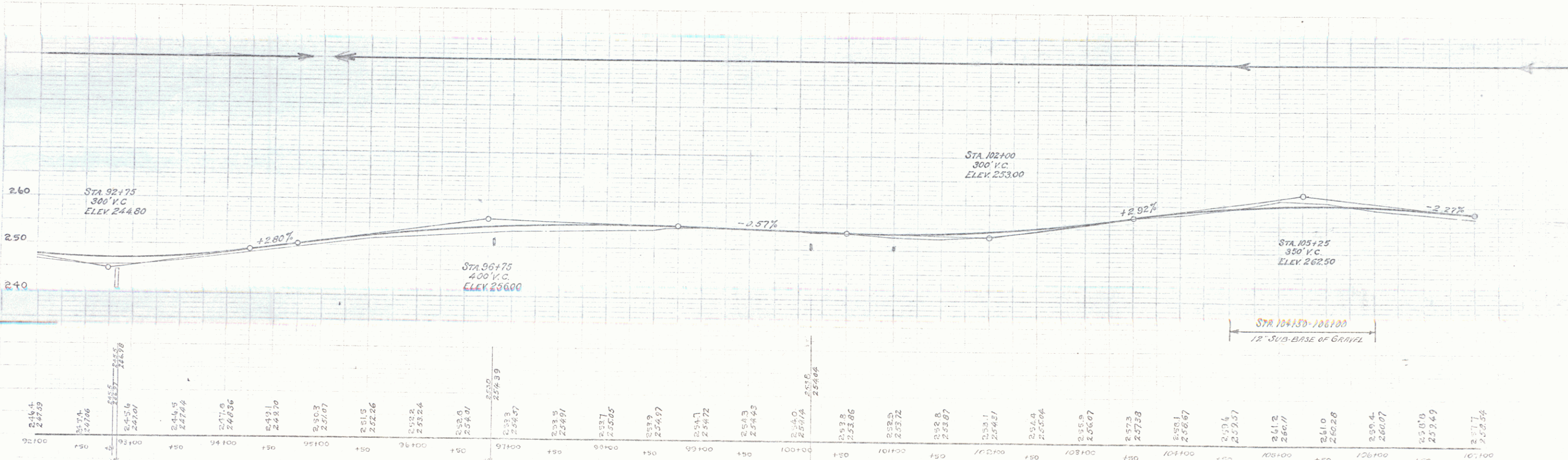
NEW REIN CONC. PEG CURVERTS REQUIRED

Station	Size	Cons. S.	Steel
52181	4x4'	2x2x4	33x4

NEW DRAINAGE PIPE CURVERTS REQUIRED

Station	Right	Diam.	Length	Notes
103175	12'	18"	100' c.y.	See sheet 20

Curve No. 10 (REV)
 $A = 1429$ Lx
 $D = 3'$
 $R = 1310.0$
 $T = 242.7$
 $L = 432.8$
 $E = 15.4$



BM #16 - SPIKE IN ROOT OF 16" ELM ON RT. - ELEV = 253.68.
 BM #17 - SPIKE IN ROOT OF 16" ELM ON LT. OF STA. 102+62 - ELEV = 251.23.

SERIES F. No. 104A.
 SHEET 10 OF 20 SHEETS

WOOD GUARD RAIL REQUIRED

Stations	Left	Right
123+51-123+75	24'4"	24'4"
131+32-131+52		22'6"

CABLE GUARD RAIL REQUIRED

Stations	Left	Right
127+30-127+54	24'4"	
130+10-131+14		10'4"
131+47-136+35	48'8"	
137+52-133+52		20'0"

NEW 12" CONC. PIPE CULVERTS REQUIRED

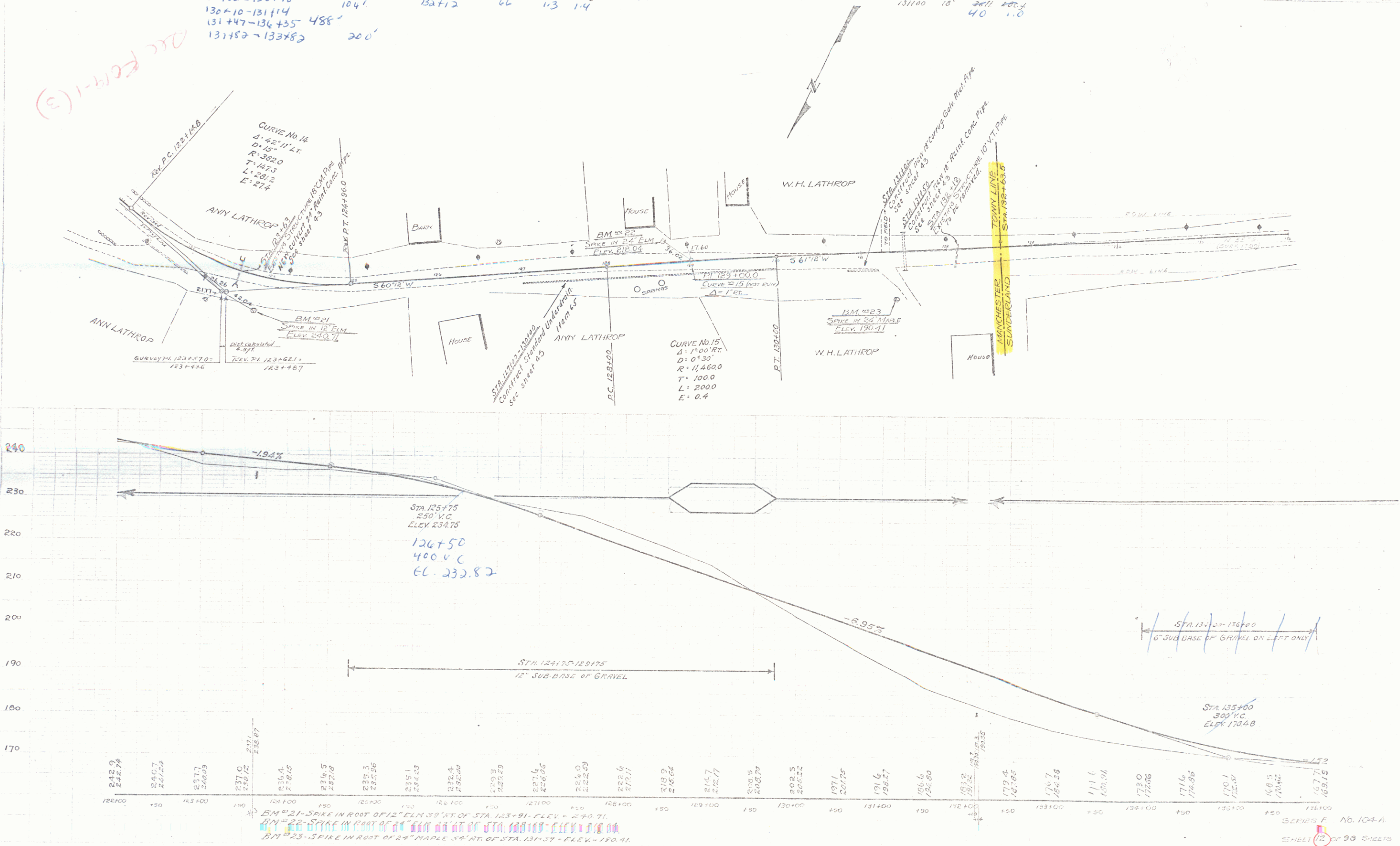
Station	Width	Length	Grade	Conc. Pipe	Conc. Steel
123+13	24"	20'	2.7%	24"	48'
131+52	18"	20'	2.7%	30"	22'
132+12	66"	1.3'	1.4%		

NEW DRIVEWAY PIPE CULVERTS REQUIRED

Station	Width	Length	Grade	Conc. Pipe	Conc. Steel
131+00	18"	20'	2.7%	40"	1.0'

104-A 1929 12 29

ACC FORM-1(3)

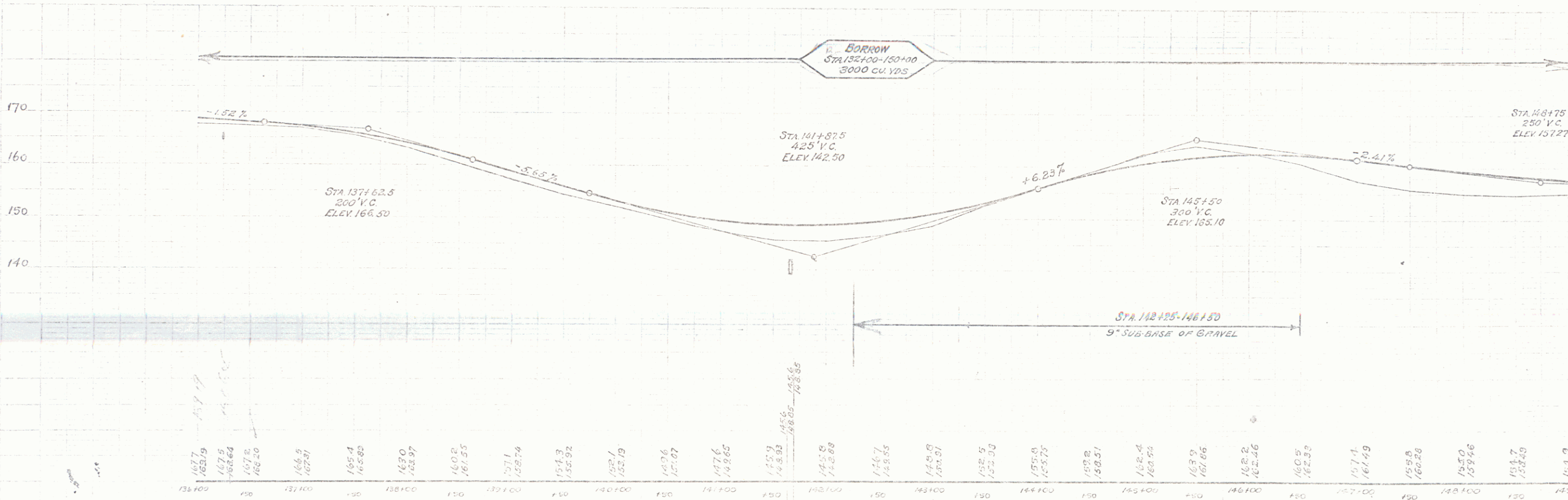
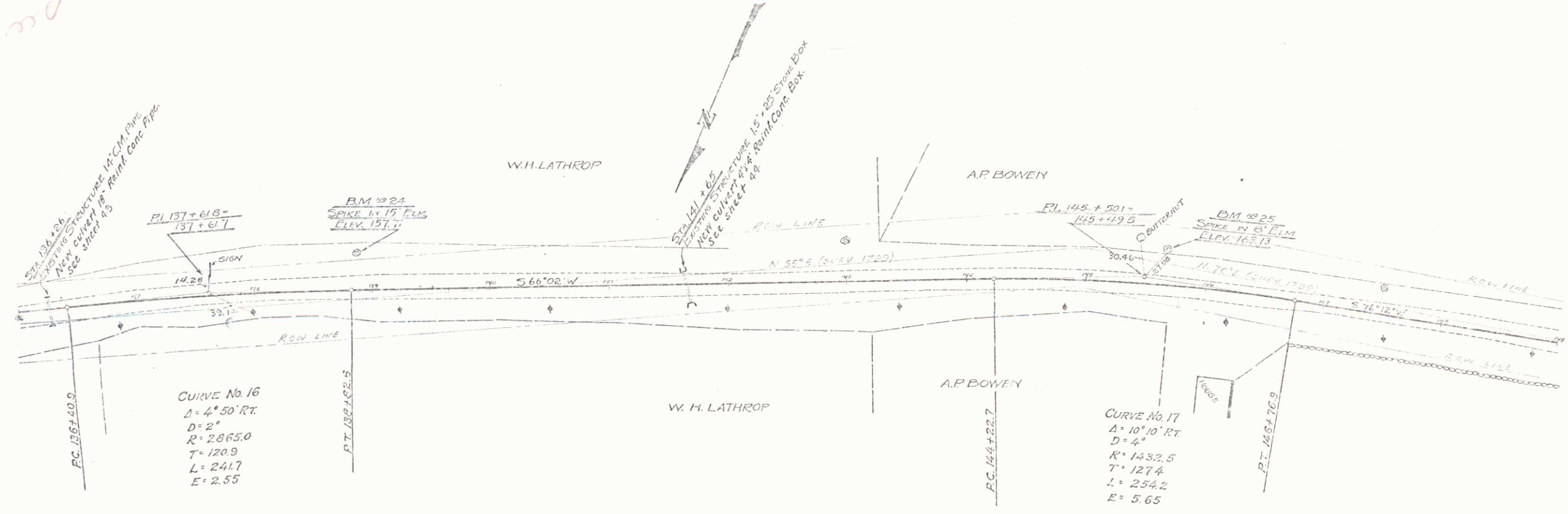


SERIES F No. 104-A SHEET 12 OF 30 SHEETS

10

WOOD GUARD RAIL REQUIRED		CABLE GUARD RAIL REQUIRED		NEW REINFORC. PIER CONCRETS REQUIRED		NEW REINFORC. BOX CONCRETS REQUIRED							
Stations	Left	Right	Stations	Left	Right	Stations	Size	Spacing	Steel				
136413-136437	21ft	24ft	14141-14180	48ft	48ft	14076	18"	24ft	3pcy	14163	4x4"	24ft	1450#
							32	3.2	34		21.1	14.80#	

(S) 1019 300

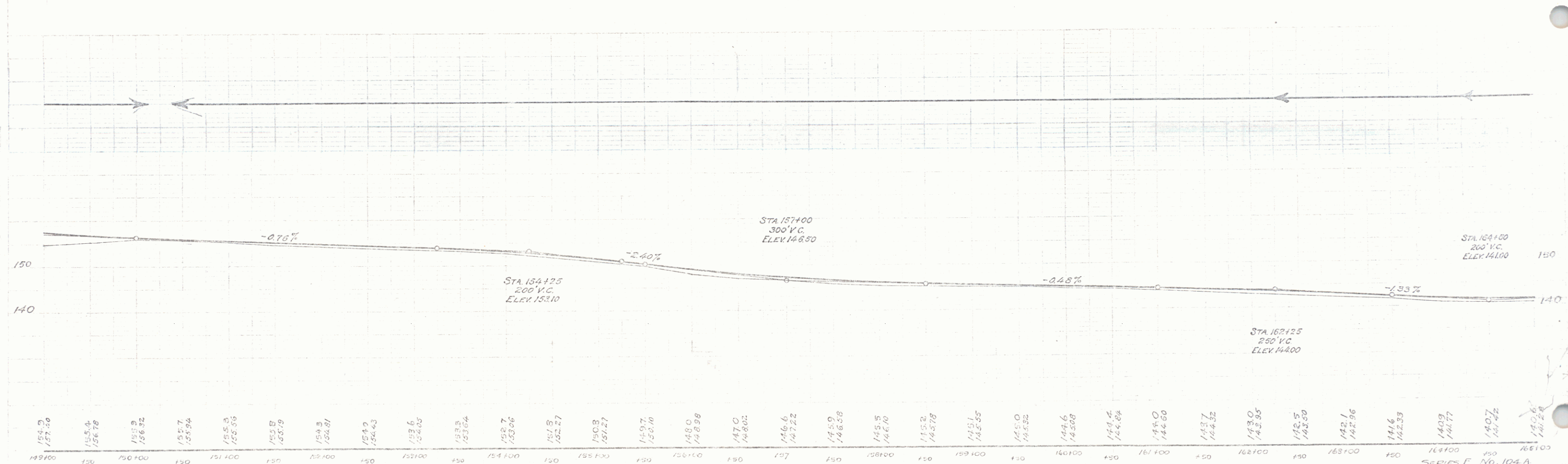
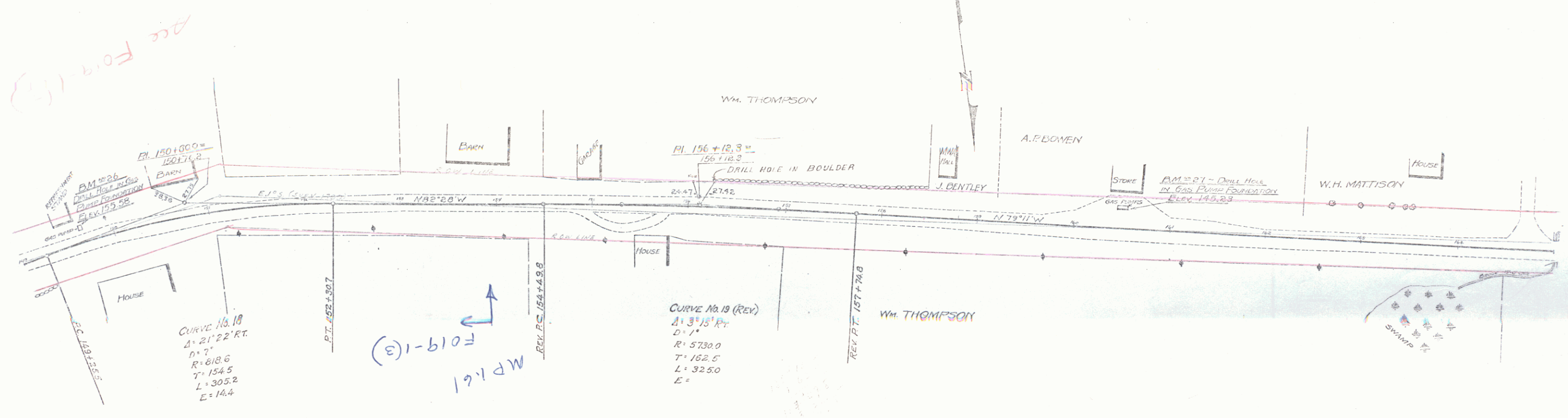


13700 13750 13800 13850 13900 13950 14000 14050 14100 14150 14200 14250 14300 14350 14400 14450 14500 14550 14600 14650 14700 14750 14800 14850 14900

B.M. #24 - SPIKE IN ROOT OF 13" CEM. 21.5' LT. OF STA. 138+00 - ELEV. 157.71.
 B.M. #25 - SPIKE IN ROOT OF 8" CEM. 27' LT. OF STA. 145+50 - ELEV. 163.13

Wood Guard Rail Required
 Stations Left Right
 1491.00-1607.00 10ft. 10ft.

104.A 1929 19 99



14900	14910	14920	14930	14940	14950	14960	14970	14980	14990	15000	15010	15020	15030	15040	15050	15060	15070	15080	15090	15100	15110	15120	15130	15140	15150	15160	15170	15180	15190	15200	15210	15220	15230	15240	15250	15260	15270	15280	15290	15300	15310	15320	15330	15340	15350	15360	15370	15380	15390	15400	15410	15420	15430	15440	15450	15460	15470	15480	15490	15500	15510	15520	15530	15540	15550	15560	15570	15580	15590	15600	15610	15620	15630	15640	15650	15660	15670	15680	15690	15700	15710	15720	15730	15740	15750	15760	15770	15780	15790	15800	15810	15820	15830	15840	15850	15860	15870	15880	15890	15900	15910	15920	15930	15940	15950	15960	15970	15980	15990	16000	16010	16020	16030	16040	16050	16060	16070	16080	16090	16100
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A.A. BOE
 E.C. BALL
 1929

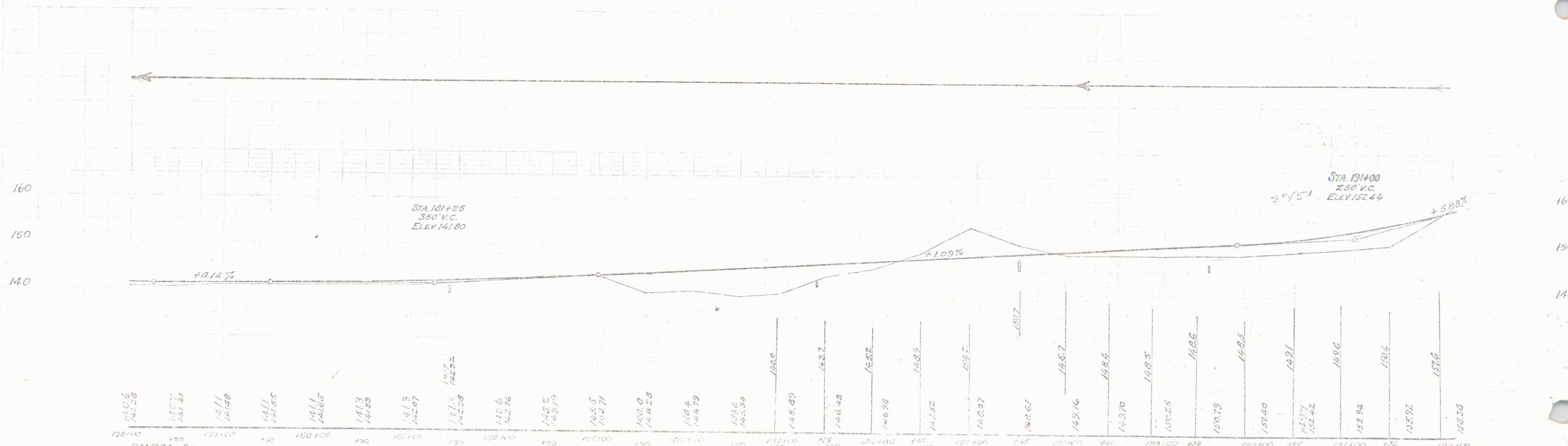
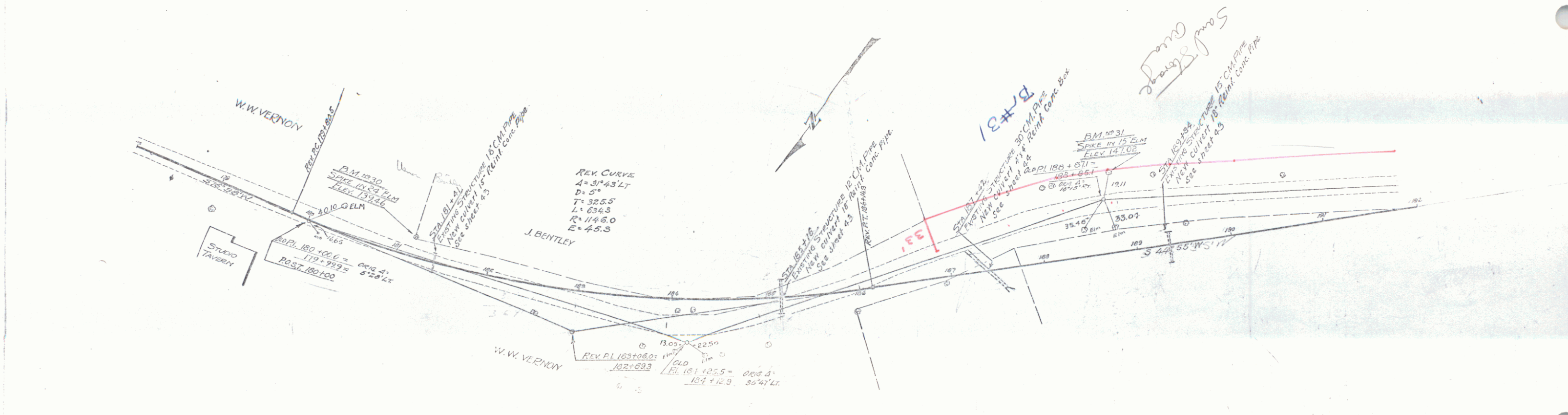
SERIES F
 No. 104.A
 SHEET 14 OF 38 SHEETS

WOOD GUARD RAIL REQUIRED

Station	Left	Right
175100-175124	24 ft	24 ft
181420-181433	24 ft	24 ft
185110-185122	24 ft	24 ft
187116-187140	24 ft	24 ft
189135-189158	24 ft	24 ft

NEW RIVIN CONC PIPE CULVERTS REQUIRED, NEW RIVIN CONC BOX CULVERTS REQUIRED

Station	Size	Conc. E. Steel	Station	Size	Conc. E. Steel
181140	18"	32 ft	22 ft	20" x 34"	20" x 34"
183116	18"	20 ft 33"	20 ft 33"	20" x 34"	20" x 34"
183138	18"	26 ft	26 ft	20" x 34"	20" x 34"
		3.6			



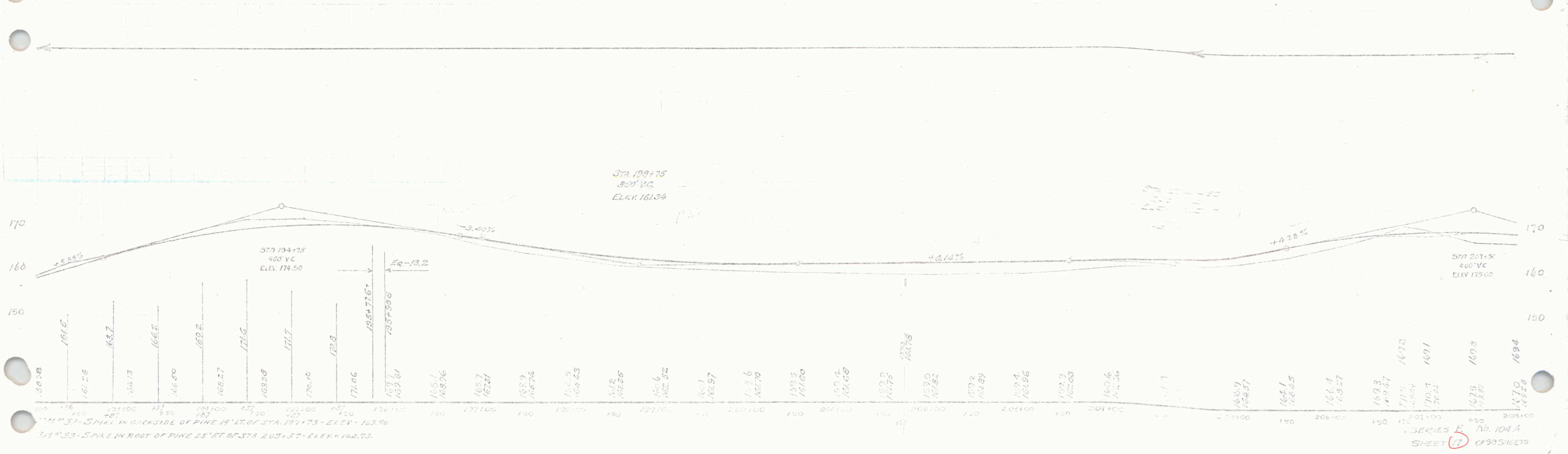
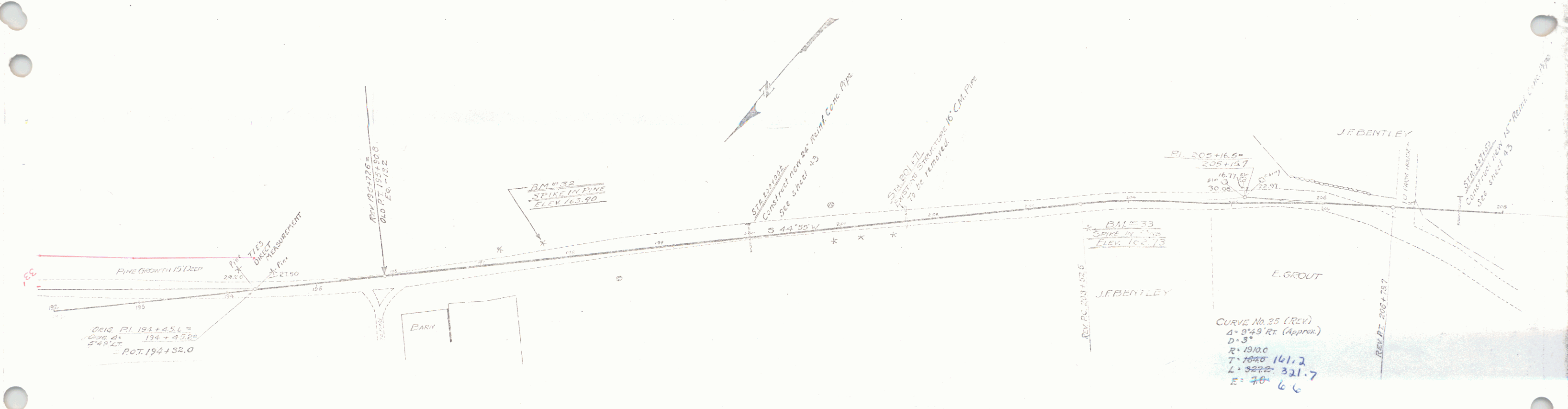
BM #30 - SPIKE IN ROOT OF 24" ELM 16' LT. OF STA. 181+14 - 141 ELEV. 139.46.
 BM #31 - SPIKE IN ROOT OF 15" ELM 31' LT. OF STA. 186+36 - ELEV. 147.02.

SERIES F. No. 104 A
 SHEET 10 OF 30 SHEETS

Waco Super Hwy. Required
 Station Left Right
 199+05-200+11 24H 1471

NEW PINE CONC PIPE CULVERTS REQUIRED
 Station Width Depth Spacing Steel Curve
 200+02 20' 14" 3' 3" 50' 10' 2.6:1
 200+09 14' 14" 4.4' 14' 14' 2.6:1

1952 1953 14 08



3/4" SPIKE IN ROOT OF PINE 15' RT. OF STA 203+57 - ELEV. 162.75.

SERIES E No. 104A
 SHEET 15 OF 35 SHEETS

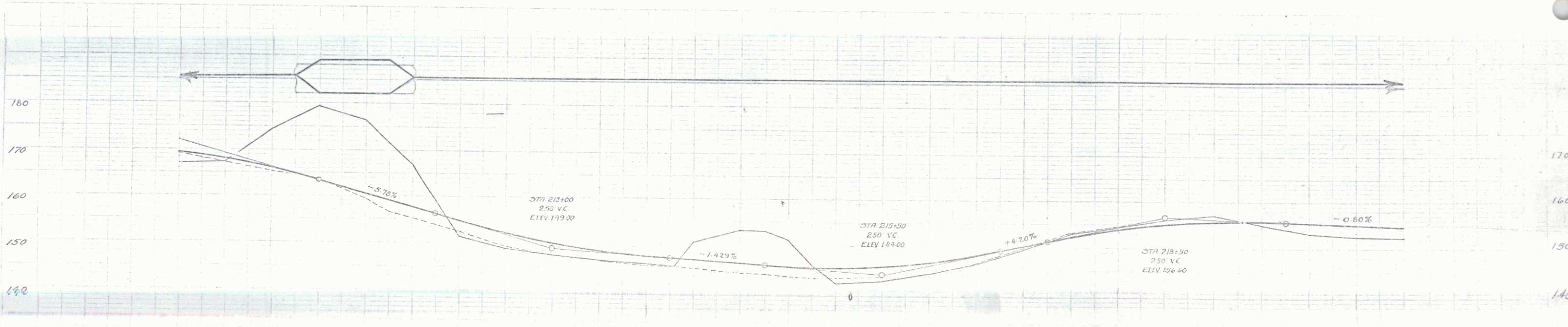
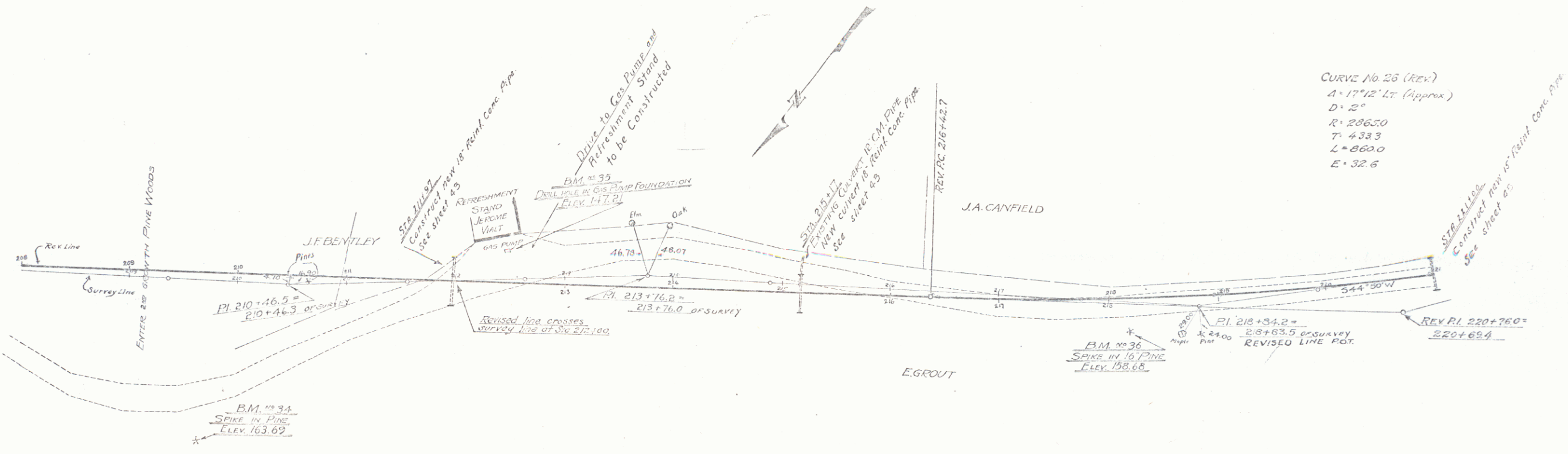
WIDE GUARD RAIL REVISION

Station	Left	Right
215+00-215+20	24.1	14.1
217+00-217+20	21.5	21.5
220+00-220+1	12.1	12.1

NEW REINFORCING PIPE CONCRETE REQUIRED

Station	Width	Conc. B.	Steel
211+37	16'	30 cy	33' 34"
217+15	18'	30 cy	33' 34"
221+00	15'	26 cy	33' 34"

104A 1587 10 32



Station	Elevation
208+00	147.0
208+50	148.20
209+00	147.3
209+50	147.94
210+00	146.5
210+50	144.01
211+00	143.44
211+50	141.55
212+00	137.0
212+50	137.16
213+00	135.7
213+50	135.8
214+00	135.8
214+50	135.7
215+00	135.7
215+50	135.8
216+00	135.8
216+50	135.8
217+00	135.8
217+50	135.8
218+00	135.8
218+50	135.8
219+00	135.8
219+50	135.8
220+00	135.8
220+50	135.8
221+00	135.8

BM 34 - SPIKE IN ROOT OF PINE ON RT OF OLD HIGHWAY - ELEV. 143.69
 BM 35 - DRILLHOLE IN GAS PUMP FOUNDATION 24' LT. OF STA. 212+47 - ELEV. 147.21
 BM 36 - SPIKE IN ROOT OF 16" PINE 24' RT OF STA. 218+18 - ELEV. 138.68

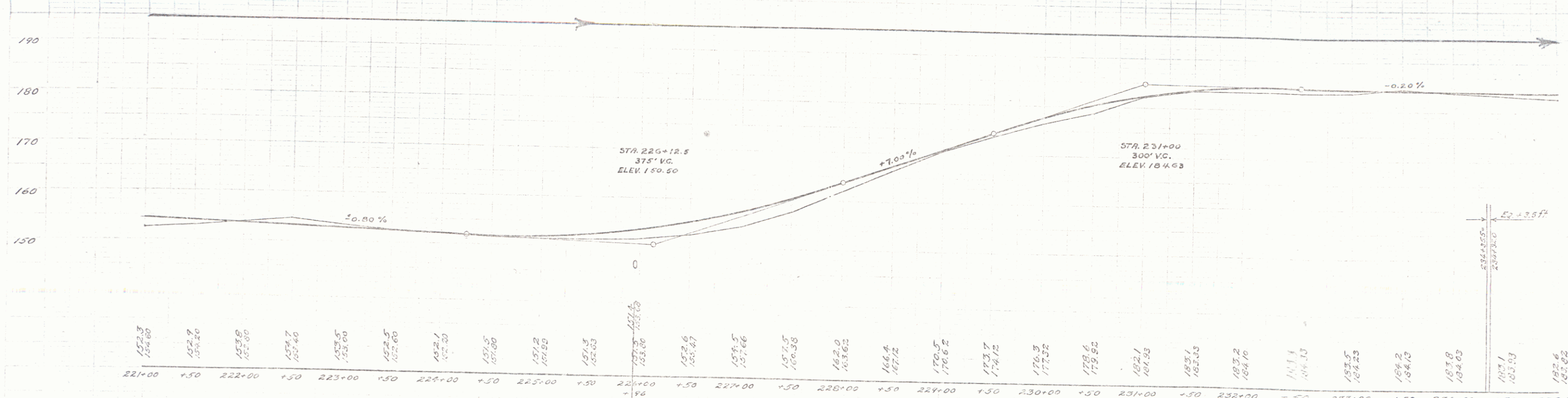
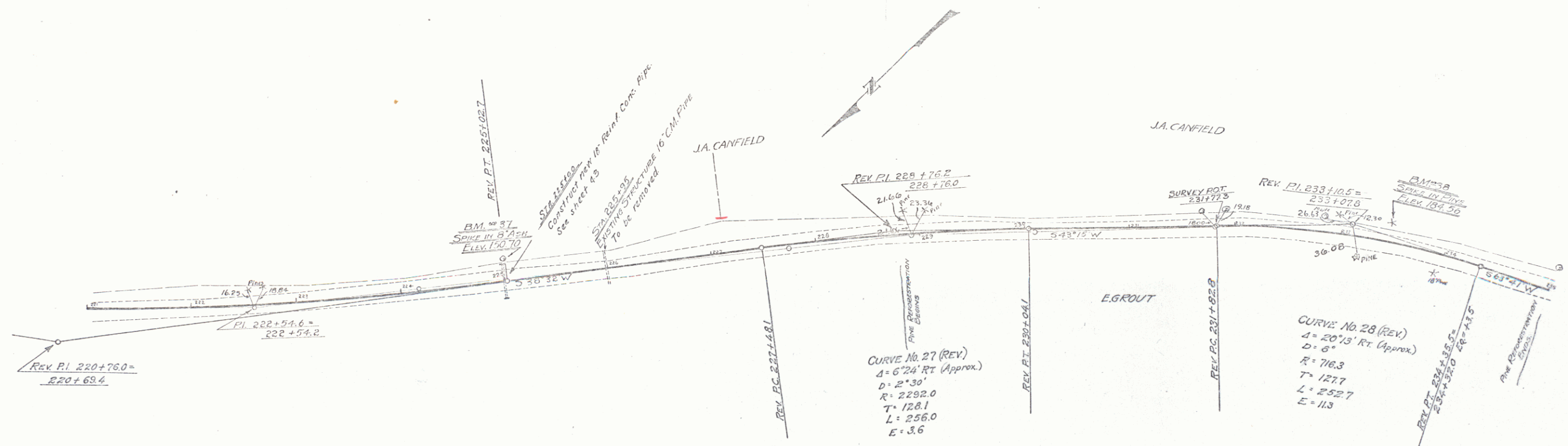
38185 E. NO. 104A
 SHEET 18 OF 90 SHEETS

WOOD GUARD RAIL REQUIRED
 Station Diap. Len. Spc. B. Steel
 221+00 18' 31" 300y. 34"
 224+00 15' 32" 3.6 34"

CABLE GUARD RAIL REQUIRED
 Station Diap. Len. Spc. B. Steel
 225+45 - 276+73 128 ft.

NEW TRUNK CONC. PIPE CULVERTS REQUIRED
 Station Diap. Len. Spc. B. Steel
 226+00 15' 32" 3.6 34"

1044 1929 29 22



BM 37 - SPIKE IN TRUNK OF 8" ASH 37' LT. OF STA. 224+95 - ELEV. 150.70.
 BM 38 - SPIKE IN ROOT OF PINE 15' LT. OF STA. 233+44 - ELEV. 184.56.

SERIES F No. 1044
 SHEET 13 OF 25 SHEETS

17

Wood Guard Rail Required

Station	Left	Right
235+00-235+00	24 ft	24 ft
236+18-236+02	24 ft	24 ft
240+157-240+01	24 ft	24 ft

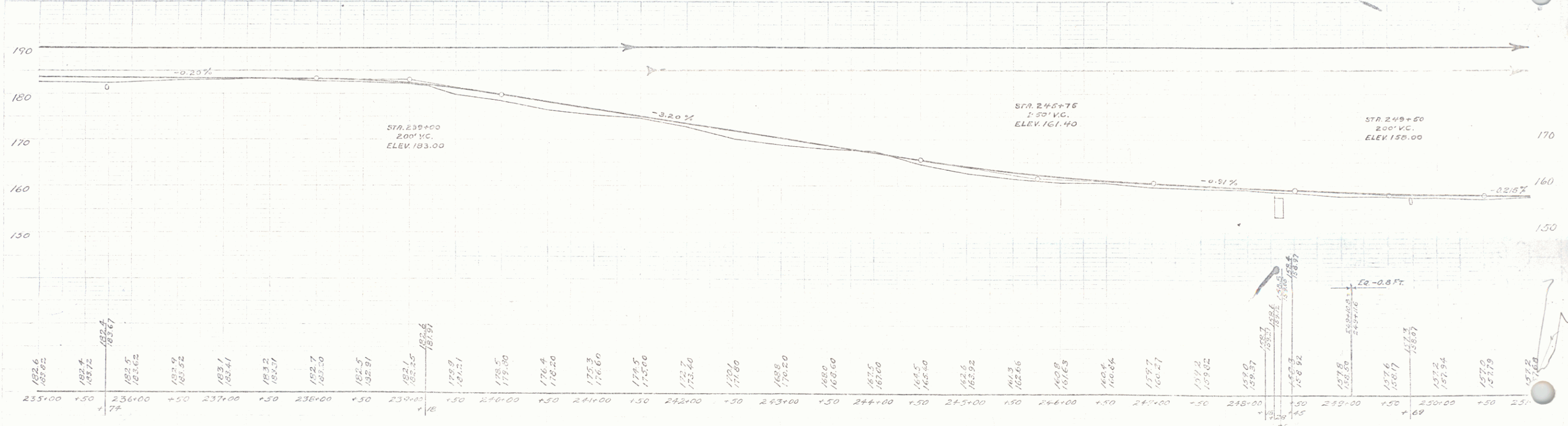
Cable Guard Rail Required

Station	Left	Right
235+00-235+00	24 ft	24 ft
236+18-236+02	24 ft	24 ft
240+157-240+01	24 ft	24 ft

New Reinforcing Concrete Curbs Required

Station	Dura	Length	Comp. C.	Steel
235+14	15"	32 ft	30%	34#
238+25	18"	34 ft	30%	34#
239+00	18"	32 ft	30%	34#
240+00	16"	32 ft	30%	33#

104A 1921 20 20



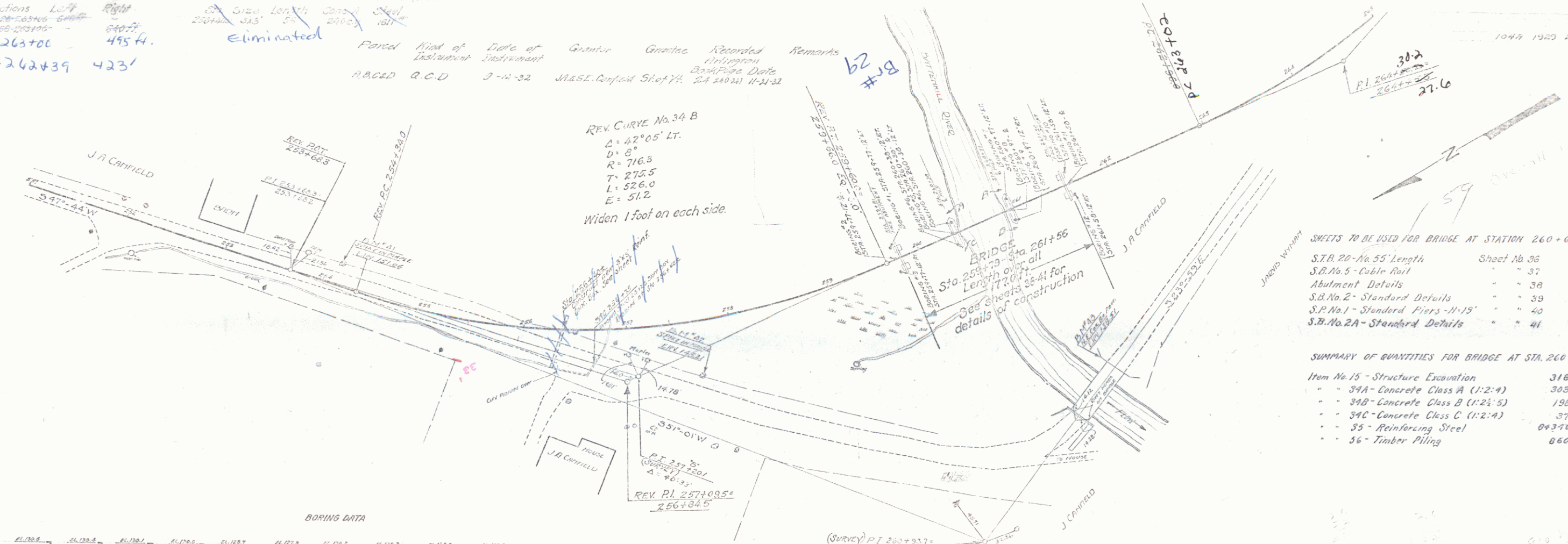
BM 40 = ~~WATERED BOOSE BRIL~~ 8 FT. FT. OF STA. 248+42 - ELEV. 160.69

SERIES F. No. 104A
SHEET 20 OF 90 SHEETS

CABLE GUARD RAIL REQUIRED
 Stations Left Right
 258+05-263+00 495 ft.
 258+16-262+39 423'

NEW REINFORCED CONCRETE PILES REQUIRED
 Size Len. No. Spacing
 250" dia. 343' 5" 24" 101
 Eliminated
 Period of Installation 3-14-32
 Grantor M&E Conf. Sheet 7A 2A 24021 11-21-32
 Recorder
 Bridge Date

REV. CURVE No. 34 B
 Δ = 42° 05' LT.
 D = 8'
 R = 716.3
 T = 275.5
 L = 526.0
 E = 51.2
 Widen 1 foot on each side.

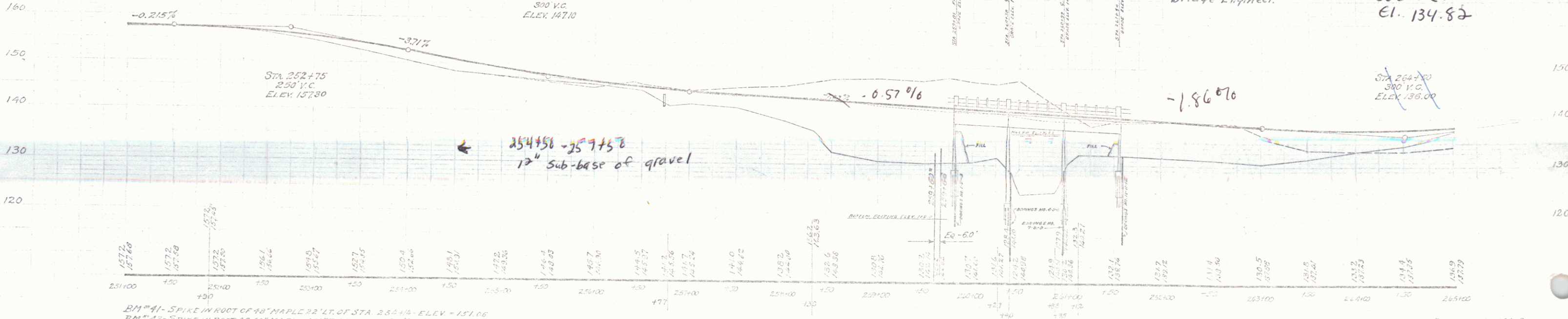


- SHEETS TO BE USED FOR BRIDGE AT STATION 260+675
- S.B. No. 55 - Length Sheet No. 36
 - S.B. No. 5 - Cable Rail - 37
 - Abutment Details - 38
 - S.B. No. 2 - Standard Details - 39
 - S.P. No. 1 - Standard Piers - 40
 - S.B. No. 2A - Standard Details - 41

- SUMMARY OF QUANTITIES FOR BRIDGE AT STA. 260+675
- Item No. 15 - Structure Excavation 318 Cu. Yds.
 - 34A - Concrete Class A (1:2:4) 308 -
 - 34B - Concrete Class B (1:2:5) 198 -
 - 34C - Concrete Class C (1:2:4) 37 -
 - 35 - Reinforcing Steel 84340 Lbs.
 - 56 - Timber Piling 860 Lin. Ft.

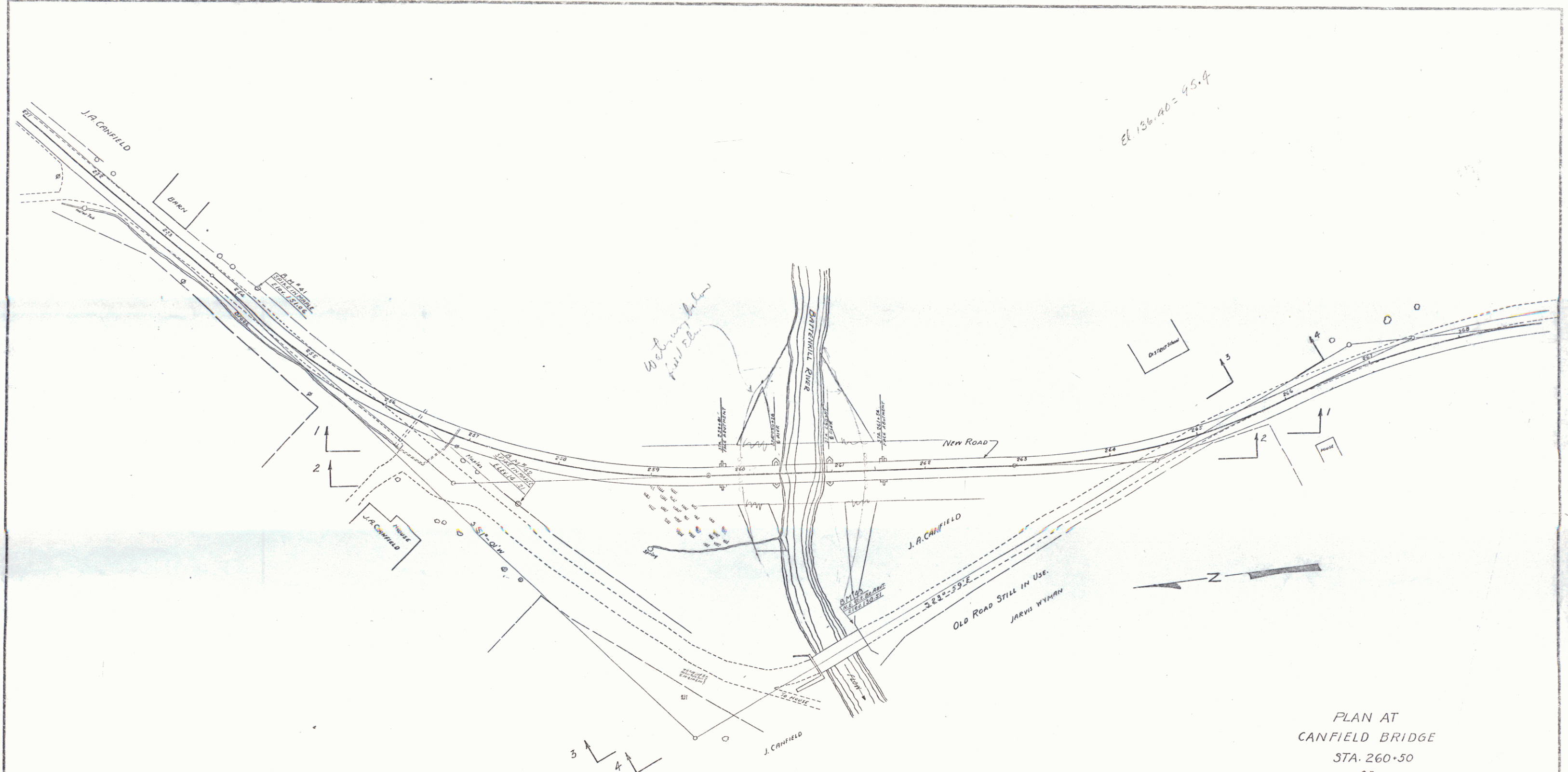
BORING DATA

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12
EL. 138.5	EL. 138.5	EL. 138.5	EL. 138.5	EL. 138.5	EL. 138.5	EL. 138.5	EL. 138.5	EL. 138.5	EL. 138.5	EL. 138.5	EL. 138.5
NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12



BM #41 - SPIKE IN ROOT OF 40' MAPLE 22' LT. OF STA. 252+45 - ELEV. 157.06
 BM #42 - SPIKE IN ROOT OF 40' MAPLE 48' RT. OF STA. 257+50 - ELEV. 158.21
 BM #43 - N.E. CORNER OF BRIDGE ABUT. WEST OF STA. 261+15 2'-CL. C. = 125.51

SECT. ENG. 103-A
 SHEET 51 OF 50



PLAN AT
 CANFIELD BRIDGE
 STA. 260+50
 OF
 F.A.P.-104A
 ROUTE U.S. 7
 TOWN OF ARLINGTON

Scale 1"=30'

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Surveyed by	
Designed by	
Drawn by	
Traced by	D.W.R.
Checked by	
Series	No. 21A of 20 Sheets

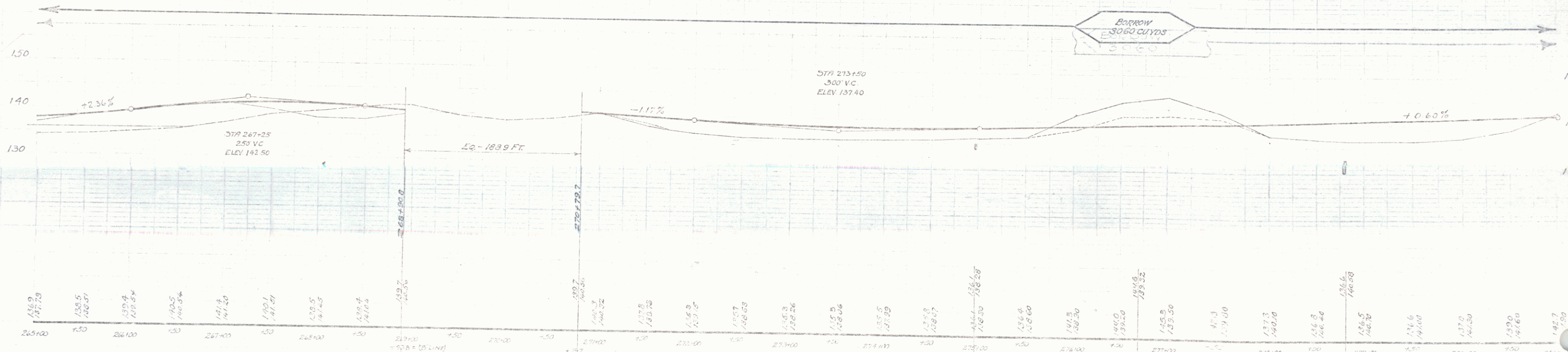
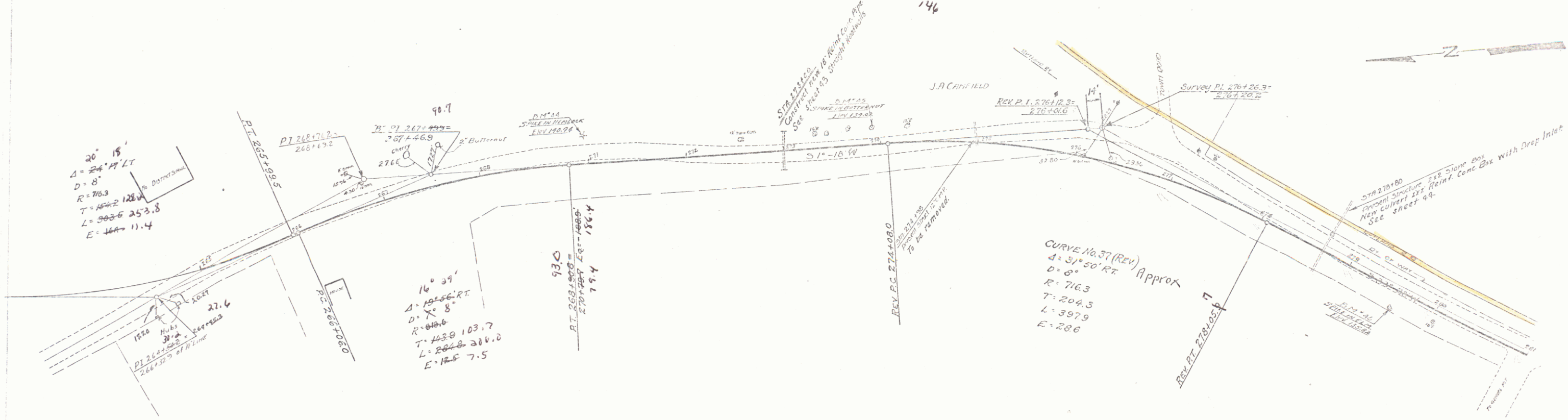
WOOD GUARD RAIL REQUIRED
 Station Left Right
 272+00-273+11 14H 14H

CABLE GUARD RAIL REQUIRED
 Station Left Right
 272+00-272+70 14H 14H

NEW FELINE CONC. PIPE CULVERTS REQUIRED
 Station Diam. Leng. Conc. A. Steel
 273+00 18" 364' 5' 6" 347'

NEW POINT CONC. BOX CULVERTS REQUIRED
 Station Size Conc. A. Steel P.I. Slope
 278+00 30" R.C.P. Length 40' 146'

1949 1928 22 00



BN #44 - SPIKE IN ROOT OF 12" HEMLOCK 26' LT. OF STA. 276+97 - ELEV. 140.94
 BN #45 - SPIKE IN ROOT OF BUTTERNUT 13' LT. OF STA. 273+92 - ELEV. 134.02
 BN #46 - SPIKE IN TRUNK OF 16" ELM 22.5' RT. OF STA. 279+62 - ELEV. 135.02

SEEDED F TO 100%
 SILET 21 of 99

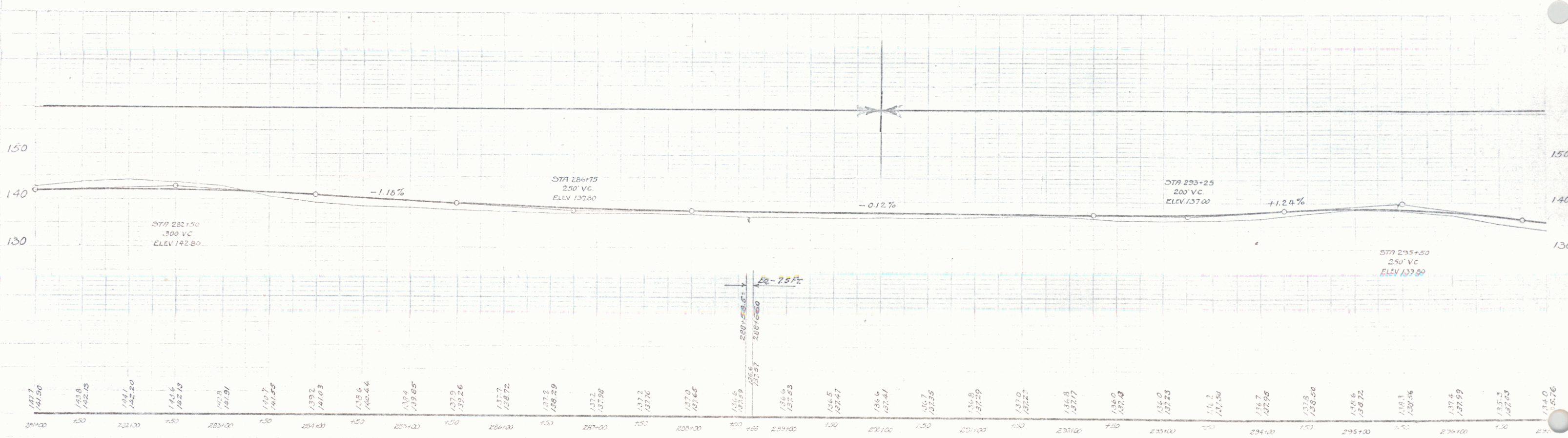
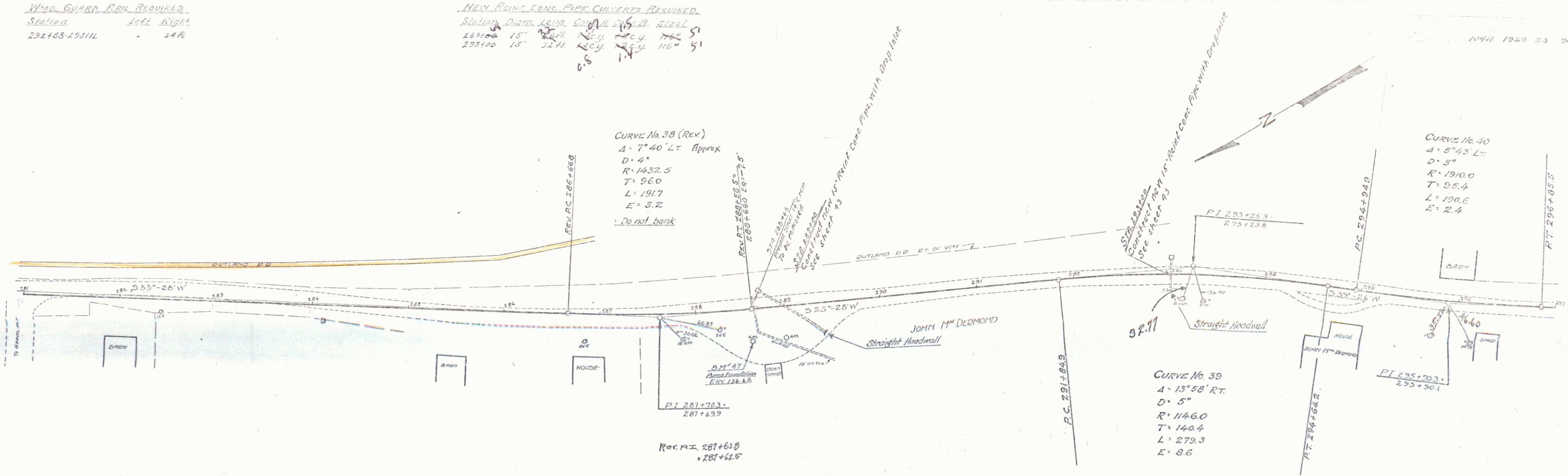
Wood Guard Rail Required
 Station Left Right
 292+03-293+14 24R

NEW POINT CONC. PIPE CURVES REQUIRED
 Station Dist. L&R. C&A. S&B. SIGAL
 289+00 15' 32H 18.5V 16.5V 116' 5'
 293+00 15' 32H 18.5V 16.5V 116' 5'

CURVE No. 38 (REV)
 4° 7' 40" LT. Approx
 D = 4"
 R = 1432.5
 T = 96.0
 L = 191.7
 E = 3.2
 Do not bank

CURVE No. 40
 4° 5' 43" LT.
 D = 3"
 R = 1910.0
 T = 95.4
 L = 190.6
 E = 2.4

CURVE No. 39
 4° 15' 58" RT.
 D = 5"
 R = 1146.0
 T = 140.4
 L = 279.3
 E = 8.6



BM 47 GRAD PUMP FOUNDATION, 30' E of STA 286+60 - ELEV 136.65

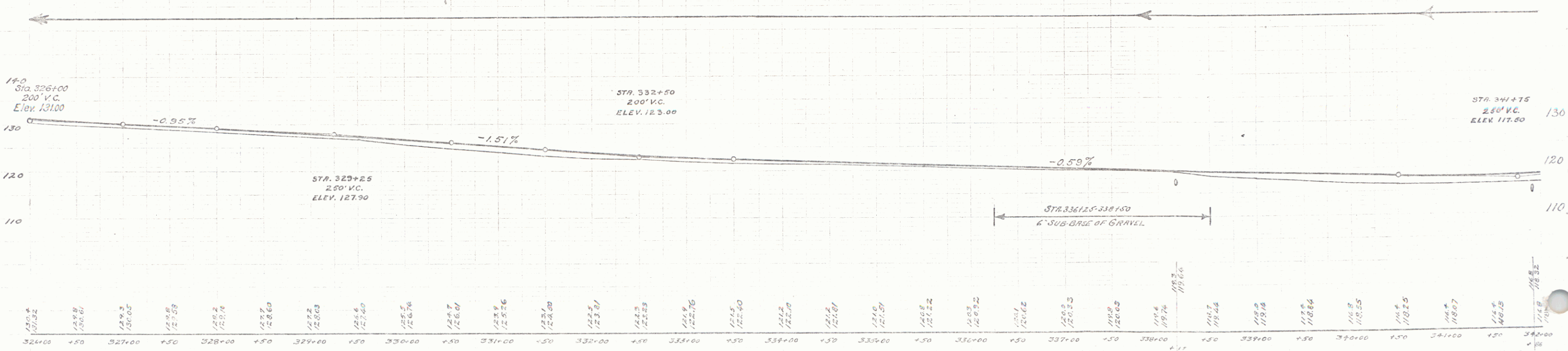
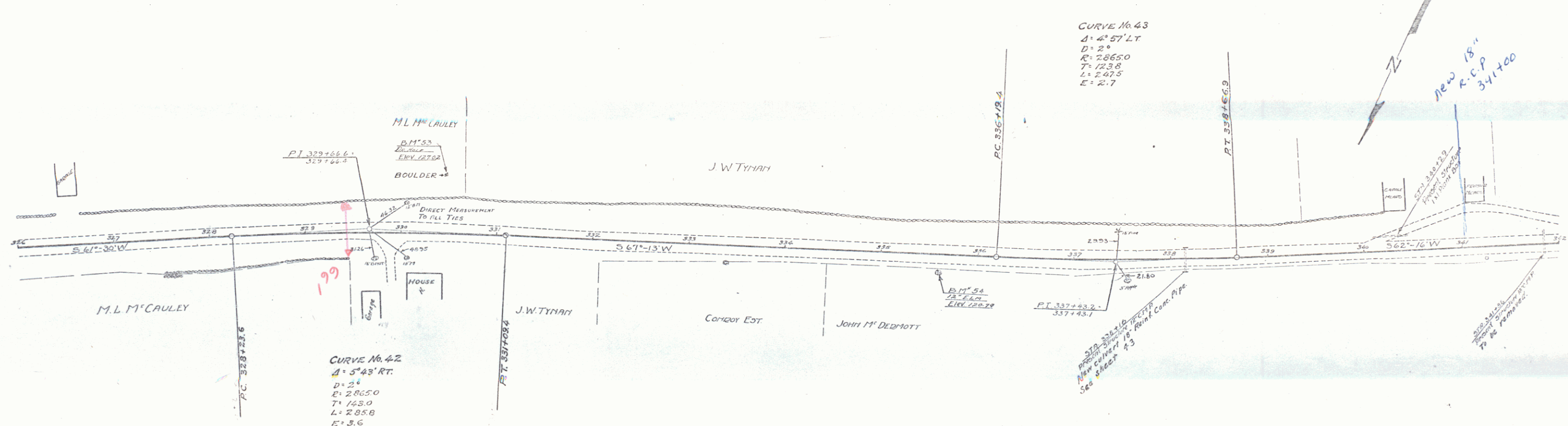
SHEET NO 102 P 23 1198

22

WOOD GUARD RAIL REQUIRED
 Station Left Right
 338+15-338+120 24 ft. 24 ft.

NEW REIN. CONC. PIPE CULVERTS REQUIRED

Station	Diam.	Len.	Conc. B.	Steel
338+17	18"	32 ft.	3.6	3.6
341+00	18"	32 ft.	3.6	3.6



BM 53 - DRILL HOLE IN BOULDER 59' LT. OF STA. 330+48 - ELEV. = 127.02
 BM 54 - SPIKE IN TRUNK OF 12" ELN 16' RT. OF STA. 335+60 - ELEV. = 120.19

SHEET 25 OF 30

WOOD GUARD RAIL REQUIRED
Stations 361+00 TO 361+30

NEW REINFORCED CONCRETE PIPE COLLECTOR REQUIRED

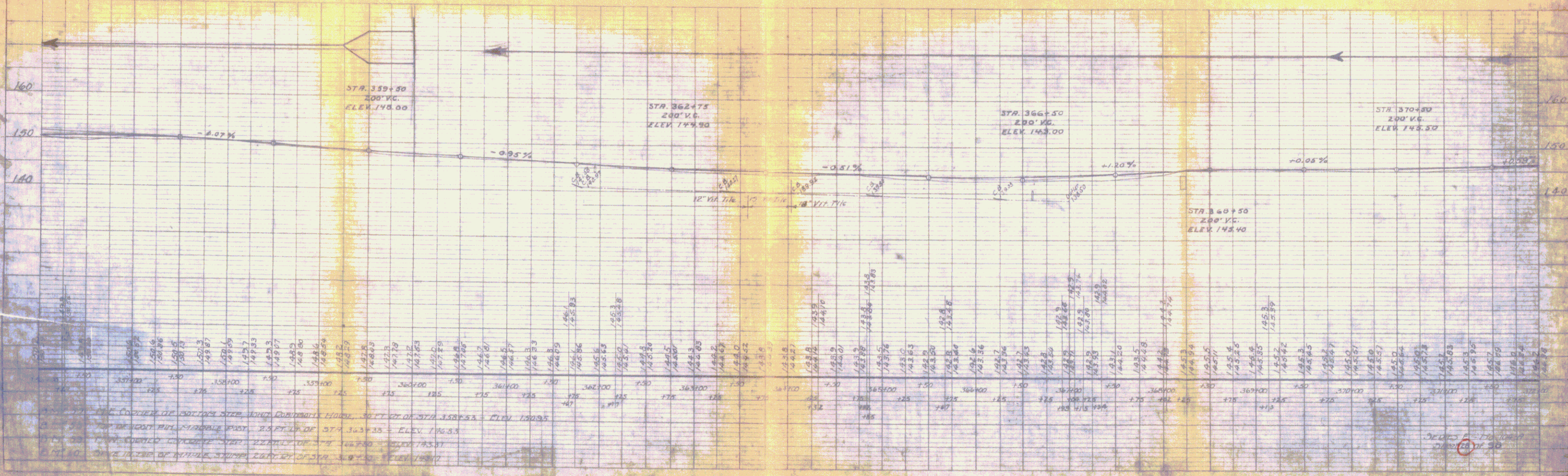
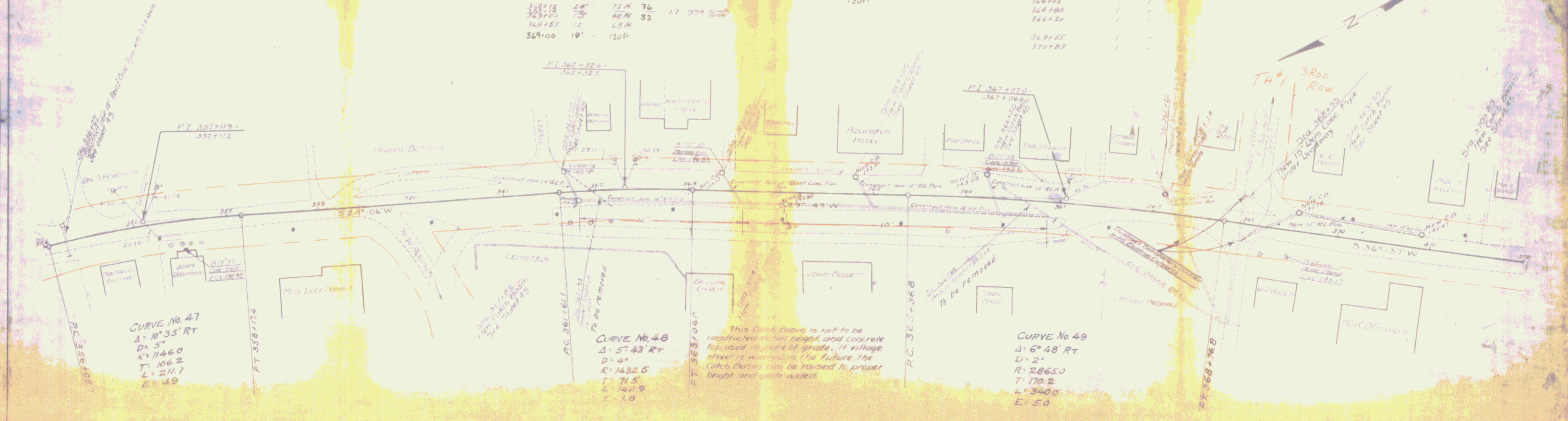
Station	Length	Size	Material	Notes
361+00	12'	36"	RC	
361+12	12'	36"	RC	
361+24	12'	36"	RC	
361+36	12'	36"	RC	
361+48	12'	36"	RC	
361+60	12'	36"	RC	
361+72	12'	36"	RC	
361+84	12'	36"	RC	
361+96	12'	36"	RC	
362+00	12'	36"	RC	

NEW VIBRATED TOP DRAIN REQUIRED

Station	Length	Material	Notes
361+00	12'	Steel	
361+12	12'	Steel	
361+24	12'	Steel	
361+36	12'	Steel	
361+48	12'	Steel	
361+60	12'	Steel	
361+72	12'	Steel	
361+84	12'	Steel	
361+96	12'	Steel	
362+00	12'	Steel	

POUR CONCRETE BASINS REQUIRED

Station	Notes
361+70	Basin
361+80	Basin
361+90	Basin
362+00	Basin



350135-300162

2-1/2

381+50 392+02

152.4

380+25 18

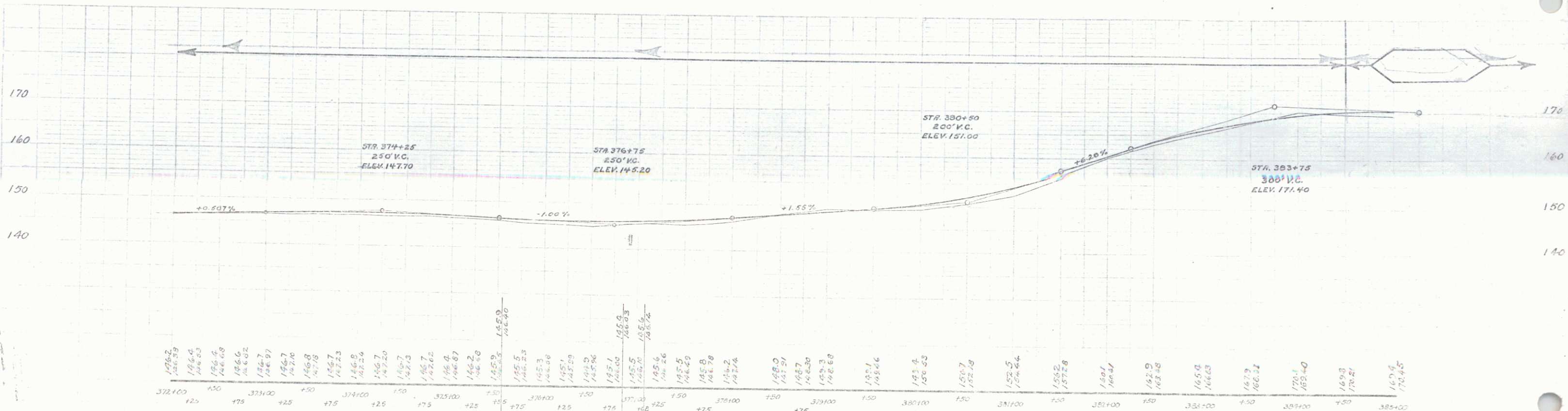
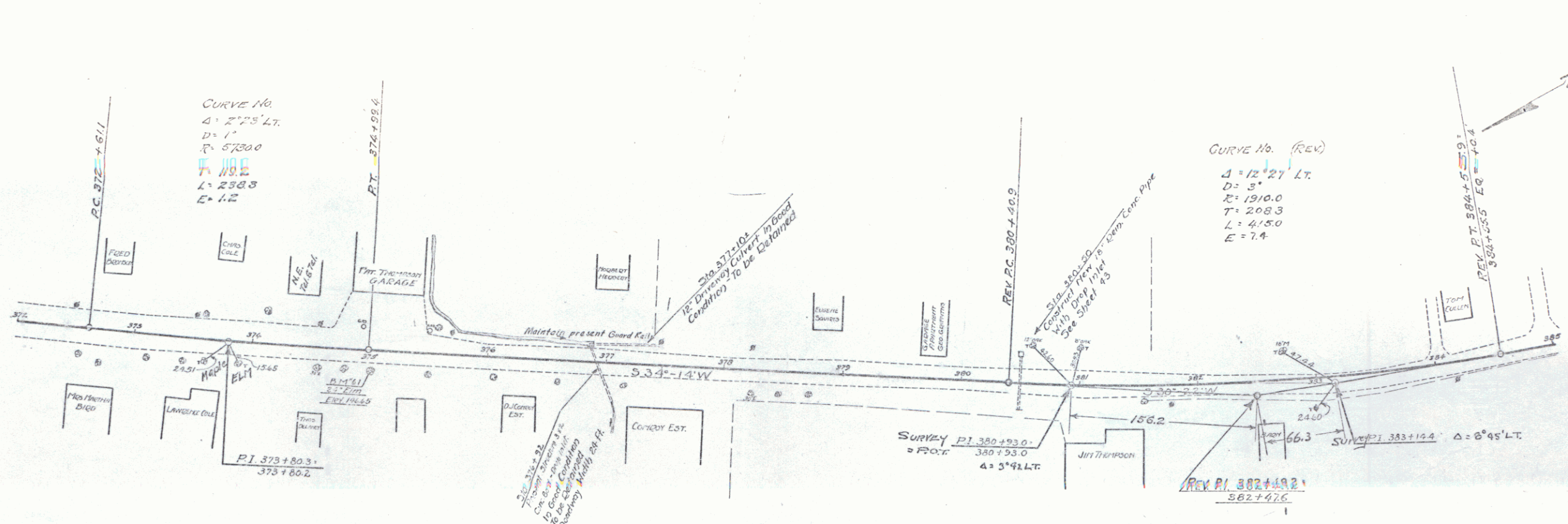
44.4

1.1

1.7

1.7

1044 1220 29 06



372+00	147.62	148.59	149.49	150.33	151.11	151.84	152.51	153.13	153.71	154.25	154.75	155.21	155.63	156.01	156.35	156.65	156.91	157.13	157.31	157.45	157.55	157.61	157.63	157.61	157.55	157.45	157.31	157.13	156.91	156.65	156.35	156.01	155.63	155.21	154.75	154.25	153.71	153.13	152.51	151.84	151.11	150.33	149.49	148.59	147.62																																																																																																																																																																																																																																																																																																																																																		
372+00	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	850	875	900	925	950	975	1000	1025	1050	1075	1100	1125	1150	1175	1200	1225	1250	1275	1300	1325	1350	1375	1400	1425	1450	1475	1500	1525	1550	1575	1600	1625	1650	1675	1700	1725	1750	1775	1800	1825	1850	1875	1900	1925	1950	1975	2000	2025	2050	2075	2100	2125	2150	2175	2200	2225	2250	2275	2300	2325	2350	2375	2400	2425	2450	2475	2500	2525	2550	2575	2600	2625	2650	2675	2700	2725	2750	2775	2800	2825	2850	2875	2900	2925	2950	2975	3000	3025	3050	3075	3100	3125	3150	3175	3200	3225	3250	3275	3300	3325	3350	3375	3400	3425	3450	3475	3500	3525	3550	3575	3600	3625	3650	3675	3700	3725	3750	3775	3800	3825	3850	3875	3900	3925	3950	3975	4000	4025	4050	4075	4100	4125	4150	4175	4200	4225	4250	4275	4300	4325	4350	4375	4400	4425	4450	4475	4500	4525	4550	4575	4600	4625	4650	4675	4700	4725	4750	4775	4800	4825	4850	4875	4900	4925	4950	4975	5000	5025	5050	5075	5100	5125	5150	5175	5200	5225	5250	5275	5300	5325	5350	5375	5400	5425	5450	5475	5500	5525	5550	5575	5600	5625	5650	5675	5700	5725	5750	5775	5800	5825	5850	5875	5900	5925	5950	5975	6000	6025	6050	6075	6100	6125	6150	6175	6200	6225	6250	6275	6300	6325	6350	6375	6400	6425	6450	6475	6500	6525	6550	6575	6600	6625	6650	6675	6700	6725	6750	6775	6800	6825	6850	6875	6900	6925	6950	6975	7000	7025	7050	7075	7100	7125	7150	7175	7200	7225	7250	7275	7300	7325	7350	7375	7400	7425	7450	7475	7500	7525	7550	7575	7600	7625	7650	7675	7700	7725	7750	7775	7800	7825	7850	7875	7900	7925	7950	7975	8000	8025	8050	8075	8100	8125	8150	8175	8200	8225	8250	8275	8300	8325	8350	8375	8400	8425	8450	8475	8500	8525	8550	8575	8600	8625	8650	8675	8700	8725	8750	8775	8800	8825	8850	8875	8900	8925	8950	8975	9000	9025	9050	9075	9100	9125	9150	9175	9200	9225	9250	9275	9300	9325	9350	9375	9400	9425	9450	9475	9500	9525	9550	9575	9600	9625	9650	9675	9700	9725	9750	9775	9800	9825	9850	9875	9900	9925	9950	9975	10000

D. 1" @ 1" SPIKE IN OUT OF 24" ELM. 14' FROM OF STR. 375+00 - ELEV. 136.5

350135-300162
 3/20/00
 3/20/00

28

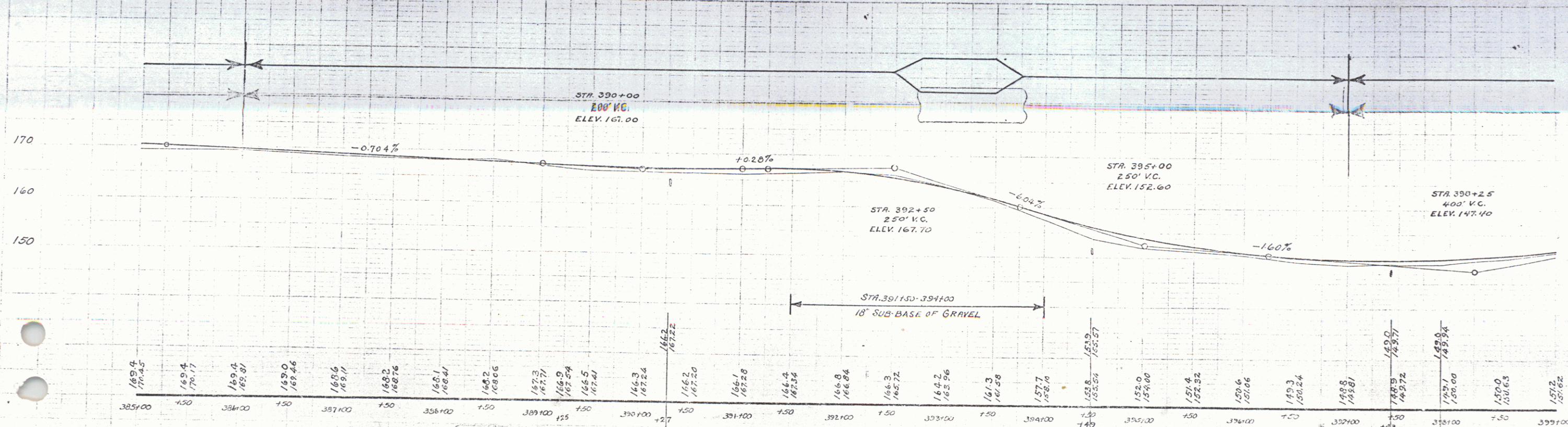
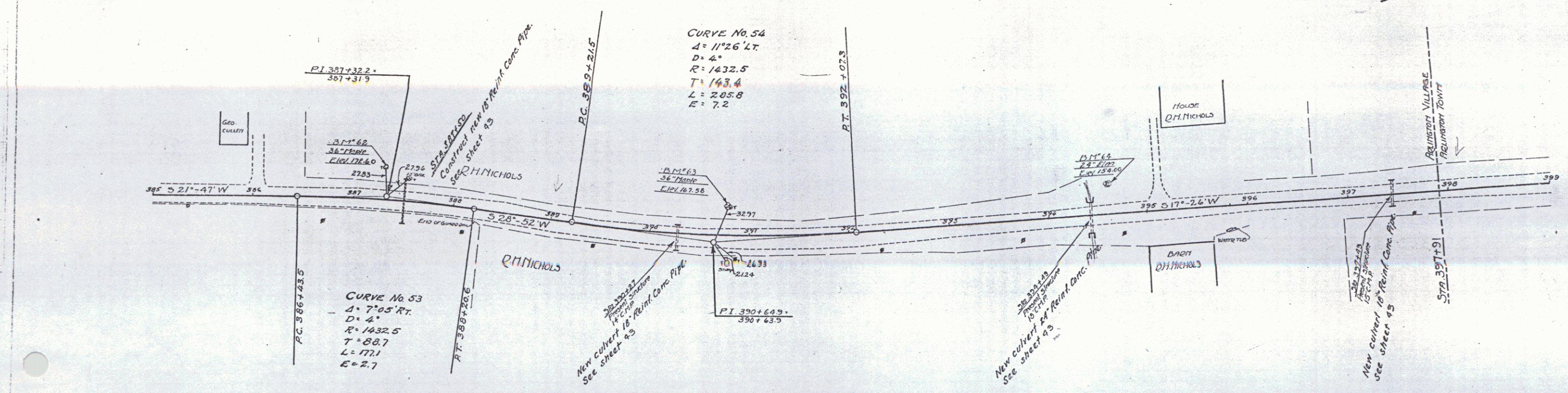
Wood Guard Rail Required

Stations	Left	Right
38662-38762	24H	24H
38710-38810	24H	24H
38810-38910	24H	24H
38910-39010	24H	24H

Cable Guard Rail Required

Stations	Left	Right
38662-38762	432H	432H
38710-38810	432H	432H
38810-38910	432H	432H
38910-39010	432H	432H

3871.50	15'	44.4'	-	3.0 c.y.	33"
3871.25	18'	32.0'	-	3.0 c.y.	33"
3871.00	24'	32.0'	3.4 c.y.	-	34"
3871.75	18'	32.0'	-	3.0 c.y.	33"



D.M. 62 SPIKE IN FOOT OF 36" PIPE, 36 FT. LT. OF STA 387+31 - ELEV. 172.40
 D.M. 63 SPIKE IN FOOT OF 36" PIPE, 36 FT. LT. OF STA 390+79 - ELEV. 167.58
 D.M. 64 SPIKE IN FOOT OF 24" PIPE, 27 FT. LT. OF STA 394+62 - ELEV. 154.60

WOOD GUARD RAIL REQUIRED

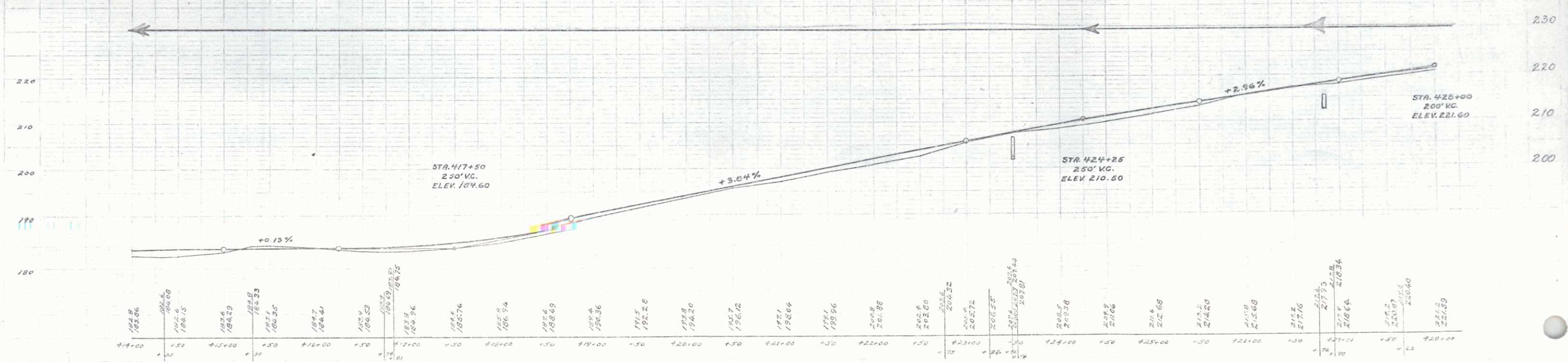
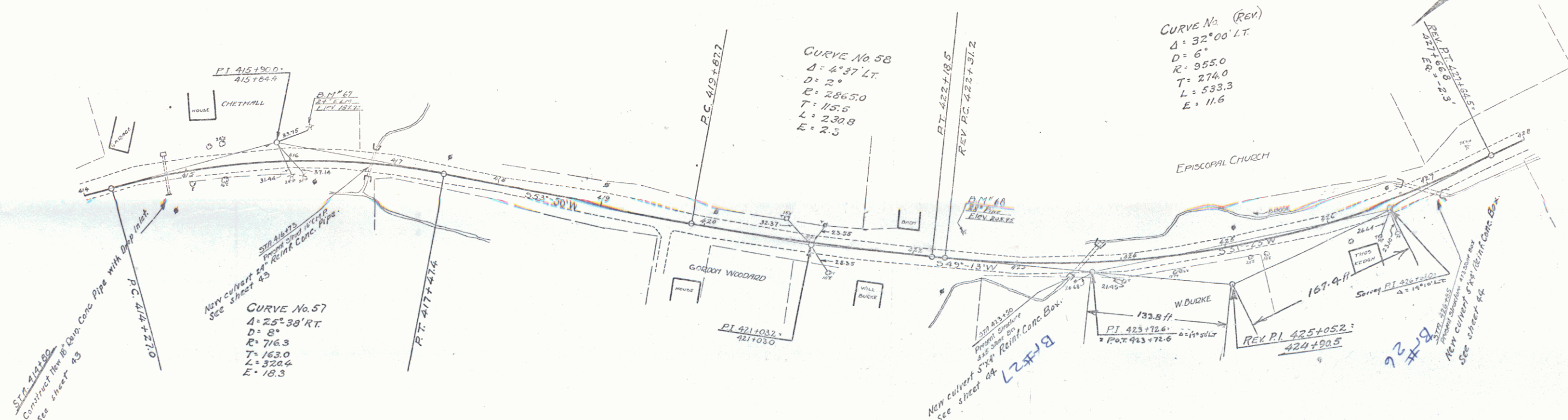
Stations	Left	Right
416+42-416+65	-	24 ft
416+65-416+98	24 ft	-
422+14-422+18	24 ft	-
422+18-422+28	24 ft	-
422+28-422+38	24 ft	-

CABLE GUARD RAIL REQUIRED

Stations	Left	Right
416+00-416+100	-	10 ft

NEW REINFC CONC PIPE CULVERTS REQUIRED NEW REINFC CONC BOX CULVERTS REQUIRED

Station	Diam	Length	Grade	Material	Notes
416+00	18"	36 ft	1.8%	Reinfc Conc	See sheet 100
416+40	24"	40 ft	1.8%	Reinfc Conc	See sheet 100
422+14	36"	35 ft	1.8%	Reinfc Conc	See sheet 100
422+18	36"	35 ft	1.8%	Reinfc Conc	See sheet 100
422+28	36"	35 ft	1.8%	Reinfc Conc	See sheet 100



BM 67 - SPIKE IN ROOT OF 24" ELM 20' LT. OF STA. 416+18 - ELEV. 187.75
 BM 68 - SPIKE IN ROOT OF 26" PINE 23' LT. OF STA. 422+45 - ELEV. 203.95

SEE SHEET 100 FOR
 SHEET 101

CHABLE GUARD RAIL REQUIRED
 Stations Left Right
 442+30-443+54 24 ft

CHABLE GUARD RAIL REQUIRED
 Station 442+30 10 Left Right
 442+30-443+54 24 ft
 443+54-445+14 26 ft

NEW REINFORCED CONC. PIPE CULVERTS REQUIRED
 Station Diam Length Core A Core B Steel D/Side
 442+30 18" 15' 14" 14" 20"
 443+30 18" 15' 14" 14" 20"
 443+30 30" 15' 14" 14" 20"

NEW REINFORCED CONC. BOX CULVERTS REQUIRED
 Stations Size Core A Steel
 443+30-443+54 30" 14" 20"
 443+54-444+14 30" 14" 20"

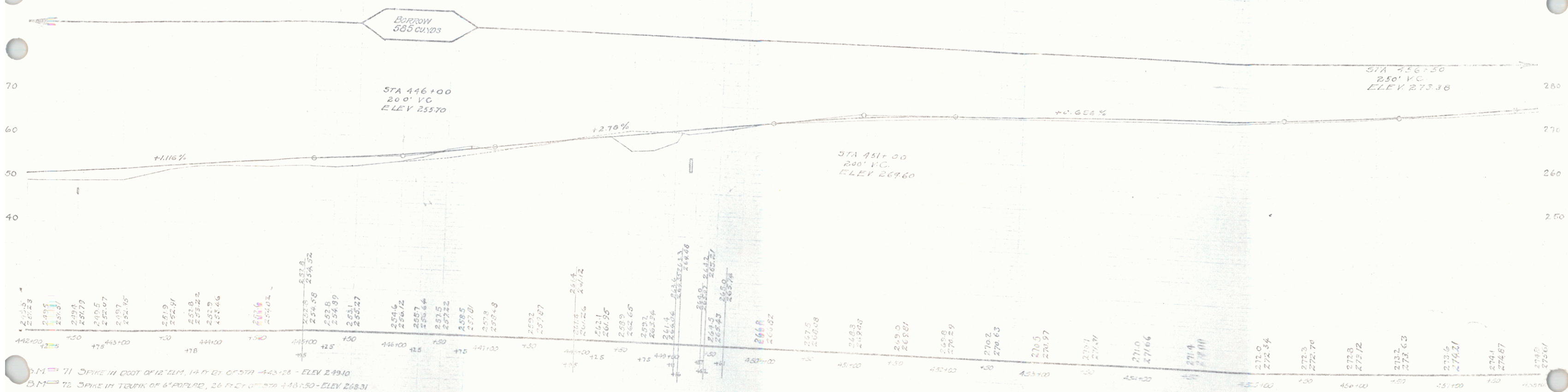
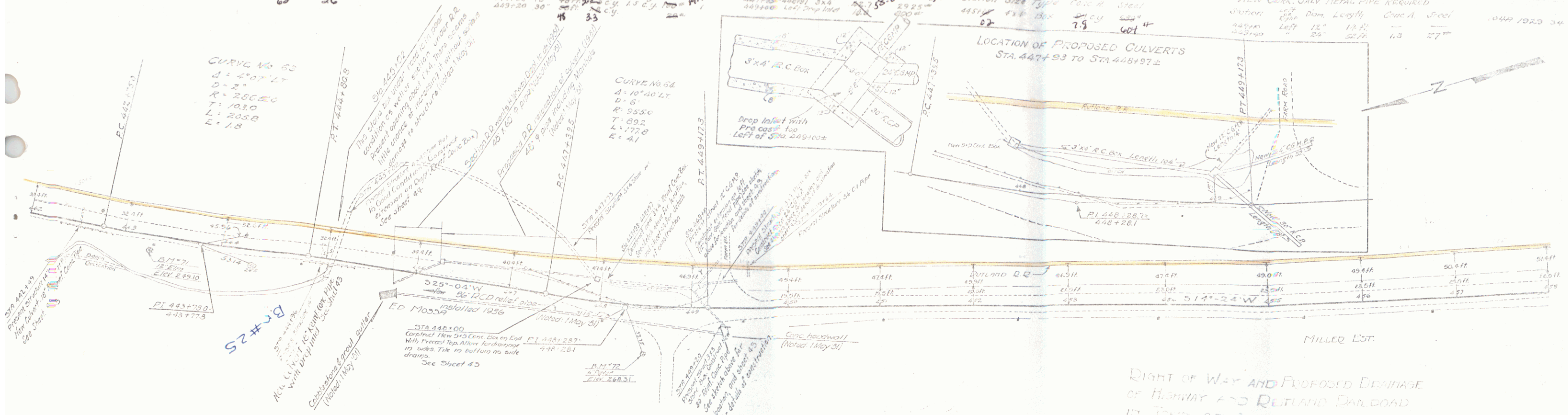
REINFORCED CONC. CULVERT PIPES REQUIRED
 Station Size Type Core A Steel
 443+54 18" 14" 20"

NEW CORR. GALV. METAL PIPE REQUIRED
 Station Size Type Core A Steel
 443+54 18" 14" 20"

CURVE NO 55
 Δ = 2° 07' 47"
 D = 2"
 R = 2005.0
 T = 103.0
 L = 203.8
 E = 1.8

CURVE NO 54
 Δ = 10° 40' 47"
 D = 8"
 R = 935.0
 T = 89.2
 L = 177.0
 E = 4.1

LOCATION OF PROPOSED CULVERTS
 STA. 442+93 TO STA. 443+92.2



B.M. 71 SPIKE IN FOOT OF 12" ELM, 14" DI. OF STA. 443+18 - ELEV 2491.0
 B.M. 72 SPIKE IN TRUNK OF 6" PINE, 26" DI. OF STA. 443+50 - ELEV 2483.1

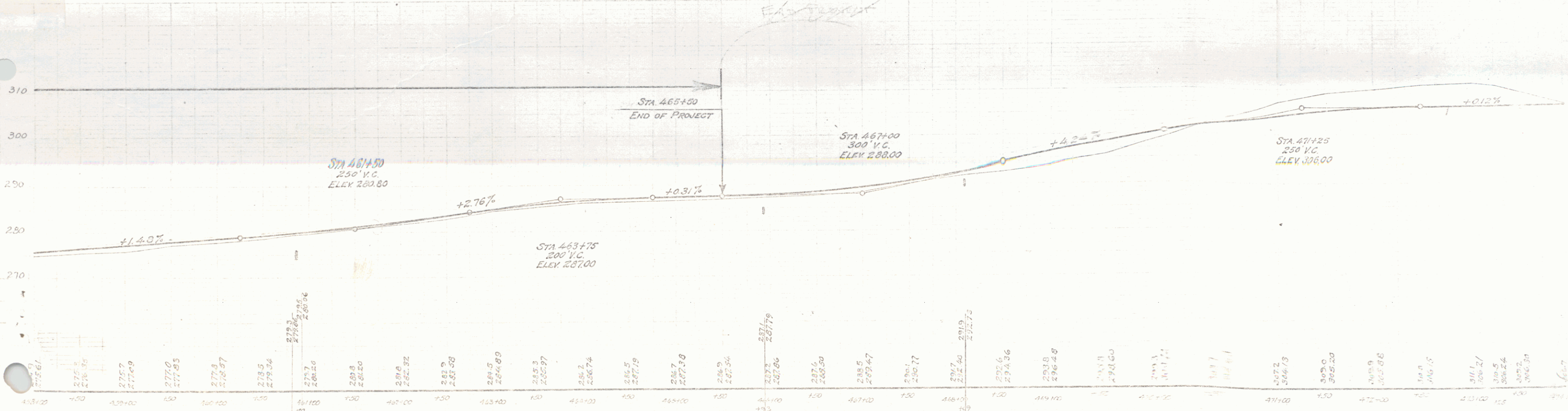
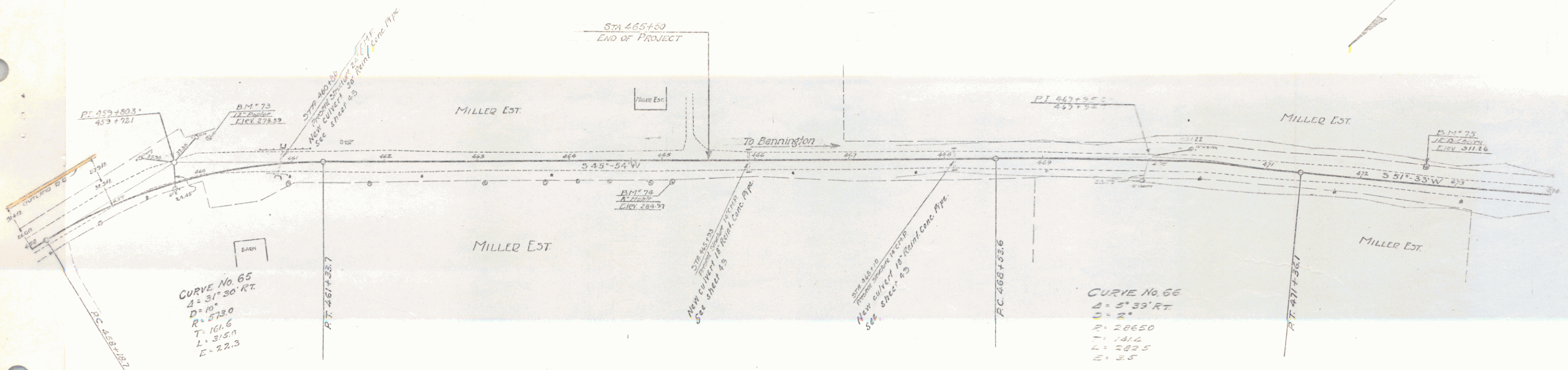
Sheet 24 of 24
 Sheet 24 of 24

WOOD SHIELD RAIL REQUIRED

Station	Left Right
450+00 - 450+00	24 FT
450+00 - 451+00	24 FT
451+00 - 452+00	24 FT
452+00 - 453+00	24 FT

NEW REIN. CONC. PIPE CULVERTS REQUIRED

Station	Span	Depth	Length	Notes
450+00	30"	20"	34'	See sheet 34
451+00	18"	33"	34'	See sheet 34
452+00	18"	33"	34'	See sheet 34



B.M. 73 SPIKE IN TOP OF 12" D. CULVERT, 38 FT. W. OF STA 460+14 - ELEV. 278.59
 B.M. 74 SPIKE IN TOP OF 12" D. CULVERT, 21 FT. W. OF STA 463+10 - ELEV. 284.97
 B.M. 75 SPIKE IN TOP OF 12" D. CULVERT, 17 FT. W. OF STA 471+10 - ELEV. 311.24

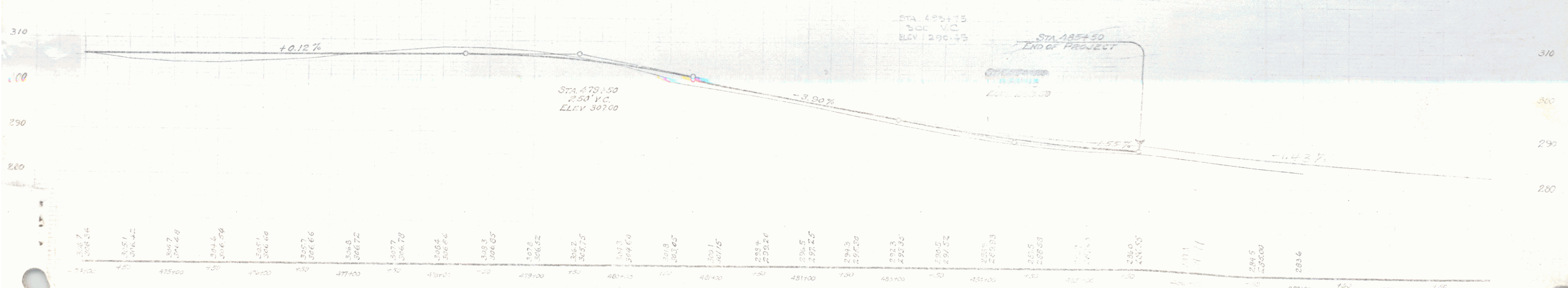
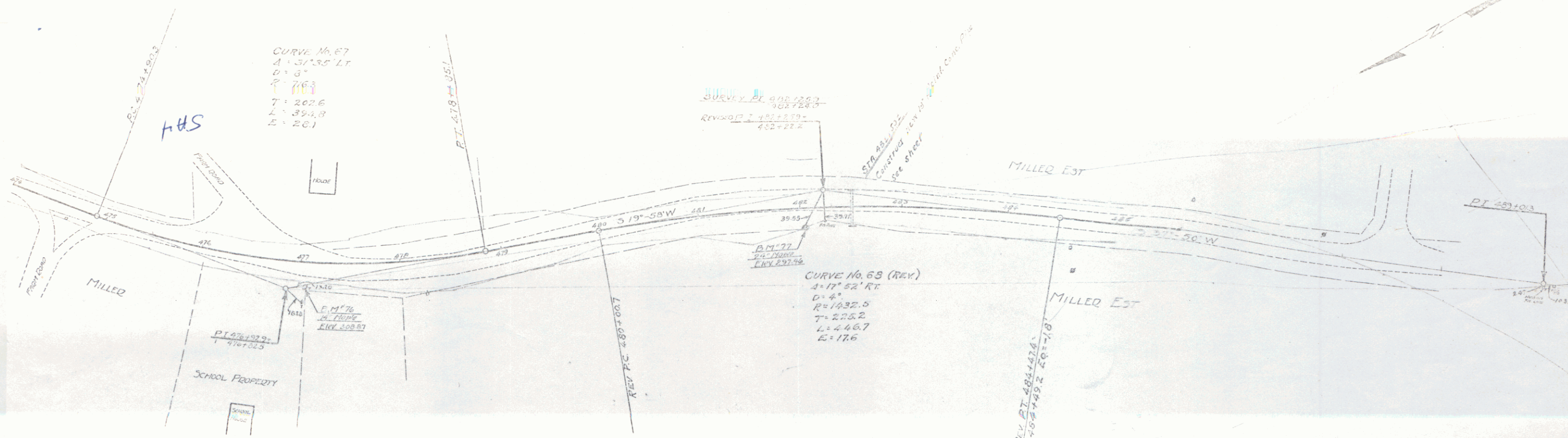
Sheet 34 of 4
 34

057

STEARNS R. JENKINS

Station Left Right
48233-75565 1/4" 20'

New Reine Conc. Pipe Culverts Required
Station Right Left
481101 10' 11.8' 1/4" 20'



D.M. 76 SPIKE IN ROOT OF 14" FIRPLE, 25 FT. E. OF STA. 477+04 - ELEV. 305.87
 D.M. 77 SPIKE IN ROOT OF 24" FIRPLE, 20 FT. E. OF STA. 481+04 - ELEV. 292.44

SERIES C 1/4" 20' 1/4" 20'
 JAN 18 98

35

INDEX OF SHEETS

SHEET NO	TITLE PAGE
1	TITLE PAGE
2	TYPICAL CROSS-SECTION OF IMPROVEMENT & SUMMARY OF QUANTITIES
3-7	LAYOUT SHEETS
8	STANDARD STRUCTURE SHEET S-35 (CONCRETE CRIBBING)
9-24	CROSS SECTION SHEETS

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

FEDERAL AID PROJECT
ROADSIDE IMPROVEMENT
PLANTING PLANS

TOWNS OF MANCHESTER-
SUNDERLAND-ARLINGTON
MANCHESTER-BENNINGTON ROAD
ROUTE U.S. 7

BEGINNING AT STA. 0+00 OF PROJECT F.A. 104-A
AND EXTENDING SOUTHERLY TO STA. 305+30

LENGTH OF PROJECT 29,282.9 FEET = 5.546 MILES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
0	VT	104-A	7	1	26

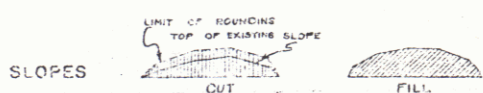
(LANDSCAPING)



ROADSIDE DIVISION
TOWN FILE

PERMIT NO. 557
(To Be Returned To R.O.W. Division)

CONVENTIONAL SIGNS



- COUNTY LINE
- TOWN LINE
- FENCE LINE
- STONE WALL
- UNFENCED PROPERTY (R.W.P.)
- GUARD RAIL
- TRAVEL WAY (UNPAVED)
- RAILROAD (METALLED)
- RETAINING WALL
- CENTER LINE
- SURVEY LINE
- CULVERT
- SHOULDER
- POWDER POLE
- WATER POLE
- TRAIL
- LOG

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.
POINT ON TANGENT	P. O. T.

SCALES

TYPICAL SECTIONS AS INDICATED
LAYOUTS 1" = 50'

NOTE
These plans are subject to such revisions as may be required by the Bureau of Public Roads or the Commissioner of Highways. Construction is to be carried on in accordance with the plans and Standard Road and Bridge Specifications of 1936, as approved December 29, 1936 by the Bureau of Public Roads, including all subsequent approved revisions and such revised specifications and special provisions as are submitted with the plans.

APPROVED: [Signature]

APPROVED: [Signature]

RECOMMENDED

RECOMMENDED

APPROVED

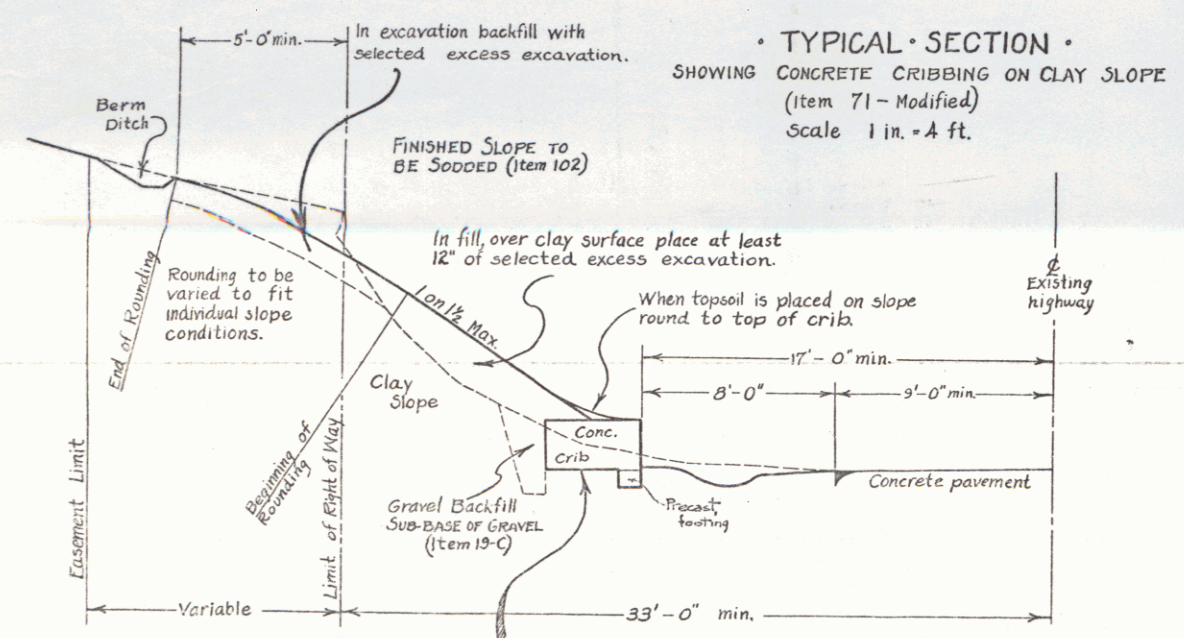
APPROVED [Signature] SHEET 1 OF 26

SUMMARY OF QUANTITIES

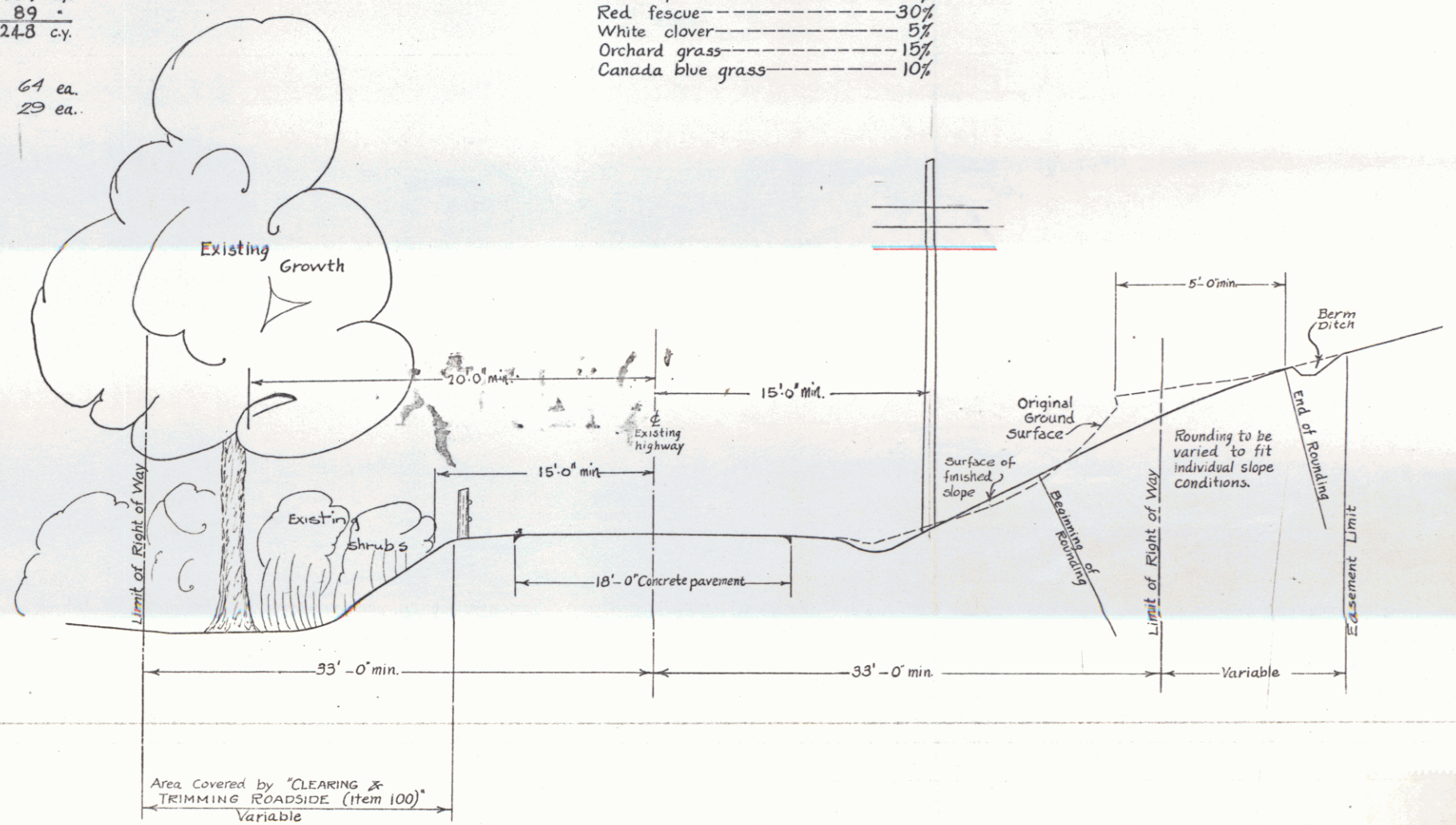
COMMON EXCAVATION As per cross-sections	(Item 10)	14.68 cy.	COMMERCIAL FERTILIZER FOR GRASSES (Item 103)	Slopes to be seeded	74.0 lbs.
		<u>Total 14.68 cy.</u>		Slopes to be sodded	680 "
				<u>Total 1420 lbs.</u>	
SUB-BASE OF GRAVEL Parking shoulder surface Crib backfill	(Item 19-C)	31 cy. 115 cy.	GRASS SEED (Item 104-modified)	Seed formula A	105 lbs.
		<u>Total 146 cy.</u>		Seed formula B	45 "
				<u>Total 150 lbs.</u>	
CONCRETE CRIBBING Sta. 137+25 - Sta. 138+65 Rt. Sta. 185+85 - Sta. 187+10 Rt.	(Item 71-modified)	295.2 cf. 263.9 "	GRASS SOD (Item 105)		6586 sq.
		<u>Total 559.1 cf.</u>	TOPSOIL (Item 106)	Slopes to be seeded	159 cy.
CLEARING & TRIMMING ROADSIDE (Item 100)		2.4 acres		Slopes to be sodded	89 "
FINISH GRADING, FERTILIZING & SEEDING (Item 101)		7029 sq.		<u>Total 248 cy.</u>	
FINISH GRADING, FERTILIZING & SODDING (Item 102)		6586 sq.	CUTTING & REMOVING TREES (Item 109)	Trees over 15" dia.	64 ea.
				Trees 15" dia. or less	29 ea.

GRASS SEED MIXTURES (Item 104 modified)

- FORMULA A** - For average good soil conditions.
 (to be used unless otherwise noted)
- Kentucky blue grass-----20%
 - White clover-----5%
 - Orchard grass-----15%
 - Red top-----40%
 - Canada blue grass-----10%
 - Red fescue-----10%
- FORMULA B** - For average good soil in shade.
 (to be used where noted on layout sheets)
- Red top-----40%
 - Red fescue-----30%
 - White clover-----5%
 - Orchard grass-----15%
 - Canada blue grass-----10%



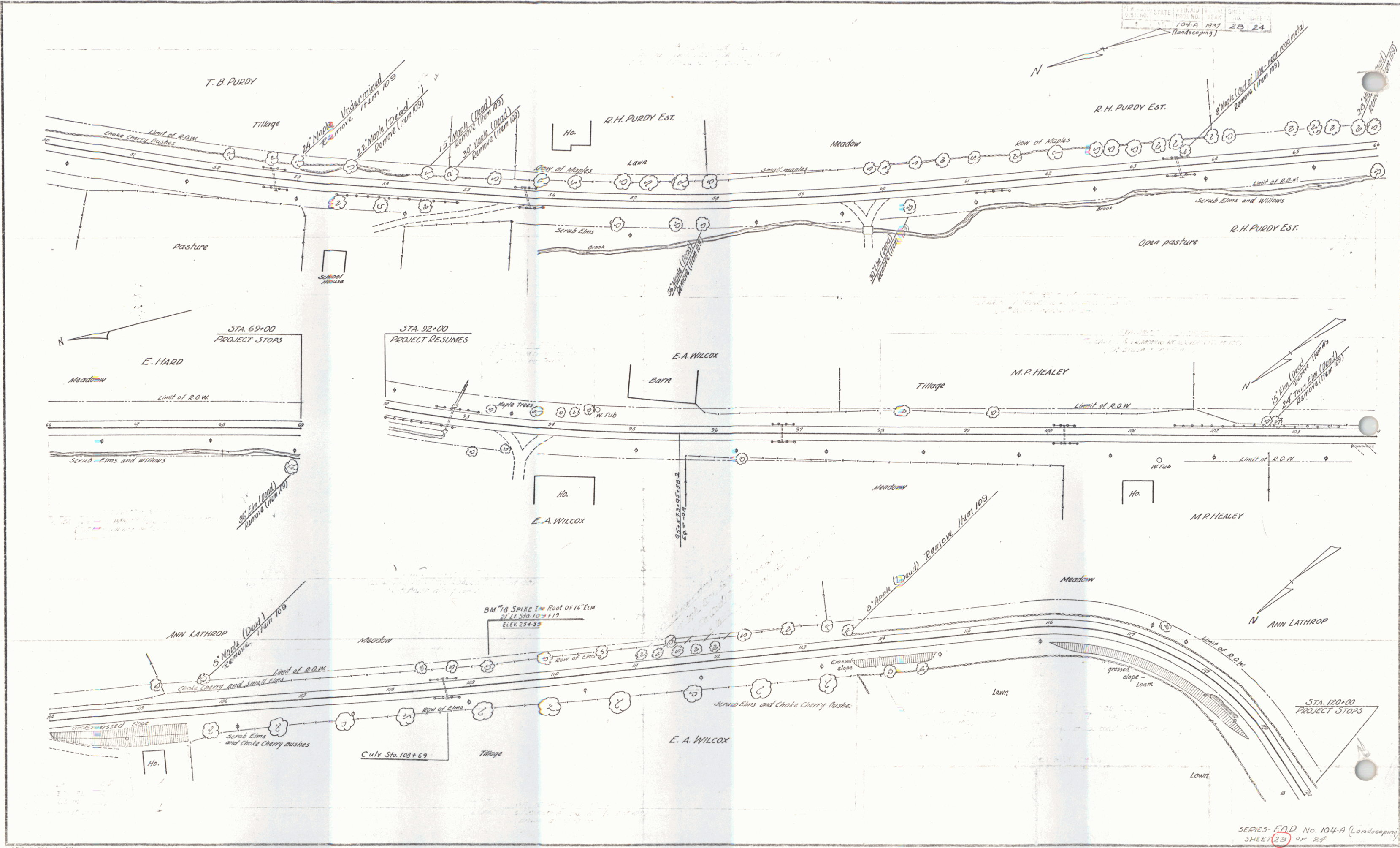
For details of Concrete Cribbing see standard structure sheet 3-35
 NOTE: Struts 'A' shall be made 4'-0" total length instead of 7'-0" as shown on 3-35
 Revised quantities for modified strut 'A' - 4'-0" long.
 Concrete Class A - 107 cu. ft.
 Reinforcing Steel: Four 3/8" bars 4'-0" long - total weight 6.08 lbs.
 The footing to be precast in sections not over 10'-0" long.



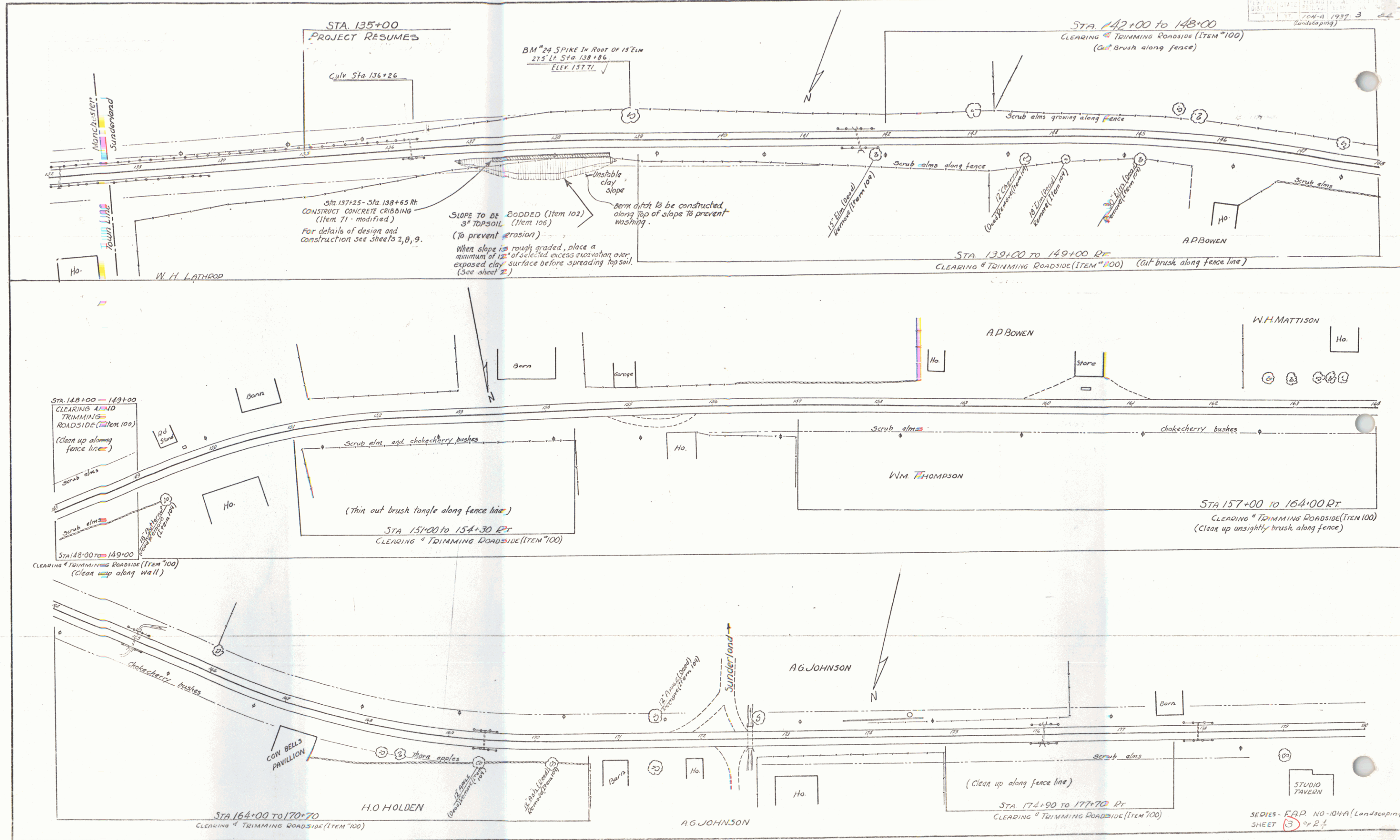
TYPICAL SECTION
 Scale: 1 in. = 5 ft.

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS
 DESIGNED BY A.J. RIVALLS, ROAD ENGINEER
 DRAWN & COMPUTED BY CH. BUXTON
 TRACED BY L.F. CONE
 CHECKED BY R.A.M., H.S., A.W.C., L.P.O.
 SERIES F.A.P. No. 104-A (LANDSCAPING)
 SHEET 2 OF 24

STATE ROAD No. 104-A
 104-A 1937 23 24
 (Landscaping)



SERIES - F.A.D. No. 104-A (Landscaping)
 SHEET 23 OF 24



STA 135+00
PROJECT RESUMES

STA 142+00 TO 148+00
CLEARING & TRIMMING ROADSIDE (ITEM 100)
(Cut brush along fence)

BM #24 SPIKE IN ROOF OF 15'xLM
215' Lt. Sta 138+86
ELEV. 157.71

Sta 137+25 - Sta 138+65 RT
CONSTRUCT CONCRETE CRIBBING
(Item 71 - modified)
For details of design and
construction see sheets 2, 8, 9.

SLOPE TO BE BODDED (Item 102)
3" TOPSOIL (Item 106)
(To prevent erosion)

When slope is rough graded, place a
minimum of 12" of selected excess excavation over
exposed clay surface before spreading topsoil.
(See sheet 2)

erosion
slope
Barricade to be constructed
along top of slope to prevent
washing.

STA 139+00 TO 149+00 RT
CLEARING & TRIMMING ROADSIDE (ITEM 100) (Cut brush along fence line)

Sta 148+00 - 149+00
CLEARING AND
TRIMMING
ROADSIDE (ITEM 100)
(Clean up along
fence line)

Sta 148+00 - 149+00
CLEARING & TRIMMING ROADSIDE (ITEM 100)
(Clean up along wall)

STA 151+00 TO 154+30 RT
CLEARING & TRIMMING ROADSIDE (ITEM 100)

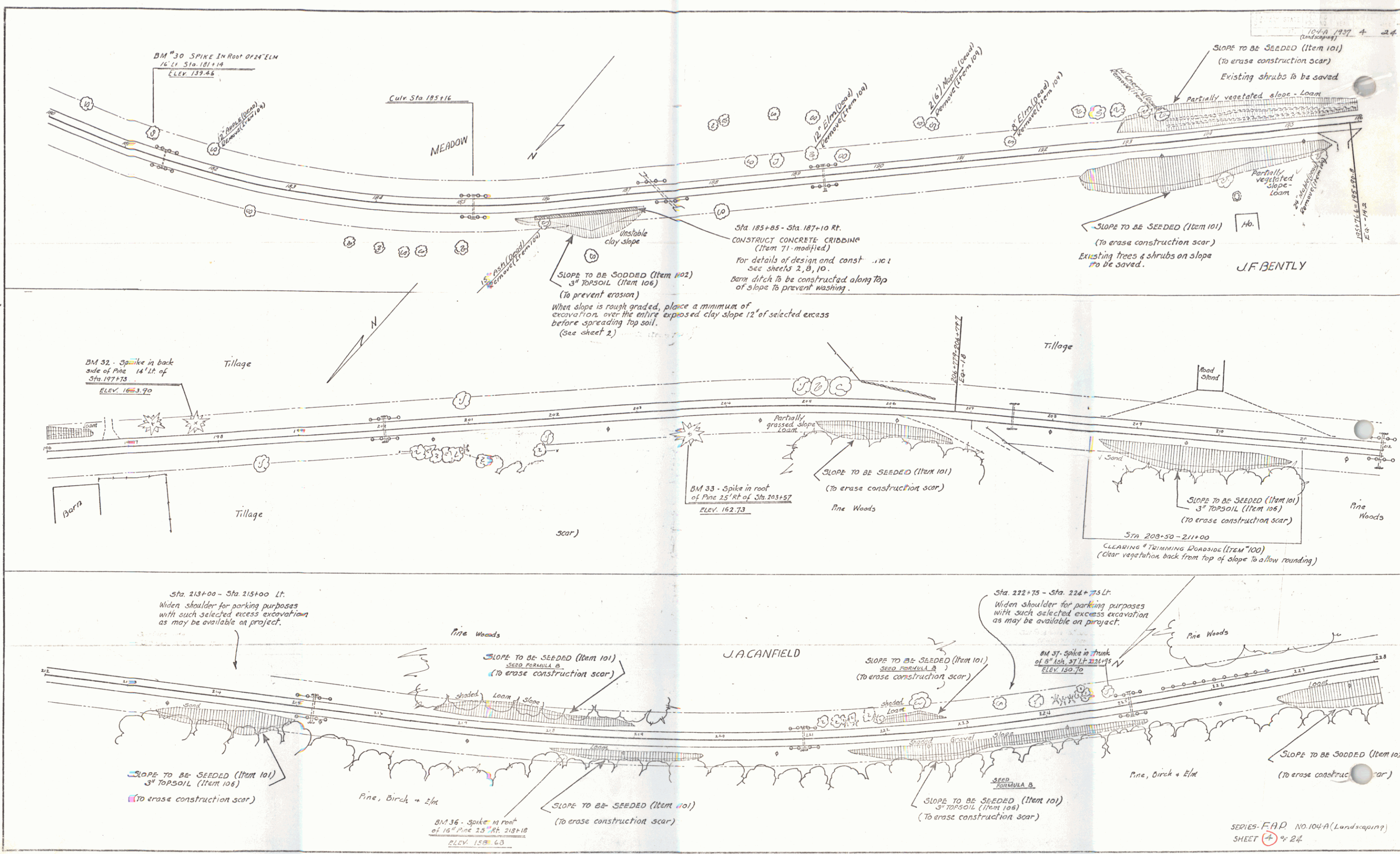
STA 157+00 TO 164+00 RT
CLEARING & TRIMMING ROADSIDE (ITEM 100)
(Clean up unsightly brush along fence)

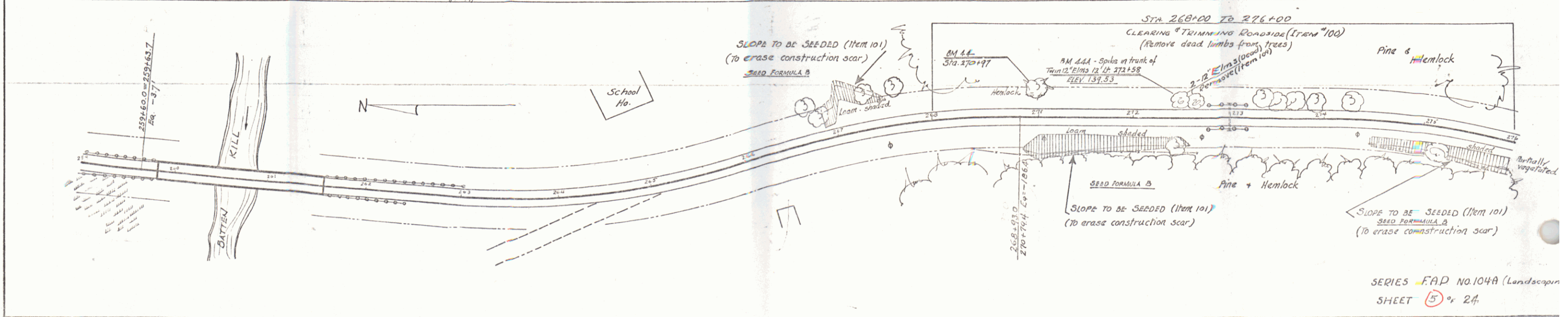
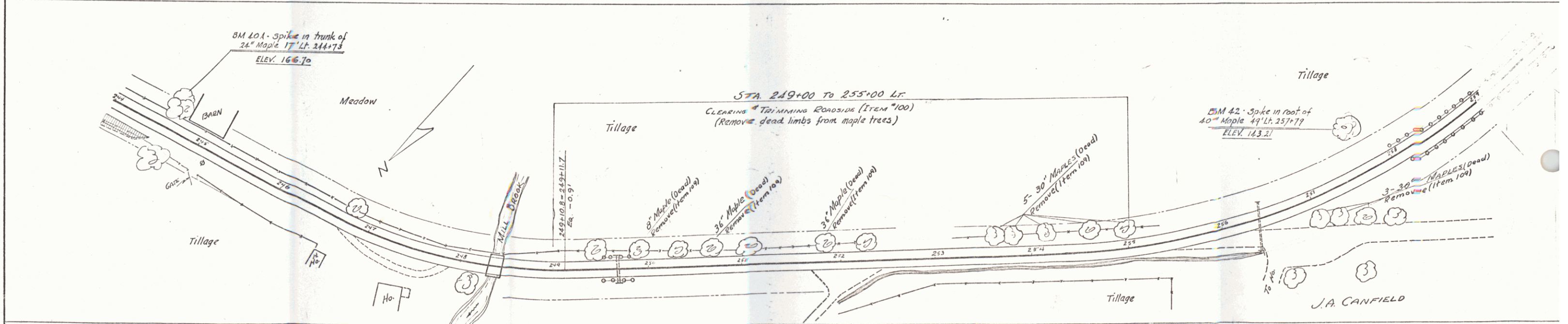
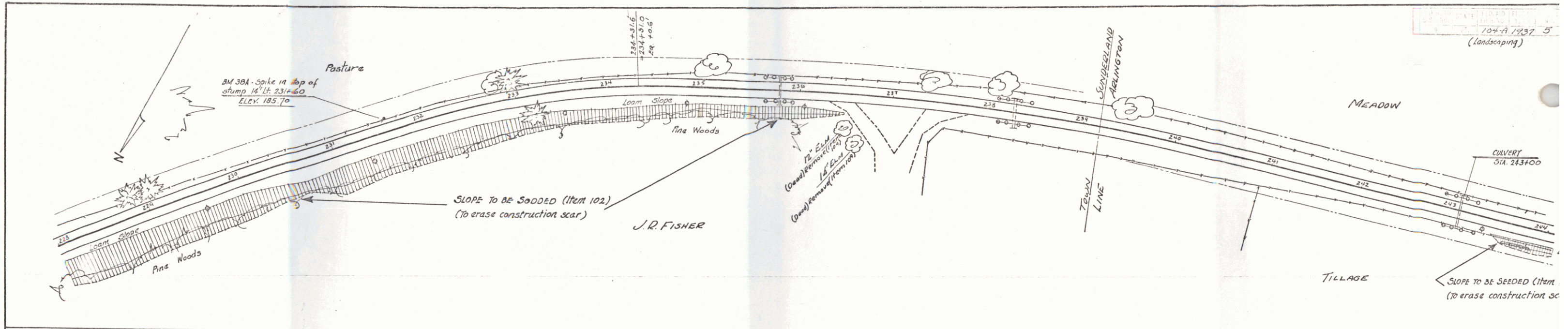
STA 164+00 TO 170+70
CLEARING & TRIMMING ROADSIDE (ITEM 100)

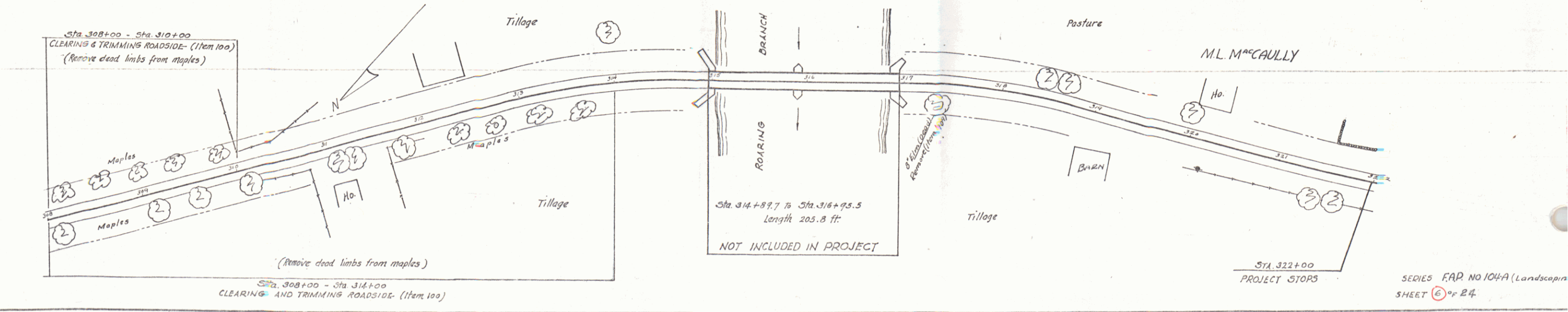
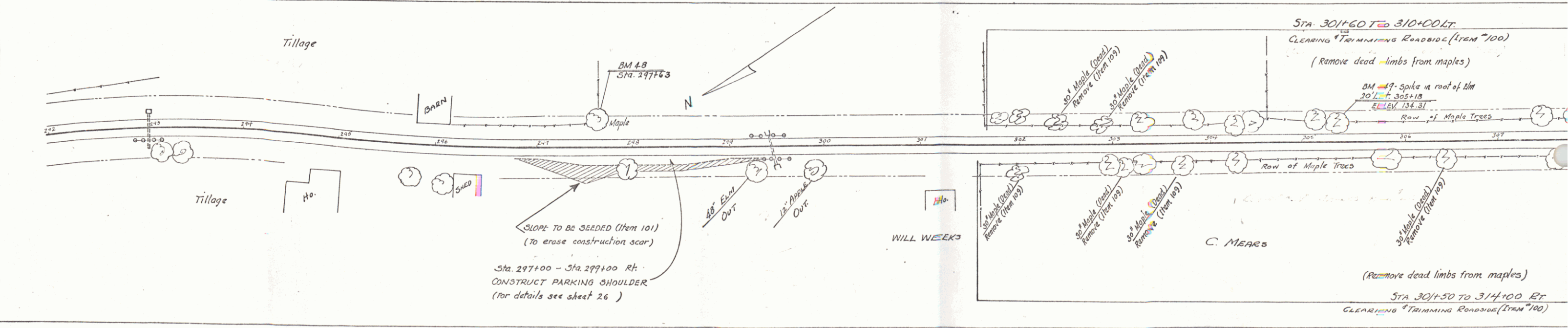
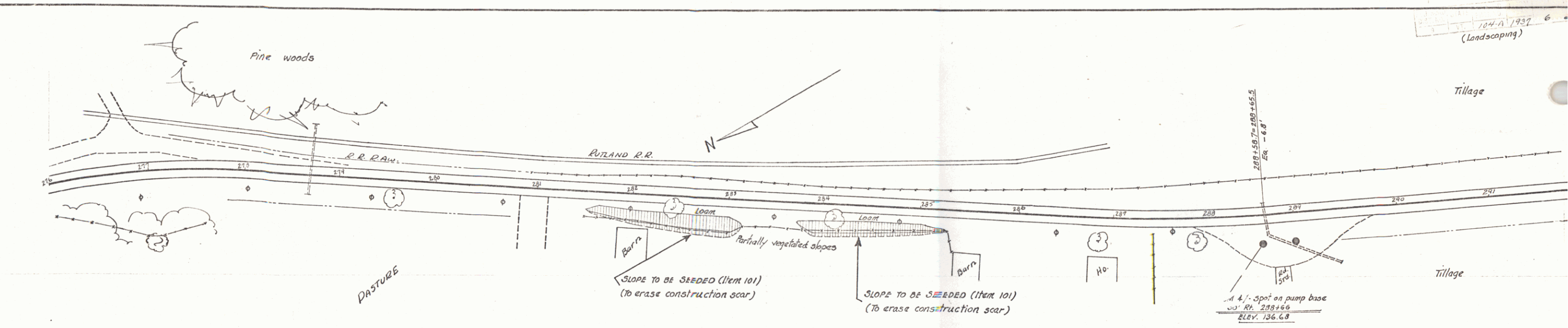
STA 174+90 TO 177+70 RT
CLEARING & TRIMMING ROADSIDE (ITEM 100)

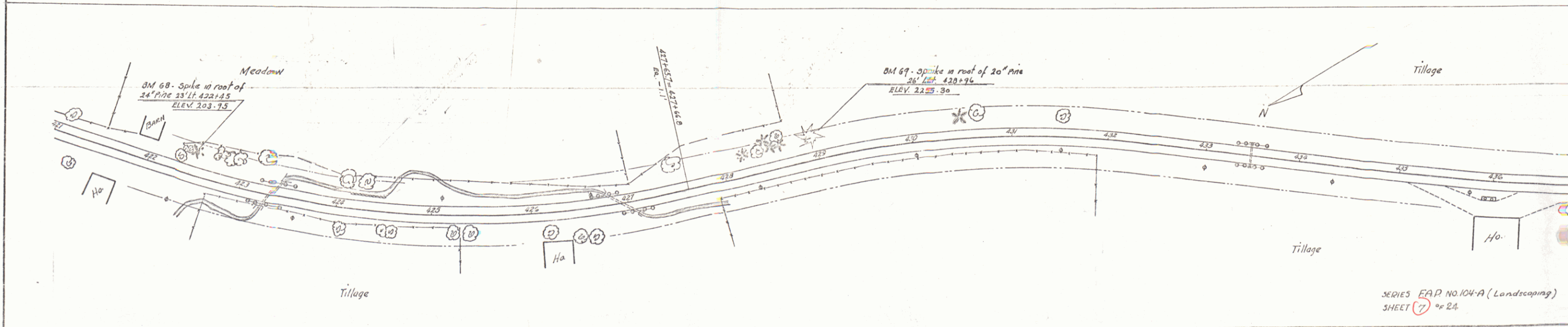
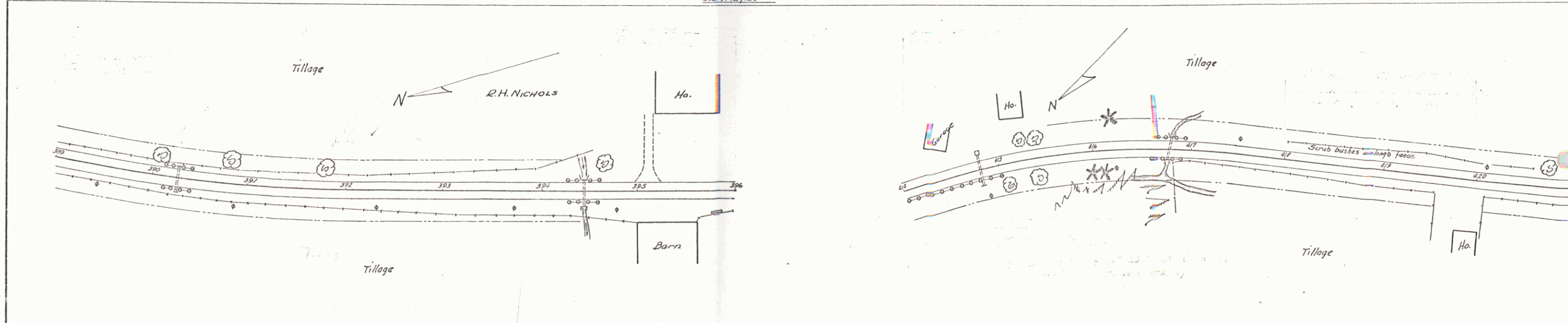
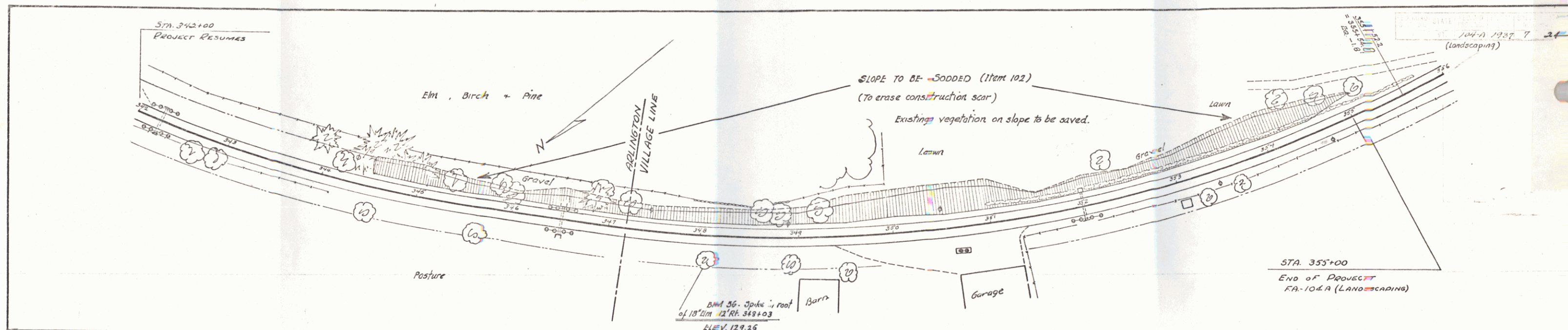
SERIES - EAP NO-104A (Landscape)
SHEET 3 OF 2 1/2

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SERIES EAP NO. 104-A (Landscaping)
SHEET 7 of 24