

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	GENERAL CROSS-SECTION OF IMPROVEMENT ONE COURSE CEMENT CONCRETE PAVEMENT.
2	DETAILS OF CONSTRUCTION
3	PLAN AND PROFILE STA. 323+00-478+00
4	STAND. STRUCTURES SHEET S-20 PIPE CULVERTS
5	" " " S-21 BOX CULVERTS
6	" " " S-22 GUARD RAIL ETC. CURB GUTTER ETC.
7	CULVERT CROSS SECTION SHEETS
8	CROSS SECTION SHEETS STA 323+00-478+00

STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

FEDERAL AID PROJECT

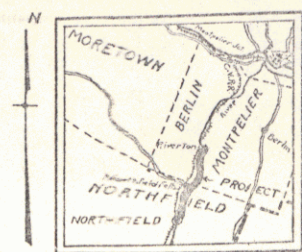
TOWNS OF BERLIN-NORTHFIELD

MONTPELIER-NORTHFIELD ROAD

FROM A POINT 250 FT. SOUTH OF HOUSE OF
MRS. W.L. PEAKE SOUTHERLY TO A POINT 1,006.5 FT.
SOUTH OF BRIDGE OVER DOG RIVER.

LENGTH OF PROJECT 15,238.1 FT.=2.886 MILES.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEETS
9	VT.	78-L	1930	1	57



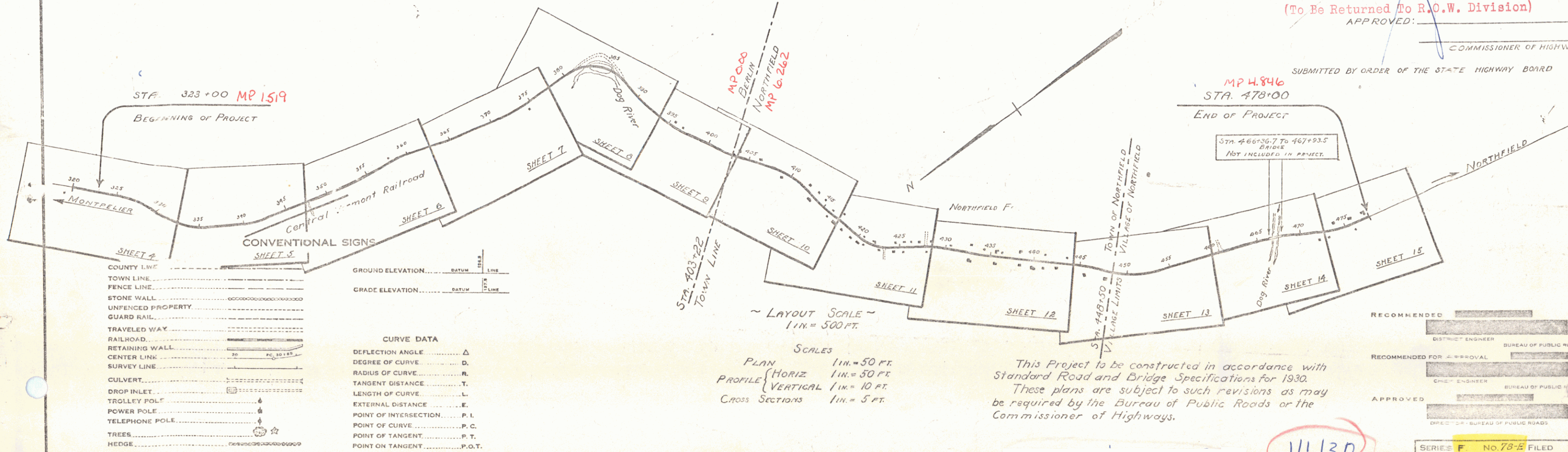
SCALE 1 IN. = 4 MI.

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

RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
TOWN OF VT
(To Be Returned To R.O.W. Division)
APPROVED:

COMMISSIONER OF HIGHWAYS

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD



RECOMMENDED
DISTRICT ENGINEER
BUREAU OF PUBLIC ROADS
RECOMMENDED FOR APPROVAL
CHIEF ENGINEER
BUREAU OF PUBLIC ROADS
APPROVED
DIRECTOR - BUREAU OF PUBLIC ROADS

SERIES F NO. 78-L FILED
SHEET 1 OF 57

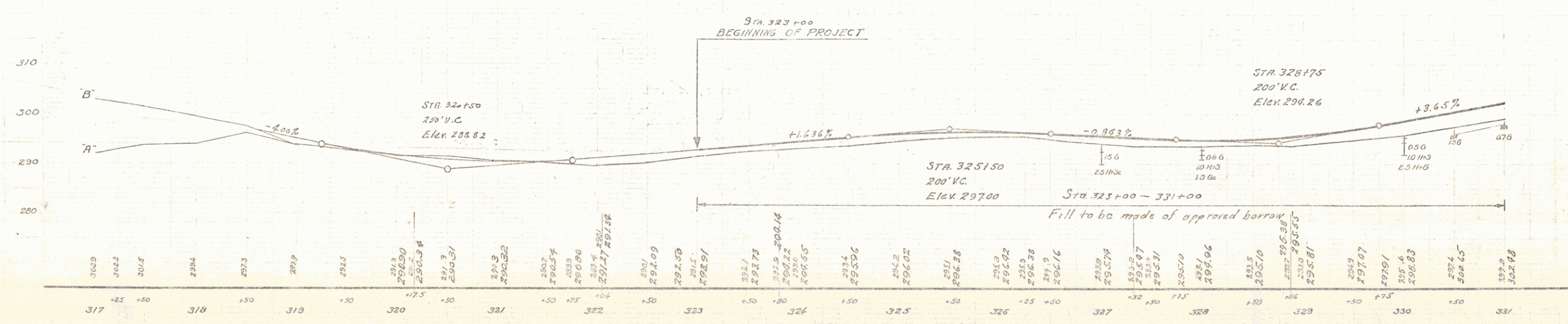
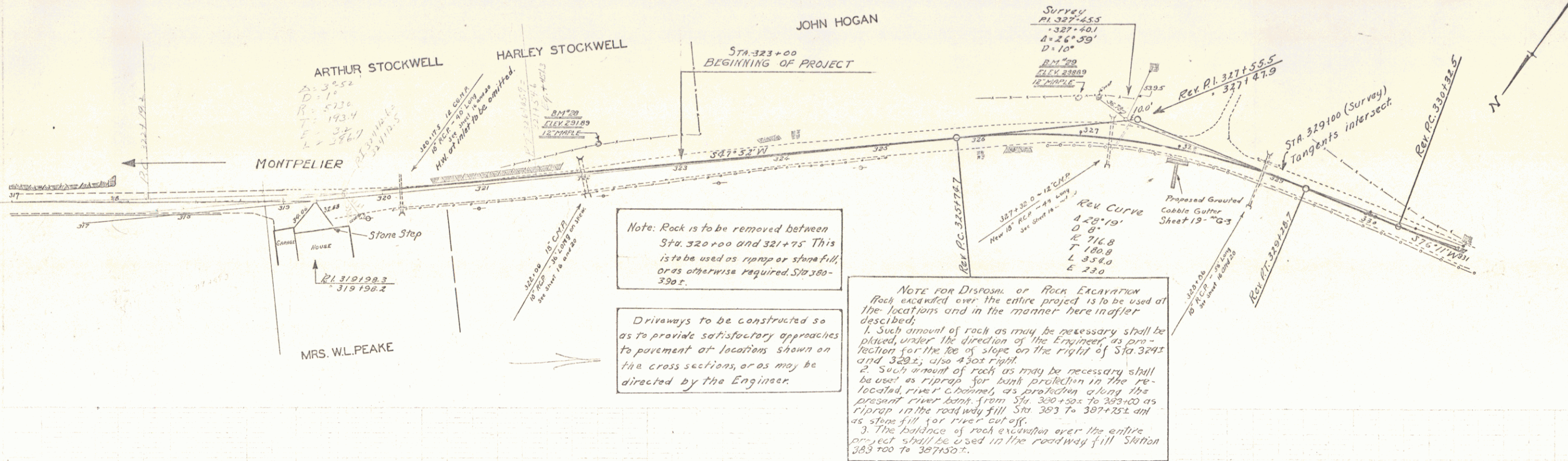
WOOD GUARD RAIL REQUIRED		
CUM STA	LT	RT
320+17.5	24'	24'
322+00	24'	-
327+32	24'	-
328+86	24'	-

CABLE GUARD RAIL REQUIRED		
Stations	LT	RT
321+92-324+06	-	309'
326+80-331+00	-	420'

REINFC CONC. PIPE CULV. REQUIRED				
STA	DIA	LENG	CUMUL	SHELL
320+11.5	18"	40'	0.3 cu yd	27 #
322+00	18"	36'	1.8	54 #
327+32	18"	49'	1.8	54 #
328+86	18"	56'	1.8	54 #

GROUTED COBBLE GUTTER		
Sta	Width	Area
328+00 RT	3'-0"	15 sq. yds.

78-E 1930 4



B.M. No. 28 Spike in roof of 12 Maple Left of Sta. 322+12 Elev 291.89
 B.M. No. 29 " " " " " " Sta. 324+96 Elev 298.89

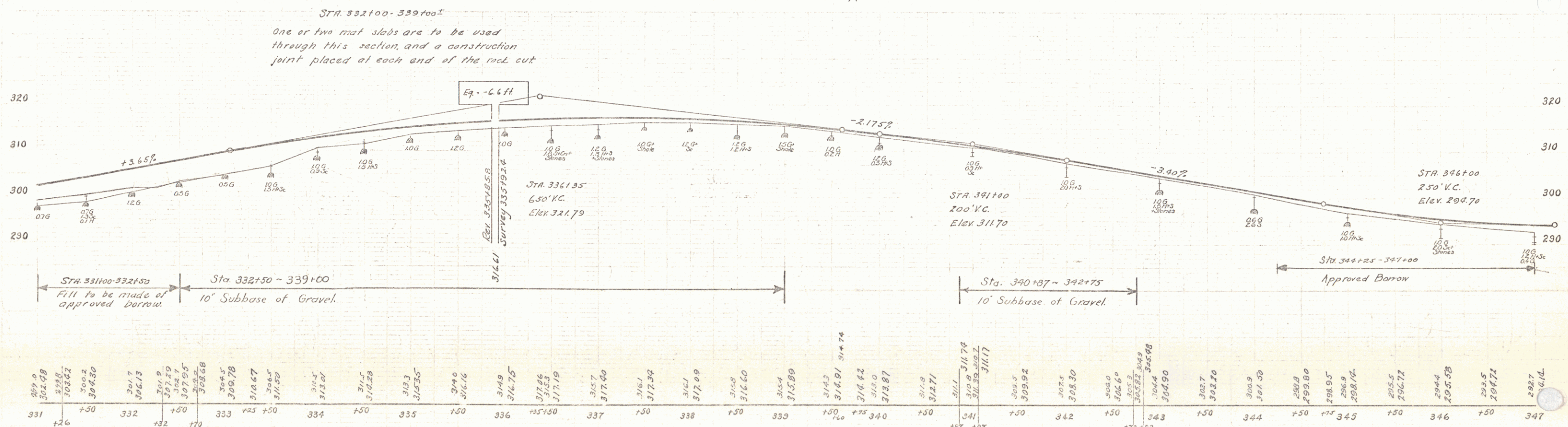
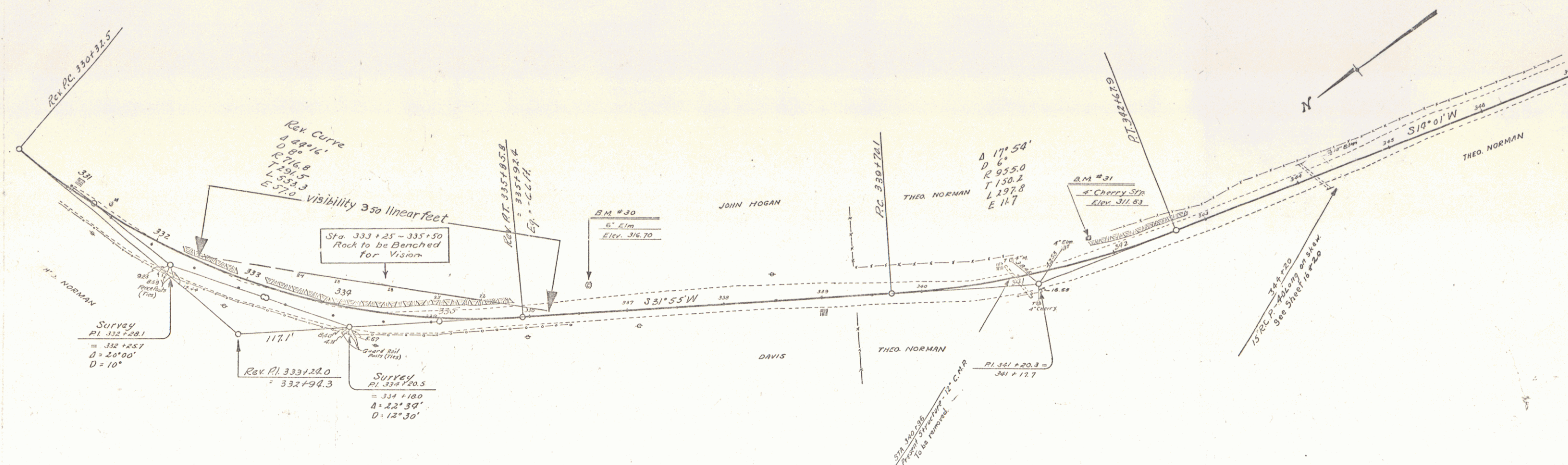
SERIES F No 78-E
 SHEET 1

WOOD GUARD RAIL REQUIRED
CULV. STA. 334+20
LH. 28' RH. 28'

CABLE GUARD RAIL REQUIRED
STATIONS 331+00-336+96
LH. 596' RH. 596'

REINFC CONC. PIPE CULV. REQUIRED
STA. 334+120-335+40
LH. 120' RH. 40'
30" x 33"

78-E 1930 S



B.M. #30 Spike in root 6" Elm 26.5 ft. H. Sta. 335+62. Elev. 316.70
B.M. #31 4" Cherry Shump 19.0 ft. H. Sta. 341+77. Elev. 311.53

SERIES F No. 78-E
SHEET 3 OF 5

WOOD GUARD RAIL REQUIRED

Station	LT	RT
359+10	24'	24'
359+25	24'	24'

CABLE GUARD RAIL REQUIRED

Station	LT	RT
351+00-351+48	18'	-
357+60-358+10	-	80'

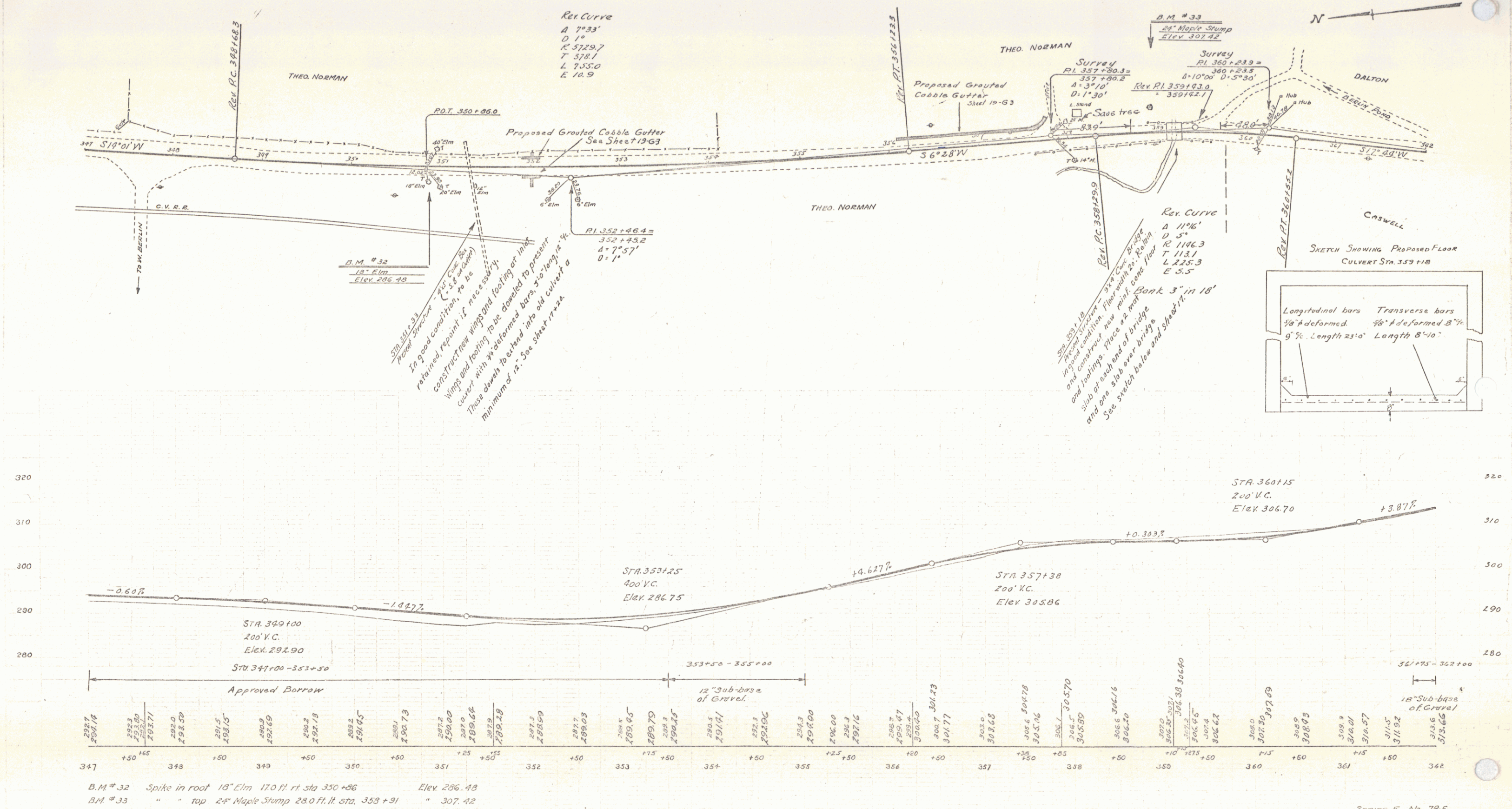
CULVERT REPAIRS REQUIRED

Station	Length	Comp	Steel
351+33	31 cy.	200"	
359+10	50'	611"	

GROUTED COBBLE GUTTER REQUIRED

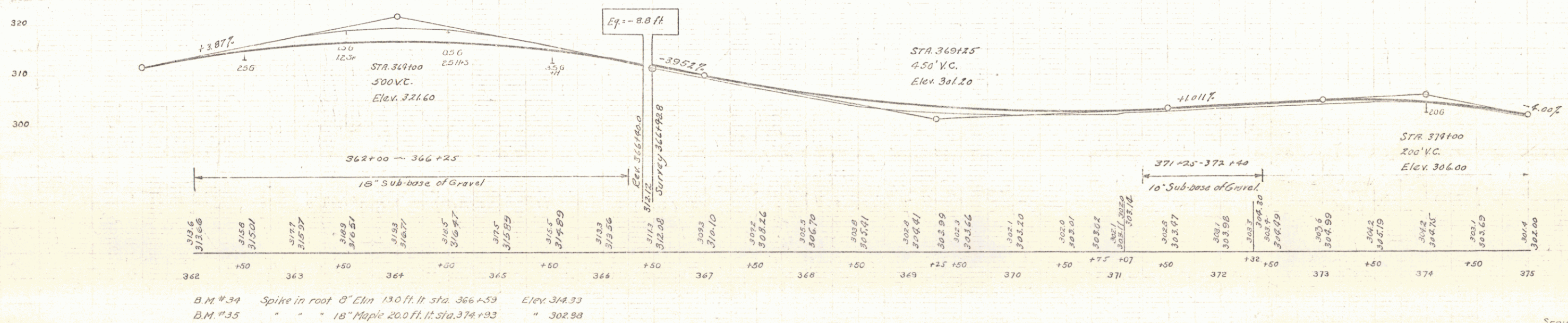
Station	Width	Area
352+00 L.F. RT	3'-0"	18 sq. yds.
356+10-357+00 L.F.	3'-0"	58 sq. yds.

Dist. No.	State	F. U. No.	Year	No. Sheets
70-E	1930	6		



GRADED COBALT GUTTER REQUIRED

<u>Station</u>	<u>Width</u>	<u>Area</u>
370+50 L.F. RET.	3'-0"	2080. yds.



SERIES F No. 78-E
SHEET 7 OF

CABLE GUARD RAIL REQUIRED

Stations	LT	RT
376+10-376+90	80'	80'
382+70-382+74	40'	—
382+70-391+02	—	832

STD. UNDERDRAIN WITH 6" PERF. CORR. GALV. NET PIPE

Sta.	Length	Cem. Rub. Nos.
378+00-380+94 LT	294'	1.0 c.y.
381+04-382+32 LT	128'	—

6" VIT. CLAY PIPE REQUIRED
 STA. LENGTH CEM. RUB. NOS.
 376+60 10'

REINF. CONC. PIPE CULVERT REQUIRED

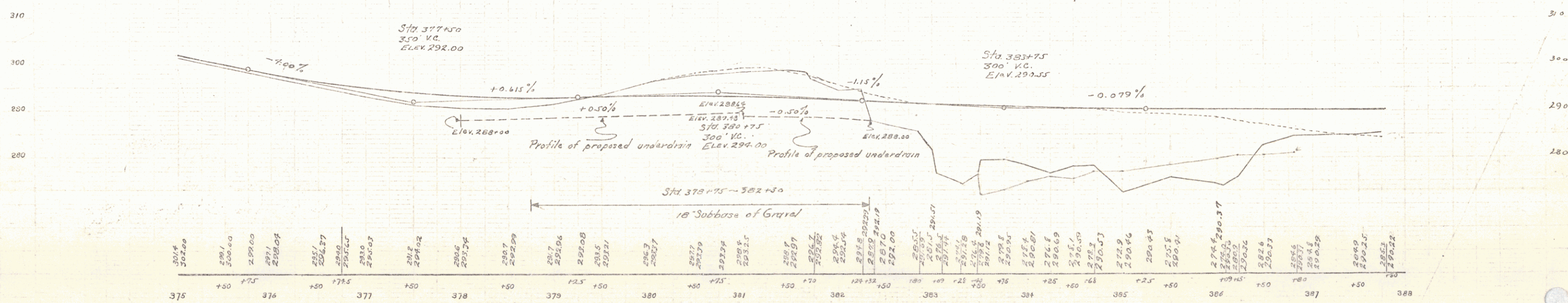
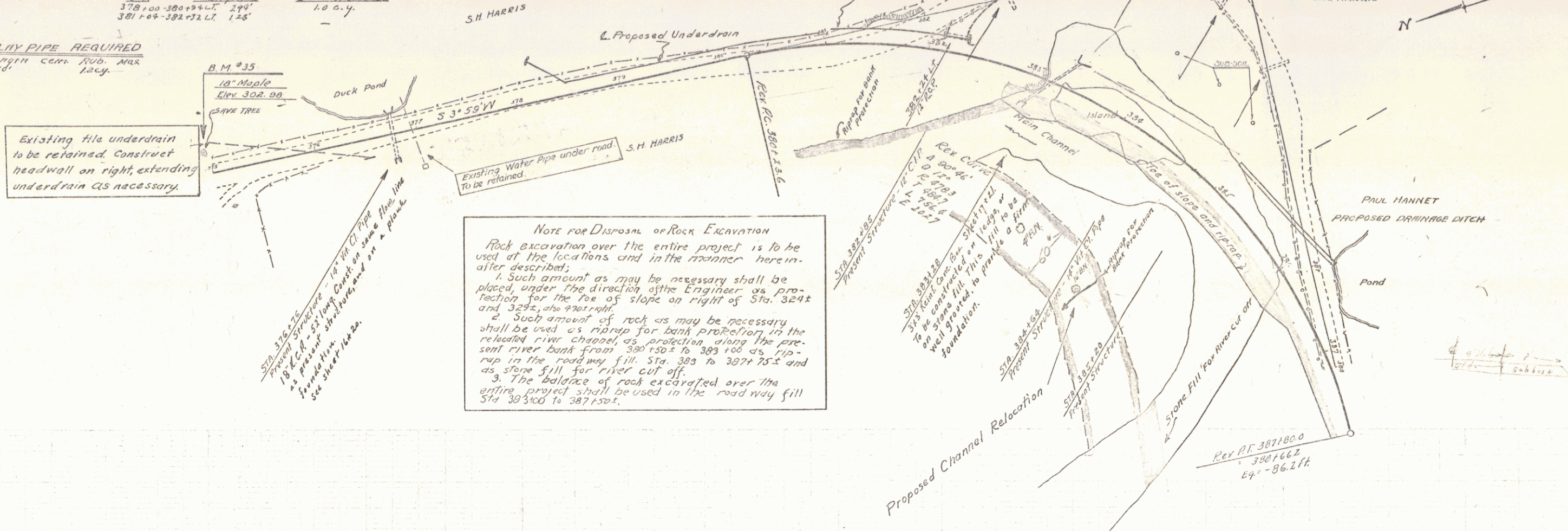
Station	Diam.	Length	Conc. A	Reinf. Steel
376+76	18"	52'	1.8 c.y.	54"

12" REINF. CONC. PIPE REQUIRED

Sta.	Diam.	Length	Cem. Rub. Nos.
382+24 LT	12"	24'	2.30 c.y.

REINF. CONC. BOX CULVERTS REQUIRED

Sta.	Size	Conc. A	Steel
383+28	3'x3'	2.83 c.y.	1859"



B.M. #35 Spike in root 18" Maple 20.0 ft. Sta. 374+93
 B.M. #36 Destroyed

CABLE GUARD RAIL REQUIRED

<u>Stations</u>	<u>Lt.</u>	<u>Rt.</u>
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393+16 - 397+00	-	384'
399+00 - 401+00	-	200'

REINF. CONC PIPE CULVERTS REQUIRED					
STATIONS	DIAM.	LENGTH	CONC.A	CONC.C	ST.
389+00	15"	36'	1.9 c.f.	1.5 c.f.	9.
397+00	15"	40'	1.4	1.5	11
399+56	18"	32'	1.5	-	15.

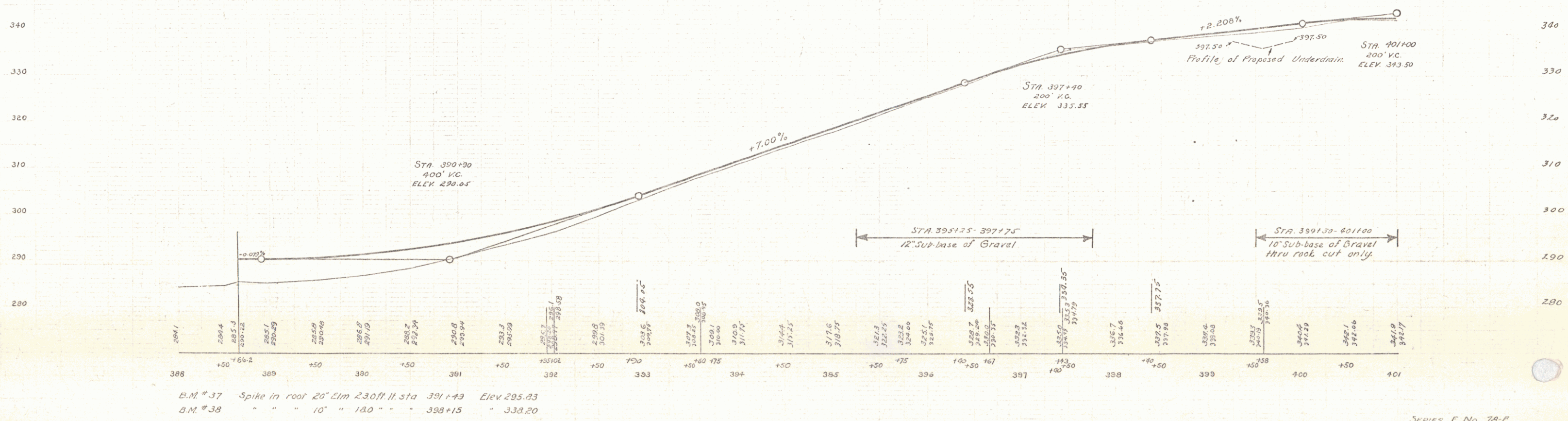
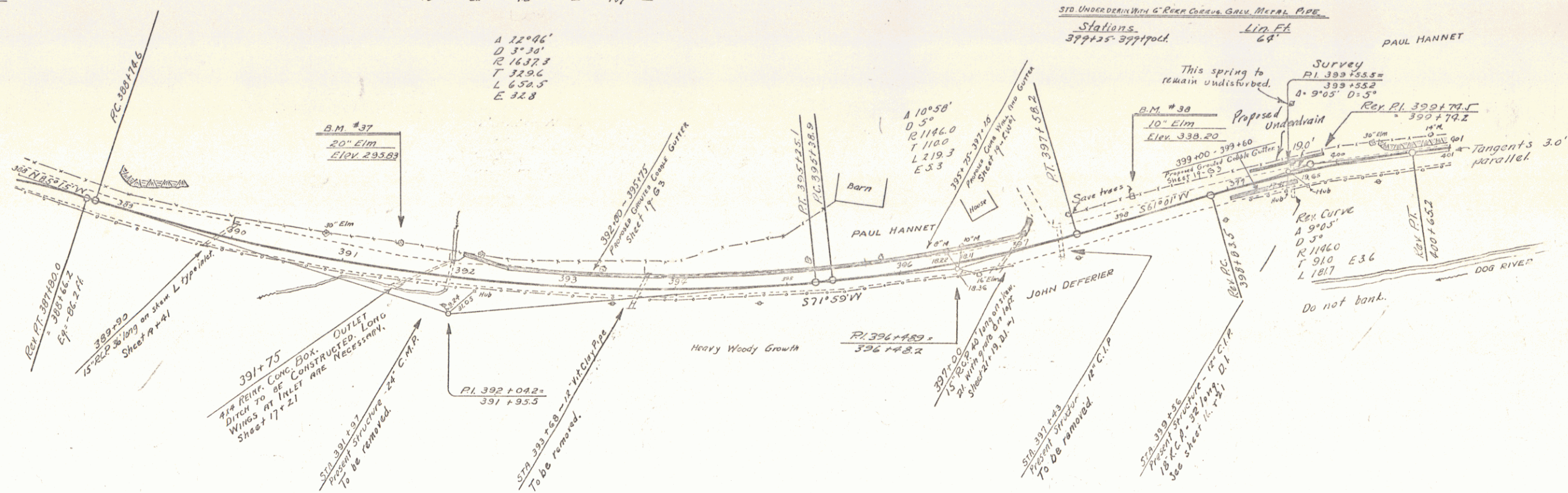
REINF. CONG. BOX CULVERTS REQUIRED

<u>gr. station</u>	<u>size</u>	<u>cong. A.</u>	<u>steel</u>
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<u>GROUTED COBBLE GUTTER</u>		
<u>Stations</u>	<u>Width</u>	<u>Area</u>
392 + 00 - 395 + 75	3 ft.	134 sq. yds.
395 + 75 - 398 + 10	3 ft.	112 sq. yds.

<u>CURB WALL AND GUTTER</u>		
<u>Station</u>	<u>Conc. A</u>	<u>Reinf. Steel</u>
395 +75-397+10	27.2CY	924 LBS.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
2	VT.	78-E	1930	9	



SERIES F No. 78-E
SHEET 9 OF

WOOD GUARD RAIL REQUIRED

Culk Sta.	LI	RL
408+25	28'	29'
418+50	28'	29'
411+00	29'	30'

WOOD GUARD POSTS REQUIRED

Culk Sta.	LI	RL
418+50	1	-

CABLE GUARD RAIL REQUIRED

Station	LI	RL
401+00 - 405+25	-	328'
405+25 - 411+44	-	330'

REIN. CONC. PIPE CULVERTS REQUIRED

Station	Diam.	Length	Conc. A	Steel	DIGRETS
404+38	15"	29'	1.5 cy	157"	1
408+25	15"	48'	-	3.0 cy	33
418+40	15"	40'	1.4 cy	1.5 cy	116

CULVERT REPAIRS REQUIRED

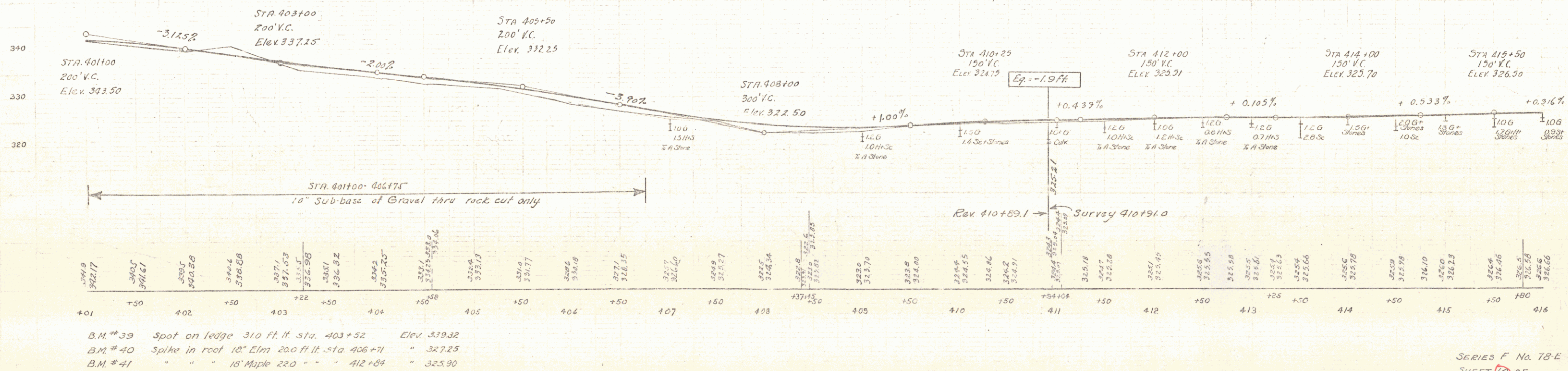
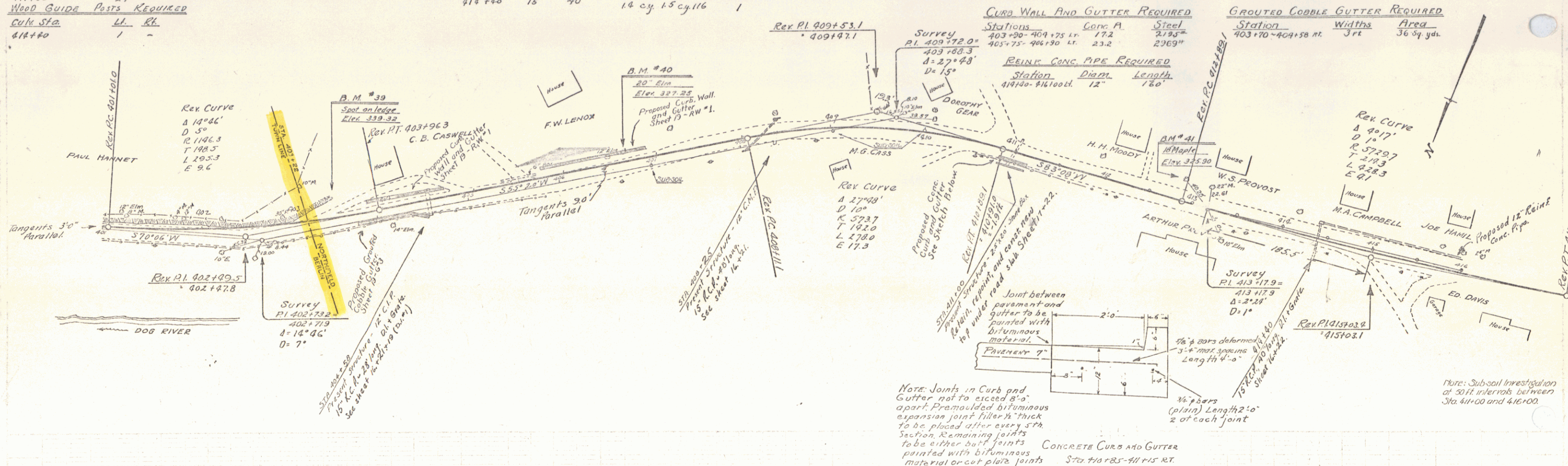
Station	Conc. A	Steel
411+00	3.0 cy	385"

CURB AND GUTTER REQUIRED

Station	Conc. A	Steel
410+85 - 411+15	3.0 cy	56"

10' WIDE STATE HIGHWAY 10' WIDE DRIVE

Station	Width	Area
403+70 - 404+58	3 ft	36 sq. yds.



WOOD GUARD RAIL REQUIRED
STATION LEFT RIGHT
423+75 24'

CABLE GUARD RAIL REQUIRED
STATION LT. RT.
423+04-424+00 06'

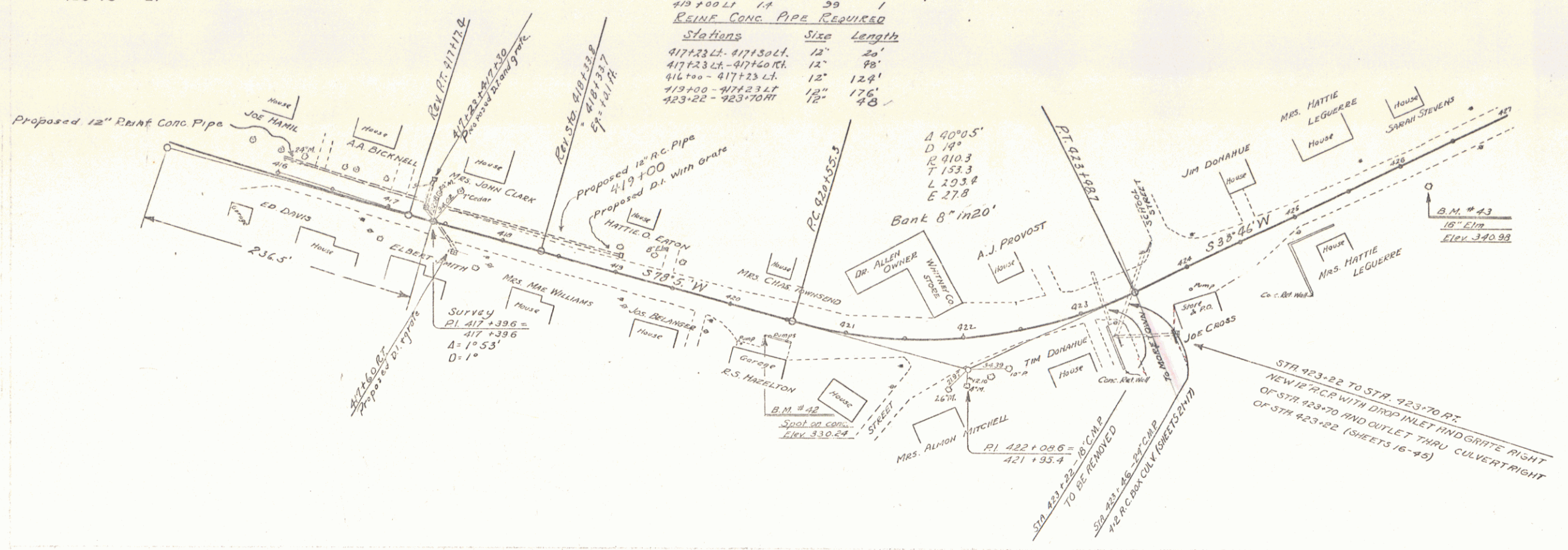
DROP INLETS REQUIRED

Sta.	Conc. ft.	Size	Grade
417+23.07	1.8	30"	1
417+50.41	1.4	30"	1
417+60.41	1.4	30"	1
419+00.41	1.4	30"	1

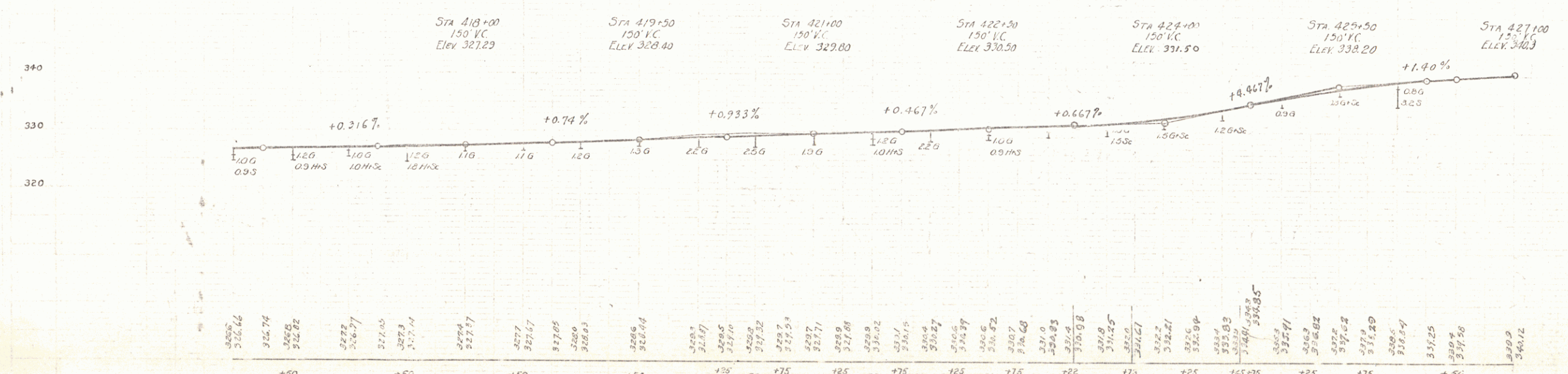
REINFC CONC. PIPE REQUIRED

Stations	Size	Length
417+23.07 - 417+50.41	12"	27'
417+50.41 - 417+60.41	12"	10'
417+60.41 - 417+73.41	12"	13'
419+00.41 - 419+23.41	12"	23'

NEW REINFC CONCRETE BOX CULVERT REQUIRED
STATION SIZE CONC. REINFC STEEL
423+46 4x2 31cy 2100*



Note: Subsoil investigation of 50 ft intervals between Sta 416+00 and 426+00.



B.M. #42 Gas pump foundation Northfield Falls Filling Sta 170 ft rt sta 420+36 Elev 330.24
B.M. #43 Spike in road 16" Elm 25.0 ft rt sta 426+13 Elev 340.98

REVISIONS AUG 29, 1930

NO.	DESCRIPTION
1	STA 423+22 PRESENT CULV. IS C.M.P. TO BE REMOVED INSTEAD OF RETAINED
2	STA 423+46 PRESENT CULV. IS C.M.P. NEW 12\"/>

WOOD GUIDE PITS REQUIRED

Station	Left	Right
430186	1	-
430163	-	1

WOOD GUARD RAIL REQUIRED

Station	Left	Right
430190	24'	24'
430163	-	24'

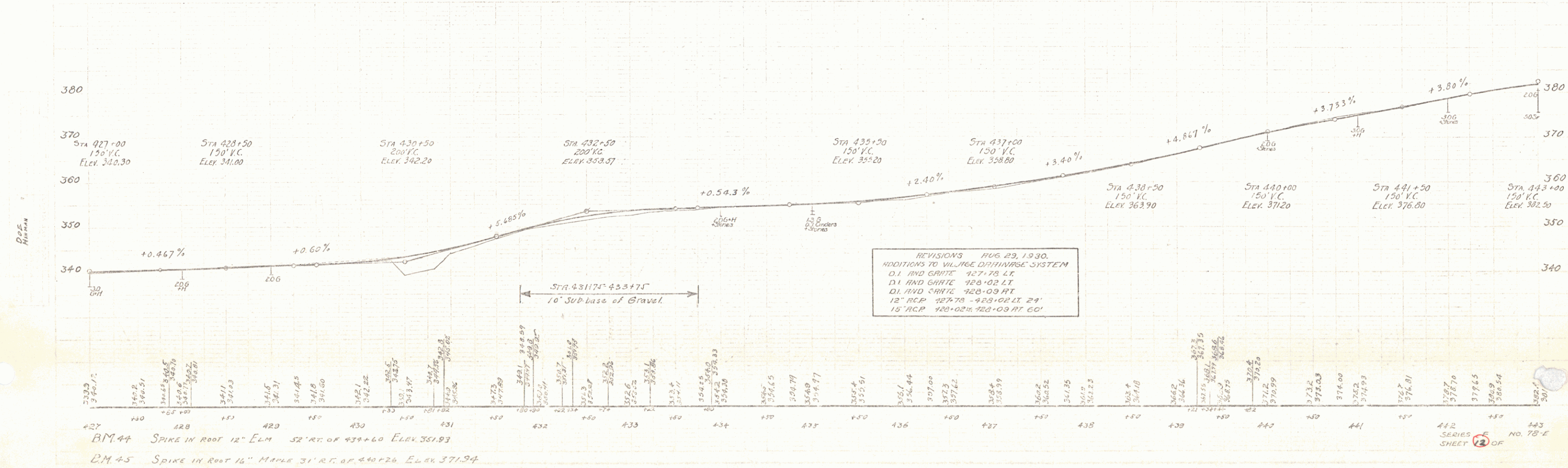
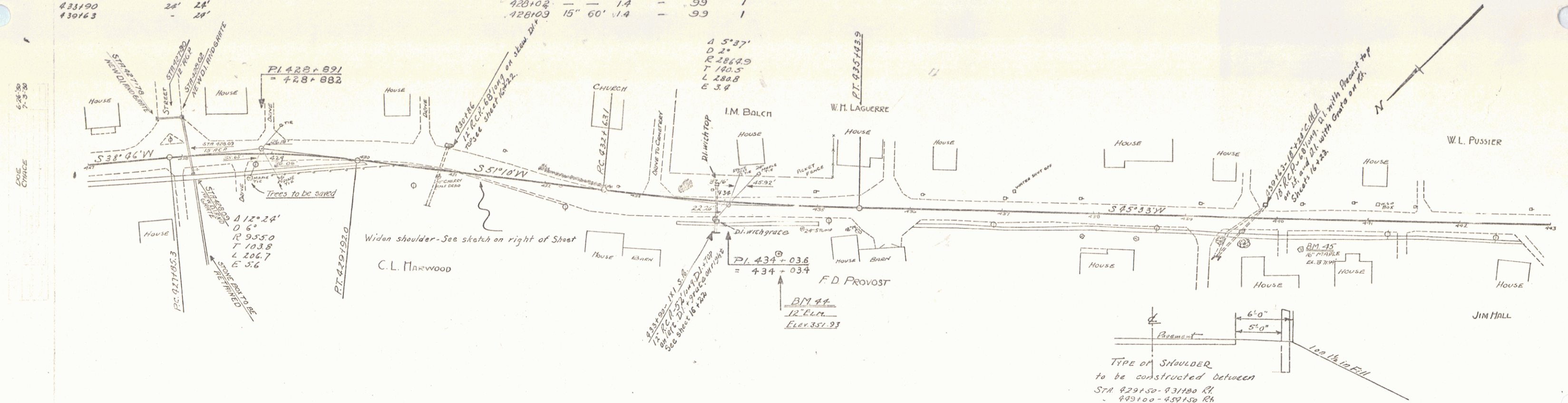
CABLE GUARD RAIL REQUIRED

Station	Left	Right
429180-432116	-	120'

REINFORCED CONCRETE PIPE CULVERTS REQUIRED

Station	Dim	Long	Spaced	Comp	Steel	D.G. mts
430186	12" 68"	152.4	152.4	178	-	-
430190	12" 52"	2.9	1.5	273	-	-
430163	12" 68"	27	-	283	-	-
427178	12" 24"	1.4	-	99	-	-
428102	-	1.4	-	99	-	-
428103	15" 60"	1.4	-	99	-	-

STATE OF NEW YORK
 COUNTY OF ALBANY
 DISTRICT OF ALBANY
 SHEET NO. 78-E 1930 12



WOOD GUARD RAIL REQUIRED

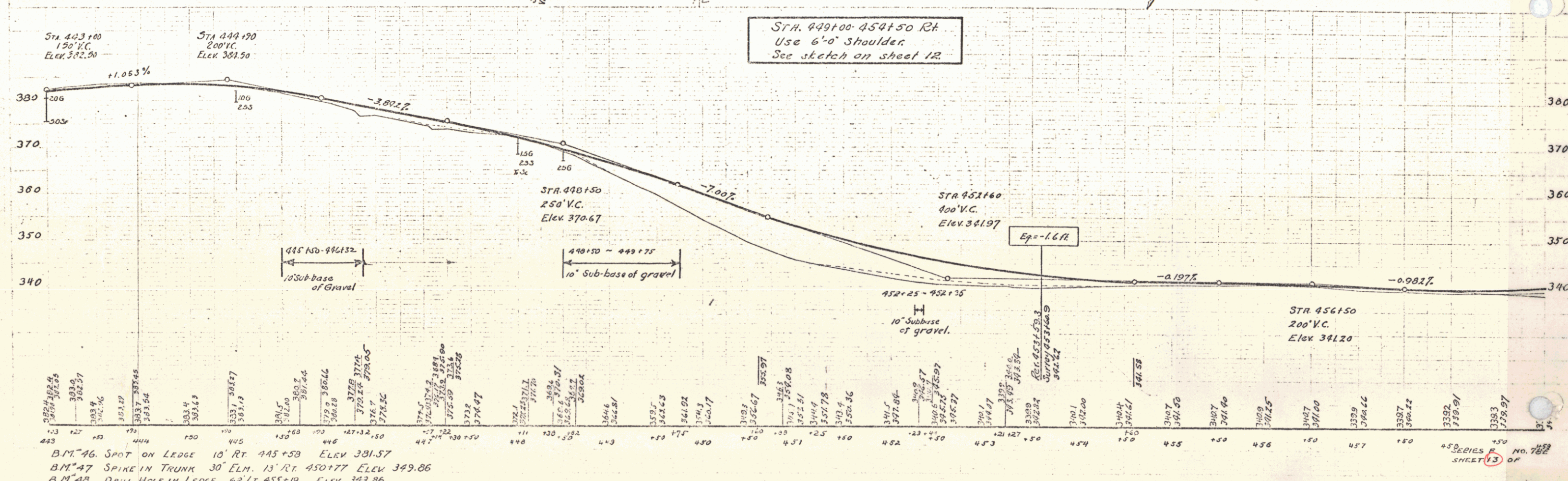
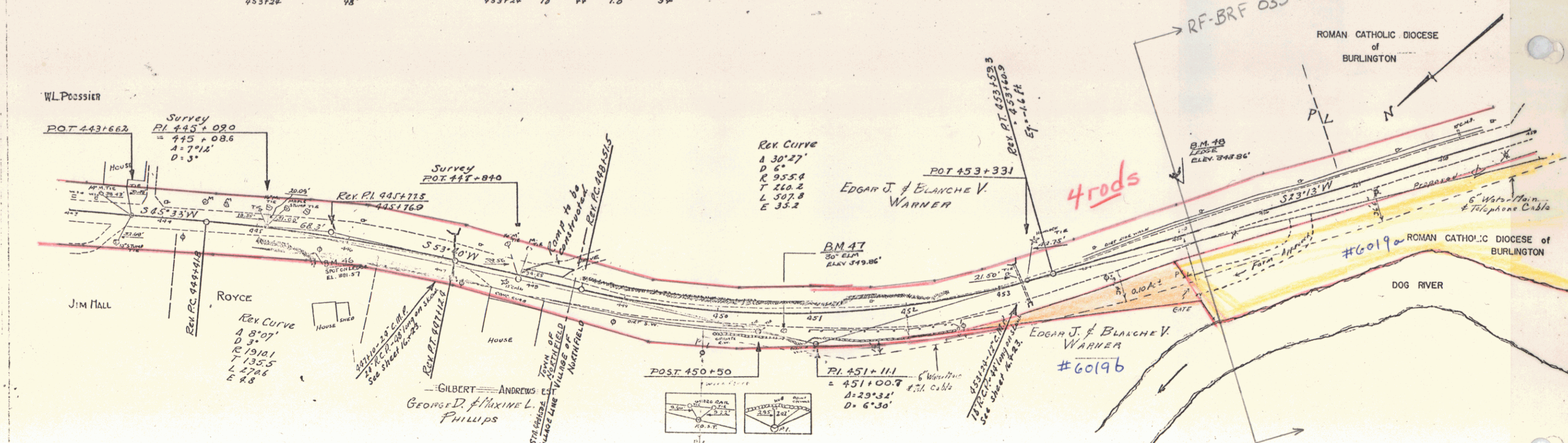
CUV Sta	LL	RL
447+10	20'	20'

CABLE GUARD RAIL REQUIRED

Stations	LL	RL
447+10 - 451+84	-	58'
451+24	98'	

RAINFALL PIPE CHIMNEYS REQUIRED

Station	Dist	Long	Comp	Steel
447+10	24'	18'	24cy	54"
451+24	18'	18'	1.8	54"



BM 46 SPOT ON LEDGE 10' RT 445+58 ELEV 381.57
 BM 47 SPIKE IN TRUNK 30' ELM. 13' RT 450+77 ELEV 349.86
 BM 48 DRILL HOLE IN LEDGE 62' LT 455+19 ELEV 343.86

Station	Elevation
443	382.50
444	381.50
445	380.50
446	379.50
447	378.50
448	377.50
449	376.50
450	375.50
451	374.50
452	373.50
453	372.50
454	371.50
455	370.50
456	369.50
457	368.50
458	367.50
459	366.50
460	365.50
461	364.50
462	363.50
463	362.50
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472	353.50
473	352.50
474	351.50
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499	326.50
500	325.50

