

**PLANS**

**NOT**

**TO**

**SCALE**

**INDEX OF SHEETS**

- TITLE PAGE . . . . . SHEET No. 1
- TYPICAL CROSS-SECTION OF IMPROVEMENT . . . SHEET No. 2
- PLAN AND PROFILE . . . SHEET No. 3-14
- CROSS-SECTIONS . . . SHEET No. 15-45
- SUMMARY SHEET . . . SHEET No. 2

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
11	MONT.	108 B		1	45

Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58

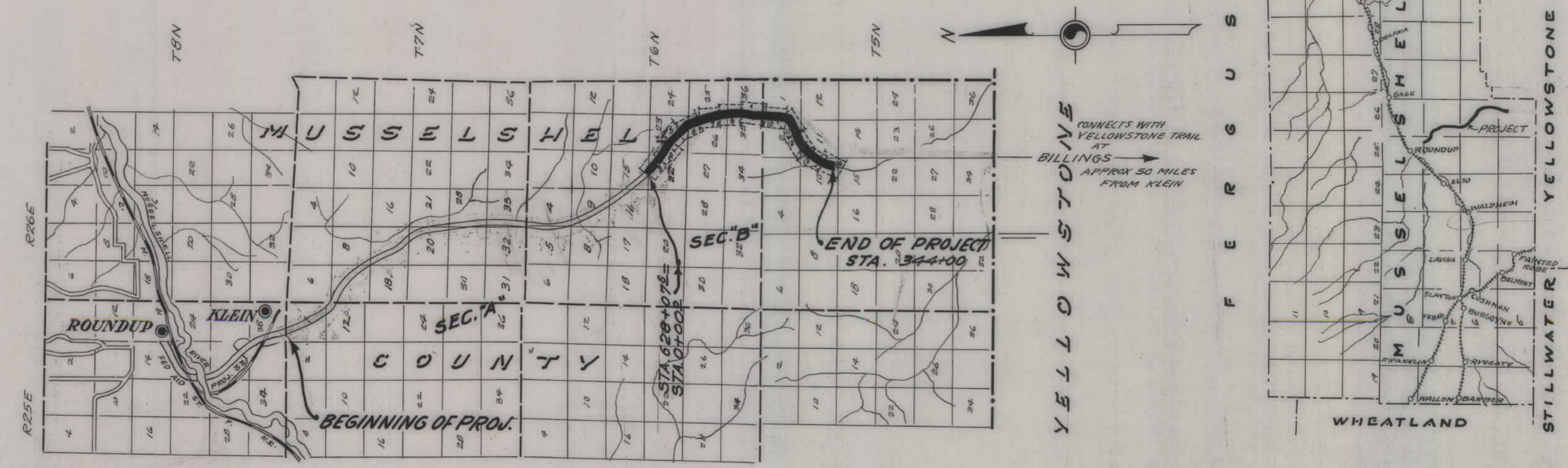
**STATE OF MONTANA**  
**STATE HIGHWAY COMMISSION**

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**PLAN AND PROFILE OF PROPOSED  
 FEDERAL AID PROJECT NO.108.B.  
 KLEIN-BILLINGS ROAD  
 MUSSELSHELL CO.**

LENGTH IN MILES 6.527

SCALES { PLAN & PROFILE HOR 1 IN = 100 FT  
 PROFILE VERT 1 IN = 10 FT  
 X SECTIONS HOR & VERT 1 IN = 5 FT



LAYOUT  
 SCALE  
 1 INCH = 2 MILES

**CONVENTIONAL SIGNS**

State and National Line	Levee	
County Line	Culverts	
City, Village or Borough Line	Drop Inlet	
Township Line	Trolley Pole	
Section Line	Power Pole	
Reservation Line	Telephone or Telegraph Pole	
Fence Line	Marsh	
Guard Rail	Ditch	
Unfenced Property	Rip Rap	
Right of Way Line	Leaching Basin	
"    "    "    Fenced	Bridge	
Traveled Way	Proposed New Culvert (Profile)	
Railroads		
Retaining Walls		
Base or Survey Line		

**KLEIN-BILLINGS ROAD  
 Musselshell County**

<p>APPROVED</p> <p style="text-align: center;">STATE HIGHWAY COMMISSION OF MONTANA</p> <p>_____          CHIEF ENGINEER</p> <p>APPROVED</p> <p style="text-align: center;">PRESIDENT OF EXECUTIVE COMMITTEE</p>	<p>RECOMMENDED FOR APPROVAL</p> <p>_____          DISTRICT ENGINEER, DISTRICT NO. 1          BUREAU OF PUBLIC ROADS</p> <p>RECOMMENDED FOR APPROVAL</p> <p>_____          CHIEF ENGINEER          BUREAU OF PUBLIC ROADS</p> <p>APPROVED</p> <p>_____          DIRECTOR          BUREAU OF PUBLIC ROADS</p>
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# SUMMARY & TYPICAL SECTIONS.

## KLEIN - BILLINGS - SEC. B - F.A. PROJ. 108

### = MUSSELSHELL CO. =

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
11	MOH.	1088		2	45

LENGTH IN MILES 6.527 6536 mi.

. EARTHWORK .										
STATIONS.		EMBANKMENT			EXCAVATION					NOTES.
From	To	Emb.	Emb. + 10% Increase	Excess	Common	Inter.	Rock	Rock + 35% Increase	Borrow	
0+00	4+00	1009	1111		2	377			800	
4+00	17+30	3407	3748		1478	19	871		1260	150
17+30	29+25	1736	1909		1109		380		480	
29+25	38+90	2691	2960		1717	643	413		190	
38+90	49+68	1475	1622		548	244	511		317	135
49+68	64+00	2560	2817		2940					113
64+00	78+00	1199	1319		1231	71	68		465	
78+00	96+60	2613	2876		2178	158	472		48	5975
96+60	110+35	1260	1384		1390	15				653
110+35	122+35	1552	1706		663	330	380		333	277
122+35	134+30	1163	1278		1311	113	47			2027
134+30	143+56	1810	1995		1011	41	928		15	525
143+56	159+50	2048	2251		1680				571	1248
159+50	168+00	806	888		781	124				
168+00	181+00	1224	1344		1075				200	
181+00	188+20	957	1054		409				600	
188+20	200+35	1103	1214		856		87		280	
200+35	211+30	1307	1439		1713					98
211+30	218+85	2469	2716		995				1361	
218+85	234+75	1886	2075		1152				1000	240
234+75	249+50	1486	1634		1901					20
249+50	254+00	612	673		5	783				
254+00	267+00	831	915		678					3100
267+00	284+00	1431	1574		774	425				2048
284+00	299+00	1859	2043		1696				640	708
299+00	312+00	585	643		750					
312+00	320+80	859	945		673		424			245
320+80	329+25	1597	1757		675		502			2880
329+25	343+90	2629	2892		1248		224			
TOTALS		46164	50782		32637	3343	3267		1436	21927

Note: Channel changes 698 Cu.Yds.

BRIDGES						
Sta.	Span	Rdway	Height	Wing	Bd. ft.	Piling
136+80	20'	18'	20'	15'	8518	536 LF
158+80	16'	18'	6'		4146	198 "
214+80	12'	18'	10'	7 1/2	2857	246 "
256+80	12'	18'	6'		2427	198 "
329+65	4'-3/4	18'	10'		11694	470 "
TOTALS					29644	1648

#### Notes:

**Borrow:**  
Borrow as indicated on plans denotes the location where shortage of material occurs. Borrow Pits or sources of borrow will be designated by Engineer.

**Overhaul:**  
Borrow will be classified as common.  
Free haul allowance 400 feet.

**Shrinkage:**  
10% shrinkage is used for earth placed in embankment.

**Embankment:**  
As shown on plans includes shrinkage.

**Excess:**  
Will be used to widen fills.

GUARD RAILING				
STATION		LIN. FT.		M.F.B.M.
FROM	TO	RIGHT	LEFT	
88+00	89+20	120		
88+10	88+80		70	
136+10	136+70	60		
136+90	137+06	16		
136+90	137+50		60	
213+75	214+74	99	99	
214+86	215+60	74	74	
329+26	329+42	16	16	
329+92	330+20		28	
332+80	334+30		150	
TOTAL		385	497	5.56

CULVERTS										
Station	Conc. Pipe R4		Pipe R-4			Headwalls Cu. Yds. of R-4 Masonry	CONC. BOX-R-7			Notes
Total 18' x 88'	24"	30"	18"	24"	30"	R-4	Size	Length	Cu. Yds. A Concrete	Lbs. Re. Fe. Steel.
6+20				28"		3.32				
12+80				28"		2.02				
17+60				28"		3.32				
33+00				28"		3.32				
38+00				28"		2.02				
71+25				28"		2.02				
88+50				28"		3.32				
102+85				28"		2.02				
119+55				28"		2.02				
146+75				28"		3.32				
174+90				28"		3.32				
186+90				28"		3.32				
194+80				28"		3.32				
200+10				28"		4.60				
209+30				28"		3.32				
218+90				28"		4.60				
233+60				28"		4.60				
248+90				28"		3.32				
283+90				28"		3.32				
291+50				28"		2.02				
300+55				28"		4.60				
318+00				28"		2.02				
340+50				28"		2.02				
TOTALS	140' 56"	146' 0"	232' 27"	178' 23"	146' 11"	71.05				

199+90 28" 18" Cor. Pipe  
318+00 38-1/8" Conc. Pipe  
337+50 32.5" " "  
343+00 27.5" " "  
92+70 30' 18" Cor. Pipe

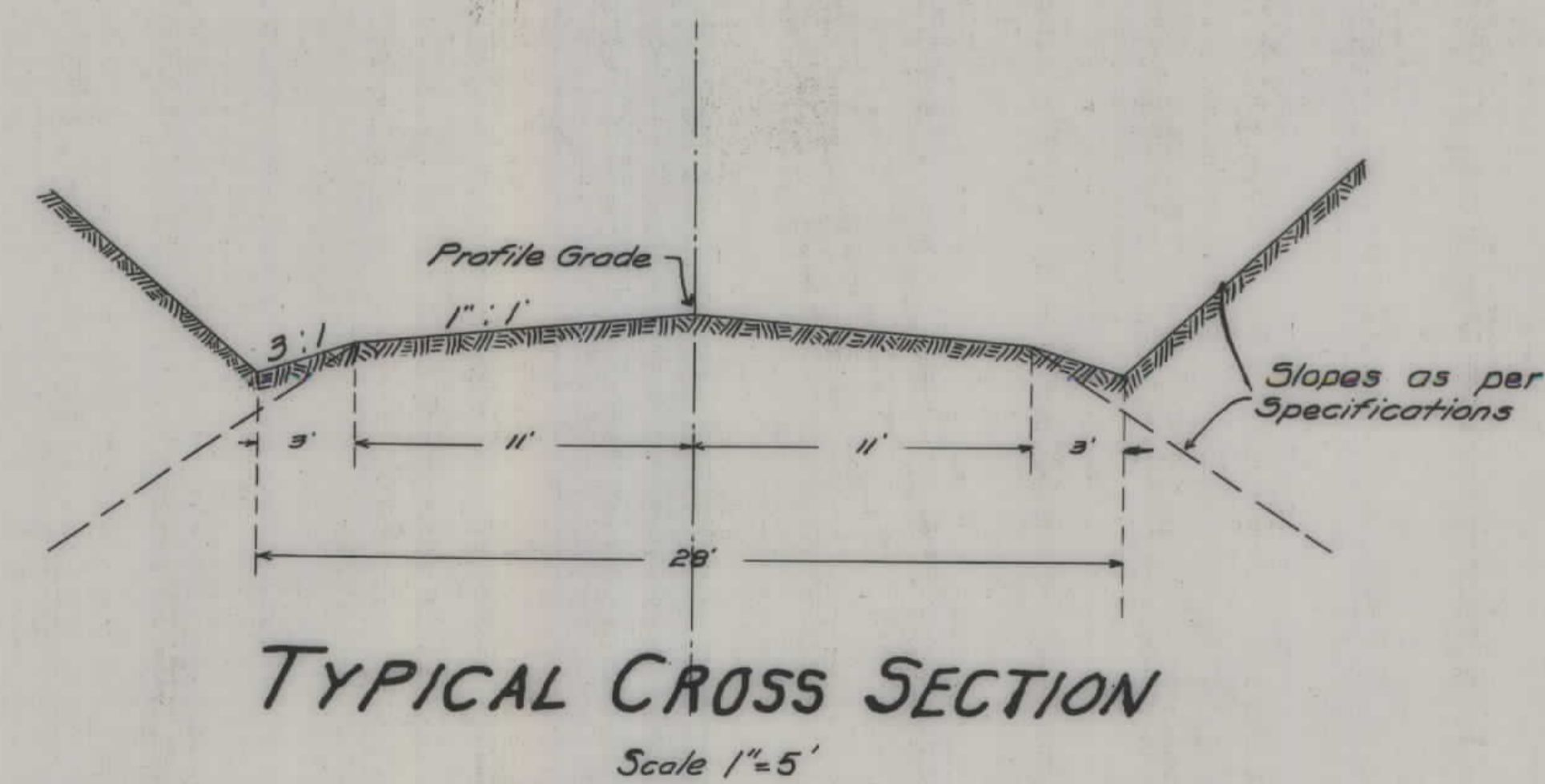
Sta. 96 = 28'-18" Cor. Pipe  
108+30 = 28" " "  
129+25 = 30" " "  
261+45 = 28" " "

Sta. 167 = 28'-24" Cor. Pipe  
242 = 28'-24" " "  
228 = 28'-24" " "

RIPRAP				RUBBLE WALL			
STATIONS		CU. YDS.		STATIONS		CU. YDS.	
From	To	Right	Left	From	To	Right	Left
122+20	123+00	42		136+45	136+70	90	
328+00	329+22	54		137+08	137+28		75
333+00	334+29	60	128	329+32	329+43	15	
339+00	340+50		65	329+92	330+10		26
TOTALS		156	193	TOTALS		105	101

NOTE:-  
Rubble wall to be substituted by rock fill embankment at time of construction.

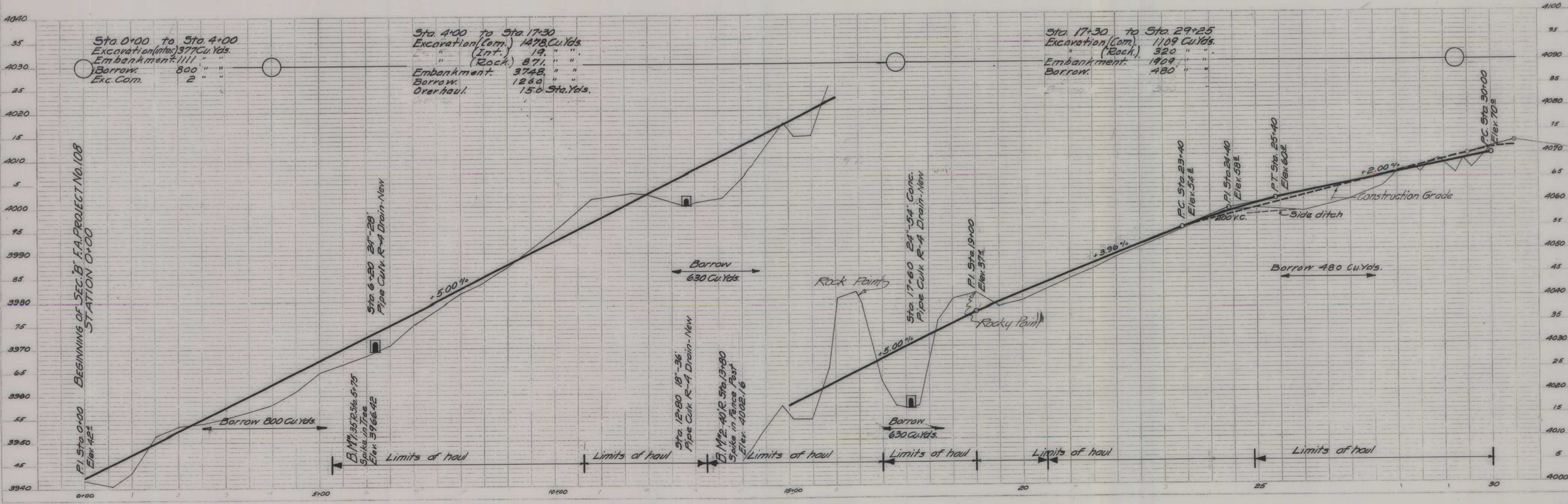
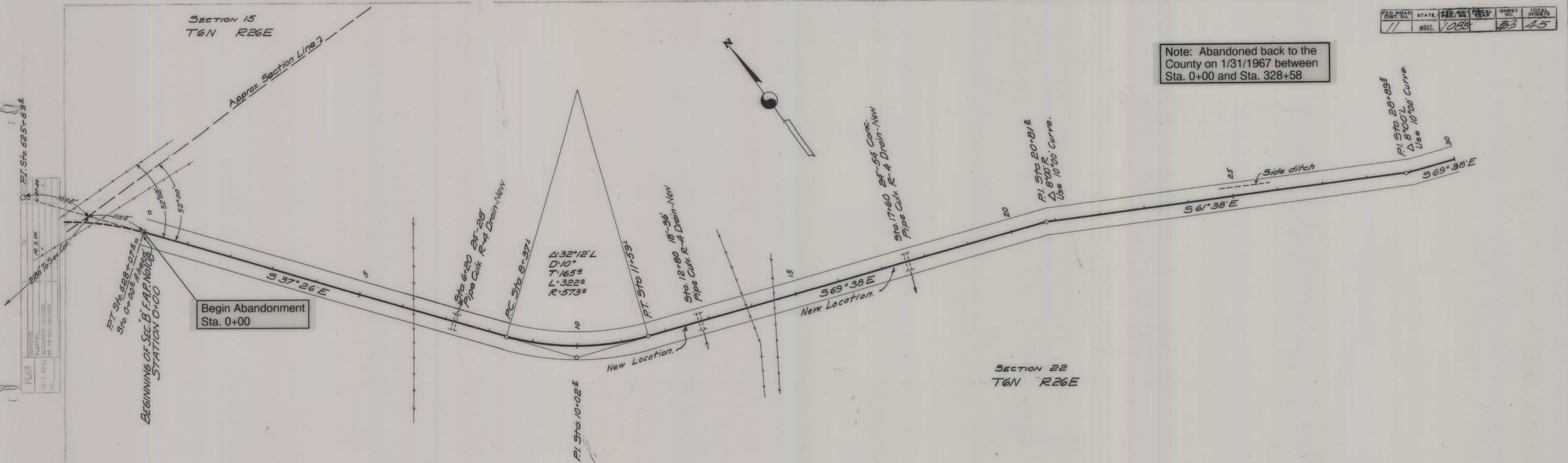
Note: Clearing 4.7 acres



SECTION 15  
T6N R26E

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
11	MO.	1088	33	45

Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58



PLAN

SUBMITTED	DATE
PLOTTED	DATE
SCALE CORRECTED	DATE
NO. OF SHEETS	DATE

PROFILE

SUBMITTED	DATE
PLOTTED	DATE
SCALE CORRECTED	DATE
NO. OF SHEETS	DATE

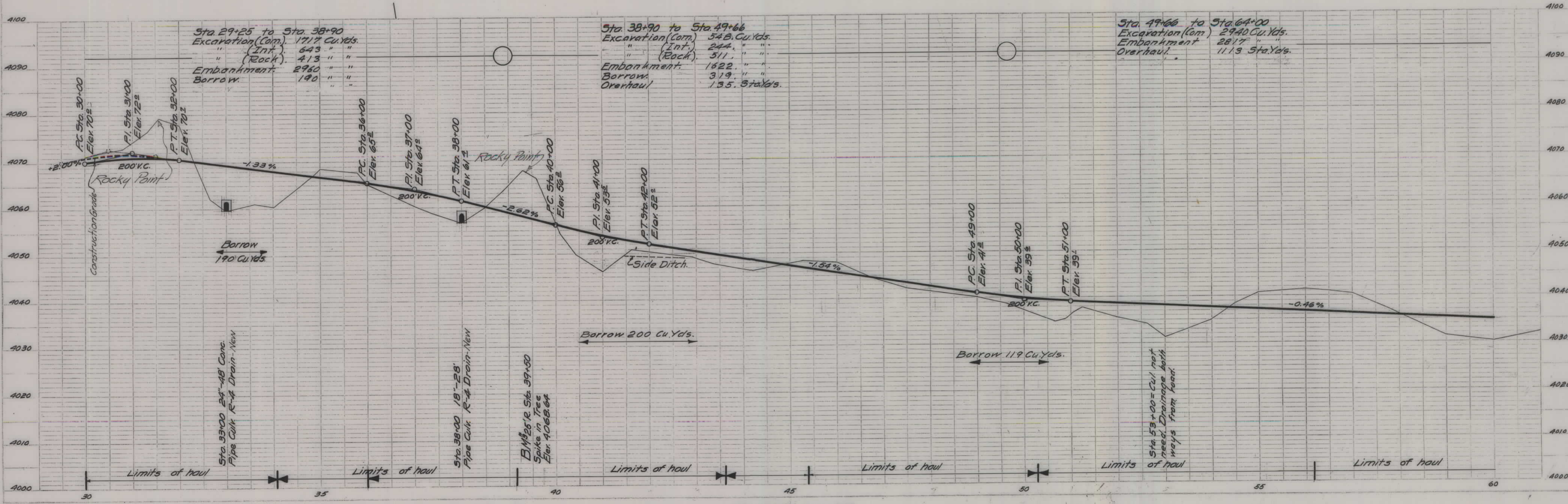
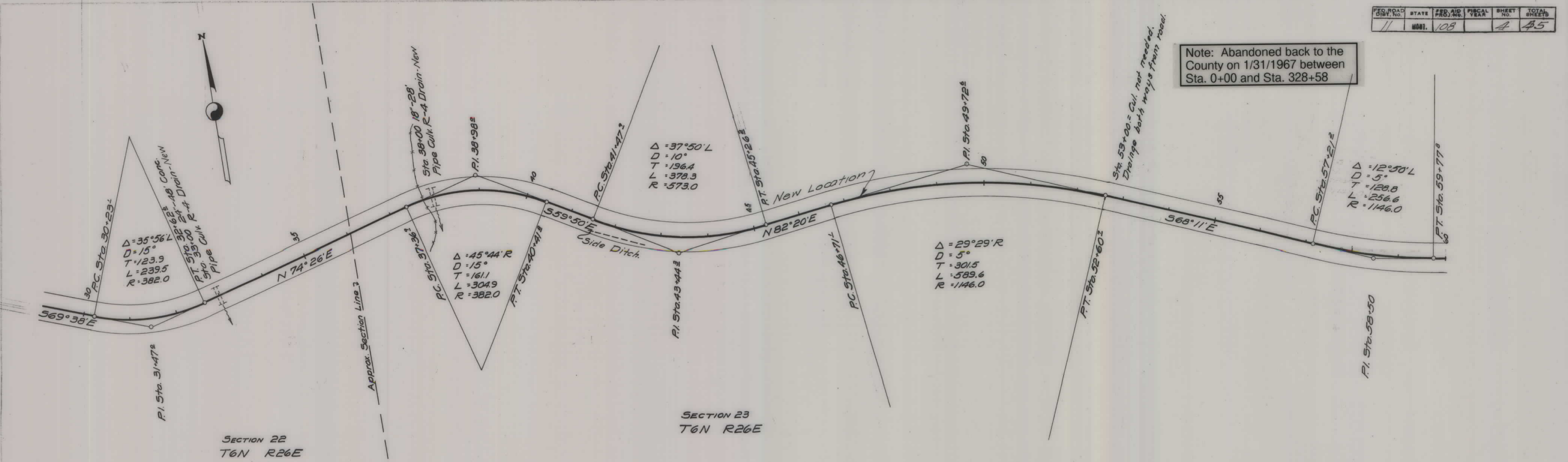
F-108-R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
11	MO.	108		4	45

Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58

DATE	BY	REVISION
6-28-58	M.S.M.	PLANNED
		FLATTED
		NOTED BOOK - ALPHABETIC CHECKED BY M.S.M.
		NO. OF SHEETS CHECKED BY M.S.M.

DATE	BY	REVISION
6-28-58	M.S.M.	PLANNED
6-28-58	M.S.M.	FLATTED
6-28-58	M.S.M.	NOTED BOOK - ALPHABETIC CHECKED BY M.S.M.
6-28-58	M.S.M.	NO. OF SHEETS CHECKED BY M.S.M.

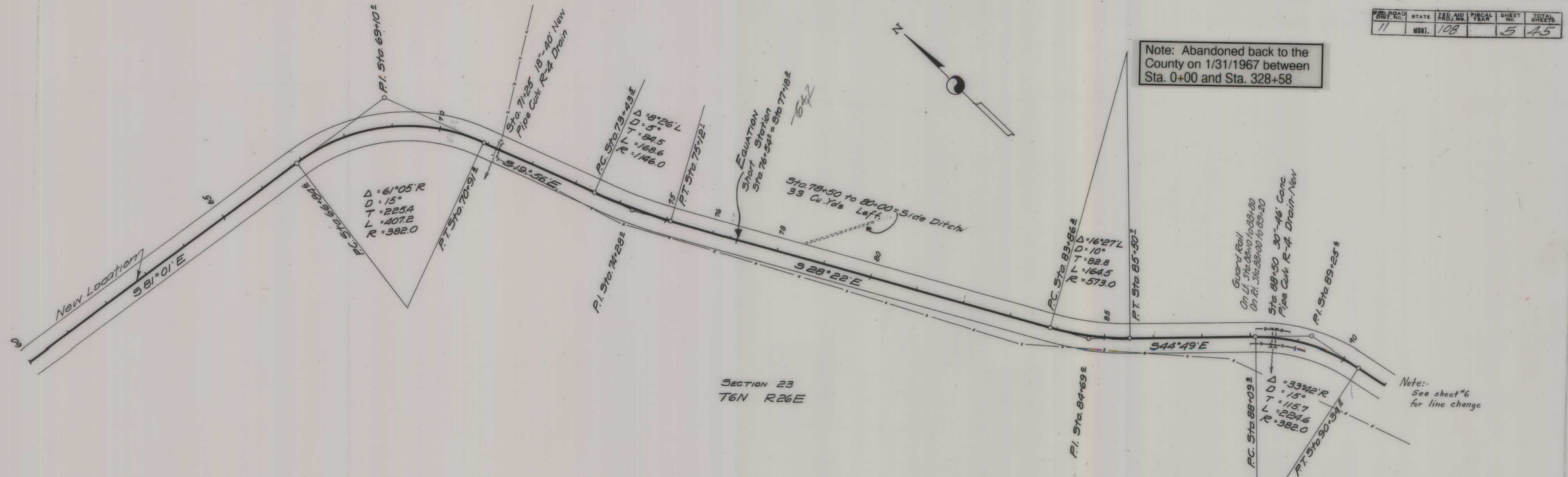


E. M. R. - B

DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
11	MONI.	108		5	45

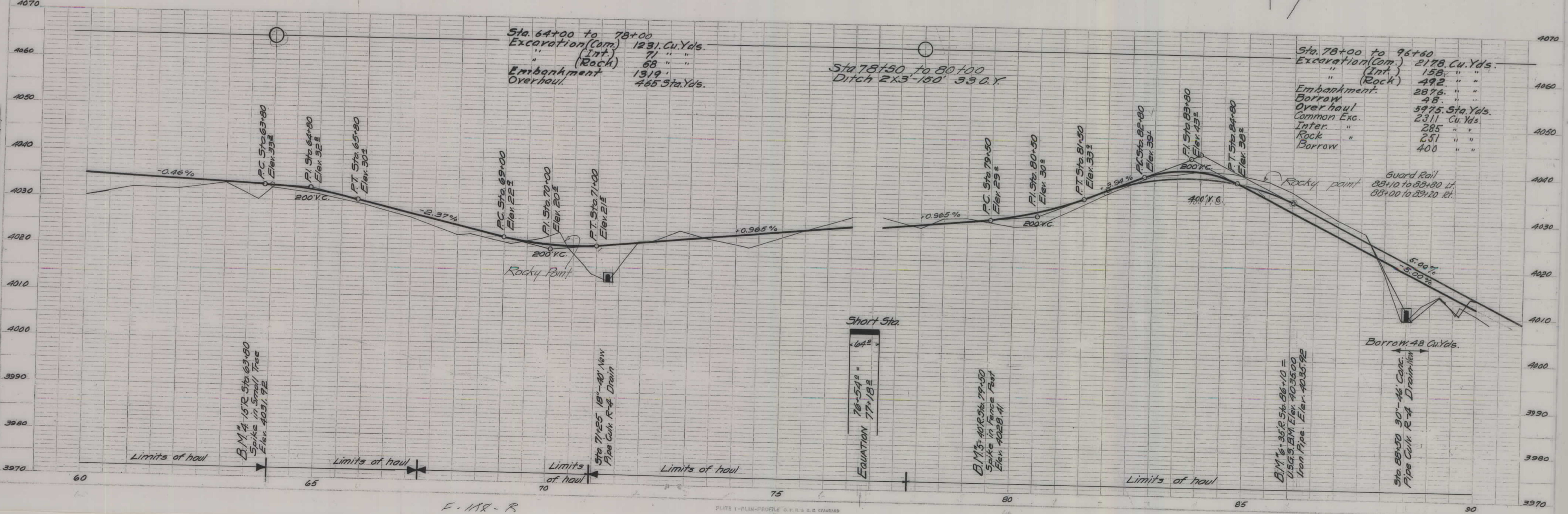
Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58

PLANNED	DATE
SURVEYED	BY
NOTED	BY
ADJUSTED	BY
CHECKED	BY
NO.	BY



SECTION 23  
T6N R26E

Note: See sheet #6 for line change



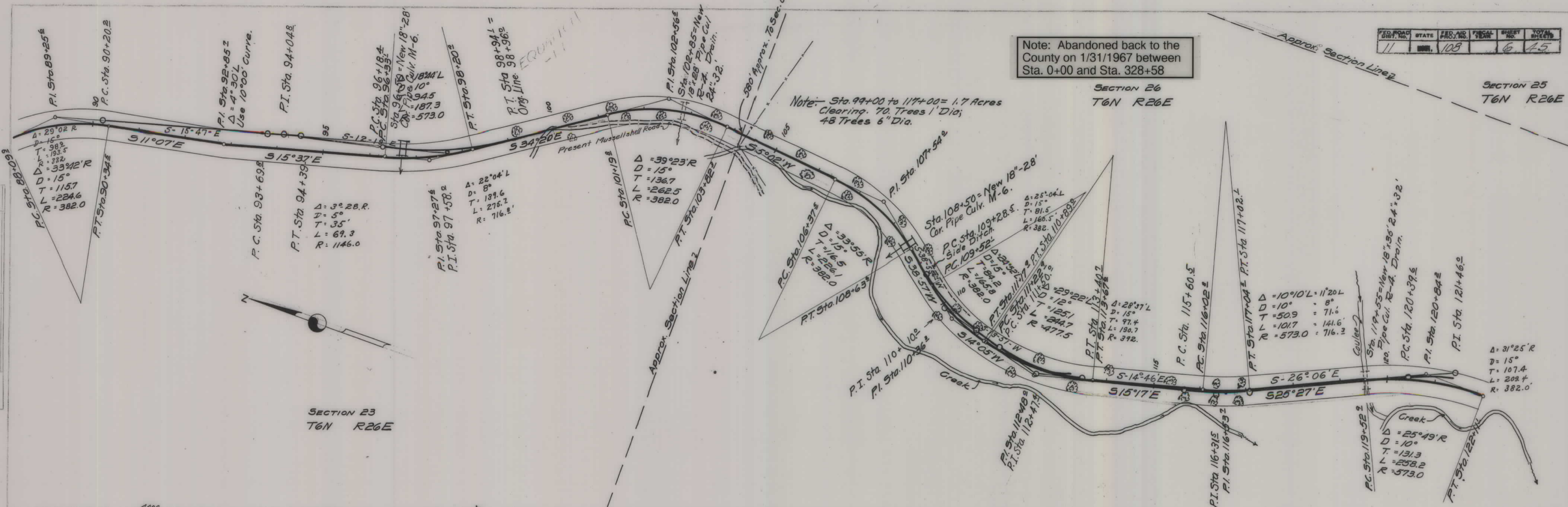
PROFILE	DATE
DESIGNED	BY
PLOTTED	BY
CHECKED	BY
NO.	BY

E. 112-R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
11	OH	103		6	45

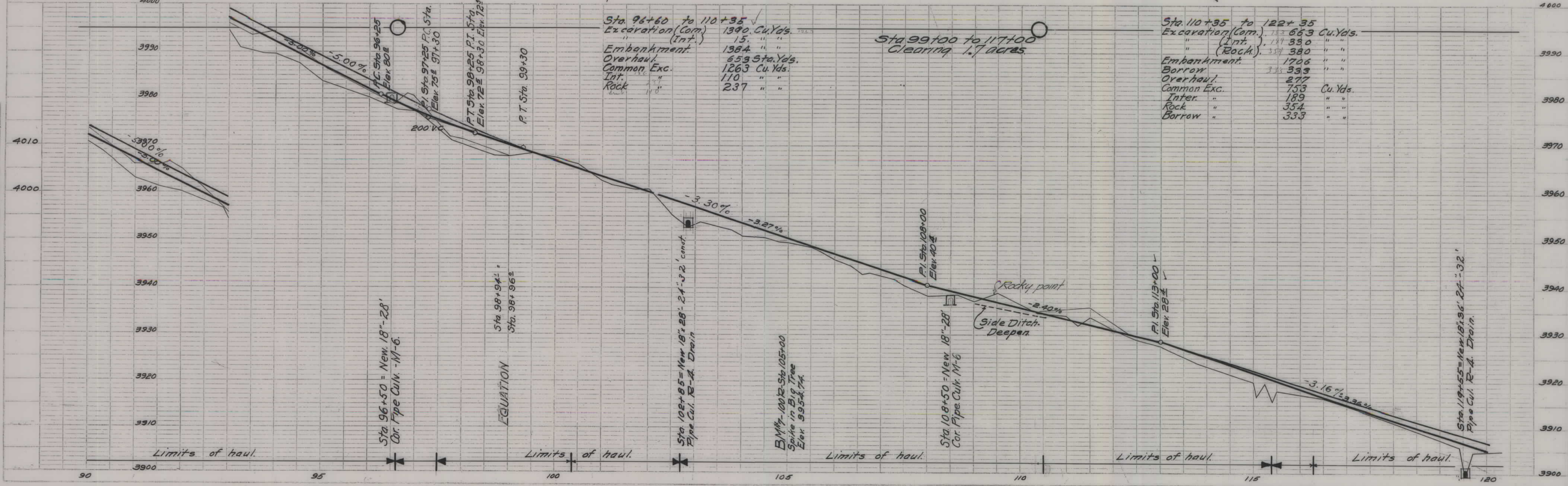
Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58

Note: Sta. 99+00 to 117+00 = 1.7 Acres Clearing. 70 Trees 1" Dia; 48 Trees 6" Dia.



NO.	DATE	BY	REVISION
1	6-22-59	M.S.M.	PLANNED
2			NOTED
3			PLANNED
4			PLANNED

NO.	DATE	BY	REVISION
1	6-22-59	M.S.M.	PLANNED
2			NOTED
3			PLANNED
4			PLANNED



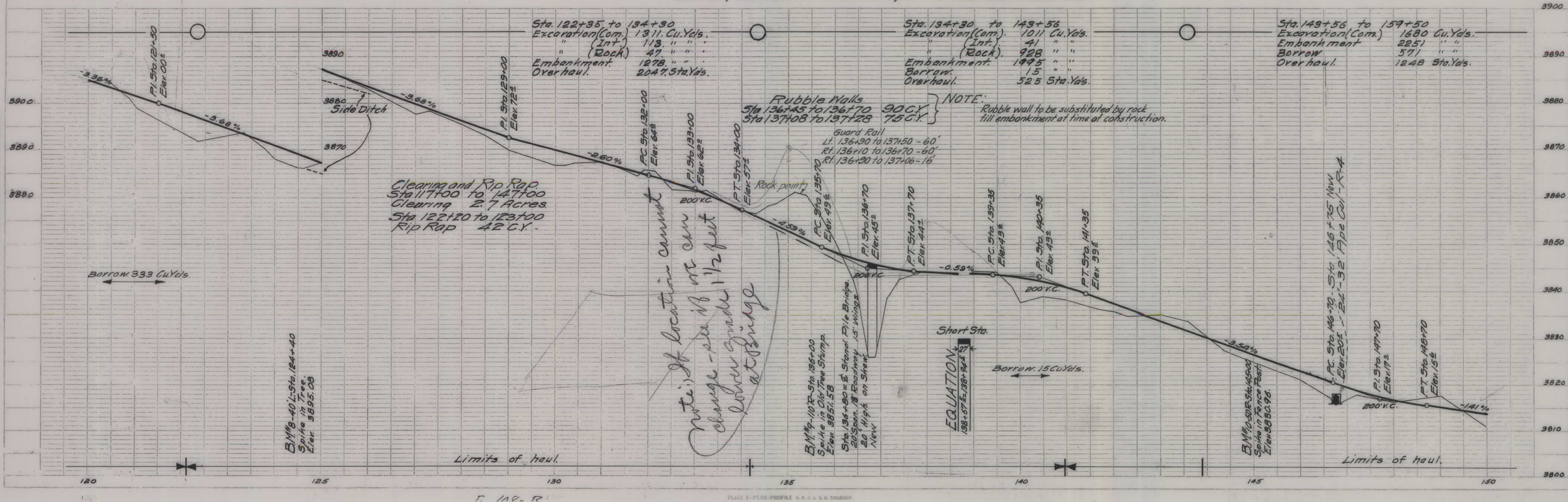
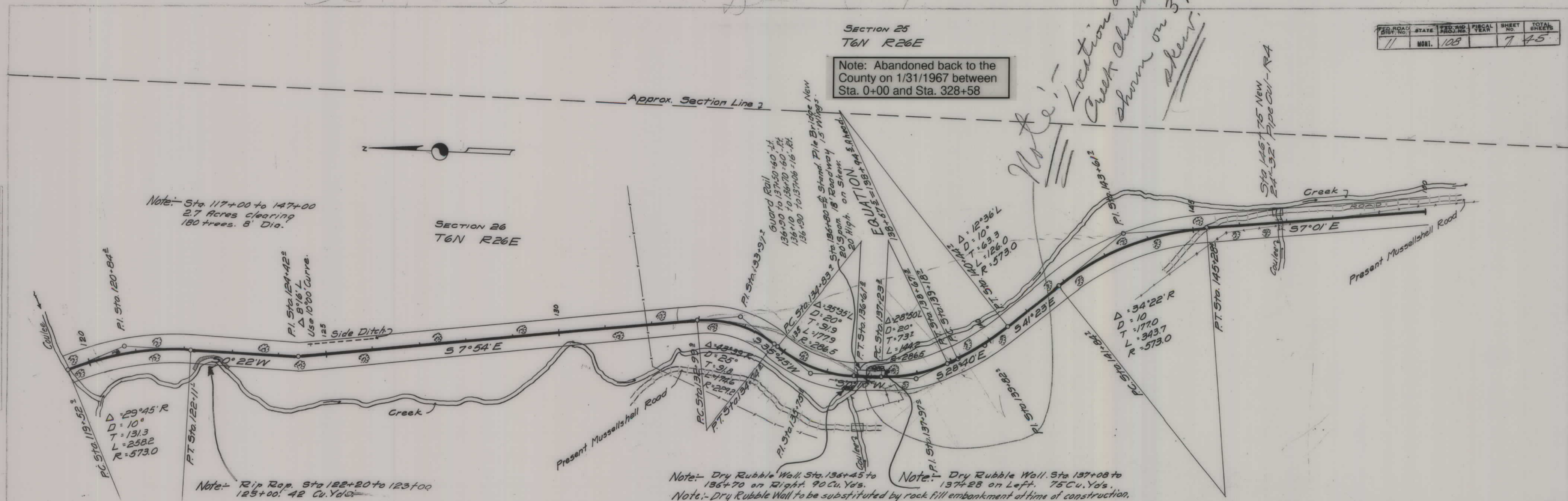
Station Range	Excavation (Com.)	Embankment	Overhaul	Common Exc.	Int.	Rock
Sta. 96+60 to 110+35	1390 Cu.Yds.	15 "	1384 "	653 Sta.Yds.	1263 Cu.Yds.	110 "
						237 "

Station Range	Excavation (Com.)	Embankment	Borrow	Overhaul	Common Exc.	Int.	Rock	Borrow
Sta. 110+35 to 122+35	743 663 Cu.Yds.	1706 "	315 333 "	277 "	753 Cu.Yds.	189 "	354 "	333 "

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
11	MON.	108		7	45

SECTION 25  
T6N R26E  
Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58

Note: Location of Creek channel shown on 31 sheet.



PL. III

DATE	6-22-28
BY	A. J. M.
CHECKED	
DATE	
BY	

PROFILE

DATE	6-22-28
BY	A. J. M.
CHECKED	
DATE	
BY	

Note: If location cannot change - see if we can lower grade 1/2 feet at bridge

BM 118-40 L: Sta. 124+40 Spike in Tree. Elev. 3895.08

BM 119-10 R: Sta. 136+00 Spike in Old Tree Stump. Elev. 3851.58

BM 120-50 R: Sta. 143+00 Spike in Fence Post. Elev. 3880.96



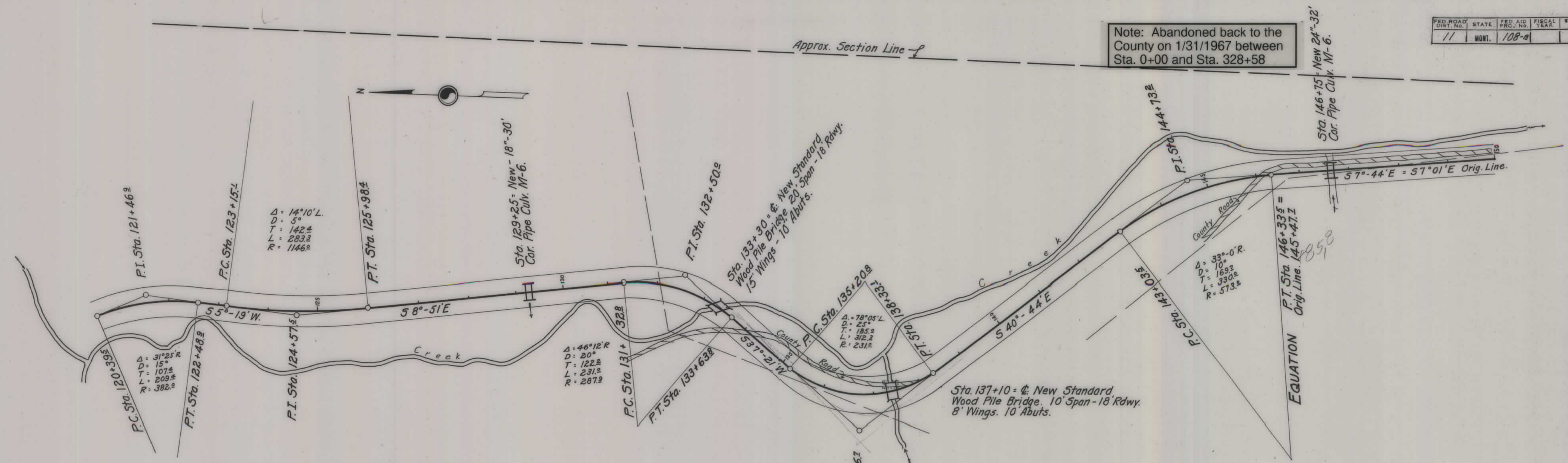
RELOCATION  
 DATE: 11/1/51  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 NO. OF SHEETS: 7-A

PROFILE  
 DATE: 11/1/51  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 NO. OF SHEETS: 7-A

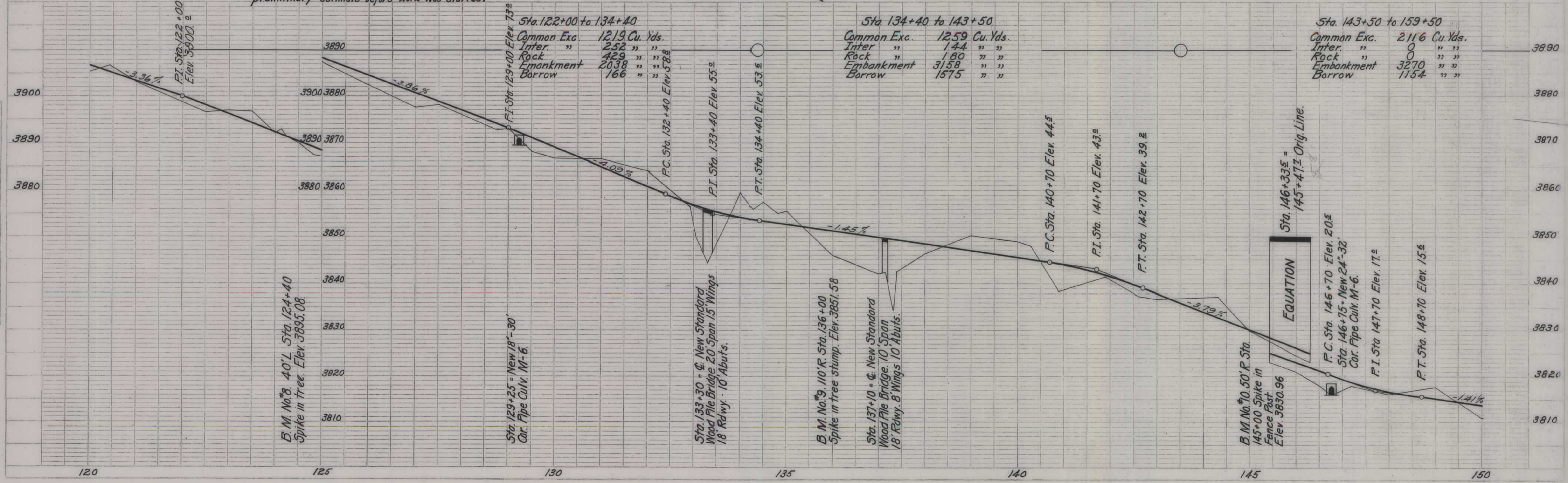
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
11	MONT.	108-a		7-A	45

Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58

Approx. Section Line



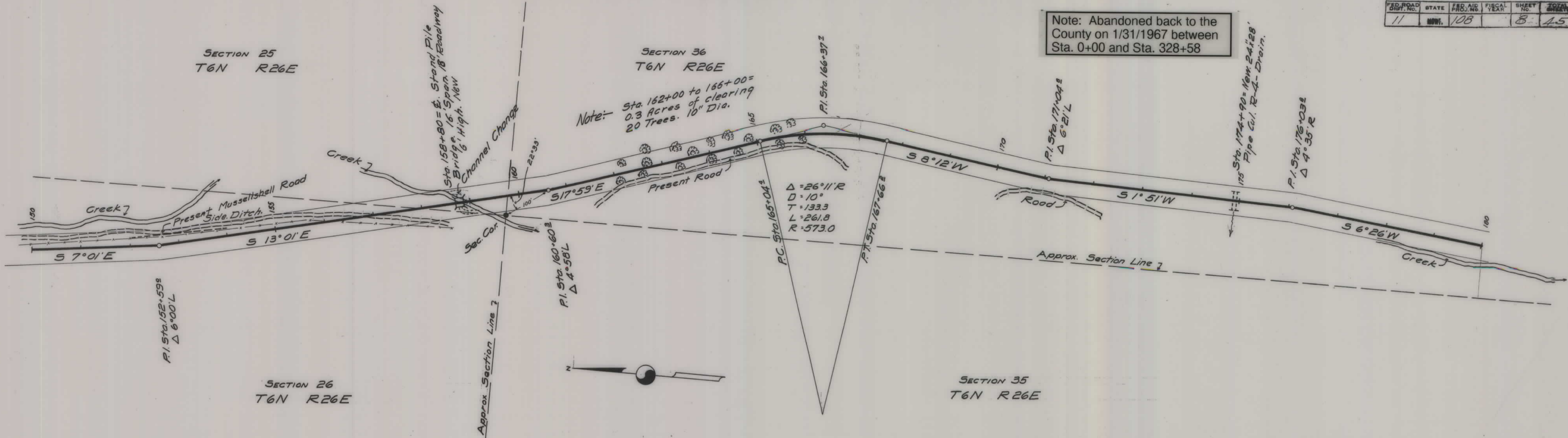
Note: Excavation quantities on this sheet made up from Engineer's final classification of materials, after cuts were made. Classification shown in green pencil on cross-section sheets is according to Engineers preliminary estimate before work was started.



F. 108-B

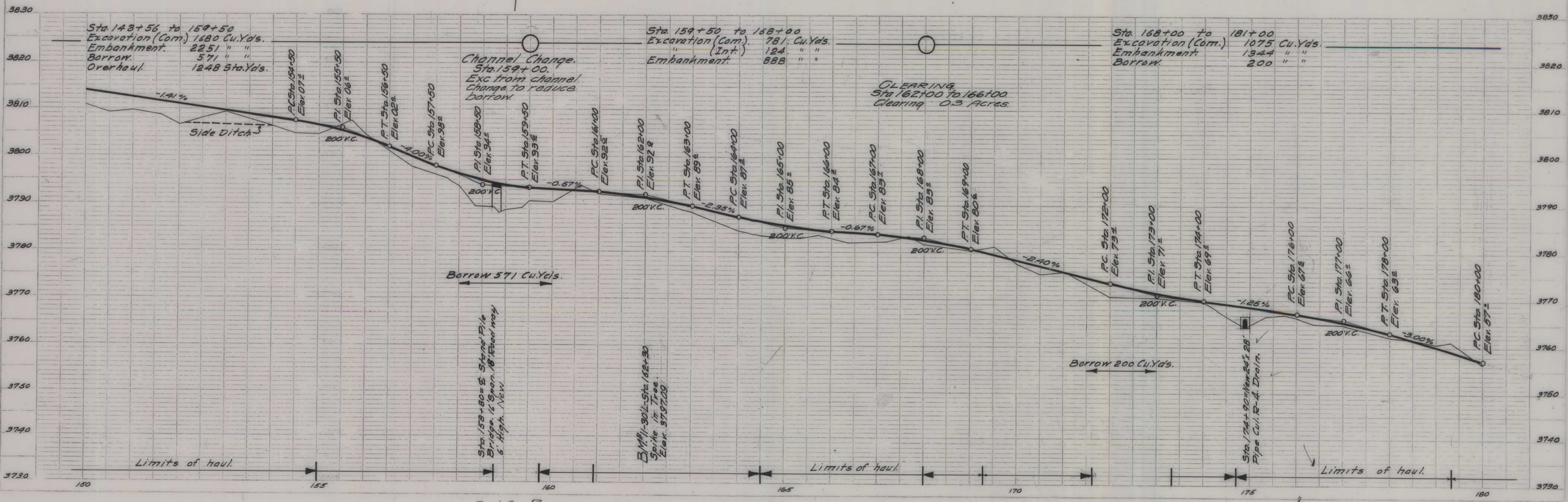
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11	MO.	108		8	45

Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58



DATE	BY	REVISION
6-27-20	L.T.C.	PLANNING
11-11	L.T.C.	REVISED
11-11	L.T.C.	REVISED

DATE	BY	REVISION
6-27-20	L.T.C.	PROFILES
6-28-20	L.T.C.	REVISED
6-28-20	L.T.C.	REVISED

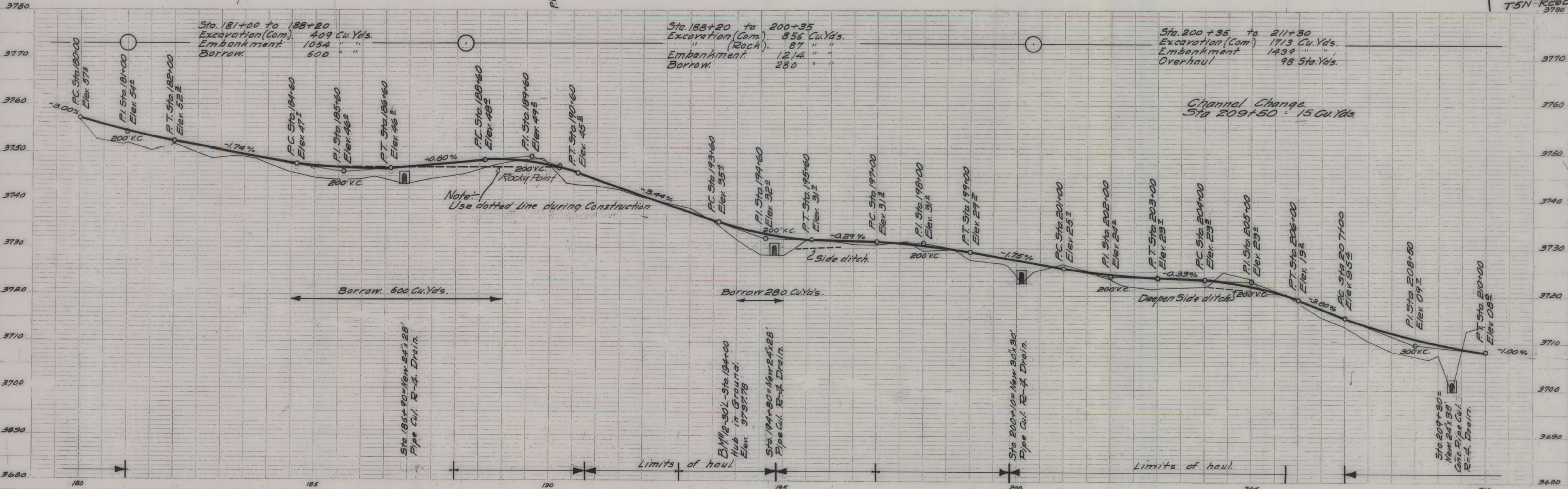
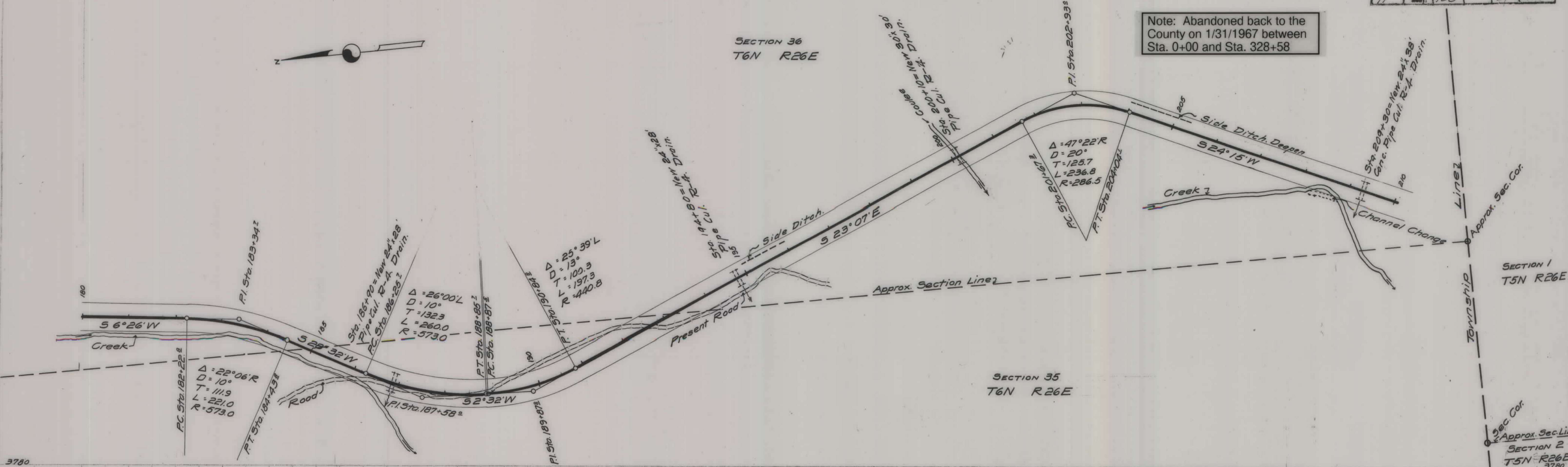


STATE ROAD NO.	STATE	FED. AID DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
11	MO.	108		9	45



SECTION 36  
T6N R26E

Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58



PLAN

DATE	6-23-60
BY	M.S.M.
CHECKED	L.T.C.
DATE	6-23-60
BY	M.S.M.
CHECKED	L.T.C.
DATE	6-23-60
BY	M.S.M.
CHECKED	L.T.C.

PROFILE

DATE	6-23-60
BY	M.S.M.
CHECKED	L.T.C.
DATE	6-23-60
BY	M.S.M.
CHECKED	L.T.C.

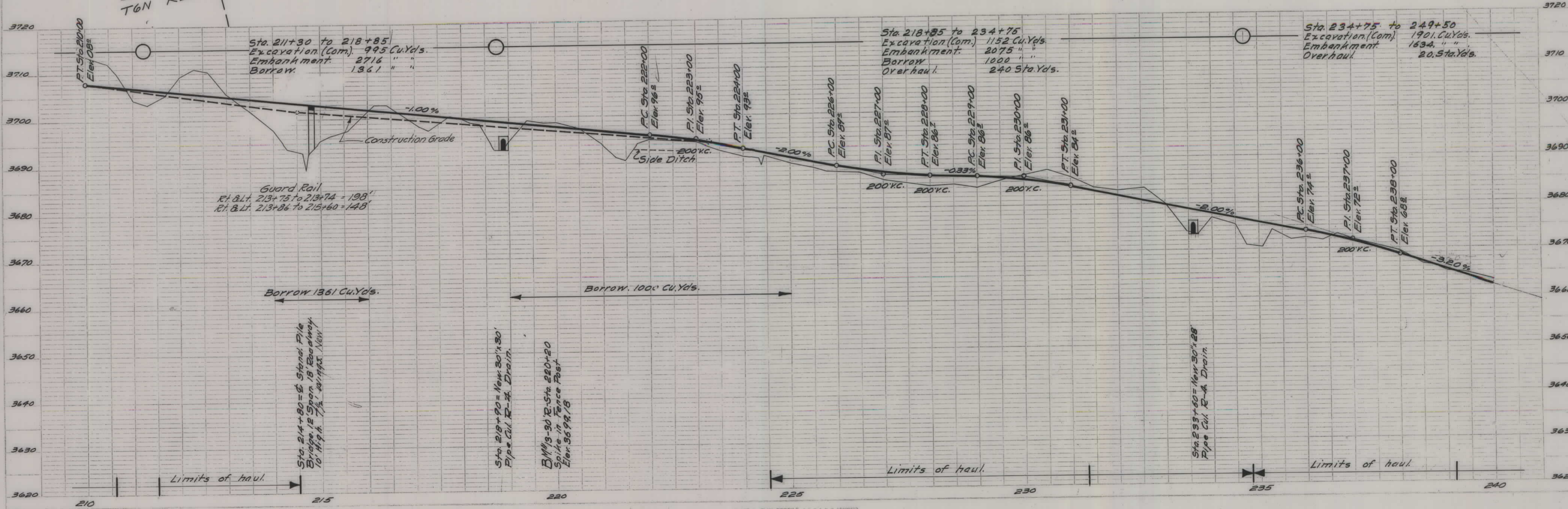
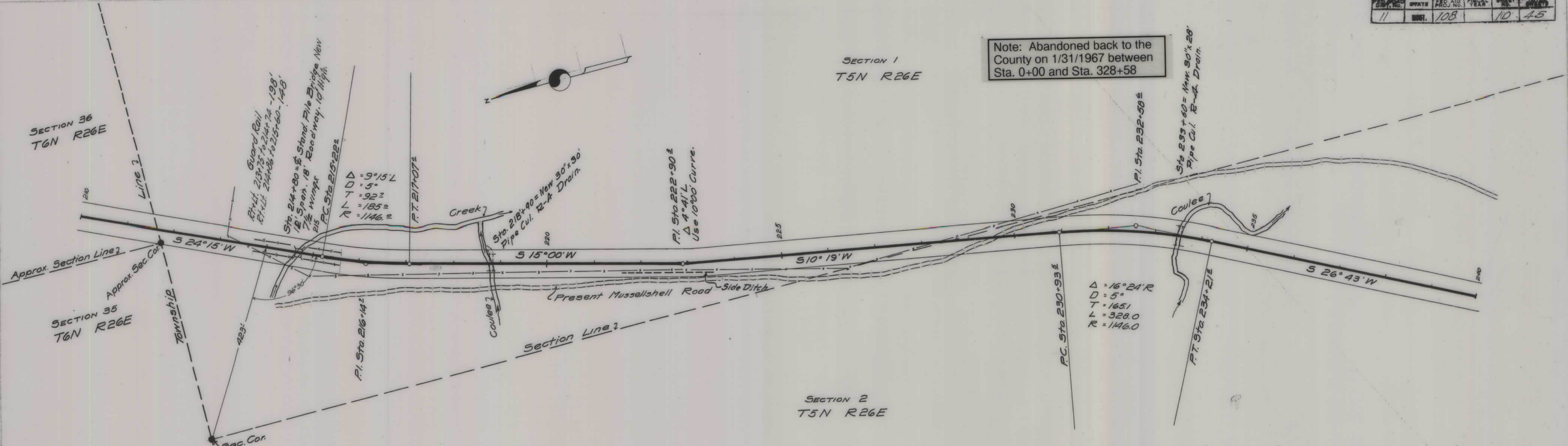
E 108-R

PLATT 1-PLAN-PROFILES - P.A.S. & S. STANBRO

Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58

SECTION 1  
T5N R26E

SECTION 2  
T5N R26E

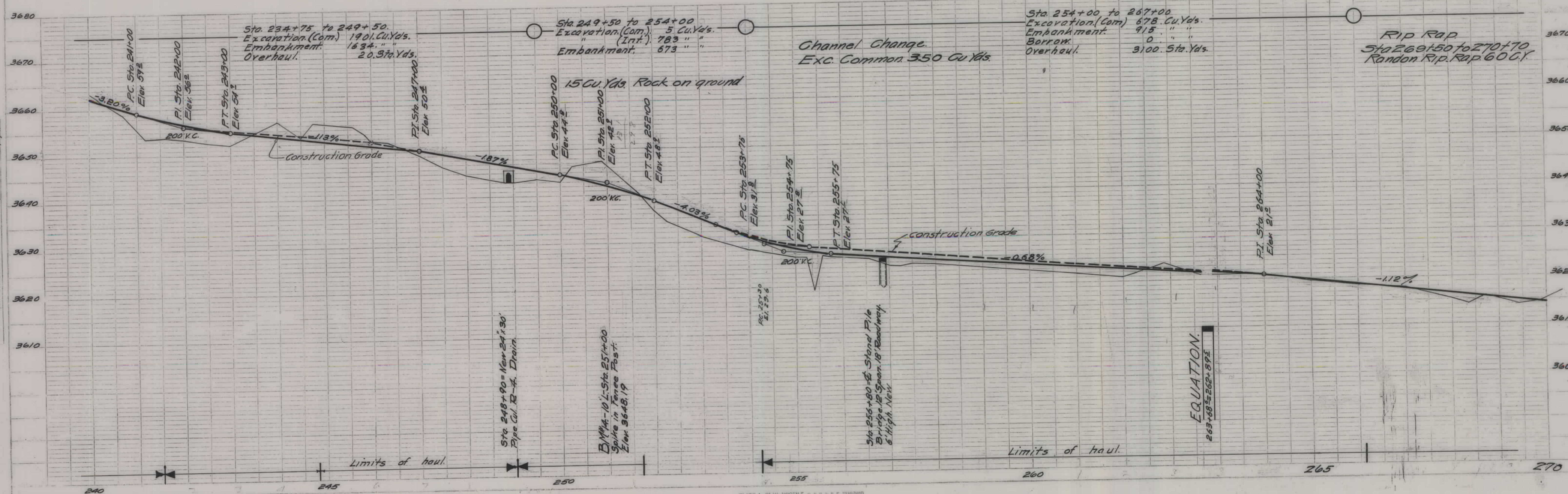
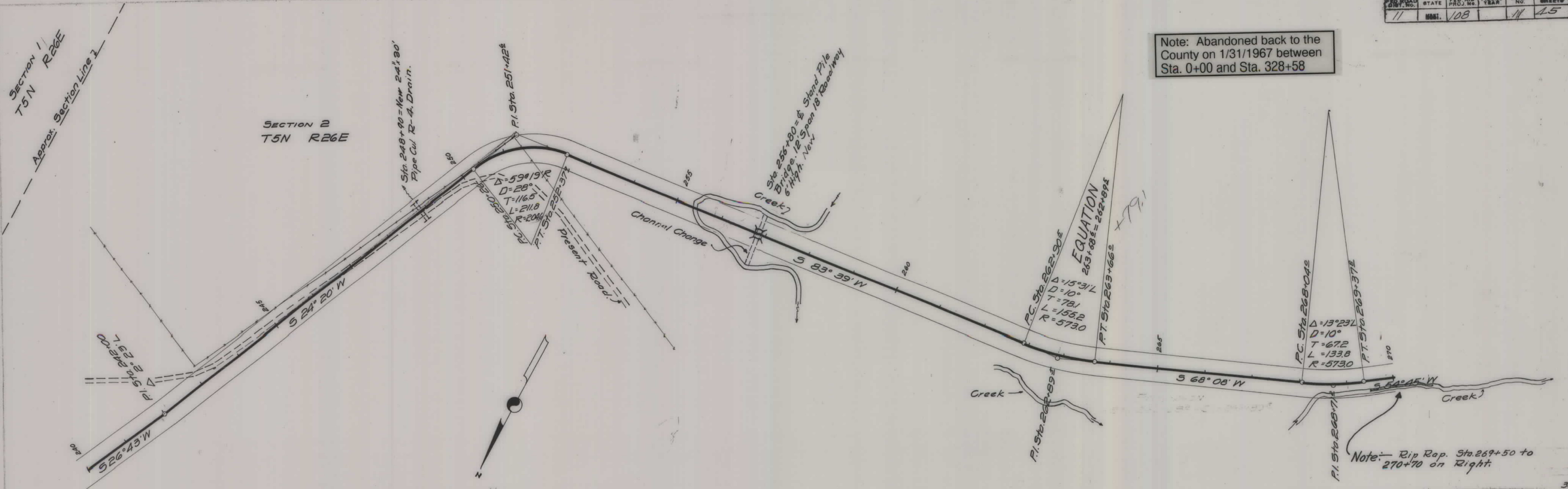


DATE	6-22-20
BY	M.S.M.
PLANNED	
DESIGNED	
CHECKED	
NOTED	
NO.	

DATE	6-22-20
BY	M.S.M.
PLANNED	
DESIGNED	
CHECKED	
NOTED	
NO.	

F-108-B

Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58



DATE	5-28-66
DESIGNED BY	N. S. W.
CHECKED BY	
PLANNED BY	
NOTES	NOTE: HATCHING CHECKED INT. OF HATCH CHECKED
NO.	

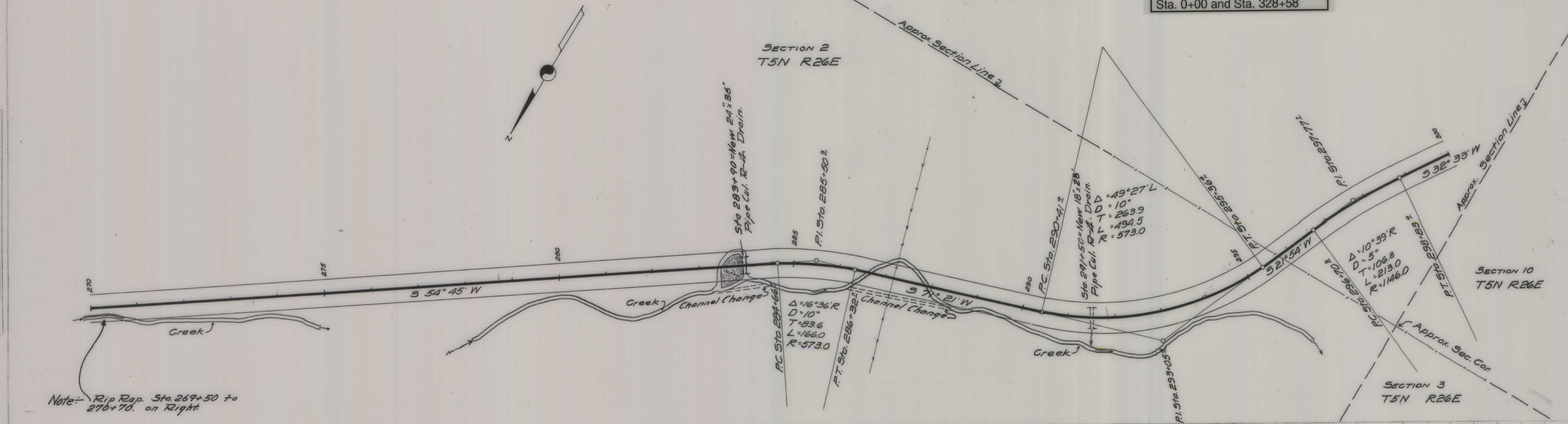
DATE	5-28-66
DESIGNED BY	N. S. W.
CHECKED BY	
PLANNED BY	
NOTES	NOTE: HATCHING CHECKED INT. OF HATCH CHECKED
NO.	

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
11	MO.	108	12	45

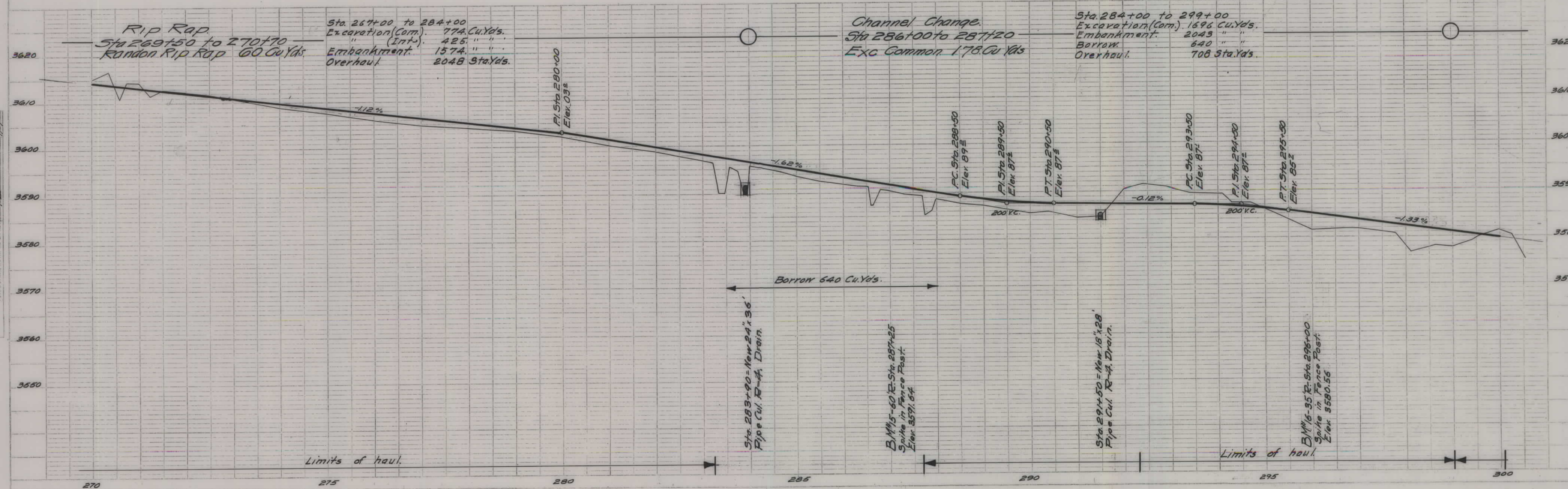
Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58

DATE	BY
1-25-58	M.S.W.
1-25-58	T.S.C.
NO.	NO.
NO.	NO.

DATE	BY
1-25-58	M.S.W.
1-25-58	T.S.C.
NO.	NO.
NO.	NO.



Note: Rip Rap Sta. 269+50 to 270+70. on Right



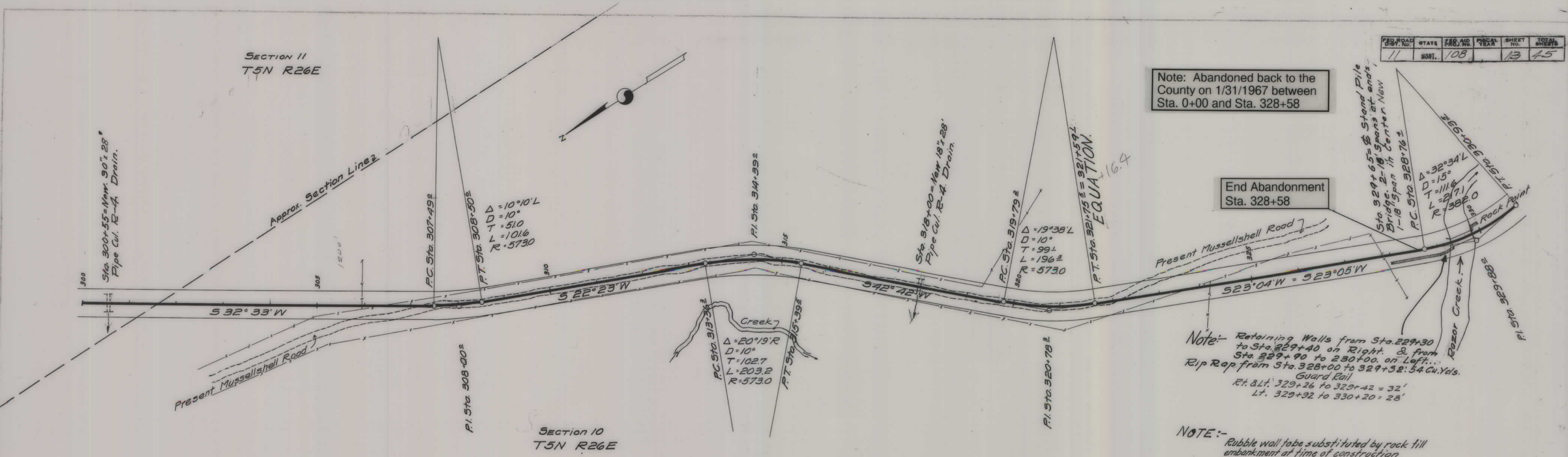
F-108-B

FED. ROAD DIST. NO.	STATE	FAB. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
11	MONT.	108		13	45

SECTION 11  
T5N R26E

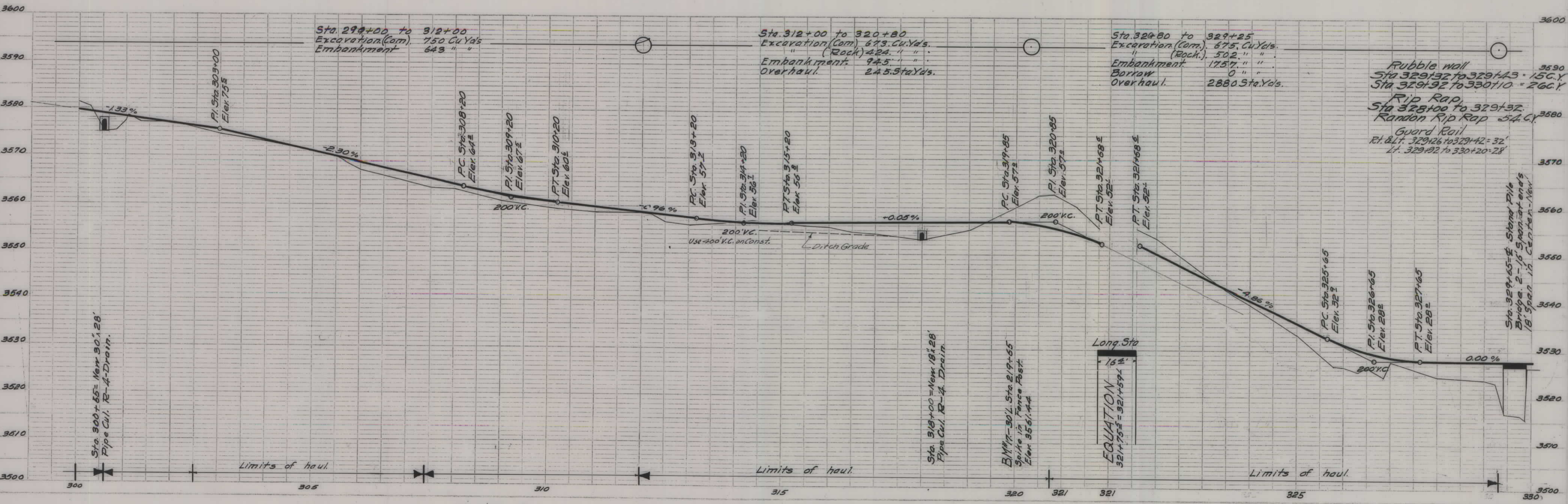
Note: Abandoned back to the County on 1/31/1967 between Sta. 0+00 and Sta. 328+58

DATE	BY	REVISION
6-25-58	W.S.M.	PLANNED
		DESIGNED
		CHECKED
		APPROVED



SECTION 10  
T5N R26E

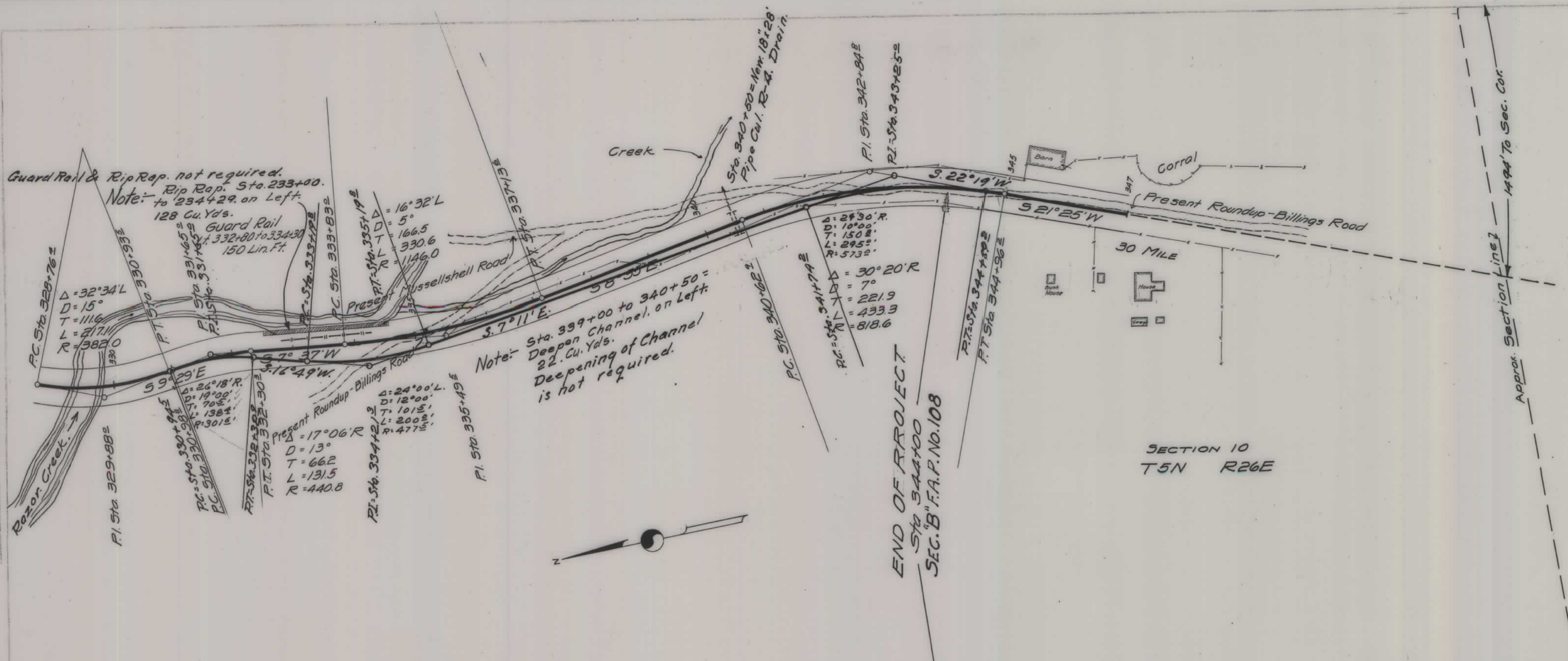
Note: Rubble wall to be substituted by rock fill embankment at time of construction



DATE	BY	REVISION
6-25-58	W.S.M.	PLANNED
		DESIGNED
		CHECKED
		APPROVED

F-108-B

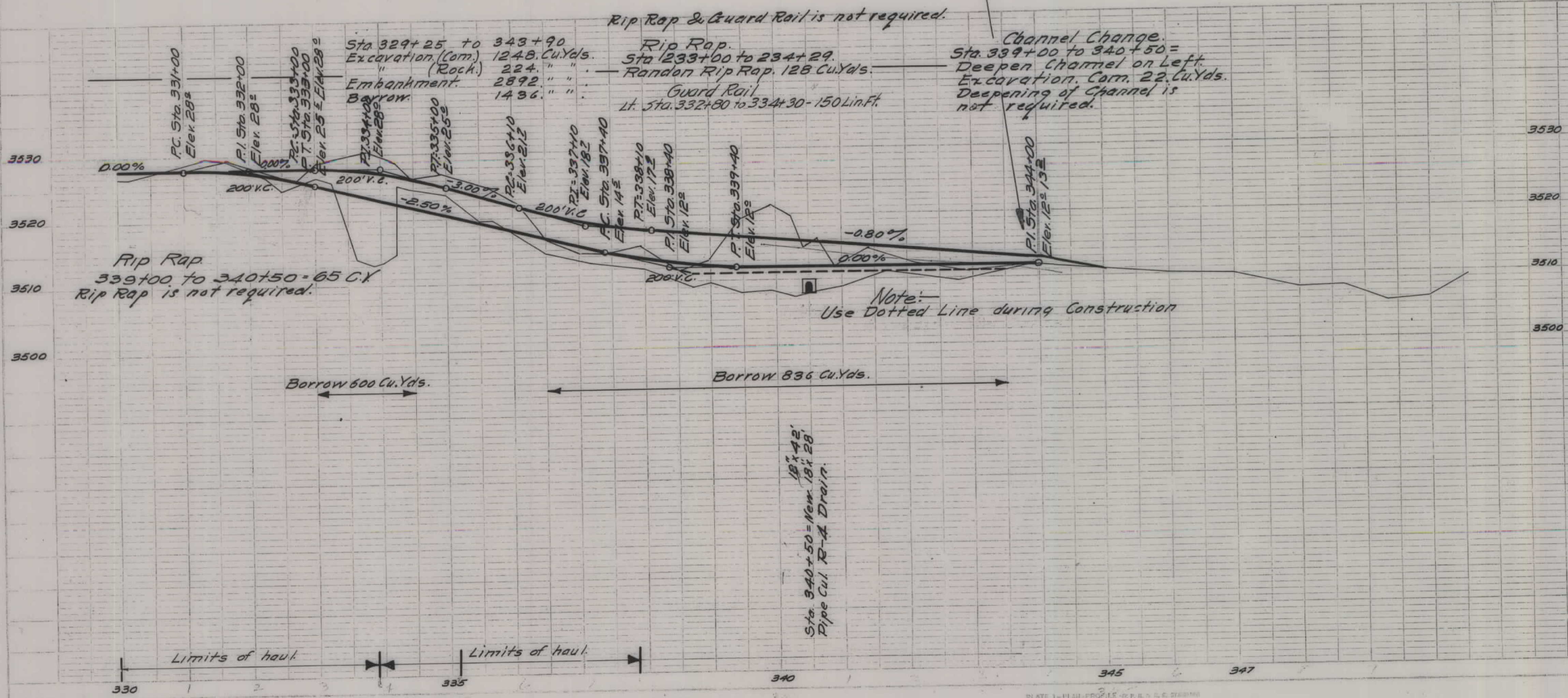
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11	MONT.	108B		14	45



SECTION 15  
T5N R26E

SECTION 10  
T5N R26E

END OF PROJECT  
Sta 344+00  
SEC. B F.A.P. No. 108



F/08-B