

INDEX

SHEET NO.	DESIGNATION	B.P.R. APPROVAL	DATE ADOPTED 'A' OR LATEST REVISION 'R'
1	TITLE SHEET		
2	ST'D. DIV. LANE (INTERSTATE)		
3	ST'D. DIV. LANE (INTERSTATE)		
4	ST'D. DIV. LANE (INTERSTATE)		
5	ST'D. CROSS SECTION, E-II-1R	9-1-61	R-8-11-61
6	TYPICAL CROSS SECTION		
7	TYPICAL CROSS SECTION		
8	TYPICAL CROSS SECTION		
9	ST'D. 8 INCH RAMP SECTION		
10	ST'D. 10 INCH RAMP SECTION		
11	ST'D. PAVEMENT JOINTS SHEET 'A'	5-23-62	R-5-11-62
12	PLAN AND PROFILE		
13	BRIDGE LAYOUT (SHEET NO. 8 BRIDGE PROJ. F-70(II))	BRIDGE FILE NO. 31-R-2358	
14	BRIDGE GENERAL PLAN (SHEET NO. 19 BRIDGE PROJ. F-70(II))	BRIDGE FILE NO. 31-R-2358	
15	R.C. BRIDGE APPROACH		
16	STRUCTURE DATA		
17	APPROACH DATA		
18	ESTIMATE OF QUANTITIES		
19	MISCELLANEOUS STANDARDS, SHEET 'MA'	3-25-64	R-2-1-64
20	MISCELLANEOUS STANDARDS, SHEET 'MB'	3-25-64	R-2-1-64
21	MISCELLANEOUS STANDARDS, SHEET 'MC'	1-26-60	R-4-1-59
22	MISCELLANEOUS STANDARDS, SHEET 'MCI'		R-12-1-64
23	MISCELLANEOUS STANDARDS, SHEET 'MD'		A-DEC-1964
24	MISCELLANEOUS STANDARDS, SHEET 'MDI'		A-DEC-1964
25	MISCELLANEOUS STANDARDS, SHEET 'ME'	10-2-64	R-9-1-64
26	MISCELLANEOUS STANDARDS, SHEET 'MEI'	3-25-64	R-2-1-64
27	MISCELLANEOUS STANDARDS, SHEET 'MH'	3-25-64	R-2-1-64
28	MISCELLANEOUS STANDARDS, SHEET 'MI'	3-25-64	R-2-1-64
29	MISCELLANEOUS STANDARDS, SHEET 'MIJ'	3-25-64	R-2-1-64
30	MISCELLANEOUS STANDARDS, SHEET 'MIK'	4-28-61	A-FEB-1961
31	MISCELLANEOUS STANDARDS, SHEET 'MKI'		R-12-1-64
32	MISCELLANEOUS STANDARDS, SHEET 'MN'		R-11-20-63
33	MISCELLANEOUS STANDARDS, SHEET 'MP'	6-4-64	R-11-20-63
34	MISCELLANEOUS STANDARDS, SHEET 'MPI'		R-11-20-63
35	MISCELLANEOUS STANDARDS, SHEET 'MR'		R-8-6-64
36	MISCELLANEOUS STANDARDS, SHEET 'S'		R-1-15-63
37	MISCELLANEOUS STANDARDS, SHEET 'S-I'	3-7-63	R-1-15-63
38	MISCELLANEOUS STANDARDS, SHEET 'MT'	5-1-63	R-3-18-63
39	MISCELLANEOUS STANDARDS, SHEET 'MT-1'	5-7-62	R-11-2-61
40	MISCELLANEOUS STANDARDS, SHEET 'MU'	3-25-64	R-2-1-64
41	MISCELLANEOUS STANDARDS, SHEET 'MV-1'		A-MAY-1934
42	ST'D. STRUCTURE CONNECTIONS FOR EXTENSION	1-26-60	R-9-1-51
43	ST'D. R.C. BOX CULVERT (FILLS 1 FT. - 20 FT.)	1-26-60	A-JULY 27 1964
44	BRIDGE ST'D. 'J' (EXPANSION JOINTS)		R-8-27-63
45	BRIDGE ST'D. 'MS' (MISC. APPR. DETAILS)	4-7-64	R-10-4-62
46	BRIDGE ST'D. 'MS' (SLOPEWALL & DRAINAGE DETAILS)	12-4-62	R-2-18-63
47	BRIDGE ST'D. 'S2' (PLACING GRADE & SPECIAL BORROW)	3-28-63	
48	ST'D. GUARD RAIL 'GR'	8-9-61	R-10-20-60
49	STEEL BEAM GUARD RAIL 'GRI'	6-6-61	R-5-25-61
50	TYP. BEAM GUARD RAIL DETAILS (BRIDGE ST'D. 'GRA')	11-3-61	R-5-25-61
51	ST'D. FOR SUPERELEVATION	2-27-61	A-JAN-1961
52	ST'D. DETOUR SIGNS, SHEET 1		R-3-8-63
53	ST'D. DETOUR SIGNS, SHEET 2		R-3-8-63
54	ST'D. DETOUR SIGNS, SHEET 3		R-3-8-63
55	ST'D. DETOUR SIGNS, SHEET 3A		R-3-8-63
56	ST'D. DETOUR SIGNS, SHEET 4		R-3-8-63
57	ST'D. DETOUR SIGNS, SHEET 5		R-3-8-63
58	CROSS SECTIONS		

RIGHT OF WAY PLANS

STATE OF INDIANA

INDIANA STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED

STATE HIGHWAY
ST-F PROJECT NO. 70(9)

R/W FOR THIS PROJECT INCLUDES
R/W FOR SEPARATE CONTRACT
STRUCTURE F PROJECT NO. 70(11)

CODE 0629

FEDERAL ROAD DIVISION NO.	STATE	ST-F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(9)	1964	1	

THESE PLANS PREPARED
BY
CHAS. W. COLE & SON
ENGINEERS
SOUTH BEND, INDIANA

DESIGN DATA	
A.D.T. (1962)	8500 V.P.D.
A.D.T. (1982) PROJECTED	15,350 V.P.D.
D.H.V. 1982	1400 V.P.D.
DIRECTIONAL DISTRIBUTION	53%
TRUCKS	20%
DESIGN SPEED	70 M.P.H.
ACCESS CONTROL	PARTIAL

October 1, 1965
DATE

Chas. W. Cole
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 3653

LEGEND FOR BARRICADES AND SIGNS

- (A) BARRICADE TYPE A
- (B) BARRICADE TYPE B
- (C) TYPICAL SIGN STANDARD
- (D) CONSTRUCTION IDENTIFICATION SIGN

BEGINNING AT A POINT APPROXIMATELY 1000.0 FEET SOUTH AND 33.0 FEET EAST OF THE NORTHWEST CORNER OF SECTION 7, T.25N, R.4E. AND EXTENDING IN A NORTHERLY DIRECTION ADJACENT TO THE NORTH & SOUTH SECTION LINE AND R.3E. LINE TO A POINT APPROXIMATELY 1212.7 FEET NORTH AND 350.0 FEET EAST OF THE SOUTH WEST CORNER OF SECTION 6, T.26N, R.4E. ALL IN MIAMI COUNTY.

GROSS LENGTH: 6.353 MI.
NET LENGTH: 6.353 MI.

SCALES:

PLAN LONG: 1"=100'
TRANS: 1"=100'
PROFILE HORIZ: 1"=100'
VERT: 1"=10'

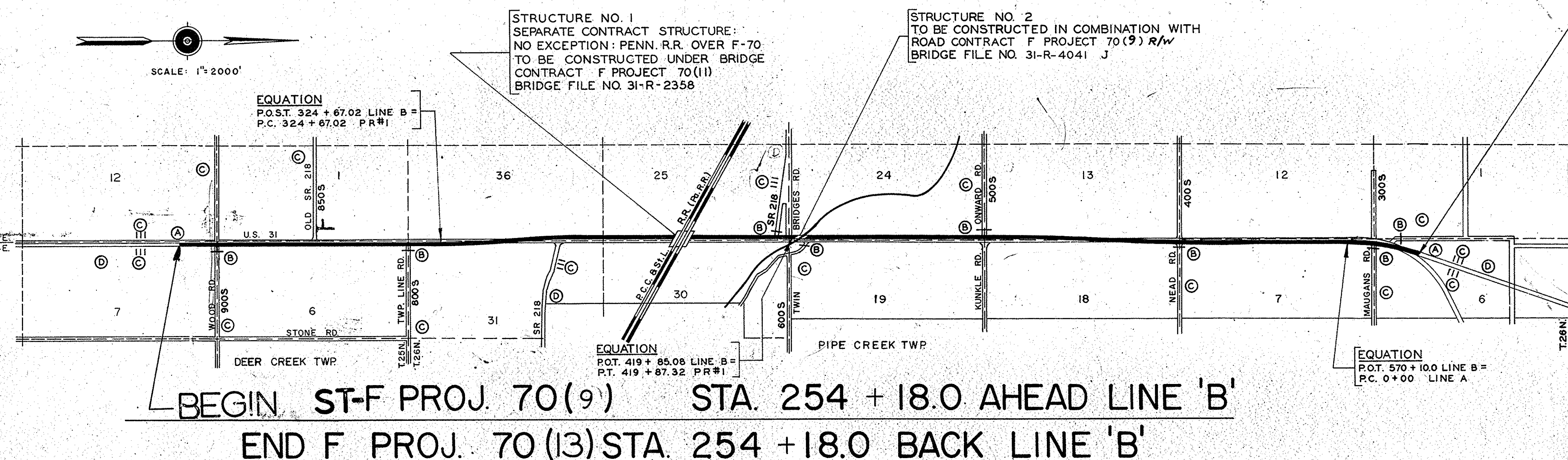
MAX. GRADE: 2.552 %

MIAMI COUNTY

END ST-F PROJ. 70(9) STA. 19+50.0 LINE 'A'
BEGIN F PROJ. 875(1) STA. 19+50.0 LINE 'A'

SHEET NO.	DATE	REVISED
14	3-25-66	TEMP. R/W STA 494+50
6,7,14,15,26,13	4-22-66	TEMP. R/W ADDED
13	9-7-66	R. REV.
16,30	9-30-66	TOPO. REV.
9,27,33,35,41	11-17-66	DRIVE @ 52+30 L'S 10-B"
14	3-3-67	TEMP. R/W ADDED (APPROVED)
14	3-6-67	RD. DESIGN (APPROVED 4-22-66)
10,38,41	6-12-67	ADDED STR. 57A, B, & C.
4,26,42	10-19-67	TEMP. R/W
13,29,34,39	10-27-67	EXT. A.R.#7 on S-12-B"
11	2-5-68	PL. & R/W
12,16	3-14-68	Temp. R/W, Class IV Drive.
12,16,34,39	3-21-68	2 Class IV Drives, 1 A.R. 4A, 5A Added

SHEET NO.	DESCRIPTION
1	TITLE SHEET
1A+1B	PARCEL LISTING
2-3	TYPICAL CROSS SECTIONS
4	PLAT NO. 1
5-20	PLAN & PROFILE
21-24	ACCESS & FRONTAGE RD. PROFILES
25-32	SPECIAL DETAILS
33-35	APPROACH DATA TABLE
36	R.C. BRIDGE APPROACH DETAILS
37	SUBSURFACE DRAINAGE
38-40	STRUCTURE DATA
41	ESTIMATE OF QUANTITIES
42-43-44	AERIAL MOSAICS



SHEET NO.	DATE	REVISED
11,27,33,34,35	10-23-68	Eliminate A.R.#2 R/W, Temp. R/W, & Drives
12	5-1-69	TEMP. R/W ADDED
12,34,43	11-7-69	EXT. A.R.#4 & TEMP. R/W
		ADD TEMP. R/W - DR. CONST.

APPROVED 1-3-66
Chas. W. Cole
CHIEF ENGINEER - INDIANA STATE HIGHWAY COMMISSION

STATE HIGHWAY COMMISSION OF INDIANA
STANDARD SPECIFICATIONS DATED 1963
TO BE USED WITH THESE PLANS.

RECOMMENDED FOR APPROVAL 12-31-65
Ed Klingelhoefer
ENGINEER OF PLANS AND SPECIFICATIONS
INDIANA STATE HIGHWAY COMMISSION

Code 0629
F-70(9)
US-31
46 sheets
Miami Co.
DATE

ROAD USR 31 COUNTY-MIAMI PROJECT ST-F-70(9) L.A. CODE 0629 DATE 10/04/68

L10-6-01 PARCEL LISTING FOR LAND ACQUISITION INDIANA STATE HIGHWAY COMMISSION

PARCEL NUMBER	GRANTOR	CENTER LINE	FROM APPROX STA.	TO APPROX STA.	PLAN SHEET	BRIDGE	TOTAL AREA	R/W EXISTING	NATURE OF TITLE	LAND TO BE ACQUIRED	RESIDUE AREA	BLDG.
1	PARCEL 1 ON PROJECT ST-F-70(9) AND PARCEL 15 ON PROJECT ACQUISITION THEREOF ENTIRELY UNDER SAID PROJECT ST-F-70(9)											
1	CHILDERS,FLORENCE W.	B	224	264	5+ 6+30		198.000AC	7.570AC	FS	1.199AC	A=113.745AC B= 72.954AC	
1A		B	251	264	6+30				FS	2.532AC		*
1B		B	263	264	6				TE	0.031AC		
1C		B	263	264	6				TE	0.028AC		
2	PARCEL 2 ON PROJECT ST-F-70(9) AND PARCEL 37 ON PROJECT ACQUISITION THEREOF ENTIRELY UNDER SAID PROJECT ST-F-70(9)											
2	FISH, JAY F. ET AL.	B	238	251	5		77.790AC	1.520AC	FS	2.648AC	A= 73.622AC	
3	ELIMINATED 03/25/67											
4	BUSCHBAUM,VIOLA A.	B	277	290	7+26		50.000AC	2.740AC	FS	0.015AC	A= 47.245AC	
5	U.S.A.	B	291	292	7+26		2121.610AC	18.780AC	FS	0.025AC	A=2087.757AC	
5A		B+PR1	322	390	8+ 9+10				FS	15.048AC		*
5B		S8B	821	822	7				TE	0.138AC		
6	MILES,ELMER E. ET UX.	B	296	309	7		92.430AC	1.420AC	FS	2.616AC	A= 88.394AC	
6A		B	307	309	7				TE	0.068AC		
7	LADD,JOHN WILLIAM	B	309	316	7+ 8+26		40.000AC	1.730AC	FS	1.407AC	A= 36.863AC	
7A		B	309	316	7+ 8+26				TE	0.306AC		
7B		B	315	316	8+26				TE	0.026AC		
8	ABLANALP,GLADYS	B+PR1	316	351	8+ 9+26		195.710AC	6.180AC	FS	5.413AC	A=184.117AC	
8A		B+PR1	316	330	8+26				SP EASMNT RTS			
9	BAIRD MOBILE HOME PARK	S10B	50	52	9+27		39.190AC	2.140AC	TE	0.065AC	A= 37.050AC	
9A		S10B	52	53	9+27				TE	0.352AC		
10	ARMSTRONG, WILLIAM B.	RR1B	51	58	10+19+20		68.808AC	2.280AC	TE	0.851AC	A= 66.528AC	
11	BUNKER HILL DEVELOP.	B+PR1	391	408	10+11+19		74.910AC	5.840AC	FS	5.886AC	A= 58.575AC B= 3.491AC C= 0.303AC	*
11A		B	414	416	11+27				FS	0.140AC		
11B		B	416	419	11+27				FS	0.675AC		
11C		S11B	217	219	11+27				TE	0.058AC		
11D		RR1B	36	47	10+19				TE	1.194AC		
12	JOYCE,ETHEL	PR1	412	414	11+27		0.570AC		FS	0.570AC		*
13	MEYER,WILLIAM H. ET UX.	B	419	423	11		3.540AC	0.589AC	FS	0.699AC	A= 2.252AC	
14	CRIFE, ROSETTA	B	424	439	11+12		55.160AC	2.459AC	FS	3.144AC	A= 49.557AC	*
15	KELLY, PAUL B. ET UX.	B	410	412	11+27		13.597AC	1.620AC	FS	0.033AC	A= 11.419 B= 0.525 C= 0.525	*
15A		B	412	419	11+27				FS	2.593AC		*
15B		B	411	412	11				TE	0.035		
15C		B	415	416	11				TE	0.248AC		
16	SMITH,MARY M.	B	419	422	11		21.510AC	1.634AC	FS	0.030AC	A= 18.220AC B= 0.789AC	
16A		B	423	428	11				FS	0.807AC		
16B		B	423	424	11				TE	0.023AC		
16C		B	426	427	11				TE	0.052AC		
17	ROBINSON, ELMER ET UX.	B	428	431	11+12		5.000AC	0.240AC	FS	0.135AC	A= 4.625AC	
18	HARTISCH,FRED A.	B	431	433	11+12		5.000AC	0.240AC	FS	0.092AC	A= 4.668AC	
18A		B	432	433	12				TE	0.052AC		
19	ORMAN,DONALD M. ET UX	B	433	437	12		10.000AC	0.480AC	FS	0.137AC	A= 9.383AC	
19A		B	433	434	12				TE	0.057AC		
20	SEEGBARTH,BERNARD H.	B	457	458	12		0.592AC	0.184AC	FS	0.154AC	A= 0.254AC	
20A		B	458	459	12				TE	0.014AC		
21	CRAIN, RUTH M.	B	458	460	12		3.124AC	0.725AC	FS	0.204AC	A= 2.109AC	
21A		B	460	463	12+13				FS	0.086AC		
22	WRIGHTS,ADA B.	B	439	449	12		40.000AC	1.060AC	FS	1.363AC	A= 37.577AC	
23	LONG,WILMA E.	B	445	446	12		0.803AC	0.161AC	FS	0.177AC	A= 0.465AC	
23A		B	446	447	12				TE	0.047AC		
23B		B	446	447	12				SP EASMNT RTS			
24	BLUE,FREDRICK D. ET UX.	B	446	448	12		1.600AC	0.220AC	FS	0.425AC	A= 0.955AC	
24A		B	446	447	12				TE	0.022AC		
25	TURNPAUGH,CECIL ET UX.	B	448	449	12		2.725AC	0.318AC	FS	0.212AC	A= 1.355AC B= 0.472AC	
25A		B	449	450	12				FS	0.368AC		
25B		B	450	451	12				SP EASMNT RTS			

Rev. 10/30/68 F.E. BURROUGHS INC.

ROAD USR 31 COUNTY-MIAMI PROJECT ST-F-70(9) L.A. CODE 0629 DATE 10/04/68

L10-6-01 PARCEL LISTING FOR LAND ACQUISITION INDIANA STATE HIGHWAY COMMISSION

PARCEL NUMBER	GRANTOR	CENTER LINE	FROM APPROX STA.	TO APPROX STA.	PLAN SHEET	BRIDGE	TOTAL AREA	R/W EXISTING	NATURE OF TITLE	LAND TO BE ACQUIRED	RESIDUE AREA	BLDG.
26	FISHER, C. ET UX.	B	450	456	12		13.133AC	1.300AC	FS	1.066AC	A= 7.664AC B= 2.568AC	
26A		B	456	458	12				FS	0.535AC		
26B		B	454	455	12				TE	0.040AC		
27	GLASSBURN,EARL A. ET UX.	B	458	465	12+13+32		55.324AC	1.619AC	FS	1.414AC	A= 52.291AC	
27A		B	459	461	12				TE	0.243AC		
27B		B	464	465	13+32				TE	0.046AC		
28	BIDDLE,WILLIAM R.	B	465	468	13+32		5.385AC	0.590AC	FS	0.722AC	A= 4.073AC	*
28A		B	466	468	13+32				TE	0.442AC		
28B		B	465	466	13+32				TE	0.033AC		
29	BIDDLE,CLARENCE L. ET UX	B	468	471	13+29+32		2.474AC	0.698AC	FS	1.050AC	A= 0.726AC	
29A		B	530	531	15		0.500AC	0.116AC	FS	0.200AC	B= 0.184AC	*
29B		B	530	531	15		74.000AC	3.580AC	FS	3.847AC	A= 66.573AC	
30	REYBURN,RUSSELLH. ET UX.	B	472	494	13+14+29		74.000AC	3.580AC	FS	3.847AC	A= 66.573AC	
31	BOWYER, VINAL ET UX.	B	464	465	13		50.936AC	1.493AC	FS	0.024AC	A= 49.286AC	
31A		B	467	469	13				FS	0.133AC		
31B		B	467	468	13				TE	0.005AC		
32	SMITH,WESLEY A. ET UX.	B	465	467	13		1.301AC	0.301AC	FS	0.140AC	A= 0.860AC	
32A		B	466	467	13				TE	0.098AC		
33	BIRK, RALPH E. ET UX.	B	469	471	13		1.454AC	0.393AC	FS	0.030AC	A= 1.031AC	
34	KINS,FRANK E. ET UX.	B	478	485	13		53.500AC	1.835AC	FS	0.229AC	A= 51.436AC	
34A	ELIMINATED 9/9/66											
35	MORRETT,GAIL J. ET UX.	B	485	504	13+14+32		114.470AC	2.006AC	FS	2.223AC	A=110.241AC	
35A		B	492	495	14				TE	0.328AC		*
36	WELKE,WANELDA L.	B	494	498	14+32		6.000AC	0.482AC	FS	0.583AC	A= 4.935AC	*
36A		B	497	498	14				TE	0.107AC		
37	TILLET,PAUL E.	B	498	522	14+15+29		159.000AC	3.890AC	FS	1.737AC	A=153.373AC	
37A		B	498	499	14				TE	0.048AC		
38	HARVEY,BRUCE W. ET UX.	B	504	511	14+32		10.000AC	0.798AC	FS	1.155AC	A= 8.047AC	
38A		A	509	511	14				TB	0.087AC		*
39	ELLIOT,MARION E. ET UX.	B	511	515	14		10.000AC	0.437AC	FS	1.263AC	A= 8.300AC	
39A		B	515	515	14				TE	0.071AC		
40	ENGEL, BEULAH M.	B	515	522	14+15		16.530AC	0.722AC	FS	1.400AC	A= 14.408AC	
40A		B	521	522	14+15				TB	0.053AC		*
40B		B	516	516	14				TE	0.046AC		
41	MCKINLEY,ROBERT L. ETUX	B	522	524	15+29		1.400AC	0.371AC	FS	0.403AC	A= 0.626AC	
42	SWINFORD,DENZIL L.	B	524	526	15+29		0.370AC	0.273AC	FS	0.097AC		*
43	PIER,DONALD C. ET UX.	B	524	526	15+29		0.500AC	0.051AC	FS	0.127AC	A= 0.322AC	
43A		S13B	51	52	15+29				TE	0.025AC		
43B		B	525	526	15				TE	0.031AC		
44	DILLMAN,ALTA M. ET AL.	B	526	530	15+29		1.833AC	0.530AC	FS	0.753AC	A= 0.550AC	*
44A		B	526	530	15				TE	0.131AC		
45	GRAFT,CLIFFORD V. ET UX	B	531	551	15+16		162.970AC	3.367AC	FS	3.984AC	A=127.467AC B= 28.142AC	*
45A		B	544	545	15				FS	0.010AC		
45B		B	531	532	15				TE	0.022AC		
45C		B	544	545	15				TE	0.030AC		
45D		B	535	536	15				TB	0.034AC		
45E		B	541	542	15				TB	0.013AC		*
46	PUCKETT,CLEMMIE ET AL.	B	542	524	15+29							

ROAD USR 31 COUNTY-MIAMI PROJECT ST-F-70(9) L.A. CODE 0629 DATE 10/04/68
L10-6-01 PARCEL LISTING FOR LAND ACQUISITION INDIANA STATE HIGHWAY COMMISSION

PARCEL NUMBER	GRANTOR	CENTER LINE	FROM APPROX STA.	TO APPROX STA.	PLAN SHEET	BRIDGE	TOTAL AREA	R/W EXISTING	NATURE OF TITLE	LAND TO BE ACQUIRED	RESIDUE AREA	BLDG.
54	THERMOGAS CO. OF PERU	A	5	7	16+30		1.150AC	0.288AC	FS	0.040AC	A= 0.822AC	
55	MATTHEWS, CLELL ET UX.	A	2	7	16+18+30		11.220AC	1.330AC	FS	1.724AC	A= 8.166AC	
55A		S1A	55	57	18				TE	0.184AC		
56	JARVIS, ROY ET UX.	A	15	17	17+31		1.040AC	0.208AC	TE	0.070AC	A= 0.832AC	
57	SCHNEIDER, WILSIE	A	17	18	17+31		20.780AC	2.030AC	TE	0.025AC	A= 1.172AC B= 17.578AC	
58	KINS, F.+ ROBINSON, C.	B	472	478	13		8.540AC	1.215AC	FS	0.166AC	A= 7.159AC	
58A		S12B	53	54	13				TE	0.142AC		
58B	ELIMINATED 11/13/67											
59	WHITE, FRANK W. ET UX.	B	264	296	6+ 7+26		70.160AC	4.083AC	FS	7.468AC	A= 58.609AC	*
59A		B	264	265	6				TE	0.033AC		
59B		B	277	282	6+ 7				TB	0.275AC		*
60	BUSCHBAUM, GEO. ET AL.	B	264	277	6+30		30.000AC	1.897AC	FS	0.311AC	A= 27.792AC	
60A		B	264	265	6				TE	0.027AC		
61	TREMARCO CORPORATION	S10B	52	53	9+27		0.962AC	0.376AC	FS ACCESS	RTS A= 0.582AC		
61A		S10B	52	53	9+27				SP	LEASEHOLD		
62	MECK, DONALD H. ET UX.	B	352	355	9+27		3.066AC	0.193AC	FS ACCESS	RTS A= 2.873AC		
63	ADAMS, DON R. ET UX.	B	367	371	9		11.960AC	0.498AC	FS ACCESS	RTS A= 11.462AC		
64	SICANOFF, PAUL J.	PR1	382	390	10		11.393AC		FS ACCESS	RTS A= 11.393AC		
65	HARSHMAN, RONALD ET UX.	B	439	440	12		10.000AC	0.673AC	FS	0.181AC	A= 9.146AC	
65A		B	439	440	12				TE	0.030AC		
66	MOHLER, EARL, JR. ET UX.	B	441	442	12		10.000AC	0.673AC	TE	0.106AC	A= 9.327AC	
67	MURRAY, KARL ET UX.	B	450	452	12		54.888AC	1.302AC	FS	0.167AC	A= 53.419AC	
67A	ELIMINATED 04/10/68											
67B	ELIMINATED 8/10/67											
68	ADKINS, LOGAN ET UX.	B	452	453	12		0.530AC	0.161AC	TE	0.038AC	A= 0.369AC	
69	WEICHLIN, W. J. ET UX.	B	453	454	12		0.530AC	0.161AC	TE	0.013AC	A= 0.369AC	
70	BRADSHAW, CHARLES	B	454	455	12		0.530AC	0.161AC	FS ACCESS	RTS A= 0.369AC		
71	TURNER, HAROLD	B	455	457	12		1.065AC	0.321AC	FS ACCESS	RTS A= 0.744AC		
72	MCCURTAIN, RANCO	B	351	353	9+27		0.991AC	0.197AC	FS ACCESS	RTS A= 0.794AC		
73	BLUE, FRANK ET UX.	B	447	448	12		1.175AC	0.220AC	TE	0.259AC	A= 0.955AC	0.417AC

REV 6/69 M.W. MYERS
REV 3/1/69 O.W. BEST
REV 5/5/69 O.W. BEST

* (ASTERISK) IN THE BRIDGE COLUMN INDICATES THE PARCEL IS PARTIALLY OR COMPLETELY WITHIN THE LIMITS OF A BRIDGE PROJECT.
* (ASTERISK) IN THE BLDG. COLUMN INDICATES A BUILDING IS PARTIALLY OR COMPLETELY WITHIN THE LIMITS OF THE R/W REQUIRED.
SP CONTR. SALE
ACCESS RTS = ONLY ABUTTERS ACCESS RIGHTS TO BE ACQUIRED
EASMT RTS = CLEARANCE OF PRIVATE EASEMENT WHICH ENCUMBERS THE TAKING
CLEAR RESV = CLEARANCE OF RESERVATION IN OLD GRANT OF EASEMENT
MINERALS = ACQUISITION OF MINERAL RIGHTS FROM OTHER THAN THE FEE OWNER OF THE LAND
LEASEHOLD = RELEASE OF LEASEHOLD INTEREST
CONTR. SALE = RELEASE OF CONTRACT INTEREST
FS = FEE SIMPLE TITLE
TE = TEMPORARY R/W
TB = TEMPORARY R/W FOR BUILDING REMOVAL ONLY
PV = PROVISIONAL R/W
SP = SPECIAL INSTRUMENT FOR CLEARING SPECIAL INTERESTS (QC DEED, SPECIAL R/W GRANT, RELEASE OF LEASEHOLD, ETC.)

LIST OF EXCESS LANDS TO BE ACQUIRED AND A SEGREGATION BY PROJECTS OF RIGHT OF WAY AREAS AND EXCESS LAND AREAS LYING IN TWO OR MORE PROJECTS

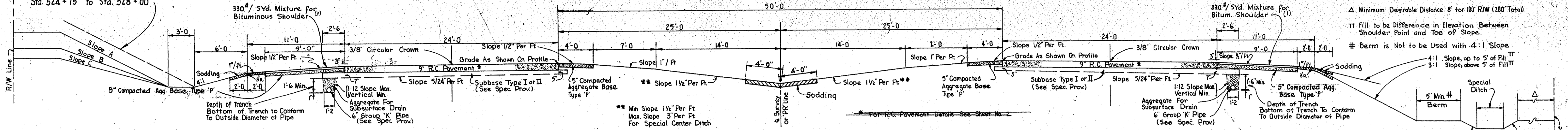
PARCEL NUMERAL	TYPE OF TAKING	LAND TO BE ACQUIRED	PROJECT ST-F-70(9)	PROJECT F-70(14)	PROJECT
1	FS	3.731AC	2.011AC	1.720AC	
2	FS	2.648AC		2.648AC	

FED. ROAD DIV. NO.	STATE	SP-F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(2)	1964	2	

SPECIAL 2:1 FILL SLOPES ON RT.
Sta. 352 + 70 to Sta. 353 + 00
Sta. 405 + 74 to Sta. 413 + 00

SPECIAL 2:1 FILL SLOPES ON LT.
Sta. 420 + 00 to Sta. 424 + 00
Sta. 455 + 00 to Sta. 456 + 55
Sta. 464 + 00 to Sta. 468 + 40
Sta. 529 + 00 to Sta. 533 + 43

NOTE: A Special V Ditch With 2:1 Backslope is Req'd. on Left From Sta. 524+75 to Sta. 528+00



TYPICAL CROSS SECTION ON TANGENT AND CURVES LESS THAN 0° 15'

STA. 260+00 TO STA. 275+00 LINE B
STA. 322+00 TO STA. 324+67.02 LINE B
STA. 324+67.02 TO STA. 392+65.80 PR I
STA. 403+35.38 TO STA. 409+16.76 PR I
STA. 419+85.08 TO STA. 438+00 LINE B
STA. 455+00 TO STA. 537+00 LINE B
STA. 564+00 TO STA. 570+10 LINE B
STA. 14+06.7 TO STA. 19+50 LINE A

BITUMINOUS CURB & SHOULDER ON RT.

STA. 403 + 50 TO STA. 409 + 16.76 PR I
STA. 464 + 50 TO STA. 469 + 50 LINE B
STA. 495 + 00 TO STA. 499 + 75 LINE B
STA. 569 + 00 TO STA. 570 + 10 LINE B

BITUMINOUS CURB & SHOULDER ON LT.

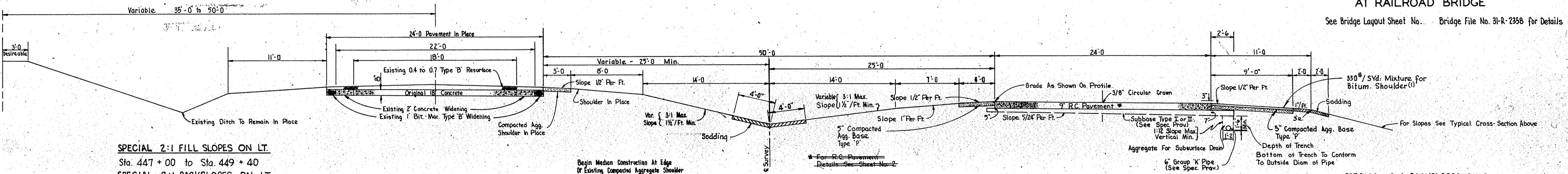
STA. 403 + 50 TO STA. 407 + 00 PR #1
STA. 455 + 00 TO STA. 457 + 00 LINE B
STA. 463 + 35 TO STA. 468 + 50 LINE B
STA. 497 + 00 TO STA. 504 + 50 LINE B
STA. 14 + 06.7 TO STA. 15 + 50 LINE A

Note:
Slope A: 2:1 (For Cut of 11'-6" and Over) 100' R/W
Slope B: Slope Variable From Ditch Line to a Point From 100' R/W (Cut 3'-9" to 11'-6")
Slope C: 4:1 (Up to 5'-9" of Cut) 100' R/W

Δ Minimum Desirable Distance 8' for 100' R/W (200' Total)
TT Fill to be Difference in Elevation Between Shoulder Point and Toe of Slope.
Berm is Not to be Used with 4:1 Slope
4:1 Slope, up to 5' of Fill
3:1 Slope, above 5' of Fill

SHOULDER TREATMENT AT RAILROAD BRIDGE

See Bridge Layout Sheet No. Bridge File No. 31-R-2358 for Details



TYPICAL CROSS SECTION SHOWING EXISTING PAVEMENT

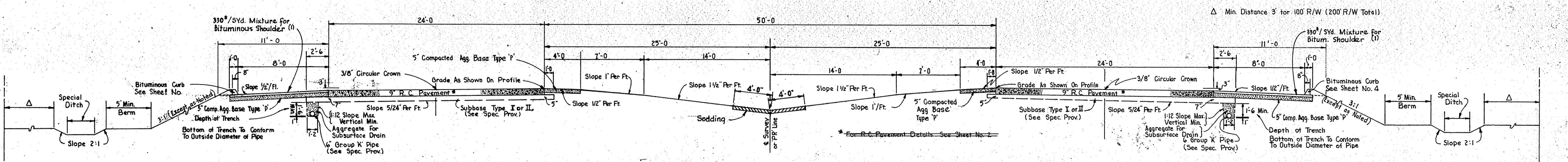
STA. 254+18 TO STA. 260+00 LINE B
STA. 275+00 TO STA. 322+00 LINE B
STA. 438+00 TO STA. 455+00 LINE B (REVERSE)
STA. 537+00 TO STA. 564+00 LINE B

SPECIAL 2:1 FILL SLOPES ON LT.
Sta. 447 + 00 to Sta. 449 + 40
SPECIAL 2:1 BACKSLOPES ON LT.
Sta. 292 + 00 to Sta. 293 + 00

BITUMINOUS CURB & SHOULDER ON LT.

STA. 446 + 65 TO STA. 455 + 00 LINE B

SPECIAL 3:1 BACKSLOPES ON RT.
Sta. 541 + 00 to Sta. 543 + 40

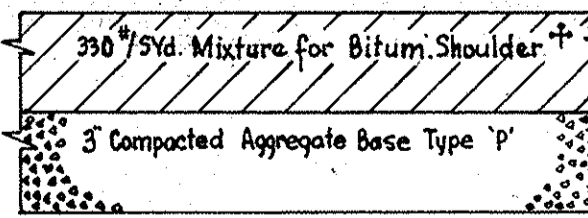
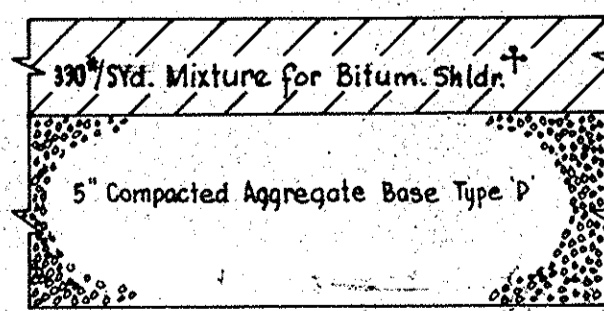


TYPICAL CROSS SECTION WITH BITUMINOUS CURB & BITUMINOUS SHOULDER

See Notes On Typical Cross Sections Above And On Next Sheet And On Plan & Profile Sheets for Locations

NOTE: (1) 330#/Syd. Mixture for Bituminous Shoulder. Composed of Either:
(1) 90#/Syd. H.A.C. Surface Type 'B' on 240#/Syd. H.A.C. Base.
(2) 90#/Syd. Bitum. Coated Blended Agg. Surf. Type III on 240#/Syd. Bitum. Coated Blended Agg. Base

(3) Where Bituminous Shoulder is Called for in the Plans a Mailbox Approach Will Not be Required. Where Compacted Agg. Base for Shldr. is called for in the Plans the Top 3" Shall be Bituminous Mixture for Approaches.



TYPICAL CROSS SECTIONS

SCALE: 3/16" = 1' - 0"

PUBLIC ROAD APPROACH & COMMERCIAL DRIVE

NOT TO SCALE

PRIVATE DRIVE, MAILBOX APPROACH AND PRIVATE DRIVE CROSSOVER

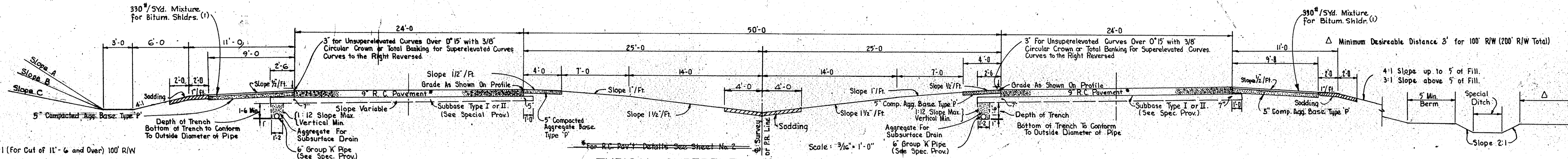
NOT TO SCALE

RECOMMENDED FOR APPROVAL

ENGINEER OF ROAD DESIGN - IND. STATE HIGHWAY COMM.

PROJ. NO.	LINE	SHEET NO.	FILE
F-70(2)		2	

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F 70(9)	1964	3	

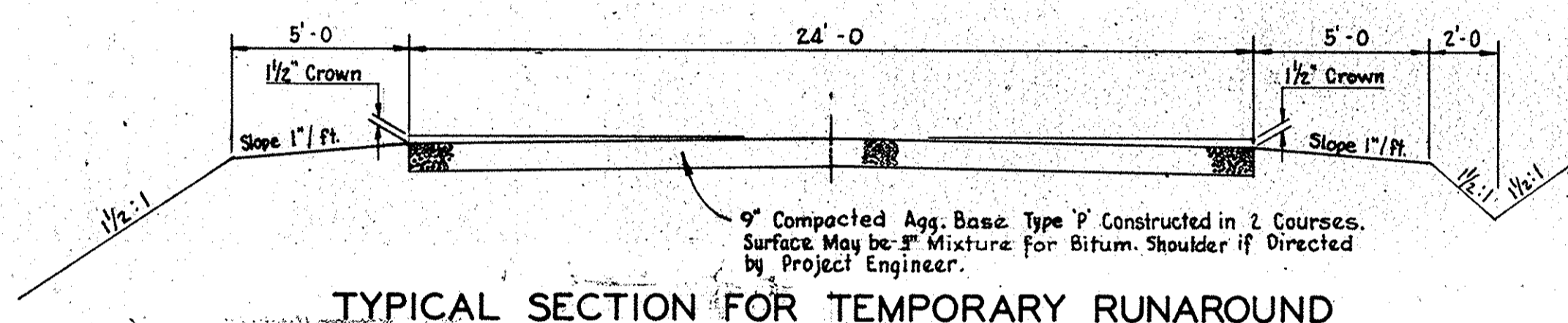


NOTE:
Slope A: 2:1 (For Cut of 11'-6" and Over) 100' R/W
Slope B: Slope Variable from Ditch Line to a Point 8' from 100' R/W (Cut 5'-9" to 11'-6")
Slope C: 4:1 (Up to 5'-9" of Cut) 100' R/W

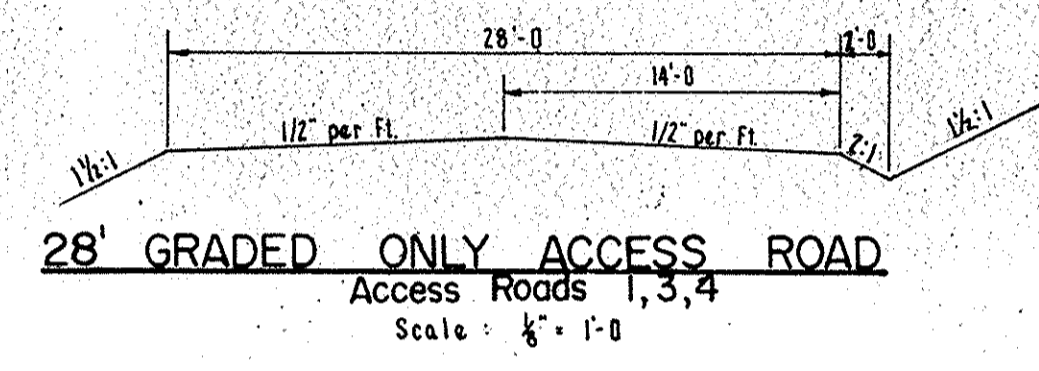
BITUMINOUS CURB & SHOULDER ON LT.
STA. 12 + 25 TO STA. 14 + 06.7 LINE A

TYPICAL SUPERELEVATED CROSS SECTION OF CURVES TO THE LEFT 0°15' AND MORE AND FOR CURVES TO THE RIGHT REVERSE
STA. 392+65.8 TO STA. 403+35.38 PR I
STA. 409+16.76 TO STA. 419+87.32 PR I
STA. 0+00.0 TO STA. 14+06.7 LINE A

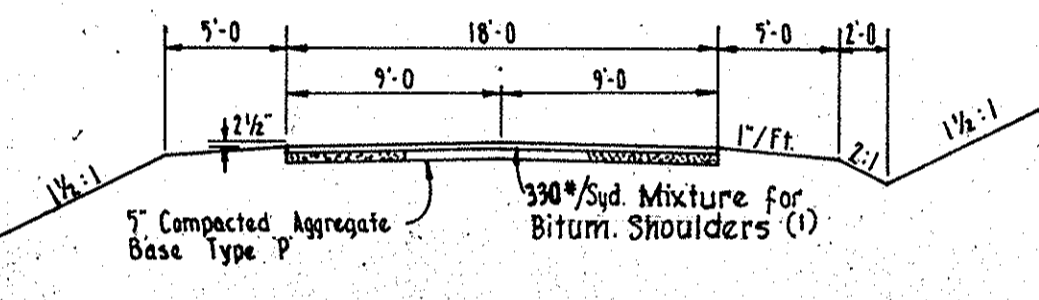
BITUMINOUS CURB & SHOULDER ON RT.
STA. 409 + 16.76 TO STA. 413 + 00 PR #1
STA. 0 + 00 TO STA. 10 + 70 LINE A



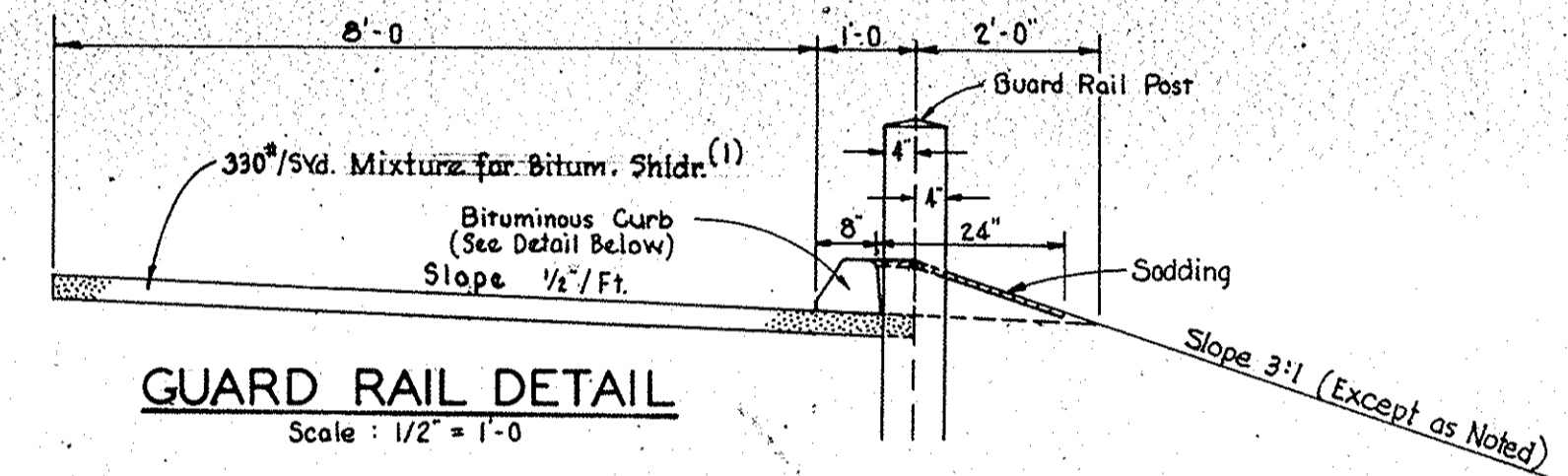
TYPICAL SECTION FOR TEMPORARY RUNAROUND
Scale: 1/4" = 1'-0"



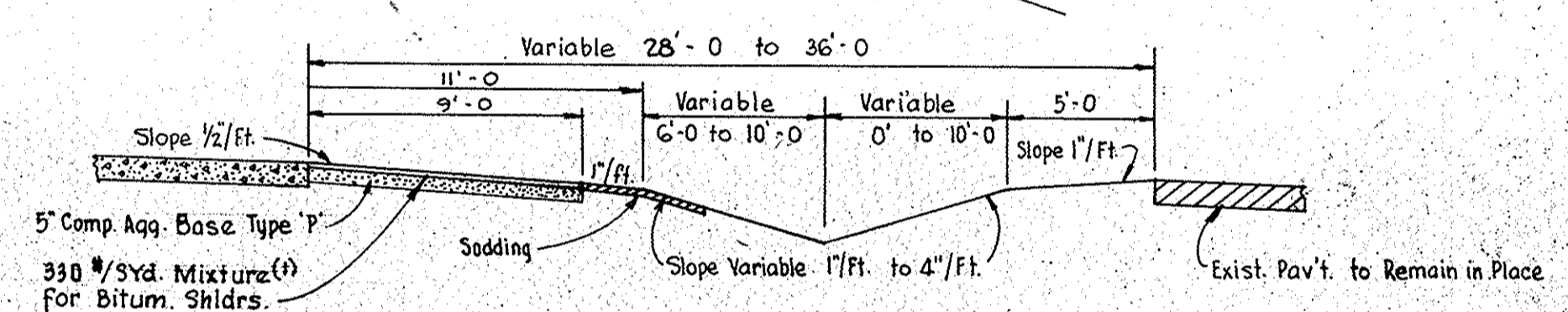
28' GRADED ONLY ACCESS ROAD
Access Roads 1, 3, 4
Scale: 1/8" = 1'-0"



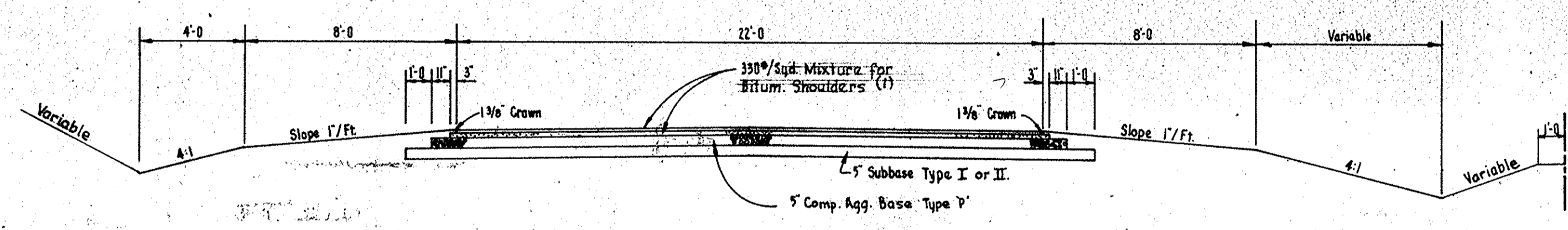
18' BITUMINOUS ACCESS OR FRONTAGE ROAD
Access Roads 2, 5, 6, 7, 8 & 9
Frontage Road 2
Scale: 1/8" = 1'-0"



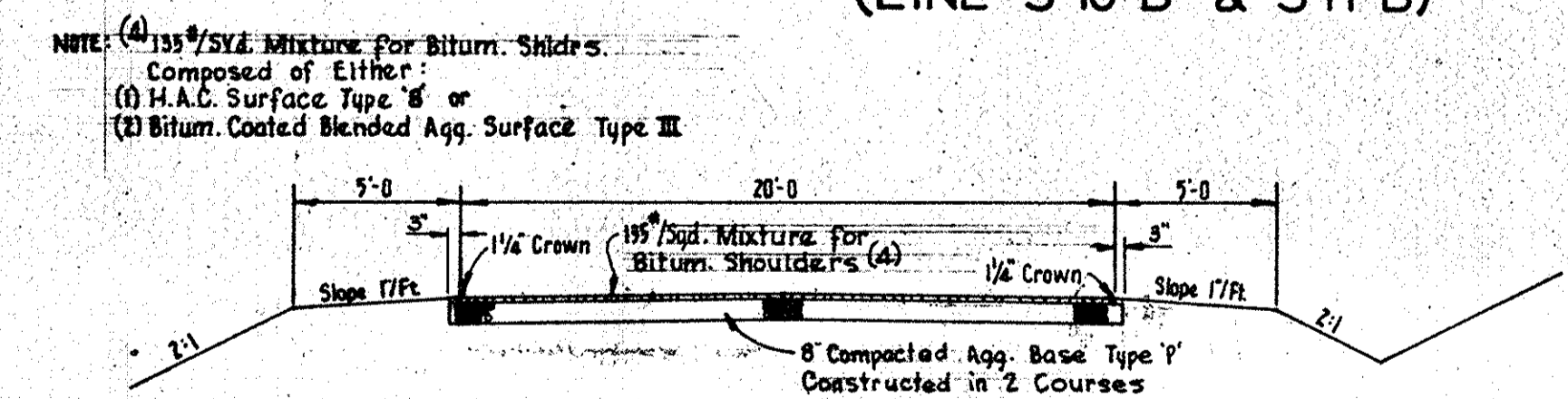
GUARD RAIL DETAIL
Scale: 1/2" = 1'-0"



TYPICAL SECTION ON RT. STA. 376 + 75 TO STA. 383 + 00

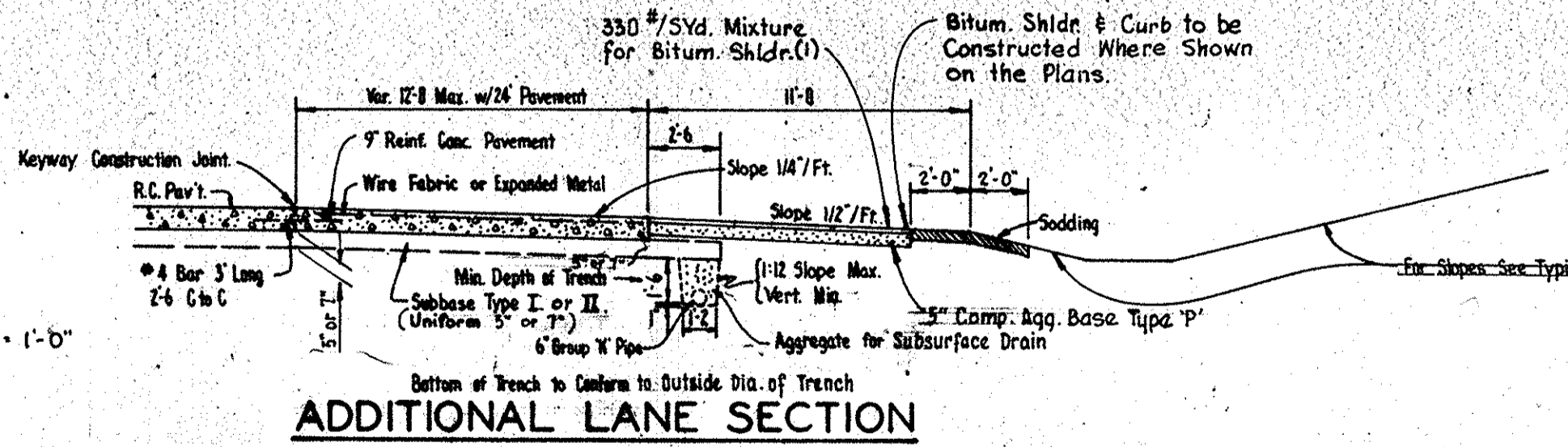


TYPICAL SECTION FOR S.R. 218 (LINE S-10-B & S-11-B)
Scale: 1/4" = 1'-0"

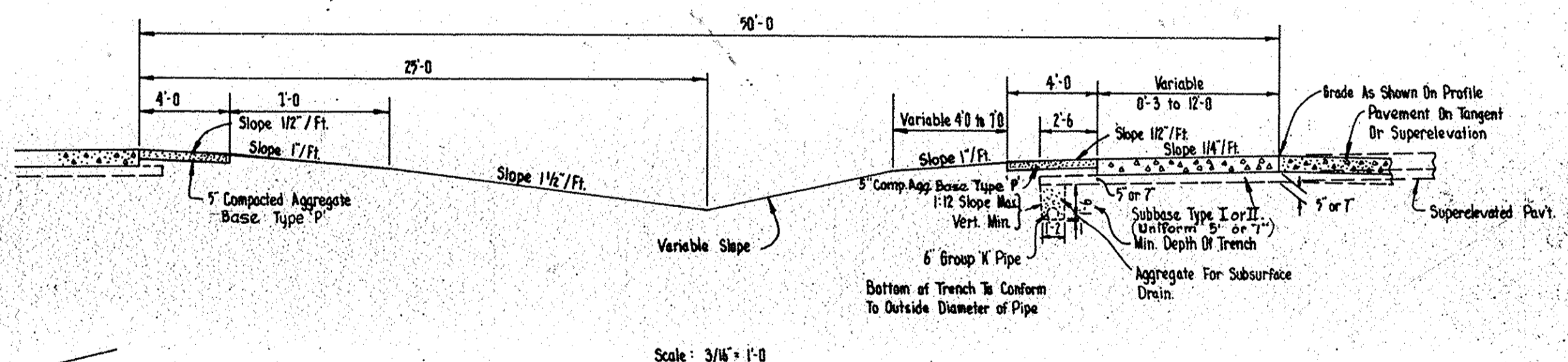


TYPICAL SECTION FOR P.R. LINE NO. 2
Scale: 3/16" = 1'-0"

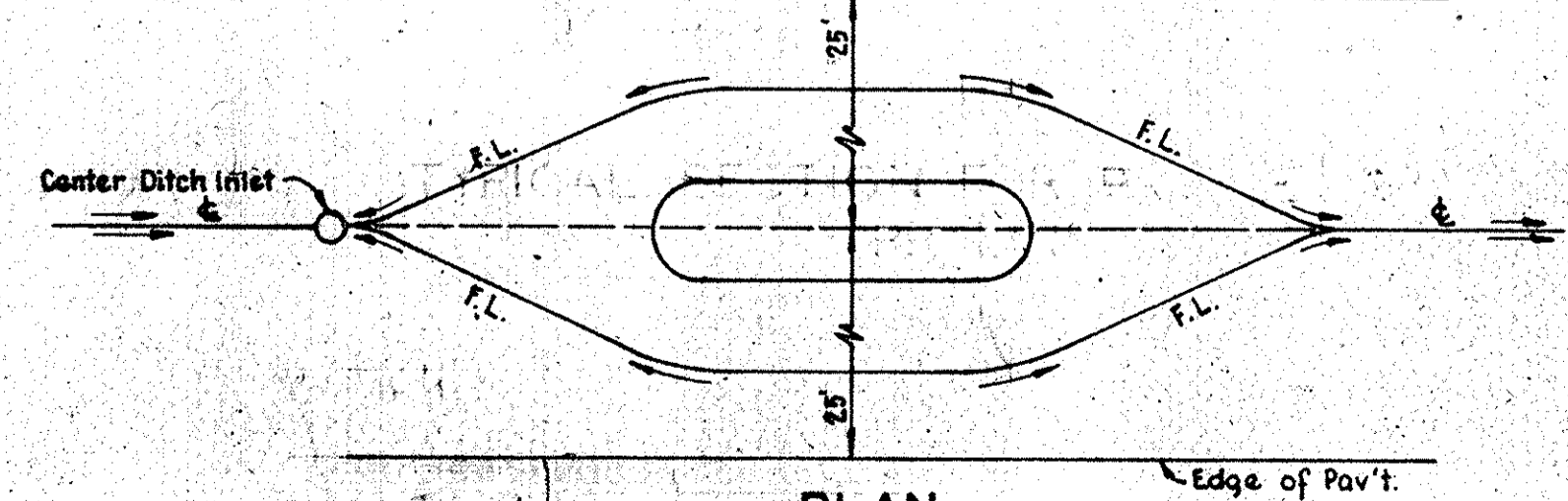
NOTE: (1) 330#/Svd. Mixture for Bitum. Shoulder Composed of Either:
(1) 90#/Sq. Yd. H.A.C. Surface Type 'B' on 240#/Sq. Yd. H.A.C. Base.
(2) 90#/Sq. Yd. Bitum. Coated Blended Agg. Surface Type III on 240#/Sq. Yd. Bitum. Coated Blended Agg. Base.



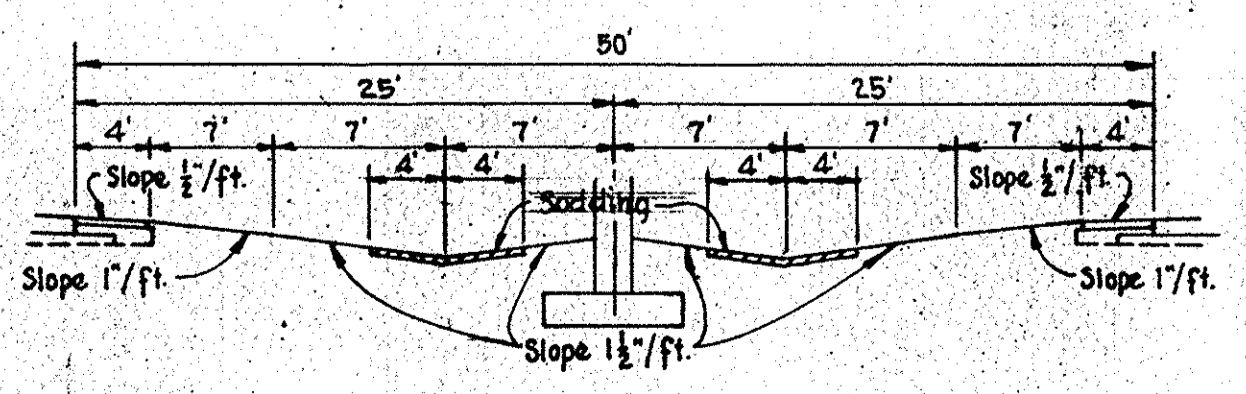
ADDITIONAL LANE SECTION



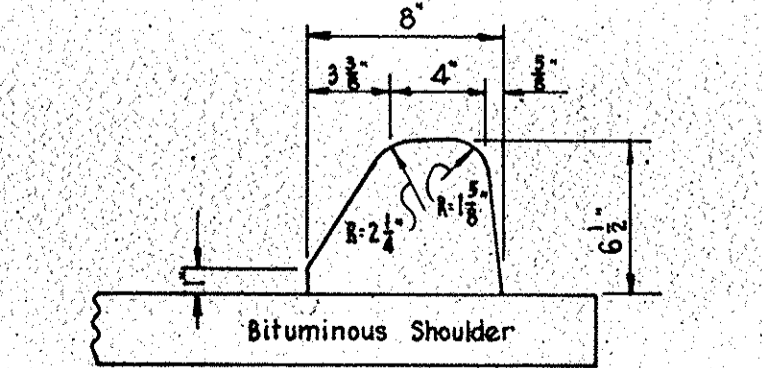
TYPICAL SECTION WITH LT. TURN LANE
Scale: 3/16" = 1'-0"



PLAN
MEDIAN DITCH TREATMENT WHERE CENTER PIER IS CONSTRUCTED
Not to Scale



SECTION



BITUMINOUS CURB DETAIL
Scale: 1 1/2" = 1'-0"

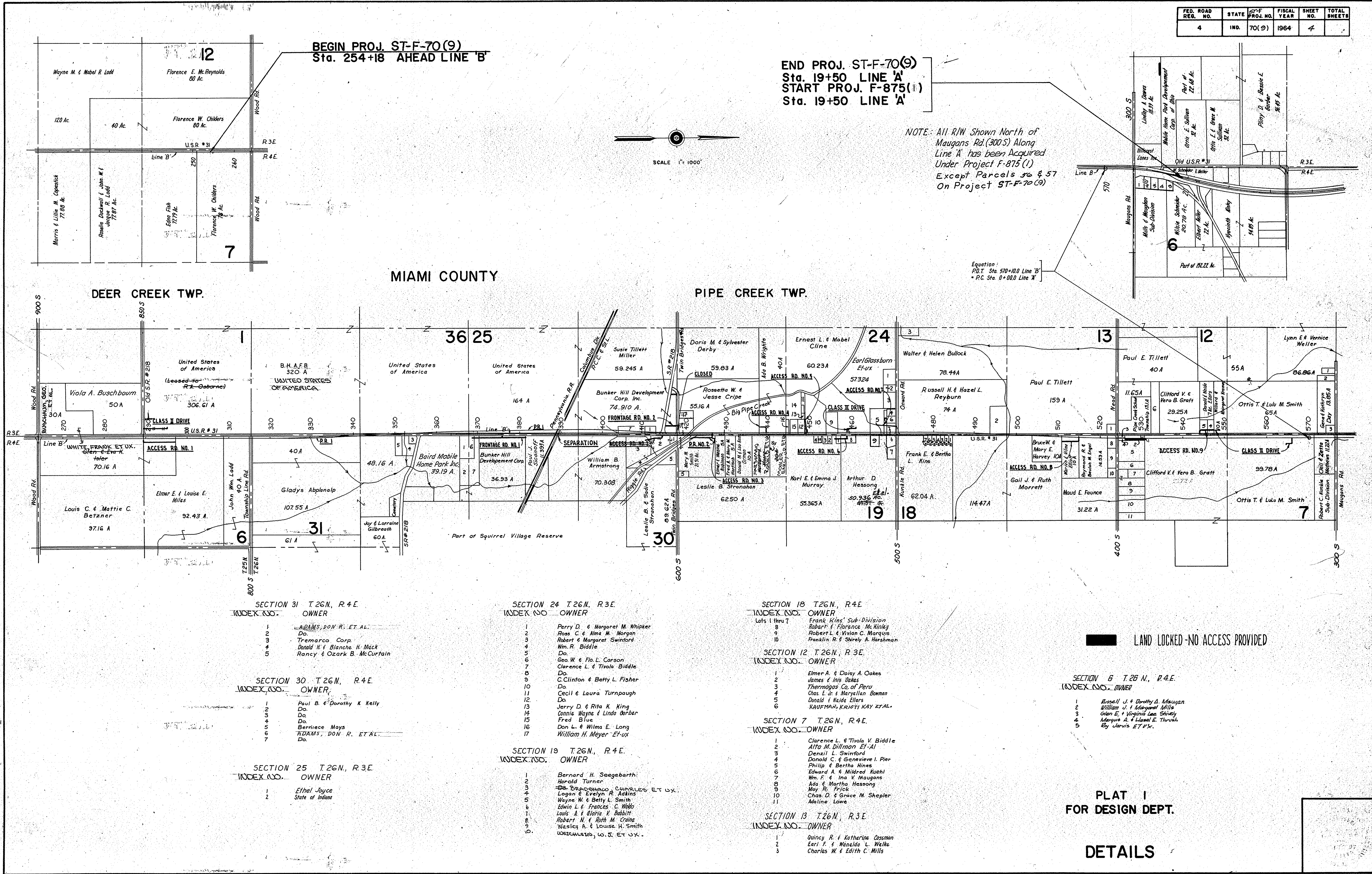
TYPICAL CROSS SECTIONS

SCALE: AS SHOWN

RECOMMENDED FOR APPROVAL _____

PROJ. NO.	LINE	SHEET NO.	FILE
F-70(9)		3	

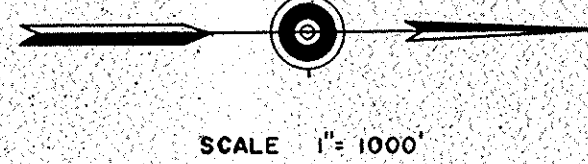
FED. ROAD REG. NO.	STATE	ST-F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(9)	1964	4	



BEGIN PROJ. ST-F-70(9)
 Sta. 254+18 AHEAD LINE 'B'

END PROJ. ST-F-70(9)
 Sta. 19+50 LINE 'A'
 START PROJ. F-875(1)
 Sta. 19+50 LINE 'A'

NOTE: All R/W Shown North of
 Maugans Rd. (300 S) Along
 Line 'A' has been Acquired
 Under Project F-875(1)
 Except Parcels 30 & 37
 On Project ST-F-70(9)



Equation:
 P.O.T. Sta. 570+10.0 Line 'B'
 = P.C. Sta. 6+00.0 Line 'A'

MIAMI COUNTY

DEER CREEK TWP.

PIPE CREEK TWP.

- SECTION 31 T26N, R4E
 INDEX NO. OWNER
- 1 ADAMS, DON R. ET AL.
 - 2 Do.
 - 3 Tremarco Corp.
 - 4 Donald H. & Blanche H. Mack
 - 5 Rancy & Ozark B. McCurtain

- SECTION 30 T26N, R4E
 INDEX NO. OWNER
- 1 Paul B. & Dorothy K. Kelly
 - 2 Do.
 - 3 Do.
 - 4 Berniece Mays
 - 5 ADAMS, DON R. ET AL.
 - 6 Do.
 - 7 Do.

- SECTION 25 T26N, R3E
 INDEX NO. OWNER
- 1 Ethel Joyce
 - 2 State of Indiana

- SECTION 24 T26N, R3E
 INDEX NO. OWNER
- 1 Perry D. & Margaret M. Whipker
 - 2 Ross C. & Alma M. Morgan
 - 3 Robert & Margaret Swinford
 - 4 Wm. R. Biddle
 - 5 Do.
 - 6 Geo. W. & Flo. L. Carson
 - 7 Clarence L. & Tivola Biddle
 - 8 Do.
 - 9 C. Clinton & Betty L. Fisher
 - 10 Do.
 - 11 Cecil & Laura Turnpaugh
 - 12 Do.
 - 13 Jerry D. & Rita K. King
 - 14 Connie Wayne & Linda Barber
 - 15 Fred Blue
 - 16 Don L. & Wilma E. Long
 - 17 William H. Meyer ET UX

- SECTION 19 T26N, R4E
 INDEX NO. OWNER
- 1 Bernard H. Seegebarth
 - 2 Harold Turner
 - 3 Do. & Frances C. CAMPBELL ET UX.
 - 4 Logan & Evelyn R. Adkins
 - 5 Wayne W. & Betty L. Smith
 - 6 Edwin L. & Frances C. Webb
 - 7 Louis A. & Gloria V. Bobbitt
 - 8 Robert N. & Ruth M. Craine
 - 9 Wesley A. & Louise H. Smith
 - 10 WETZELSON, W. J. ET UX.

- SECTION 18 T26N, R4E
 INDEX NO. OWNER
- 1 Lots 1 thru 7
 - 2 Frank King Sub-Division
 - 3 Robert & Florence McKinley
 - 4 Robert L. & Vivian C. Marquis
 - 5 Franklin R. & Shirley A. Harshman

- SECTION 12 T26N, R3E
 INDEX NO. OWNER
- 1 Elmer A. & Daisy A. Oakes
 - 2 James & Inis Oakes
 - 3 Thermagas Co. of Peru
 - 4 Chas. E. & Maryellen Bowman
 - 5 Donald & Helde Ellers
 - 6 KRAUFMAN, KRISTY KAY ET AL.

- SECTION 7 T26N, R4E
 INDEX NO. OWNER
- 1 Clarence L. & Tivola V. Biddle
 - 2 Alta M. Dillman ET AL
 - 3 Daniel L. Swinford
 - 4 Donald C. & Genevieve I. Pier
 - 5 Phillip & Bertha Hines
 - 6 Edward A. & Mildred Kuehl
 - 7 Wm. F. & Ina V. Maugans
 - 8 Ada & Martha Hessong
 - 9 May R. Frick
 - 10 Chas. D. & Grace M. Shepler
 - 11 Adaline Lowe

- SECTION 13 T26N, R3E
 INDEX NO. OWNER
- 1 Quincy R. & Katherine Orssman
 - 2 Earl F. & Wanda L. Welke
 - 3 Charles W. & Edith C. Mills

LAND LOCKED-NO ACCESS PROVIDED

- SECTION 6 T26N, R4E
 INDEX NO. OWNER
- 1 Russell J. & Dorothy A. Maugans
 - 2 William J. & Margaret Miller
 - 3 Glen E. & Virginia Lee Shively
 - 4 Marjorie A. & Loyal E. Thrush
 - 5 Roy Jarvis ET UX.

PLAT I
 FOR DESIGN DEPT.

DETAILS

PROJ. NO.	LINE	SHEET NO.	FILE
F-70(9)		4	

Field Entrance X-Over
 Reg'd @ Sta. 237+76
 NOT INCLUDED IN THIS CONTRACT

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-70(9)	1964	5	

SECTION 12
 T.25N. R.3E.
 DEER CREEK TWP.
 MIAMI CO.

TYPE I CROSSOVER REQ'D
 See Details On Plan Sheet No. 25

SECTION 7
 TWP. 25N. R.4E.
 DEER CREEK TWP.
 MIAMI CO.

For Crossover Pavement Grades See Plan Sheet No. 24
 For Crossover Detail See Plan Sheet No. 27

ALL R/W ON THIS SHEET
 TO BE AS SHOWN. LIMITED
 ACCESS PROVISIONS TO
 APPLY WHERE INDICATED.

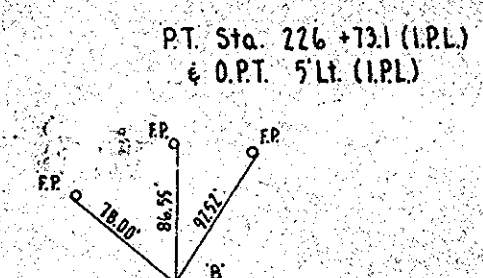
GENERAL NOTES

- Standard Pavement Section E-II-IR, Revised B-II-61, As Shown On Sheet No. 2. To Be Used On This Project.
- Typical Cross Sections As Shown On Sheet Nos. 3 & 4 To Be Used On This Project.
- S.H.D. of I. Standard Specifications Dated 1963 To Be Used With These Plans.
- Standards Under Dates Listed In Index To Be Used With These Plans.
- Grade Line As Shown On Profile Represents Top Of Finished Surface At Median Edge Of Pavement.
- All Ditches Of 1% And Over Shall Be Sodded Except Where P.S.D. Is To Be Constructed.
- Entire Width Of R/W Not Paved Or Sodded Shall Be Plain Or Mulched Seeded.
- Shoulders Are To Be Sodded As Shown On Misc. Std. Sheet #1.
- Sodding Shall Be Placed Along P.S.D. As Shown On Misc. Std. Sheet #1.
- Quantities For Pipe Culvert Headwalls Are Based On Using Std. Headwalls For Retaining 2:1 & 3:1 Slopes & Private Drive Headwalls For Retaining 4:1 Slopes. For Kinds Of Pipes Permitted For Each Size And Classification As Shown In Structure Notes, See Misc. Std. Sheets #2 And #3.
- Curves Shall Be Super-elevated According To The Standards Of Jan. 1961
- Excavation Quantities As Shown On P & P Sheets Includes Estimated Earthwork For Private Drives And Public Road Approaches.
- All L.A.R/W To Be Fenced With F.F.T.F., C.L.T.F. Or C.L.S.F. Security Fence As Specified In The Plans.
- All County Roads To Be Turned Back To County Beyond R/W Markers.
- All Private & Commercial Drive Crossovers To Be Surfaced With Bituminous Material For Approaches As Shown On Typical Cross Sections.
- Paper Relocations To Be Cross Sectioned By The Project Engineer Before Construction.
- Location Of Subsurface Drain Shown On Sheet No. 33
- The Minimum Grade For Subsurface Drains Shall Be 0.20%. Where The Profile Grade Is Less Than 0.20%, Special Grades For Subsurface Drains Shall Be Established By The Engineer.
- The Final Cross Sections Of The "Bridge Grading Contract" Shall Be The Original Cross Sections Of The "Paving Contract."
- The Contractor Must Accept The Plan Quantity Of Subbase As Given On The "Estimate Of Quantities Sheet" (See Special Provisions)

PLAN
 CHECKED BY: CHAS. W. COLE & SON
 DATE: SEPT. 64
 DRAWN BY: CHAS. W. COLE & SON
 DATE: SEPT. 64
 NO. 9180

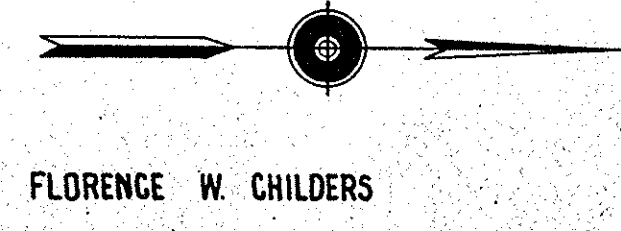
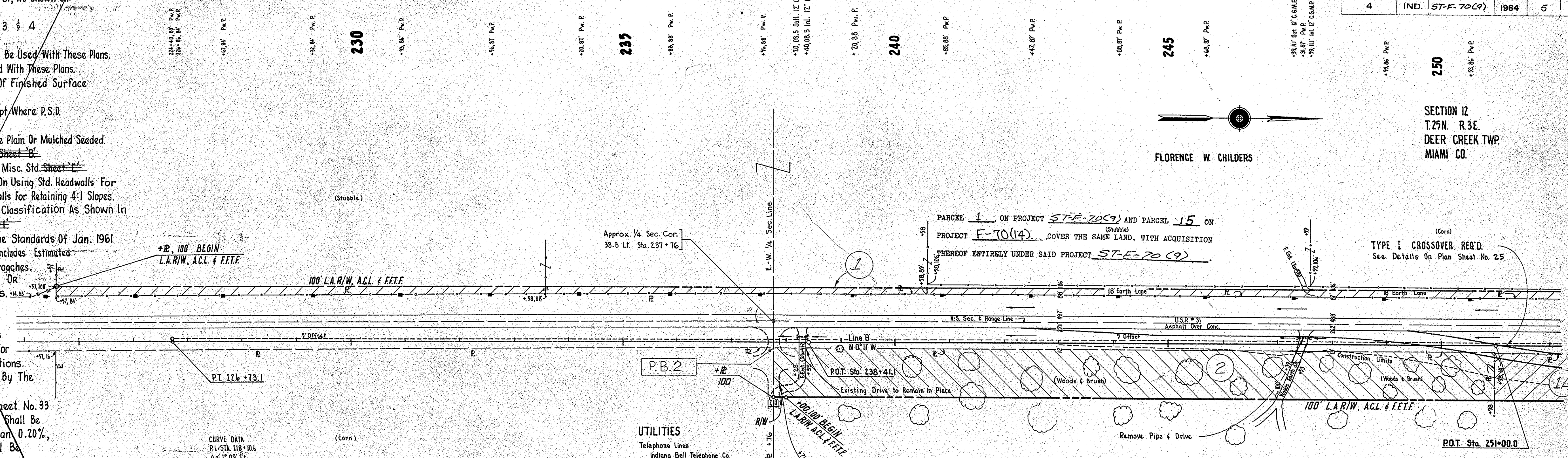
PROFILE
 CHECKED BY: CHAS. W. COLE & SON
 DATE: SEPT. 64
 DRAWN BY: CHAS. W. COLE & SON
 DATE: SEPT. 64
 NO. 9180

- LEGEND:**
- R/W - Right of Way
 - L.A.R/W - Limited Access Right of Way
 - A.C.L. - Access Control Line
 - F.F.T.F. - Farm Field Type Fence
 - C.L.T.F. - Chain Link Type Fence
 - C.L.S.F. - Chain-Link Security Fence
 - [Hatched Box] - Pavement Breaking
 - [Dashed Box] - Pavement Removal

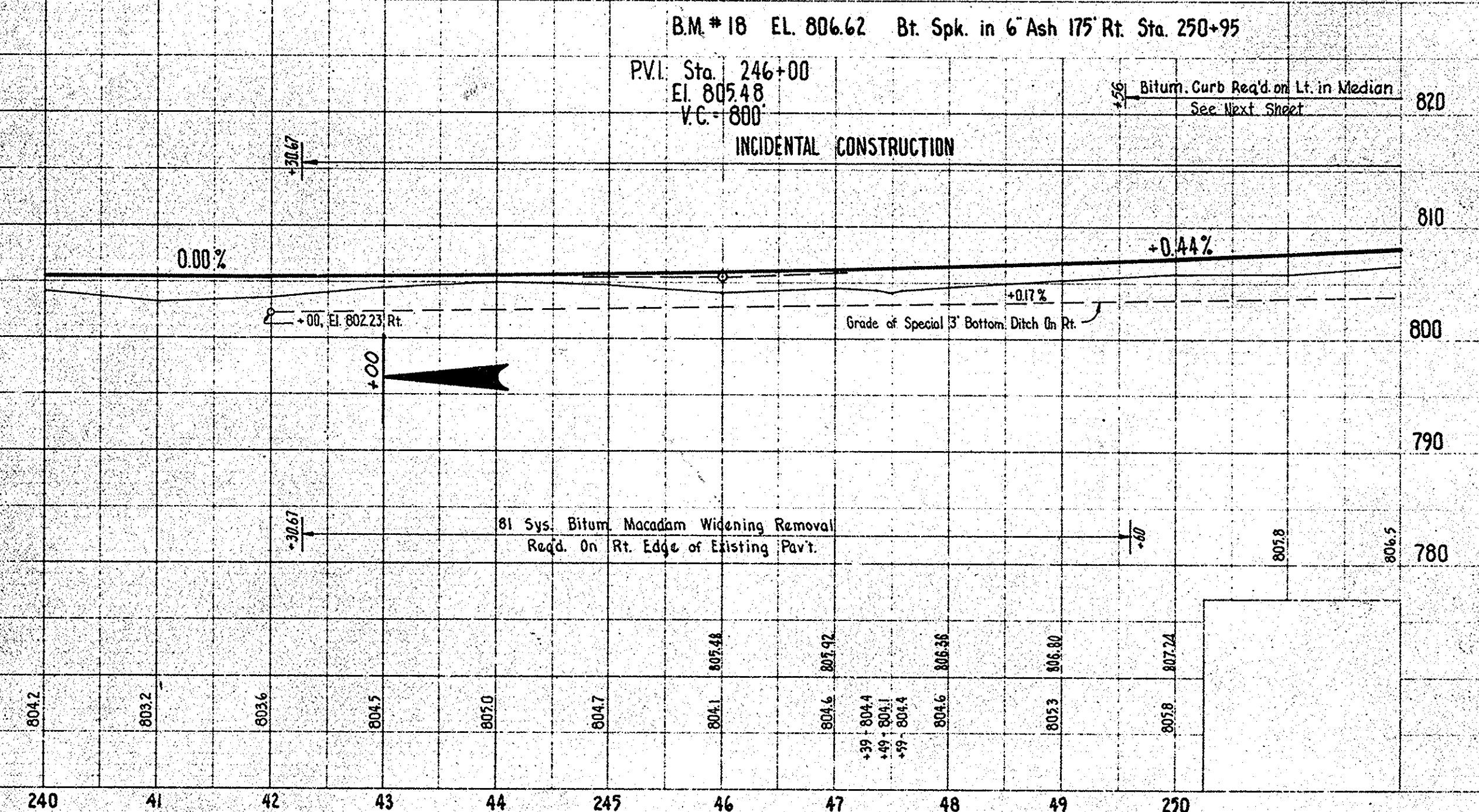


UTILITIES

- Telephone Lines**
 Indiana Bell Telephone Co.
 20 N. Main, Peru, Ind.
 Ph. SR. 3-4401
 Owns All Lines Shown
- Power Lines**
 Peru Power & Light Co.
 19 E. 3rd St.
 Peru, Ind.
 Owns All Power Poles Not Designated Below for R.E.M.C. & P.S.C.I.
- Miami-Cass Co. R.E.M.C.
 916 W. Main St.
 Peru, Ind.
 Sta. 414+17, 34 Lt. Lamp Pole
 Sta. 414+42, 34 Lt. Pole
 Poles @ Sta. 417+98, 32 Lt. & Sta. 418+78, 48 Lt. Crosses @ Sta. 418+78
- Public Service Co. of Ind.
 Owns Power Poles Sta. 45-95
 Line S-12-B' & Pole 115' Lt. Sta. 471+47
 & 4 Wire Power Line Crosses @ Sta. 471+49



FLORENCE W. CHILDERS

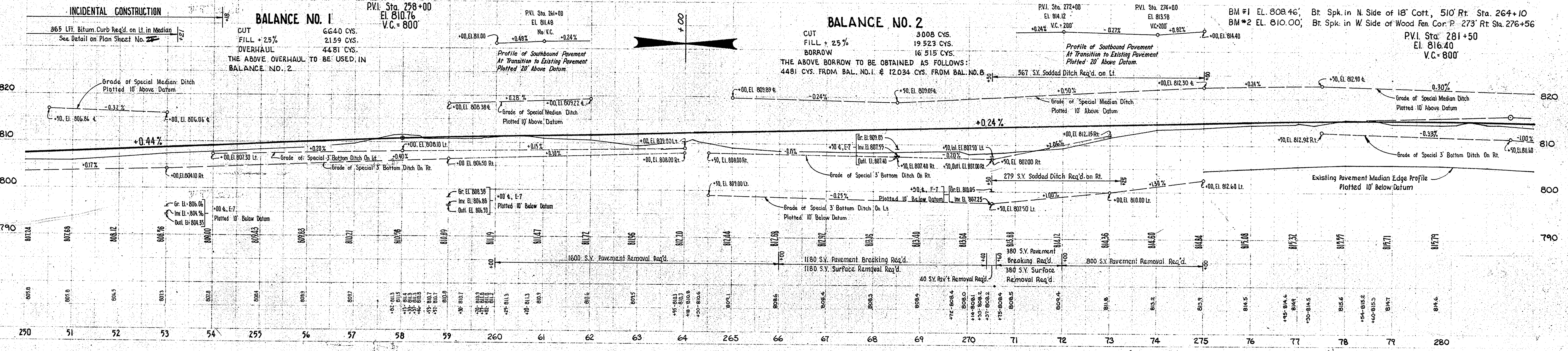
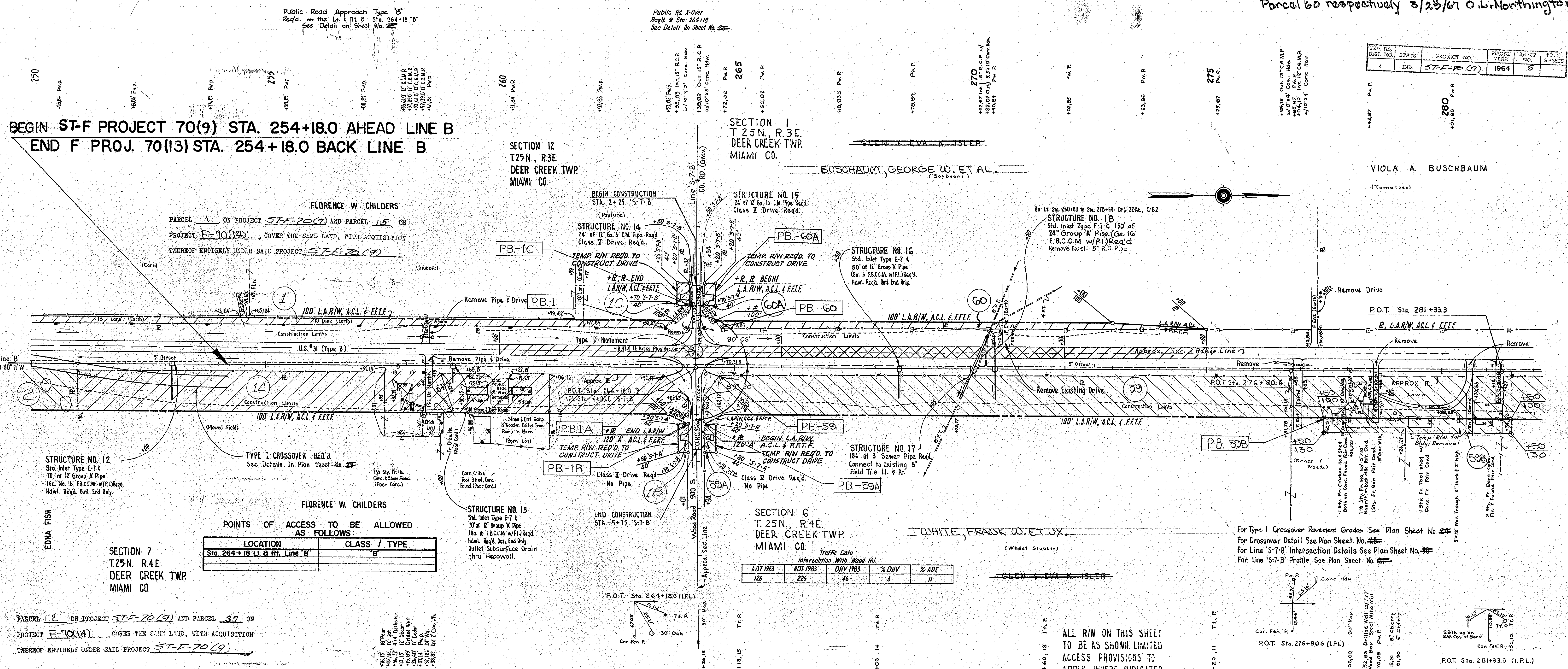


PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F 70(9)	B	5		

10/1/65

Sta. 280+00, Rt. Added Temp. R/W; 4-22-66; J.M. Farrar
 Parcel 3 and Parcel 3A changed to Parcel 59 and
 Parcel 60 respectively 3/23/67 O.W. Northington

FISCAL YEAR	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1964	57-F-70(9)	6	6



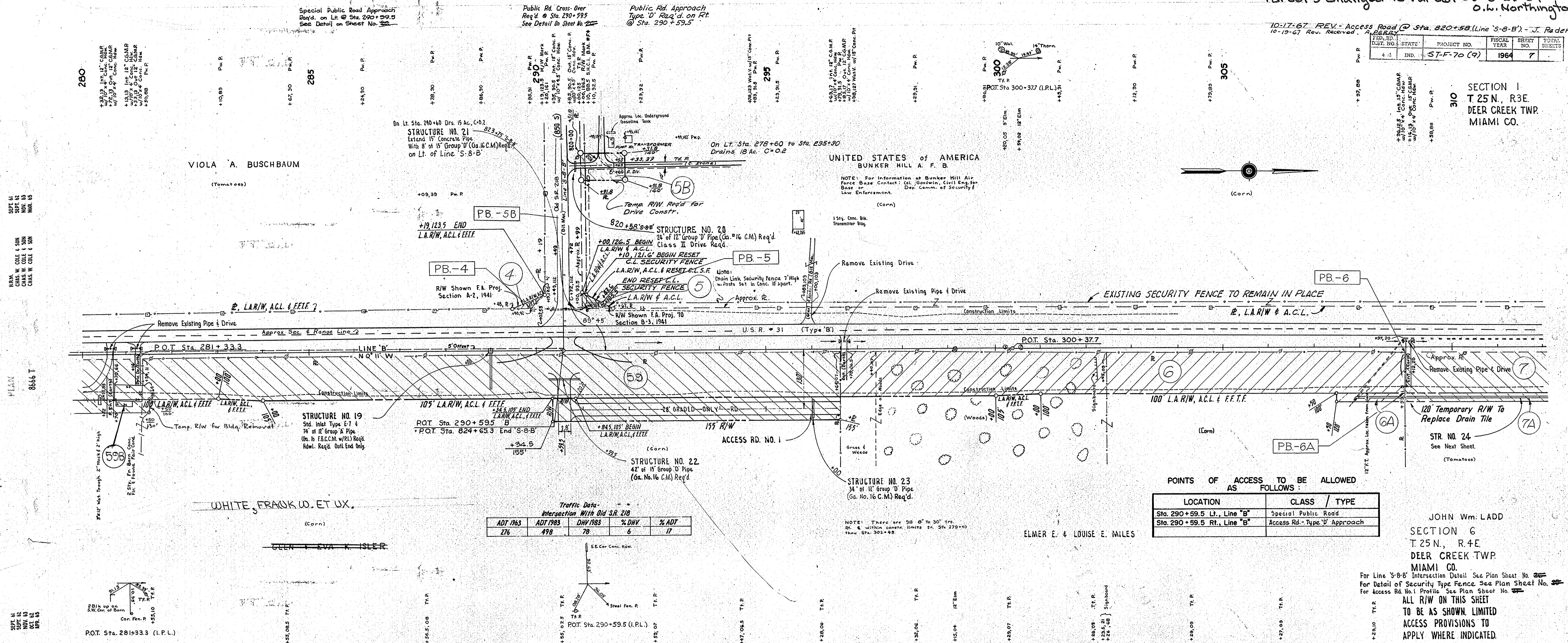
Handwritten notes and signatures at the bottom right of the page.

Sta. 280+00, Rt.; Added Temp. R/W; 4-22-66; J. Farrar
 Sta. 291+50, Lt.; Added Temp. R/W; 4-22-66; J. Farrar
 Parcel 3 changed to Parcel 5 3-29-67
 O.W. Northington

10-17-67 REV - Access Road @ Sta. 820+58 (Line 'S-B-B') - J. Rader - Road Design
 10-19-67 Rev. Received: A. BERRY

DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
44	IND.	ST-F-70 (9)	1964	7	

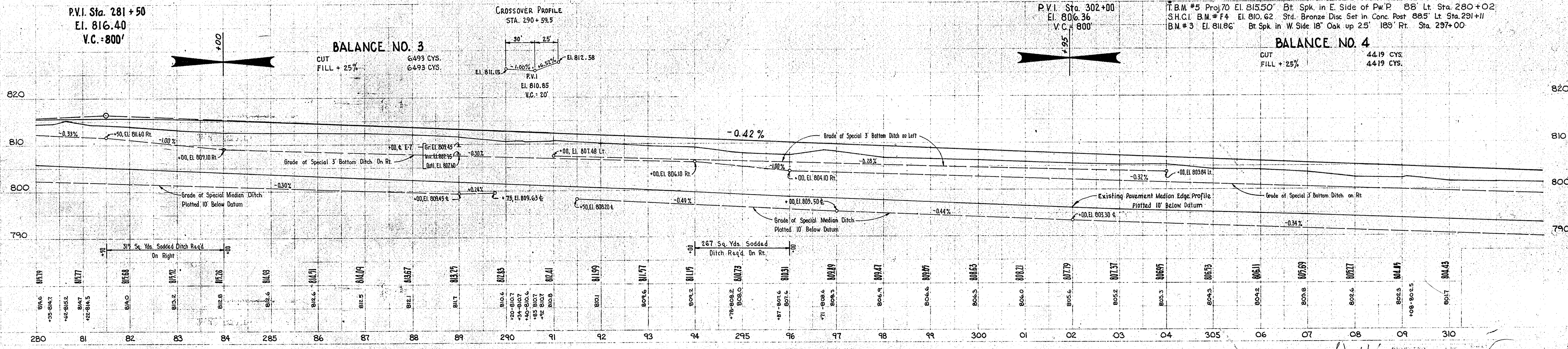
SECTION 1
 T 25 N, R 3 E
 DEER CREEK TWP.
 MIAMI CO.



POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS:

LOCATION	CLASS / TYPE
Sta. 290+59.5 Lt., Line "B"	Special Public Road
Sta. 290+59.5 Rt., Line "B"	Access Rd. - Type 'D' Approach

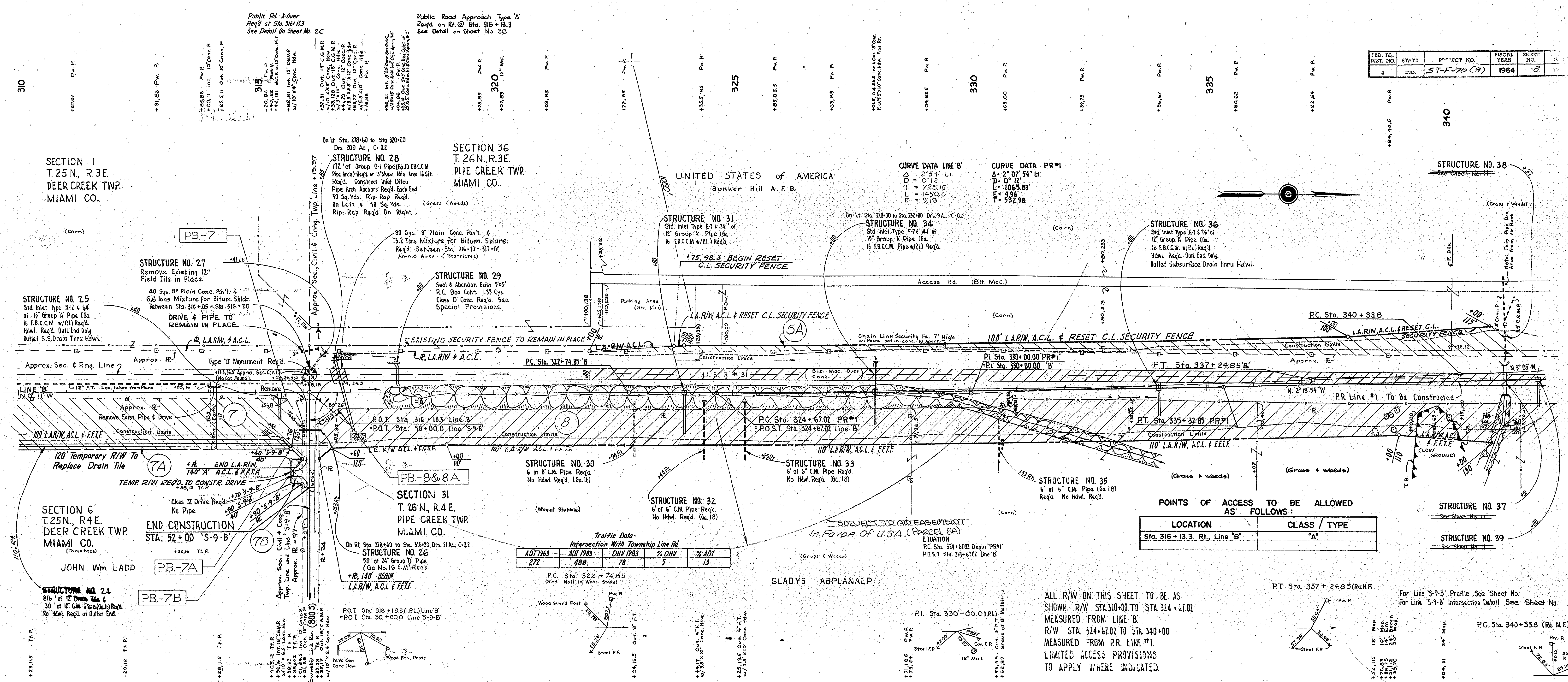
JOHN Wm. LADD
 SECTION 6
 T 25 N, R 4 E
 DEER CREEK TWP.
 MIAMI CO.
 For Line 'S-B-B' Intersection Detail See Plan Sheet No. 22
 For Detail of Security Type Fence See Plan Sheet No. 22
 For Access Rd. Wall Profile See Plan Sheet No. 22
 ALL R/W ON THIS SHEET
 TO BE AS SHOWN. LIMITED
 ACCESS PROVISIONS TO
 APPLY WHERE INDICATED.



10/11/65
 F-70.g.

FED. DIST. NO.	STATE	FISCAL YEAR	SHEET NO.
4	IND.	1964	8

SEPT 61
H.R.M. W. COLE & SON
CHAS. W. COLE & SON
CHAS. W. COLE & SON
MAY 63

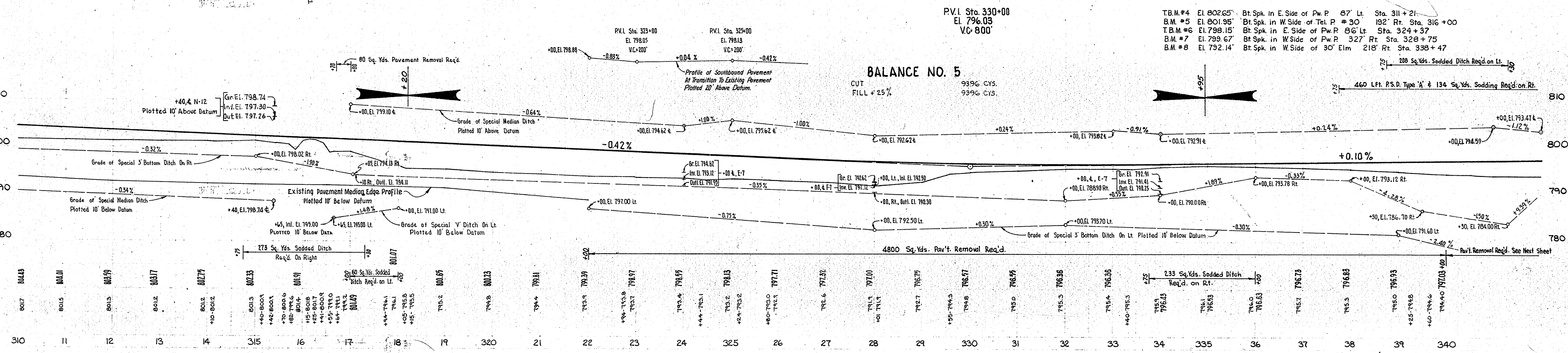


Traffic Data - Intersection With Township Line Rd.

ADT 1963	ADT 1963	DHV 1963	% DHV	% ADT
272	488	78	5	13

POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS:

LOCATION	CLASS / TYPE
Sta. 316 + 13.3, Rt. Line 'B'	'A'

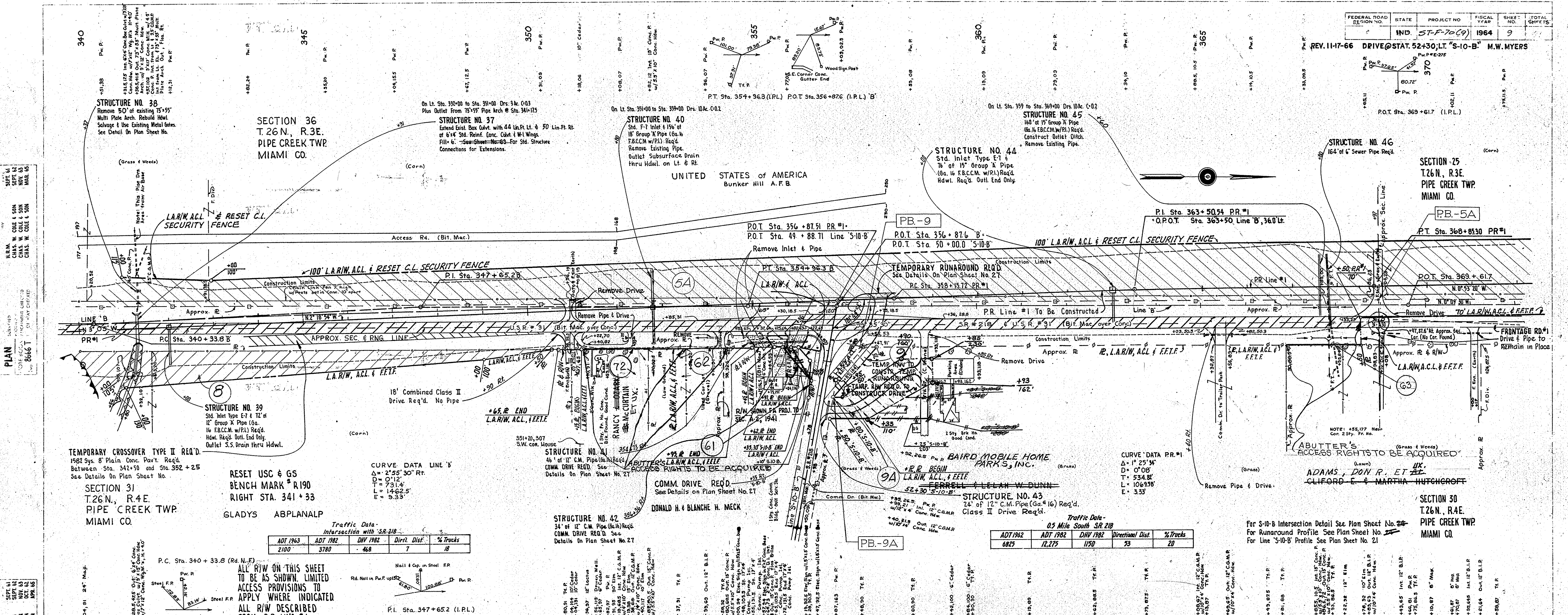


ALL R/W ON THIS SHEET TO BE AS SHOWN R/W STA 310+00 TO STA 324+61.02 MEASURED FROM LINE 'B'. R/W STA 324+61.02 TO STA 340+00 MEASURED FROM P.R. LINE #1. LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.

10/1/64
B 8

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IND.	ST-F-70(9)	1964	9		

REV. 11-17-66 DRIVE @ STA. 52+30; LT. "S-10-B" M.W. MYERS



PLAN
 SHEET NO. 88661
 DATE: SEPT. 61
 DRAWN BY: CHAS. W. COLE & SON
 CHECKED BY: CHAS. W. COLE & SON

PROFILE
 SHEET NO. 88661
 DATE: SEPT. 61
 DRAWN BY: CHAS. W. COLE & SON
 CHECKED BY: CHAS. W. COLE & SON

RESET USC & GS
 BENCH MARK #190
 RIGHT STA. 341+33
 GLADYS ABPLANALP

Traffic Data - Intersection with S.R. 218

ADT 1963	ADT 1962	DIV 1962	Dir. Dist.	% Trucks
2100	3780	468	7	18

Traffic Data - 0.5 Mile South S.R. 218

ADT 1962	ADT 1962	DIV 1962	Dir. Dist.	% Trucks
6829	12,275	1190	75	20

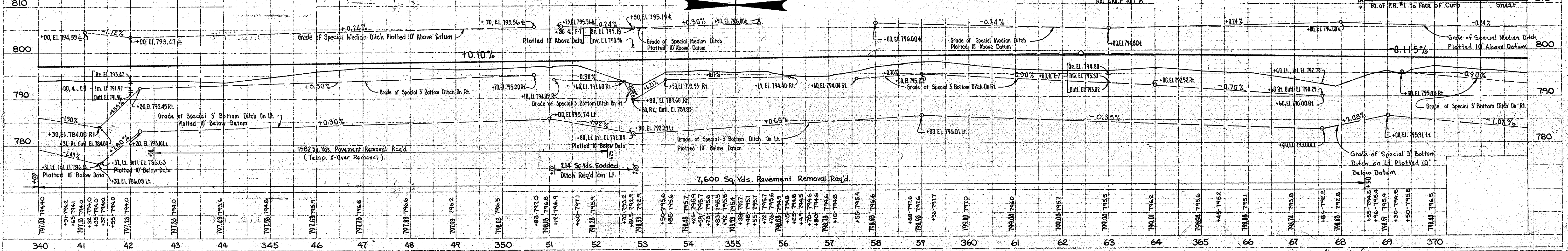
POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS:

LOCATION	CLASS / TYPE
Sta. 350+90 Rt. P.R. I	18' II
Sta. 355+20 Rt. P.R. I	40' Comm.
Sta. 355+79.5 Rt. P.R. I	30' Comm.
Sta. 356+87.51 Rt. P.R. I	Special Public Road

PVI Sta. 362+40
 EL. 799.27
 VC = 800'

BALANCE NO. 7
 CUT 4599 CYS.
 FILL + 25% 20163 CYS.
 BORROW 15964 CYS.

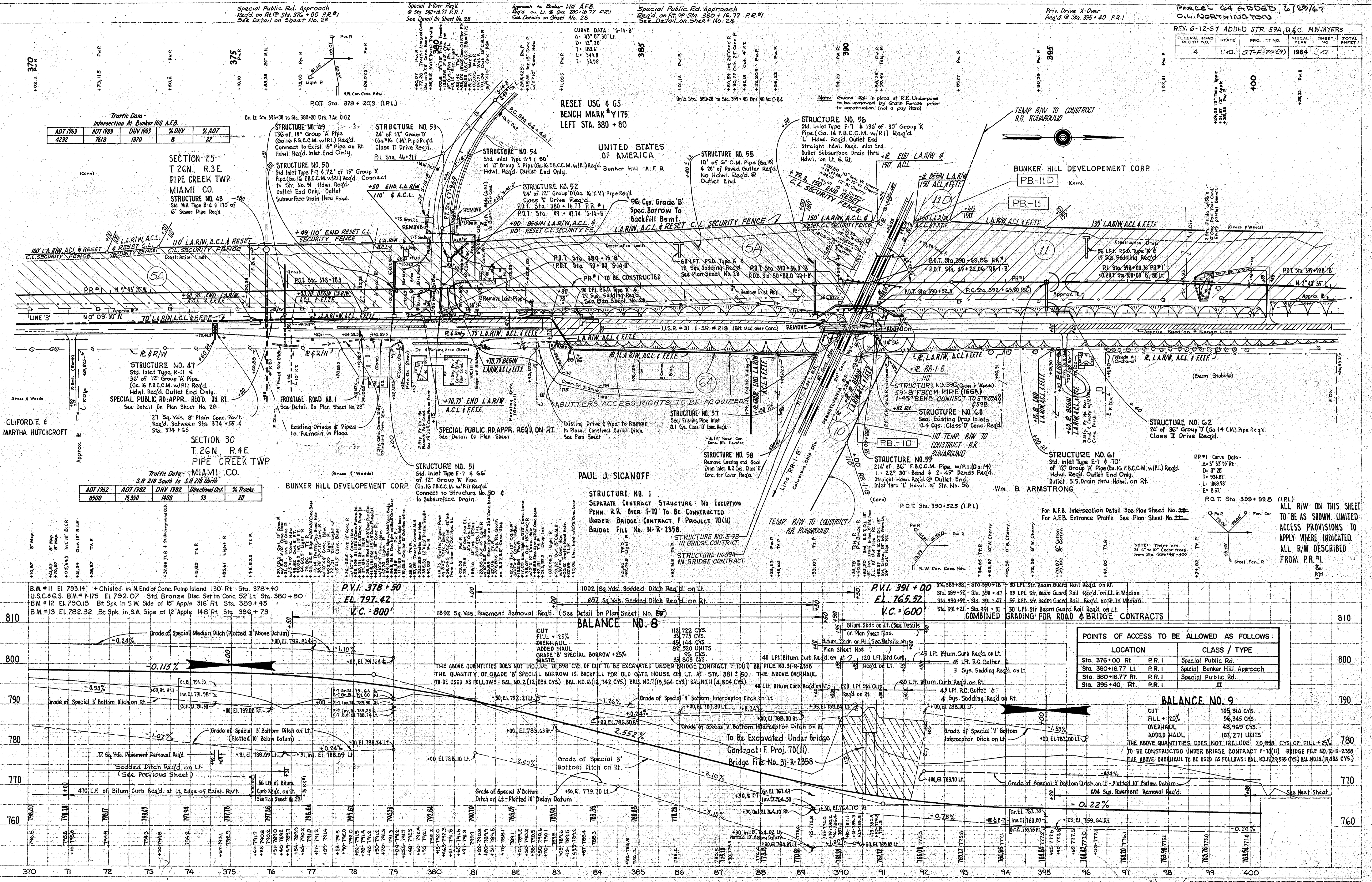
BALANCE NO. 6
 CUT 5879 CYS.
 FILL + 25% 18621 CYS.
 BORROW 12142 CYS.



PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-70(9)	B	2		

PLAN
 NOTE BOOK APPROVAL, CIVIL
 NO. 8666 T
 DATE: SEPT. 15, 1964
 CHECKED BY: CHAS. W. COLE & SON
 DRAWN BY: CHAS. W. COLE & SON
 DATE: SEPT. 15, 1964
 CHECKED BY: CHAS. W. COLE & SON
 DRAWN BY: CHAS. W. COLE & SON

PROFILE
 NOTE BOOK APPROVAL, CIVIL
 NO. 8666 T
 DATE: SEPT. 15, 1964
 CHECKED BY: CHAS. W. COLE & SON
 DRAWN BY: CHAS. W. COLE & SON



Traffic Data - Intersection At Bunker Hill A.F.B.

ADT 1963	ADT 1963	DIV 1963	% DIV	% ADT
4232	7618	1370	8	27

SECTION 25
 T. 26N., R. 3E.
 PIPE CREEK TWP.
 MIAMI CO.
 STRUCTURE NO. 48
 Sta. 374 + 110 of
 6" Sewer Pipe Req'd.

Traffic Data - S.R. 218 South to S.R. 218 North

ADT 1962	ADT 1962	DIV 1962	Directional Dist.	% Trucks
8500	13,350	1400	53	20

POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS:

LOCATION	CLASS / TYPE
Sta. 376+00 Rt. P.R. I	Special Public Rd.
Sta. 380+16.77 Lt. P.R. I	Special Bunker Hill Approach
Sta. 380+16.77 Rt. P.R. I	Special Public Rd.
Sta. 395+40 Rt. P.R. I	II

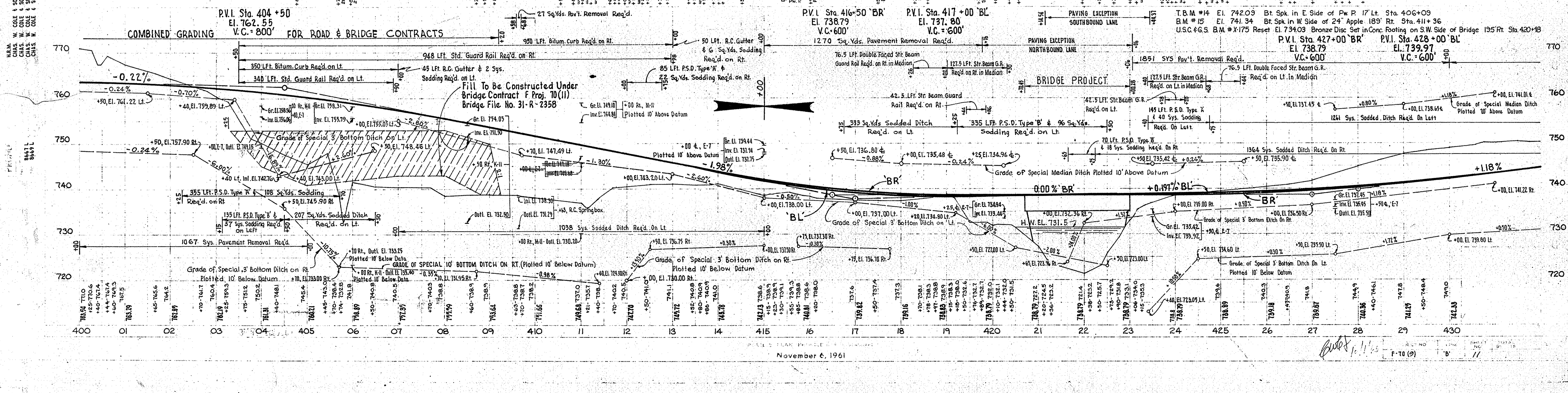
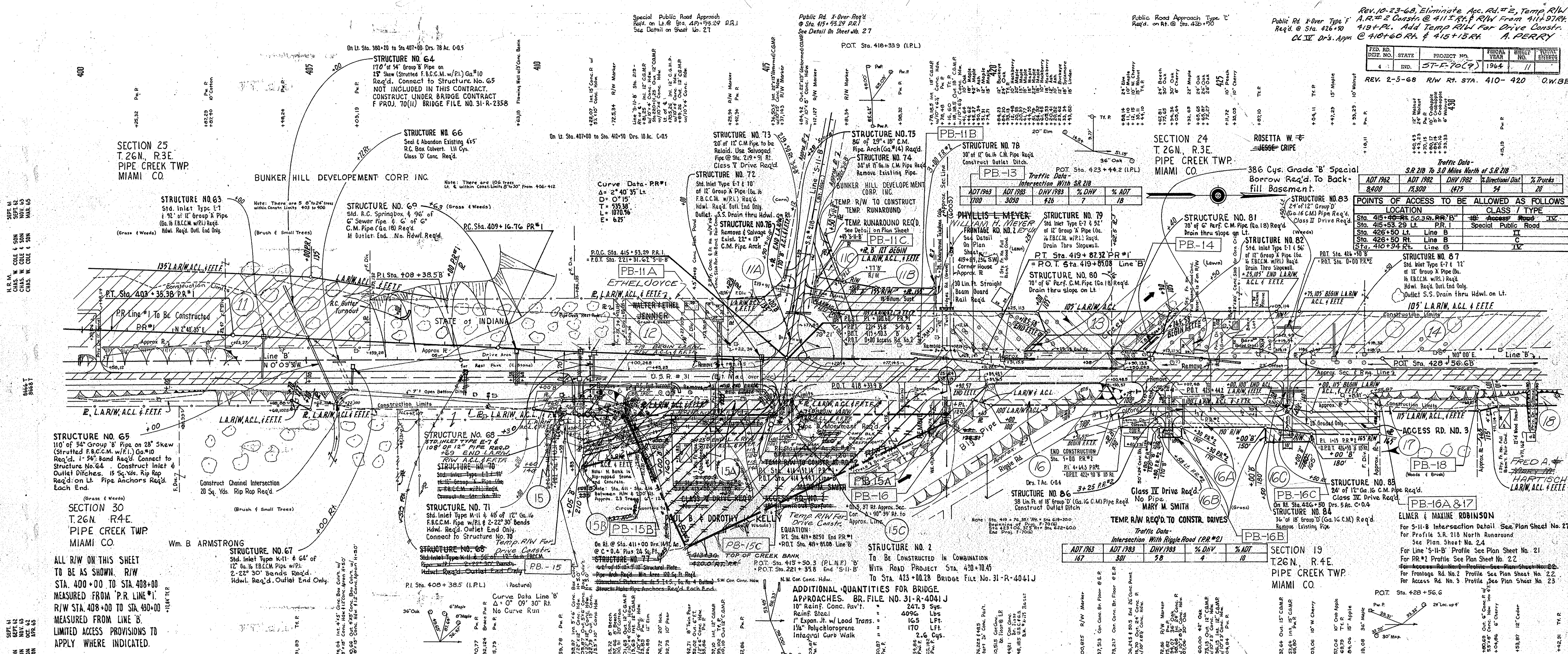
PARCEL G-4 ADDED, 6/29/67
 O.W. NORTHINGTON

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-70(9)	1964	10	

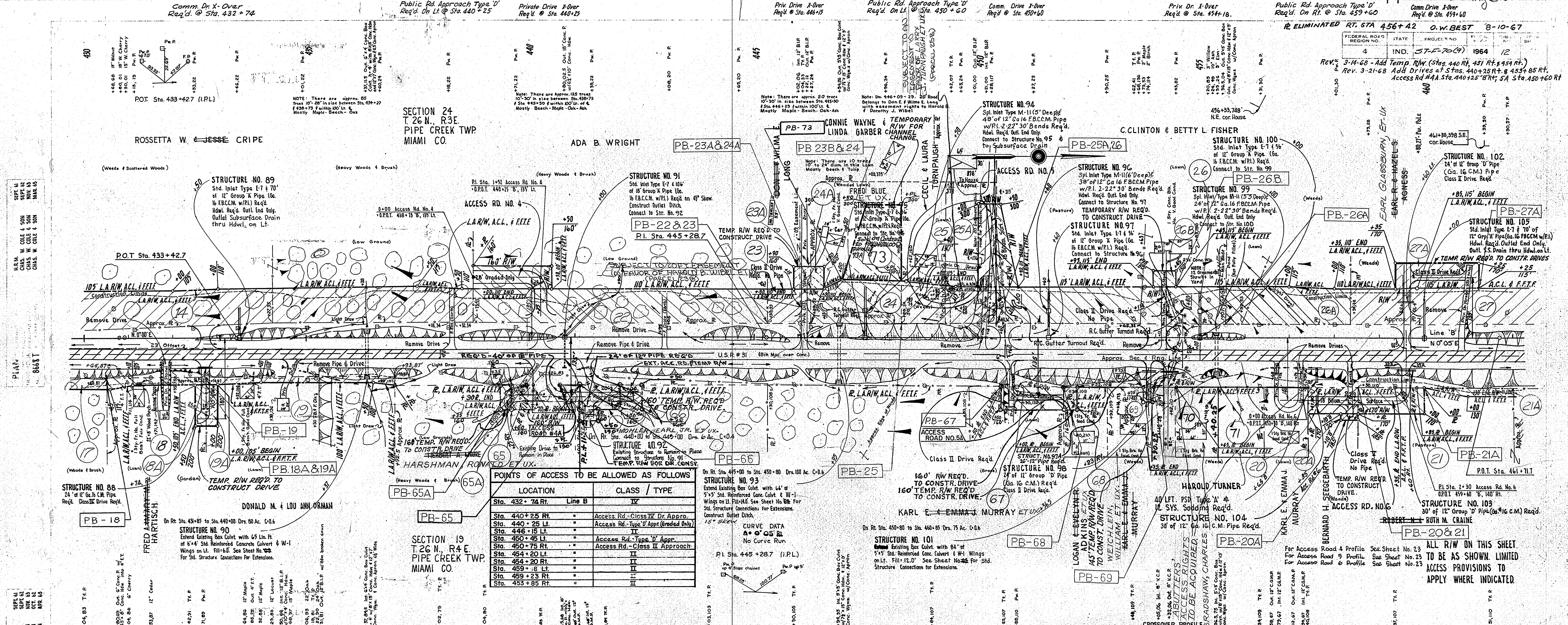
Rev. 10-23-68, Eliminate Acc. Rd. #2, Temp. R/W For A.R.#2 Const. @ 411 R/L R/W For 411+97.84 To 419+P.L. Add Temp. R/W For Drive Const. & CL II Dr's. App. @ 410+60 R/L & 415+15 R/L A. PERRY

PROJ. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
REV. 2-5-68	IND.	ST-F-70(9)	1964	11	11

REV. 2-5-68 R/W R/L STA. 410-420 O.W.BEST

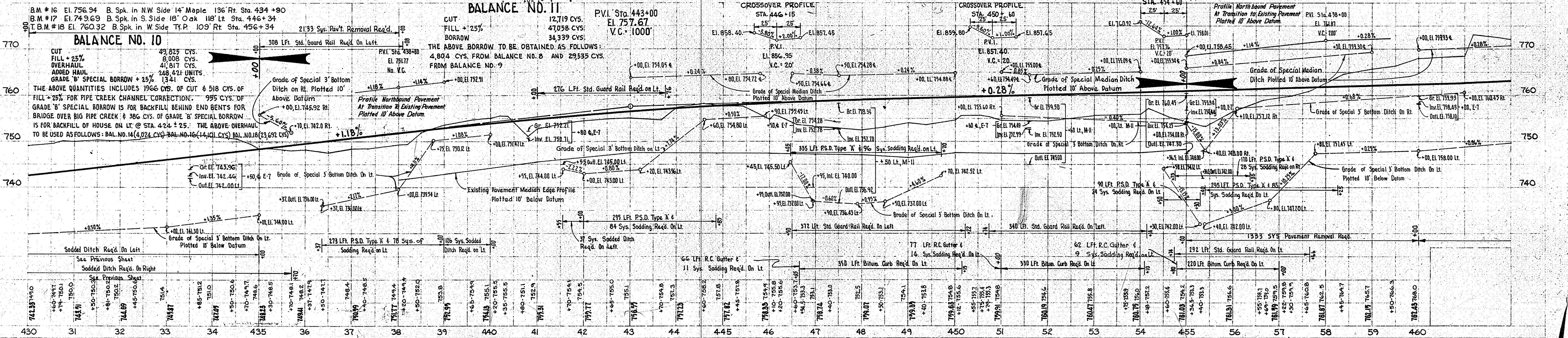


REV. 11-7-69 (REF. ACCESS RD. 4A) ADD 4" OF 18" PIPE @ STA. 444+75 RT. B. LATER DATED 4-30-69. A. PERRY
 REV. 5-1-69 TEMP. R/W ADDED LT. STA. 448 O.W. BEST
 CONFIRMATION Ltr. Dated 6-24-69. A. PERRY
 Ltr. Dated 4-30-69. A. PERRY
 PARCELS 65, 66, 67, 68, 69, 70, 71 ADDED
 R/L STA. 450+00, W/L STA. 450+00
 G/B/67 O.W. Northington
 R ELIMINATED RT. STA. 456+42 O.W. BEST 8-10-67
 REV. 3-14-68 - Add Temp. R/W (Sta. 440 RT, 451 RT, 454 RT)
 REV. 3-21-68 Add Drives at Sta. 440+28 RT, 453+85 RT
 Access Rd. 4A Sta. 440+25 RT, 5A Sta. 450+60 RT



POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS

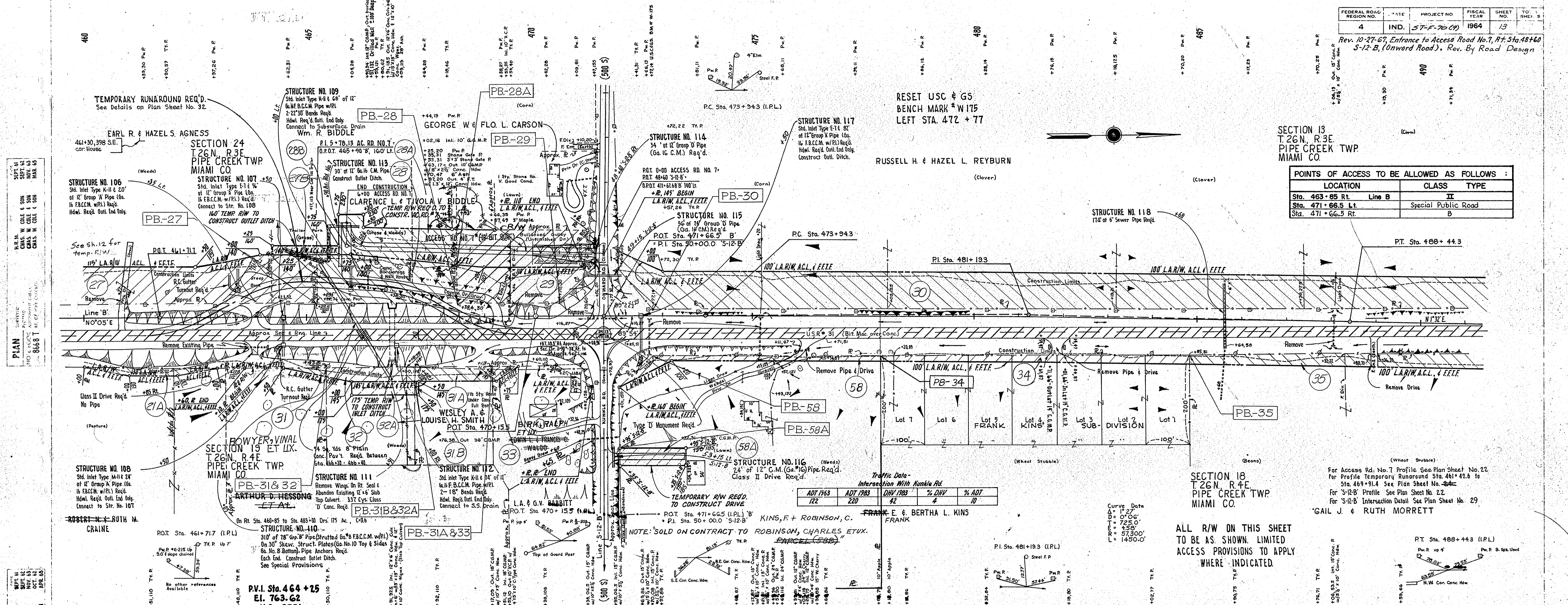
LOCATION	CLASS / TYPE
Sta. 432+74 Rt. Line B	IV
Sta. 440+25 Rt.	Access Rd.-Class IV Dr. Appro.
Sta. 440+25 Lt.	Access Rd.-Type 'D' Appro. (Graded Only)
Sta. 446+15 Lt.	II
Sta. 450+45 Lt.	Access Rd.-Type 'D' Appro.
Sta. 450+75 Rt.	Access Rd.-Class II Approach
Sta. 454+20 Lt.	II
Sta. 454+20 Rt.	II
Sta. 459+18 Lt.	II
Sta. 459+23 Rt.	II
Sta. 453+85 Rt.	II



PLAN
 SHEET NO. 8665 T
 H.R.M. W. COLE & SON
 CIVIL ENGINEERS
 150 W. W. COLE & SON
 CHAS. W. COLE & SON
 CIVIL ENGINEERS
 150 W. W. COLE & SON

PROFILE
 SHEET NO. 8665 L
 H.R.M. W. COLE & SON
 CIVIL ENGINEERS
 150 W. W. COLE & SON
 CHAS. W. COLE & SON
 CIVIL ENGINEERS
 150 W. W. COLE & SON

Public Road Approach Type B
Req'd on Rt. @ Sta. 471+66.5
See Detail on Sheet No. 29



FEDERAL ROAD DISTRICT NO.	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND. ST-F-70 (9)	1964	13	

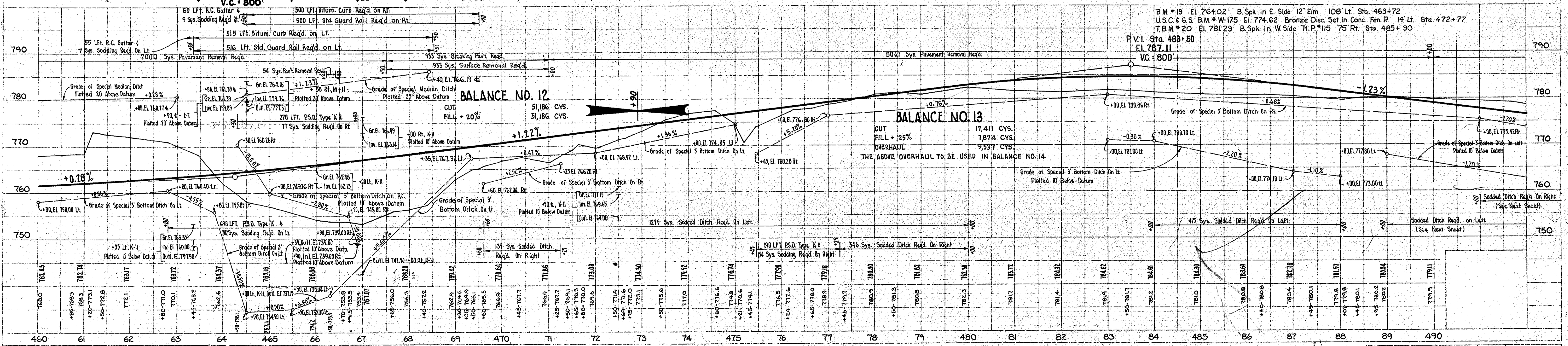
Rev. 10-27-67, Entrance to Access Road No. 7, Rt. Sta. 48+60 S-12-B, (Onward Road), Rev. By Road Design

SECTION 13
T. 26N. R. 3E.
PIPE CREEK TWP.
MIAMI CO.

LOCATION	CLASS	TYPE
Sta. 463+85 Rt. Line B	II	
Sta. 471+66.5 Lt.	Special Public Road	
Sta. 471+66.5 Rt.	B	

Traffic Data -
Intersection With Kunkle Rd.

ADT 1963	ADT 1965	DIV 1965	% DIV	% ADT
122	220	42	4	10



PLAN
SHEET NO. 13
DATE: 10/1/65

PROFILE
SHEET NO. 13
DATE: 10/1/65

Sta. 510+00, Rt.; Added Temp. R/W, 4'-2 1/2' (Approved by Design)
Sta. 521+60, Rt.; Added Temp. R/W, 4'-22'-0" (Part 2)

Commercial Drive X-Over
Req'd @ Sta. 494+20

Public Rd. Approach Type 'D'
Req'd. On Rt. @ Sta. 515+40

Commercial Drive X-Over
Req'd @ Sta. 515+40

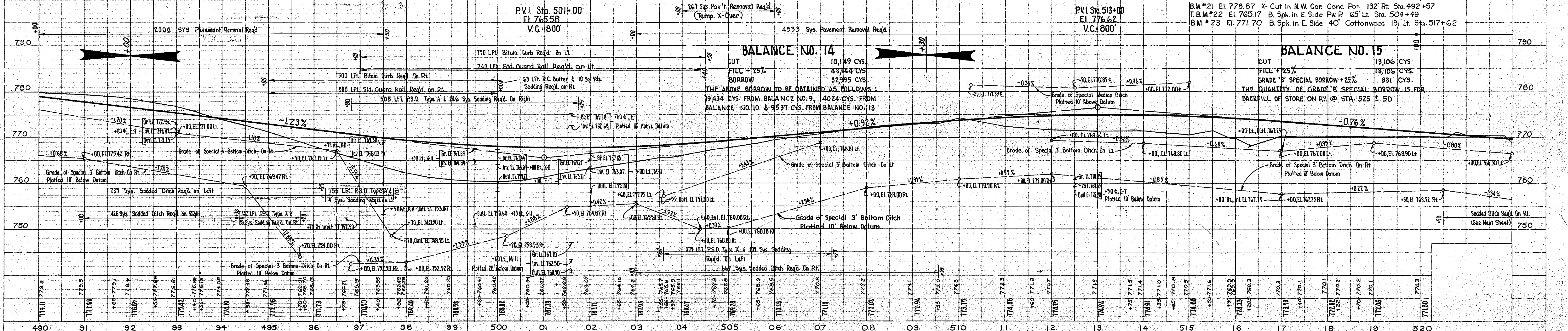
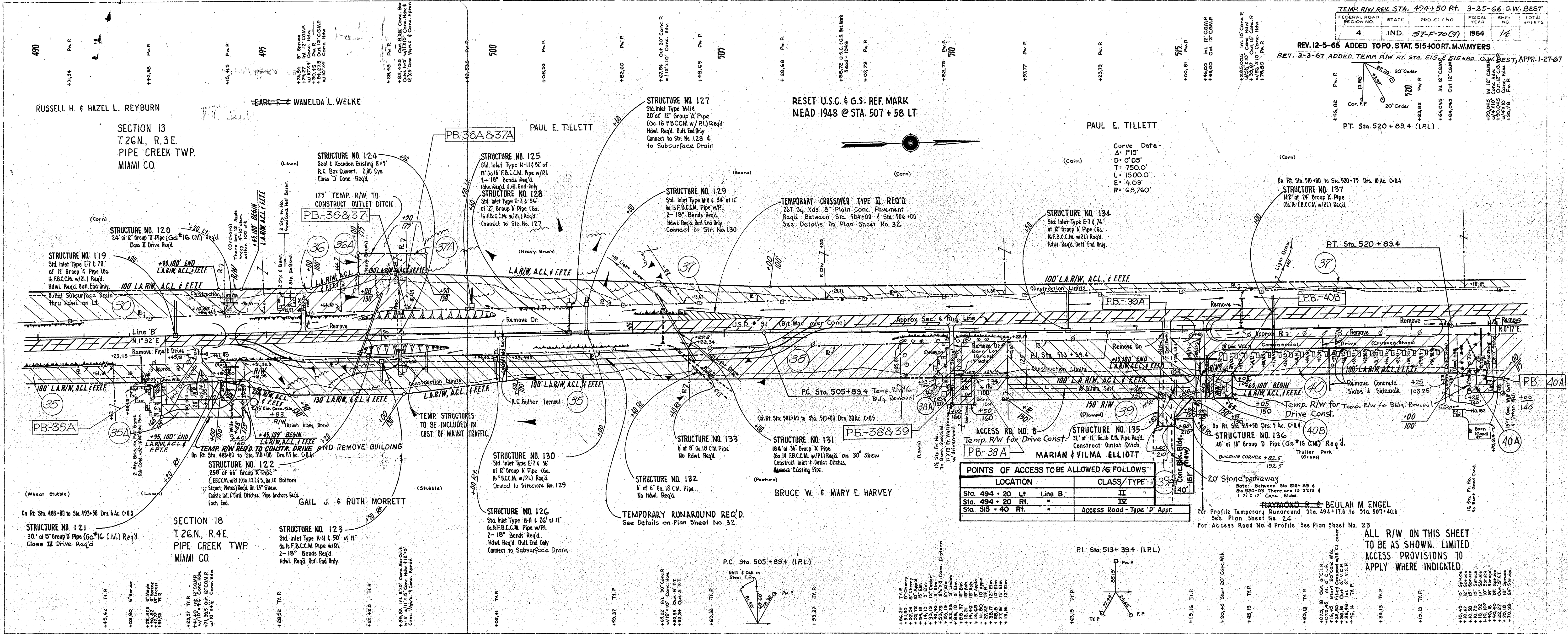
FEDERAL ROAD DISTRICT NO.	STATE	PROJ. E.T. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-7-70(9)	1964	14	

REV. 12-5-66 ADDED TOPO. STA. 515+40. O.W. BEST, APRR. 1-27-67

REV. 3-3-67 ADDED TEMP. R/W AT STA. 515+40. O.W. BEST, APRR. 1-27-67

PLAN
NOTED BOOK ALIGNMENT CHECKED
NO. 8866 T. L. BRADSHAW, DESIGNER

PROFILE
NOTED BOOK GRADE CHECKED
NO. 8866 T. L. BRADSHAW, DESIGNER



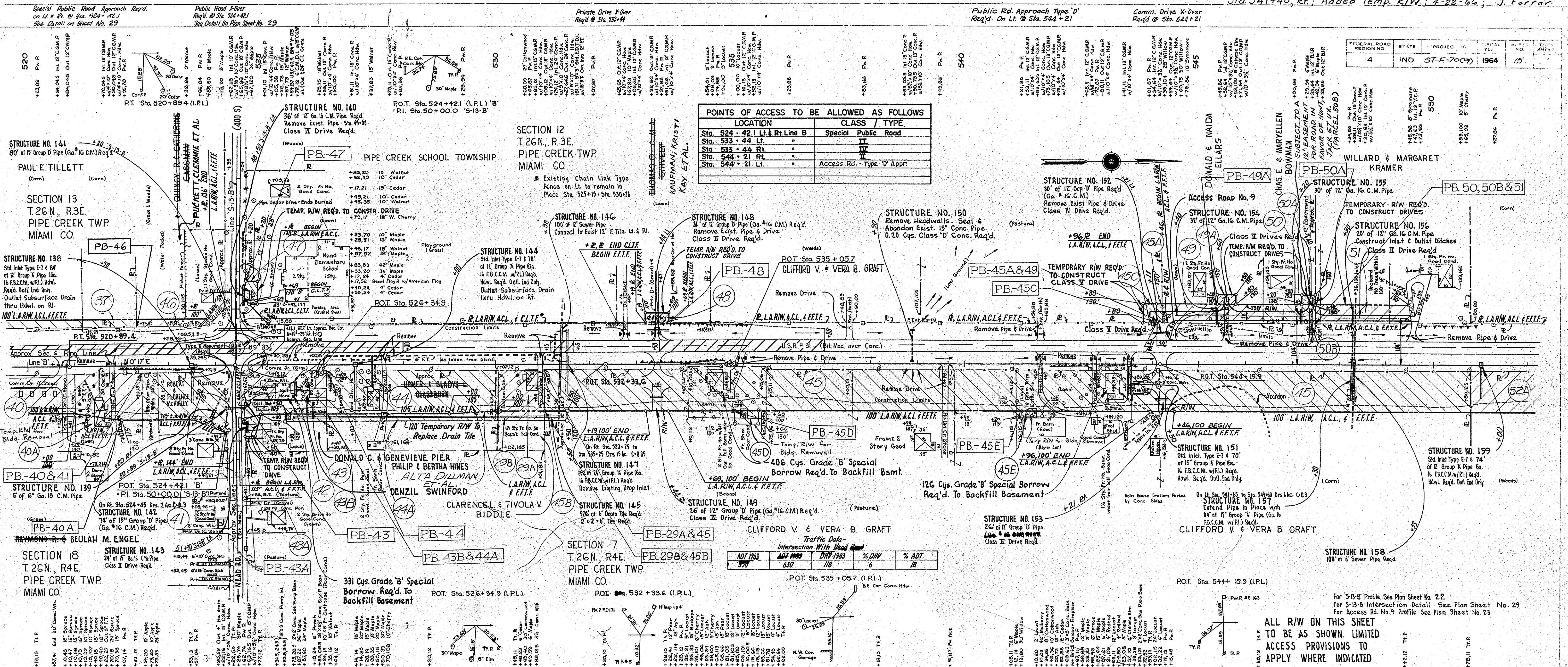
November 6, 1961

built 10/1/65

PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
F-70 (9)	B	14		

Sta. 521+60, Rt.; Added Temp. R/W; 4-22-66; J. Farrar
 Sta. 535+35, Rt.; Added Temp. R/W; 4-22-66; J. Farrar
 Sta. 541+40, Rt.; Added Temp. R/W; 4-22-66; J. Farrar

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-70(9)	15	15



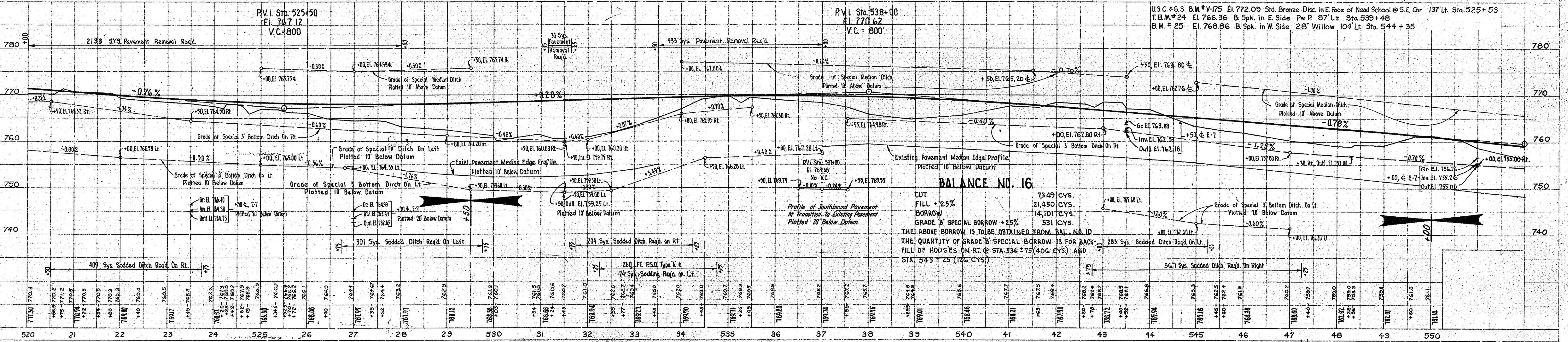
POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS

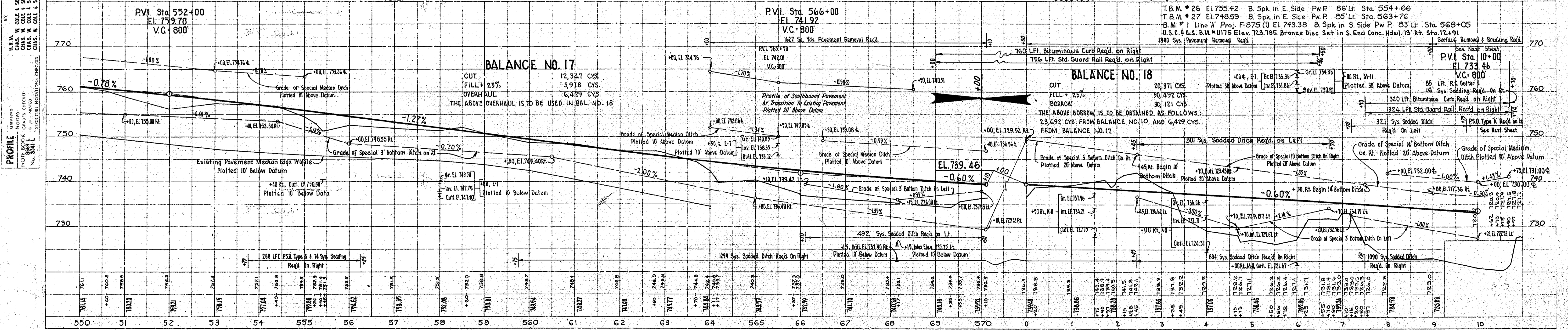
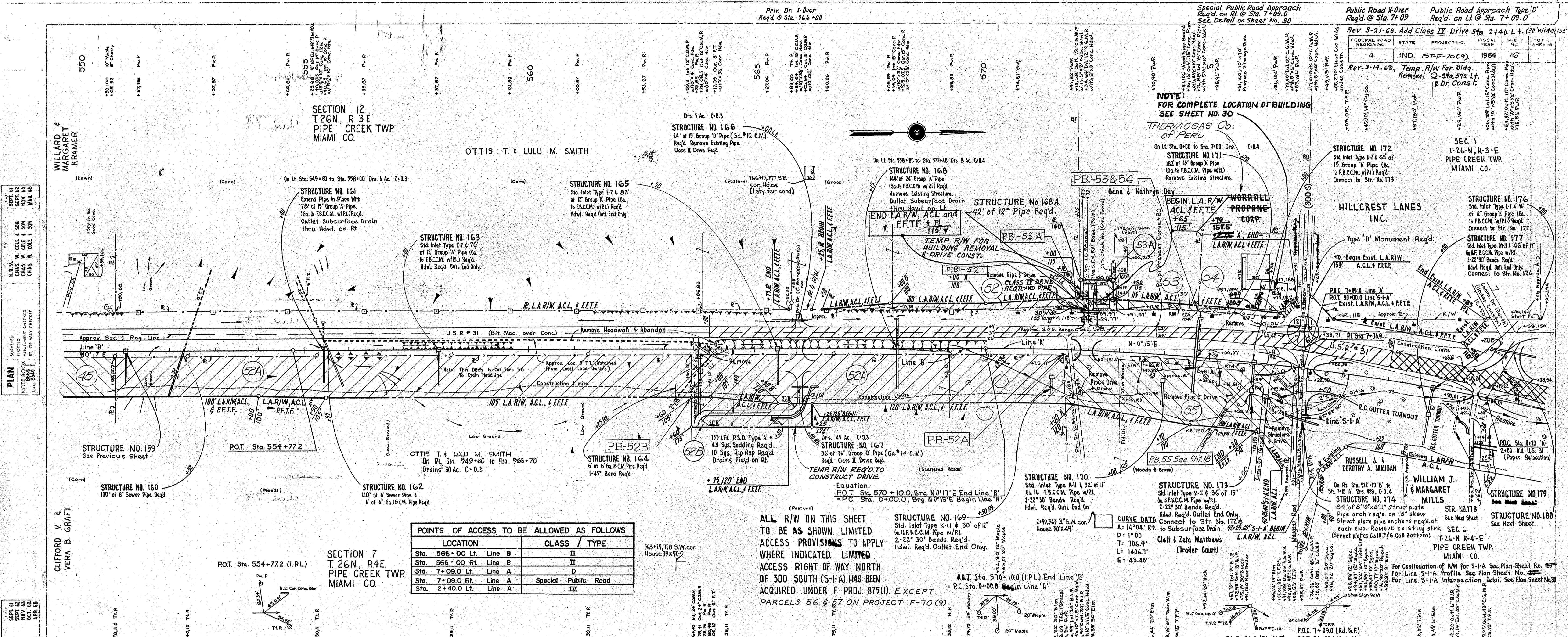
LOCATION	CLASS / TYPE
Sta. 524 - 42.1 Lt. & Rt. Line B	Special Public Road
Sta. 533 - 44 Lt.	"
Sta. 533 - 44 Rt.	"
Sta. 544 - 21 Lt.	"
Sta. 544 - 21 Rt.	Access Rd. - Type 'D' Appr.

ADT 1963	ADT 1969	DIV 1963	% DIV	% ADT
370	630	1/8	6	18

PLAN
 CHECKED BY: [Name]
 DATE: [Date]
 NO. 8869 L. STRUCTURE NOTATION CHECKED

PROFILE
 CHECKED BY: [Name]
 DATE: [Date]
 NO. 8869 L. STRUCTURE NOTATION CHECKED



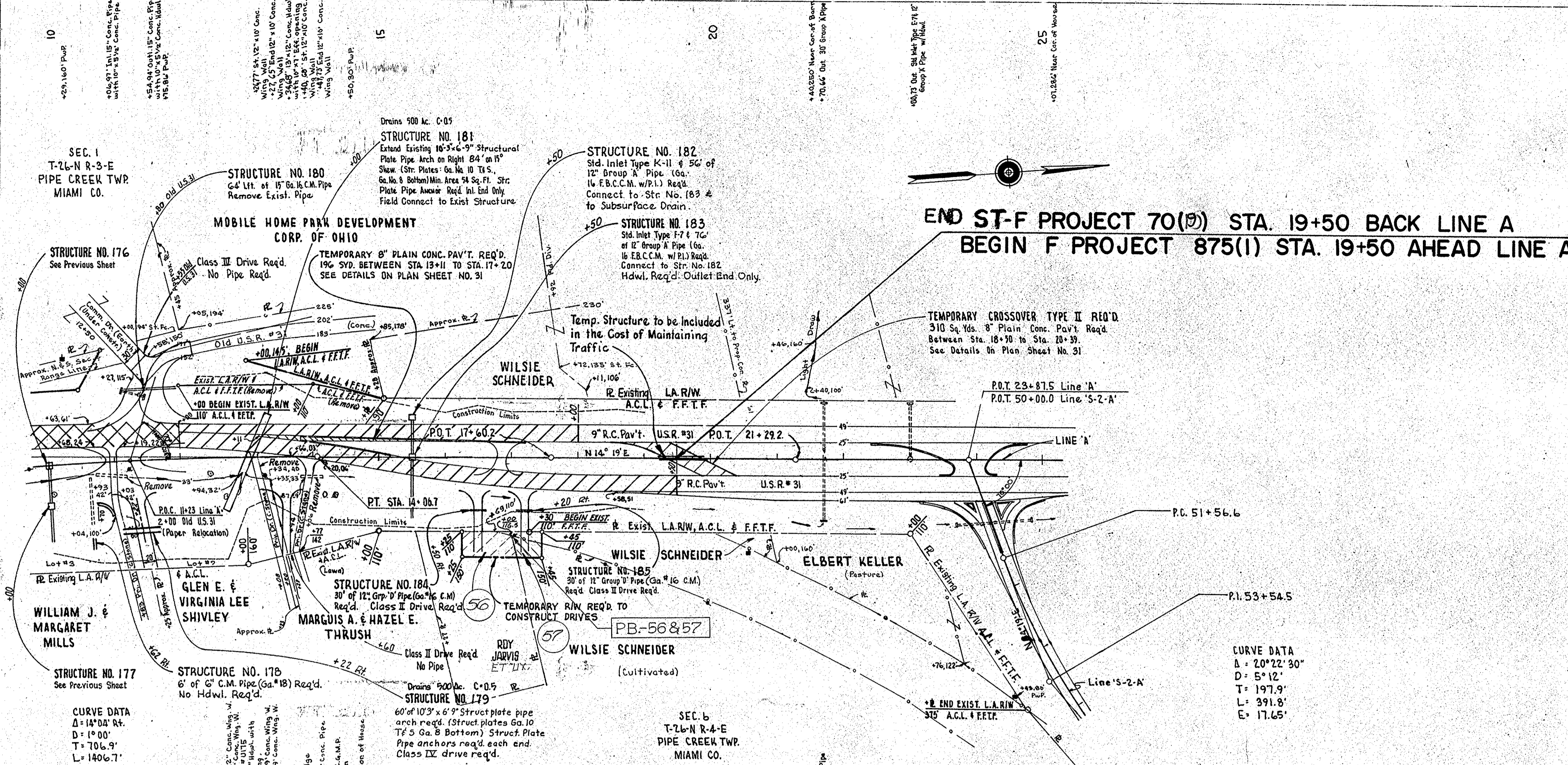


Special Public Road Approach
Req'd. on Lt. @ Sta. 11+23
See Detail on Sheet No. 30

Public Road X-Over
Req'd. @ Sta. 11+23

Private Drive X-Over
Req'd. @ Sta. 16+85

FEDERAL ROAD REGION NO.	ST/TE	PROJECT NO.	FISC. YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	STF-70(9)	1964	17	

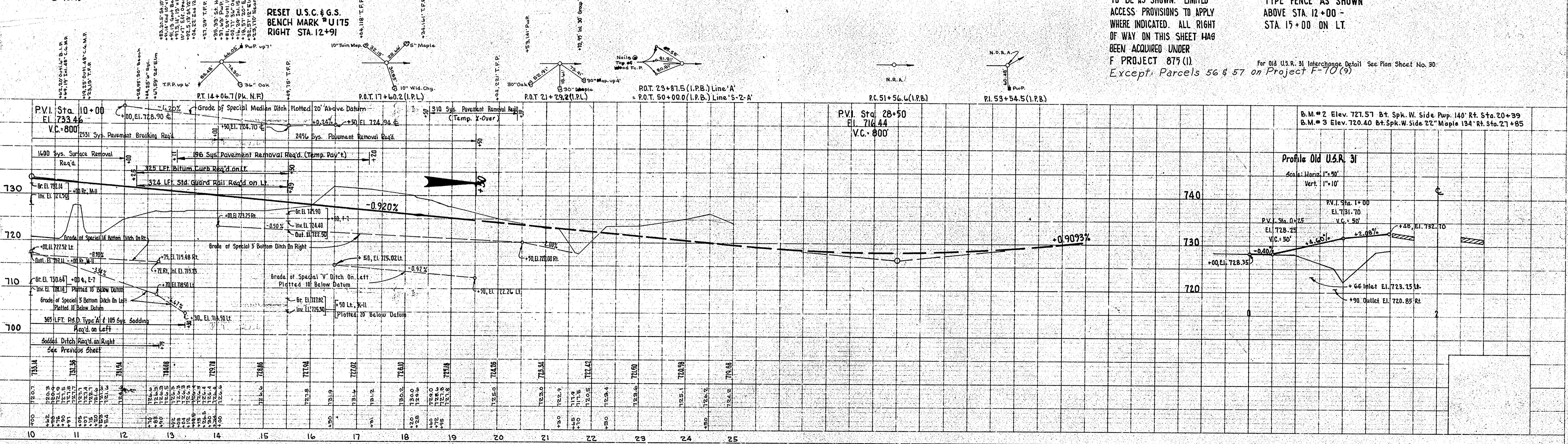


END ST-F PROJECT 70(9) STA. 19+50 BACK LINE A
BEGIN F PROJECT 875(1) STA. 19+50 AHEAD LINE A

PLAN
NO. 8840 T
DATE: SEPT 61
BY: H.R.M. CHAS. W. COLE & SON
CHECKED: H.R.M. CHAS. W. COLE & SON
DATE: SEPT 61

CURVE DATA
Δ = 14° 04' Rt.
D = 1° 00'
T = 706.9'
L = 1406.7'
E = 43.40'

CURVE DATA
Δ = 20° 22' 30"
D = 5° 12'
T = 197.9'
L = 391.8'
E = 17.65'



PROFILE
NO. 8841 L
DATE: SEPT 61
BY: H.R.M. CHAS. W. COLE & SON
CHECKED: H.R.M. CHAS. W. COLE & SON
DATE: SEPT 61

ALL R/W ON THIS SHEET TO BE AS SHOWN. LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED. ALL RIGHT OF WAY ON THIS SHEET HAS BEEN ACQUIRED UNDER F PROJECT 875(1).
 Except: Parcels 56 & 57 on Project F-70(9)

RELOCATE FARM FIELD TYPE FENCE AS SHOWN ABOVE STA. 12+00 - STA. 15+00 ON LT.

For Old U.S.R. 31 Interchange Detail See Plan Sheet No. 30

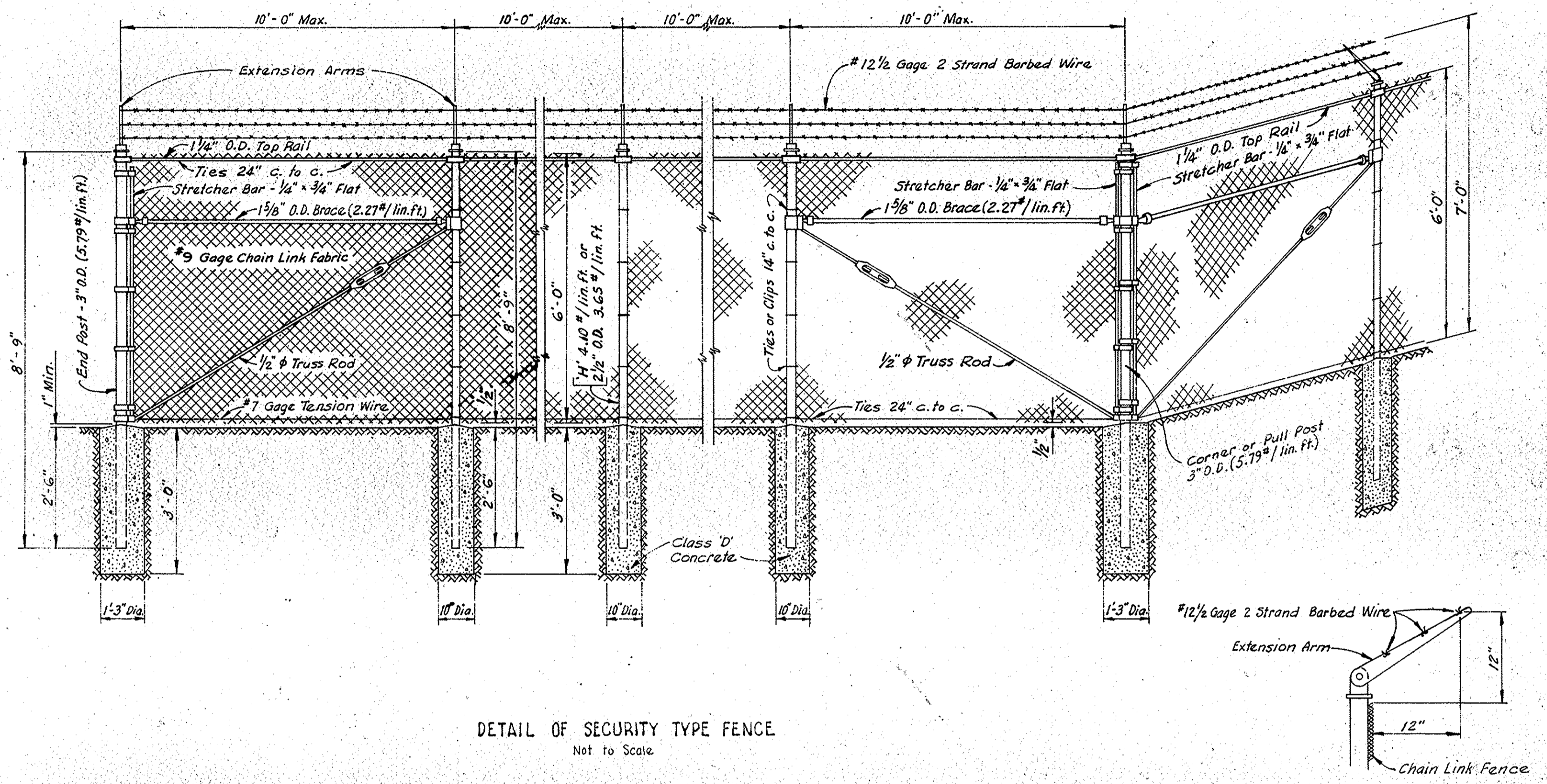
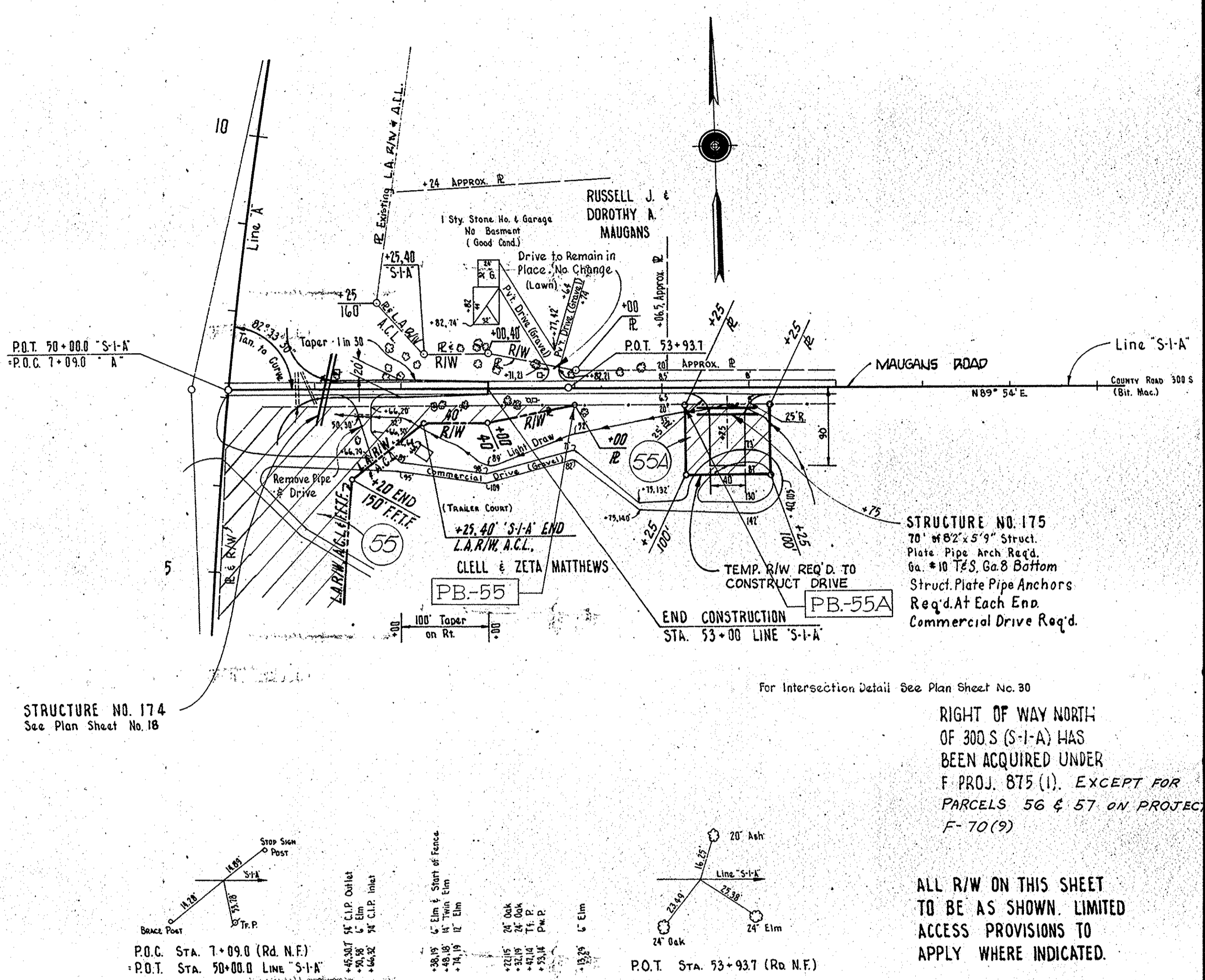
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-70(9)	A	17		

Added 10/1/65

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	57-F-70(9)	1964	18	

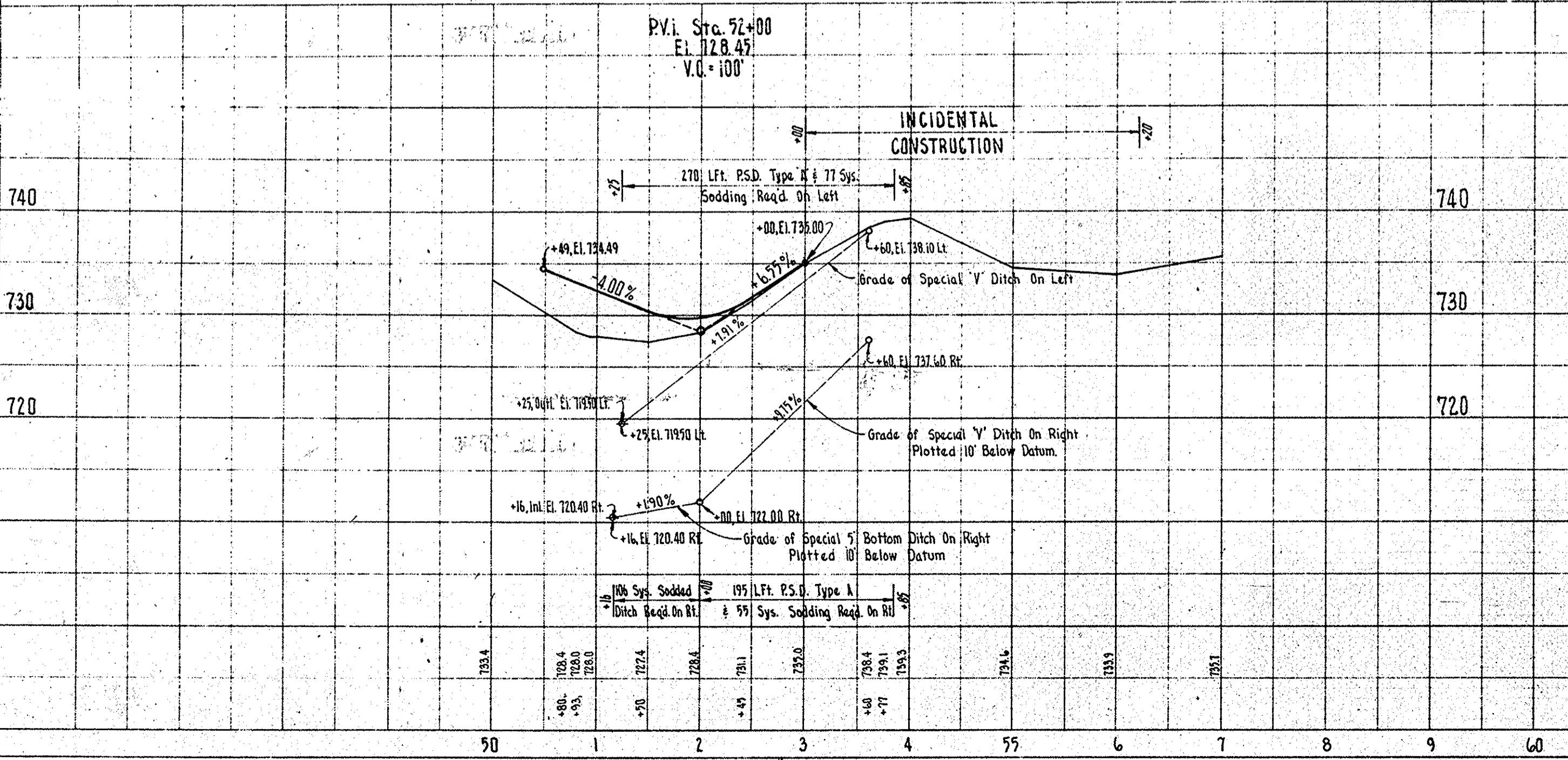
DATE: SEPT 61
 BY: W. COLE & SON
 CHECKED: W. COLE & SON
 DATE: NOV 61
 BY: W. COLE & SON
 CHECKED: W. COLE & SON
 DATE: MAR 62
 BY: W. COLE & SON
 CHECKED: W. COLE & SON
 DATE: OCT 62
 BY: W. COLE & SON
 CHECKED: W. COLE & SON
 DATE: APR 63

DATE: SEPT 61
 BY: W. COLE & SON
 CHECKED: W. COLE & SON
 DATE: NOV 61
 BY: W. COLE & SON
 CHECKED: W. COLE & SON
 DATE: MAR 62
 BY: W. COLE & SON
 CHECKED: W. COLE & SON
 DATE: OCT 62
 BY: W. COLE & SON
 CHECKED: W. COLE & SON
 DATE: APR 63



RIGHT OF WAY NORTH OF 300 S (S-1-A) HAS BEEN ACQUIRED UNDER F-PROJ. 875 (1). EXCEPT FOR PARCELS 56 & 57 ON PROJECT F-70 (9)

ALL R/W ON THIS SHEET TO BE AS SHOWN. LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.



Auto 10/1/65

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F 70(9)	S-1-A	18		

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	STP-70(9)	1964	19	

TEMP. RUNAROUND CURVE DATA
 ALL CURVES ON ϕ BETWEEN MAIN TRACKS
 $D = 1^\circ 00'$
 $\Delta = 5^\circ 06' 54''$
 $T = 255.93'$
 $L = 511.5'$
 $E = 1'$
 SPEED = 50 MPH.
 SPIRAL LENGTH = 62.00'

PLAN
 SURVEYED PLOTTED
 NOTE BOOK ALIGNED CHECKED
 NO. 11 OF WAY CHECKED

PROFILE
 SURVEYED PLOTTED
 NOTE BOOK GRADE CHECKED
 NO. 11 OF WAY CHECKED
 STRUCTURE INDICATIONS CHECKED

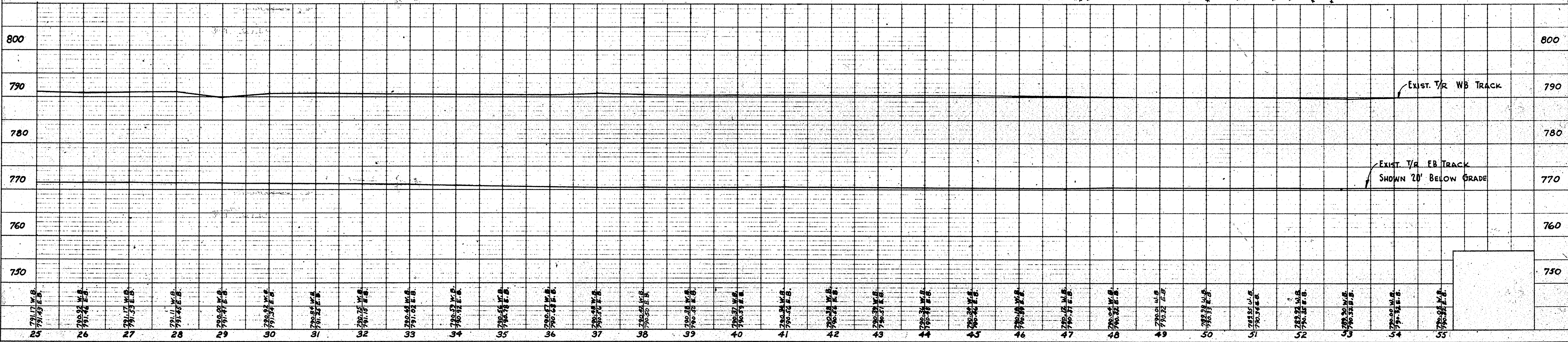
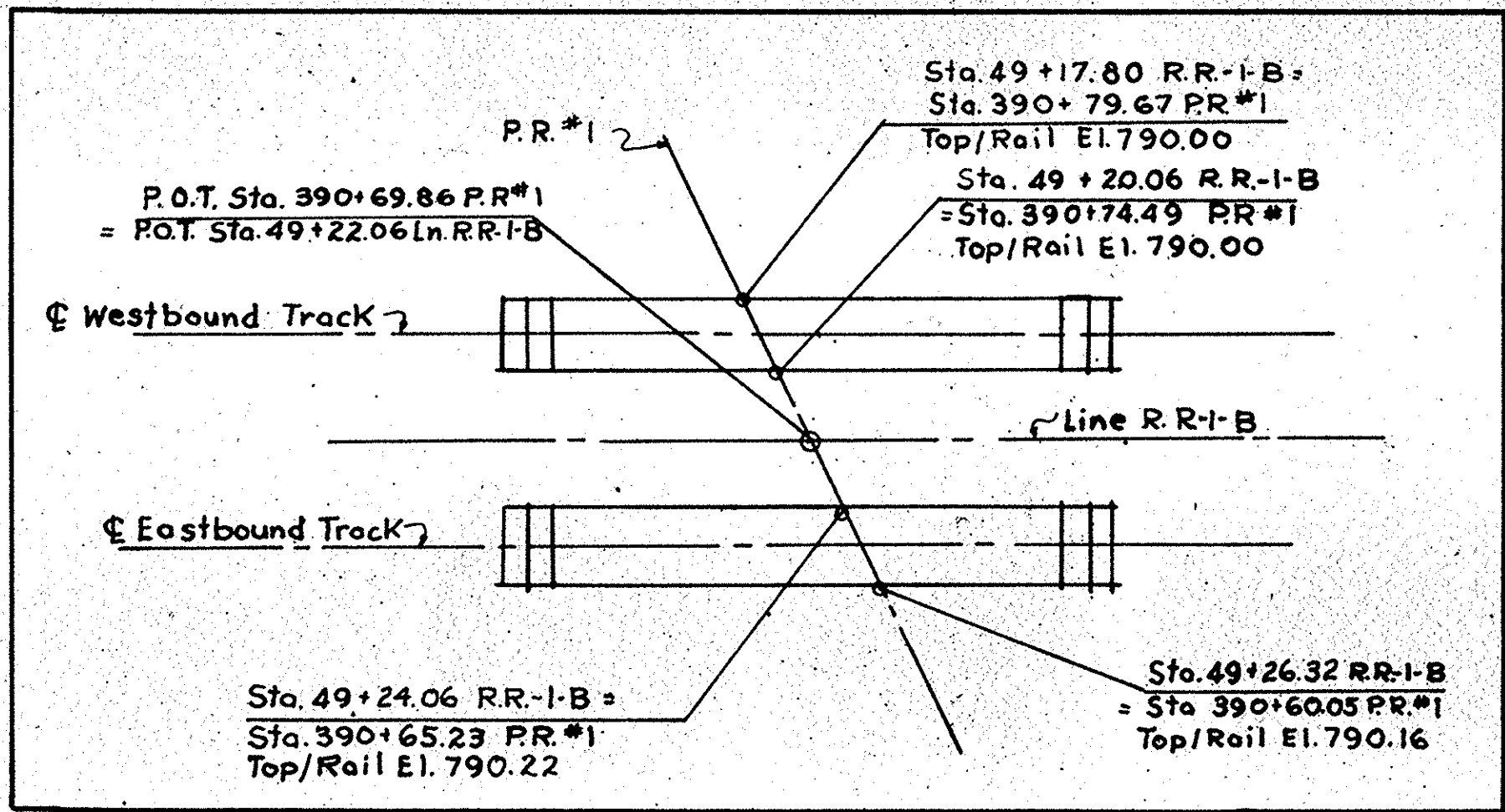
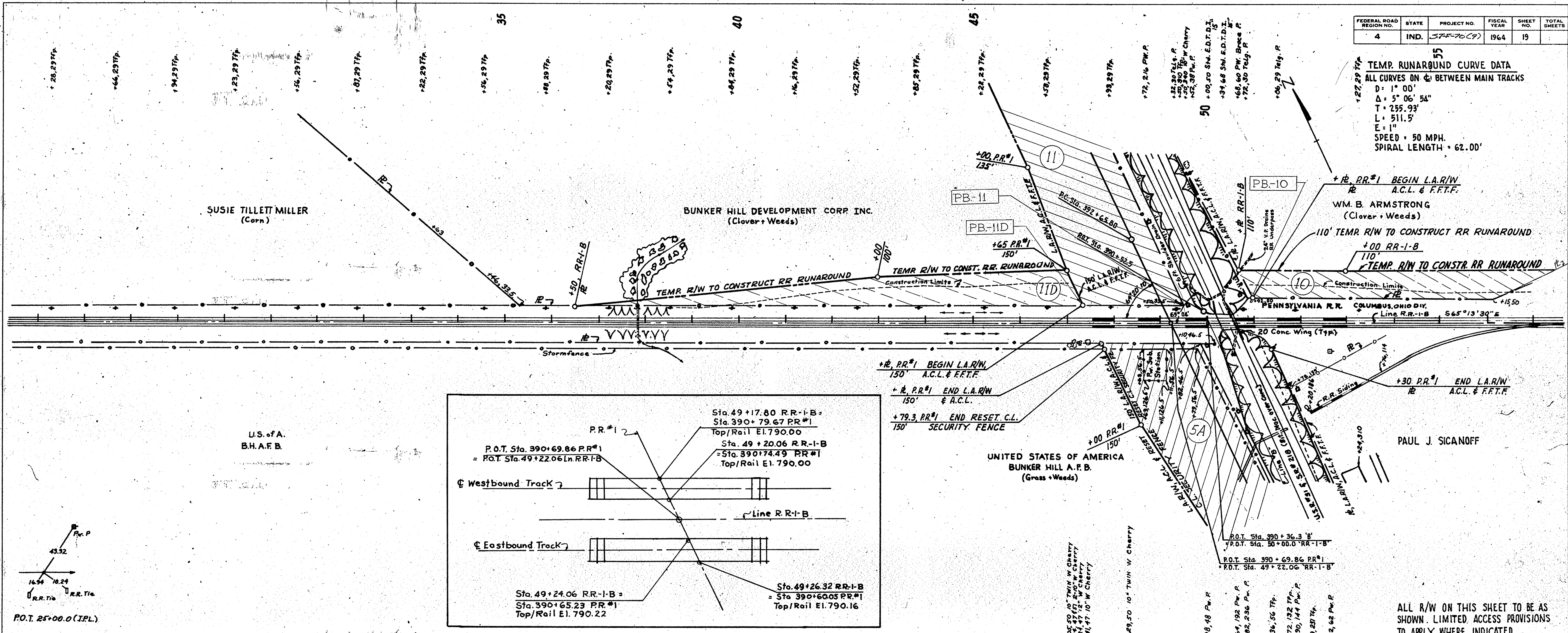
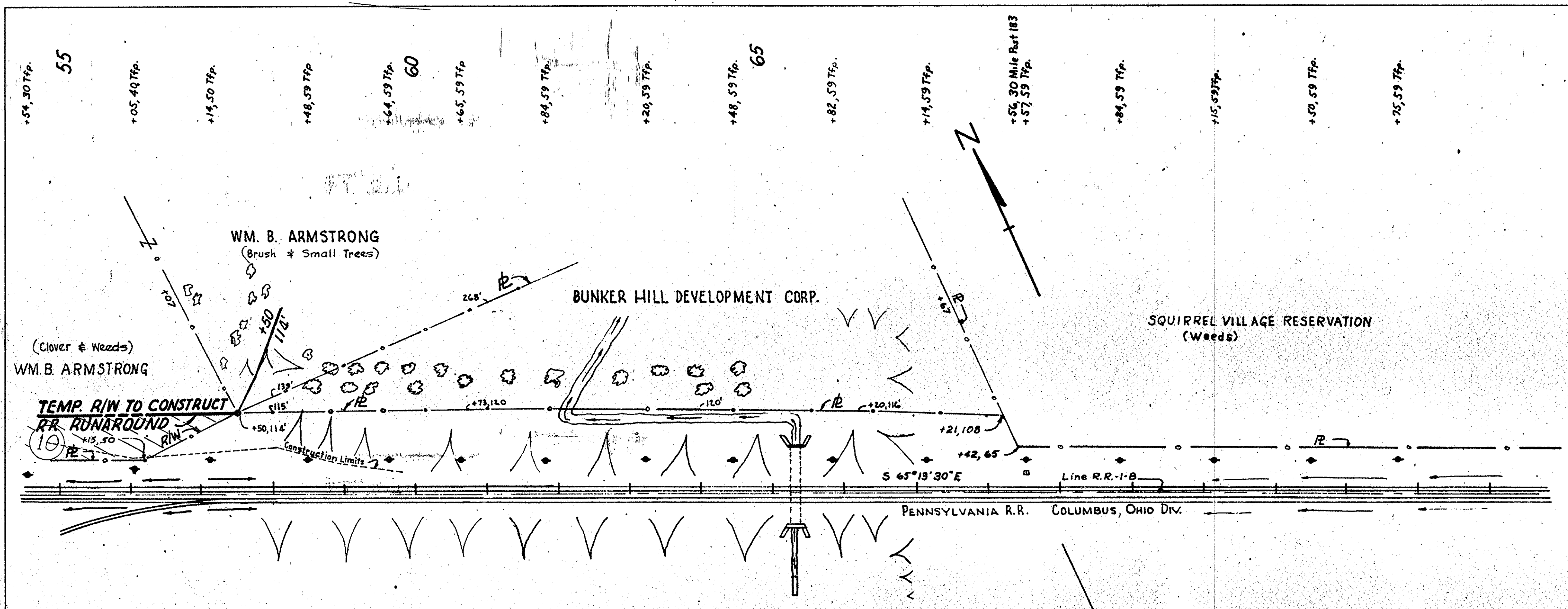


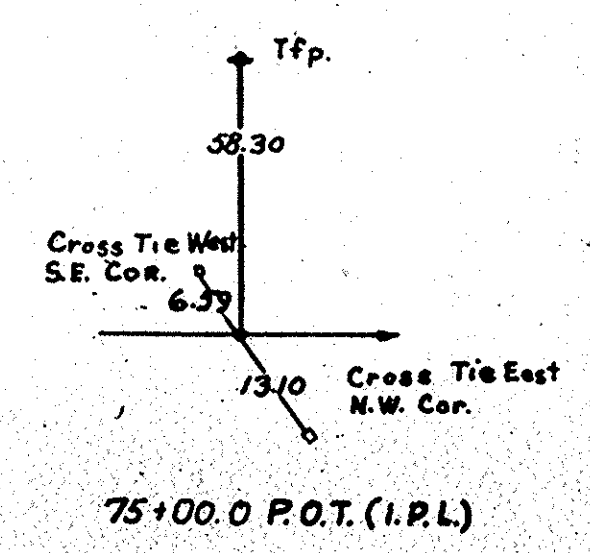
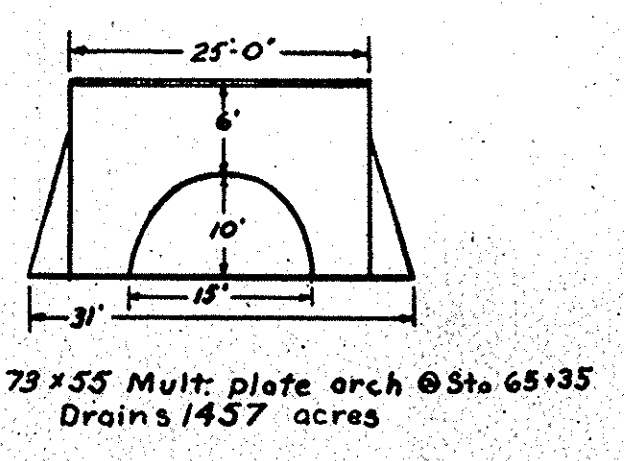
PLATE 3 - PLAN - PROFILE B. R. STANDARD
 November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F 70(9)	RR-I-B	19		

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-70(9)	1964	20	



PAUL J. SICANOFF



75+00.0 P.O.T. (I.P.L.)

ALL R/W ON THIS SHEET TO BE AS SHOWN.

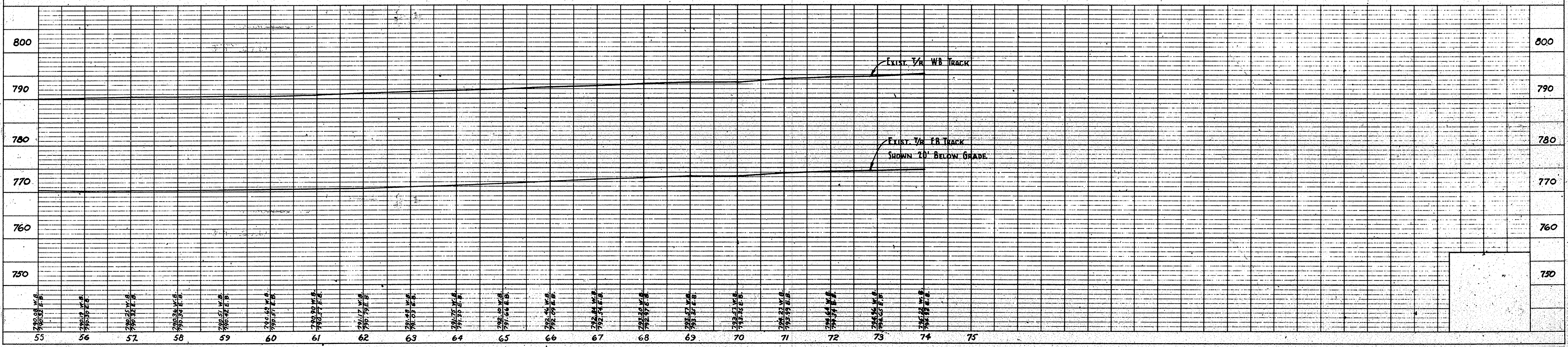


PLATE 3 - PLAN - PROFILE B. R. R. STANDARD
November 6, 1961

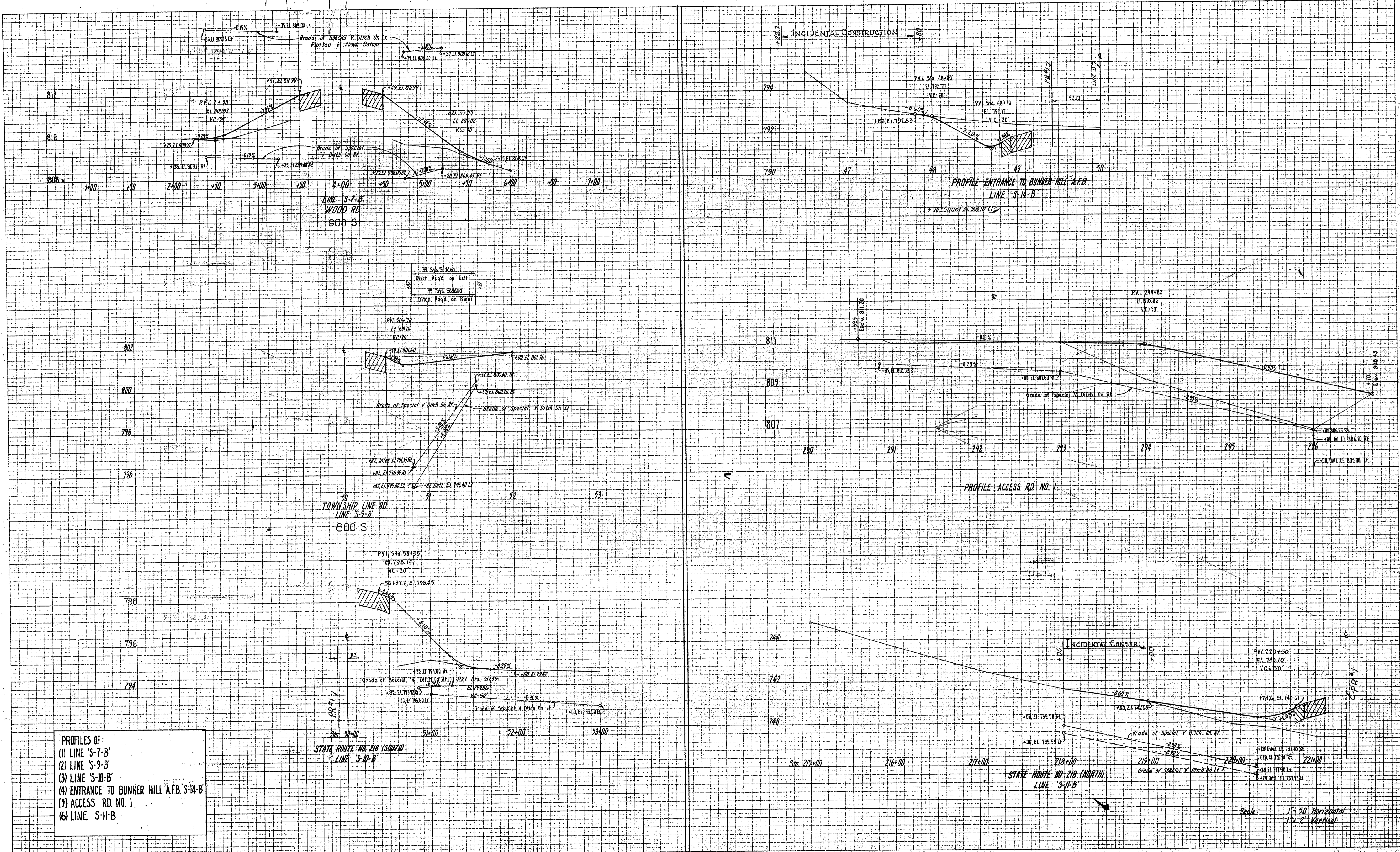
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F 70(9)	RR-1-B	20		

DATE: _____
BY: _____
CHECKED: _____
DATE: _____
NO. _____
PLAN
SURVEYED _____
NOTED _____
NOTE BOOK _____
ALIGNMENT CHECKED _____
BY _____
NO. _____

DATE: _____
BY: _____
CHECKED: _____
DATE: _____
NO. _____
PROFILE
SURVEYED _____
NOTED _____
NOTE BOOK _____
GRADES CHECKED _____
BY _____
NO. _____

CROSS SECTION

FED. RD. DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-70(9)	1964	21	



- PROFILES OF:
- (1) LINE 'S-7-B'
 - (2) LINE 'S-9-B'
 - (3) LINE 'S-10-B'
 - (4) ENTRANCE TO BUNKER HILL A.F.B. 'S-14-B'
 - (5) ACCESS RD. NO. 1
 - (6) LINE 'S-11-B'

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-70(9)	1964	21	

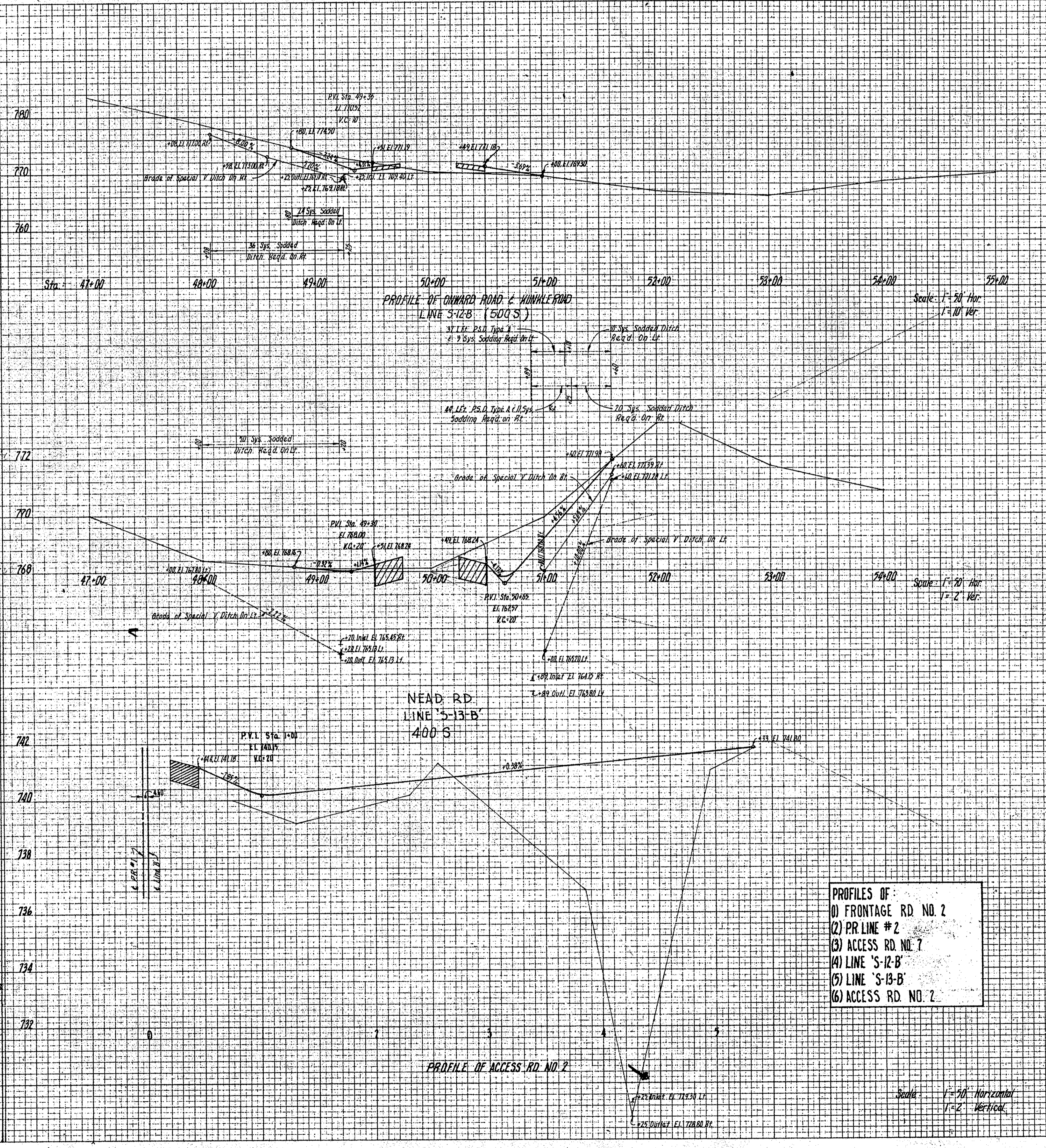
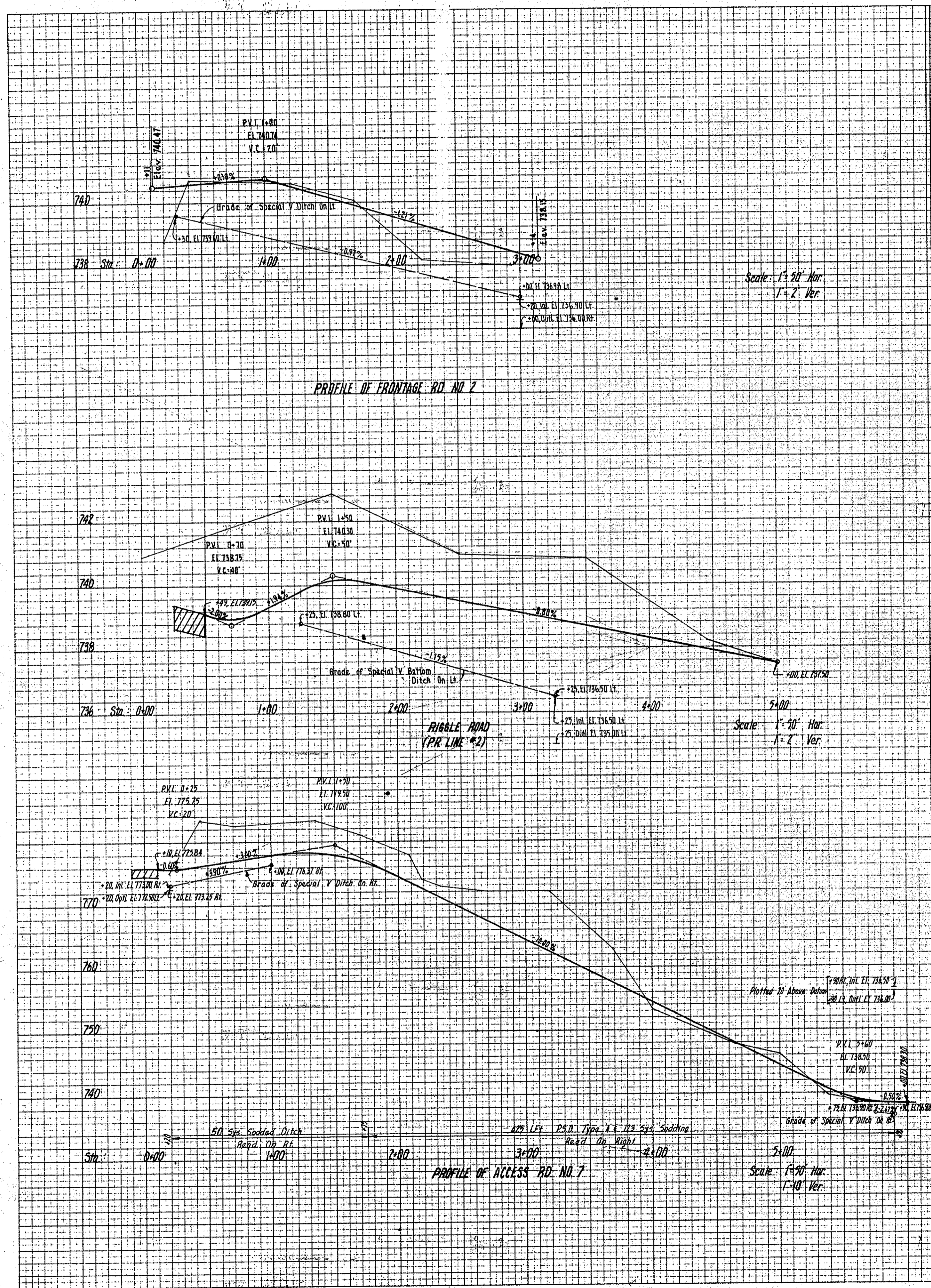
LEVEL BOOK NO. _____ FILE _____

Scale: 1" = 50' Horizontal, 1" = 2' Vertical

Handwritten: 10/1/65

CROSS SECTIONS

FED. RD. DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-70(9)	1964	22	



- PROFILES OF:
- (1) FRONTAGE RD. NO. 2
 - (2) PR LINE # 2
 - (3) ACCESS RD. NO. 7
 - (4) LINE 'S-12-B'
 - (5) LINE 'S-13-B'
 - (6) ACCESS RD. NO. 2

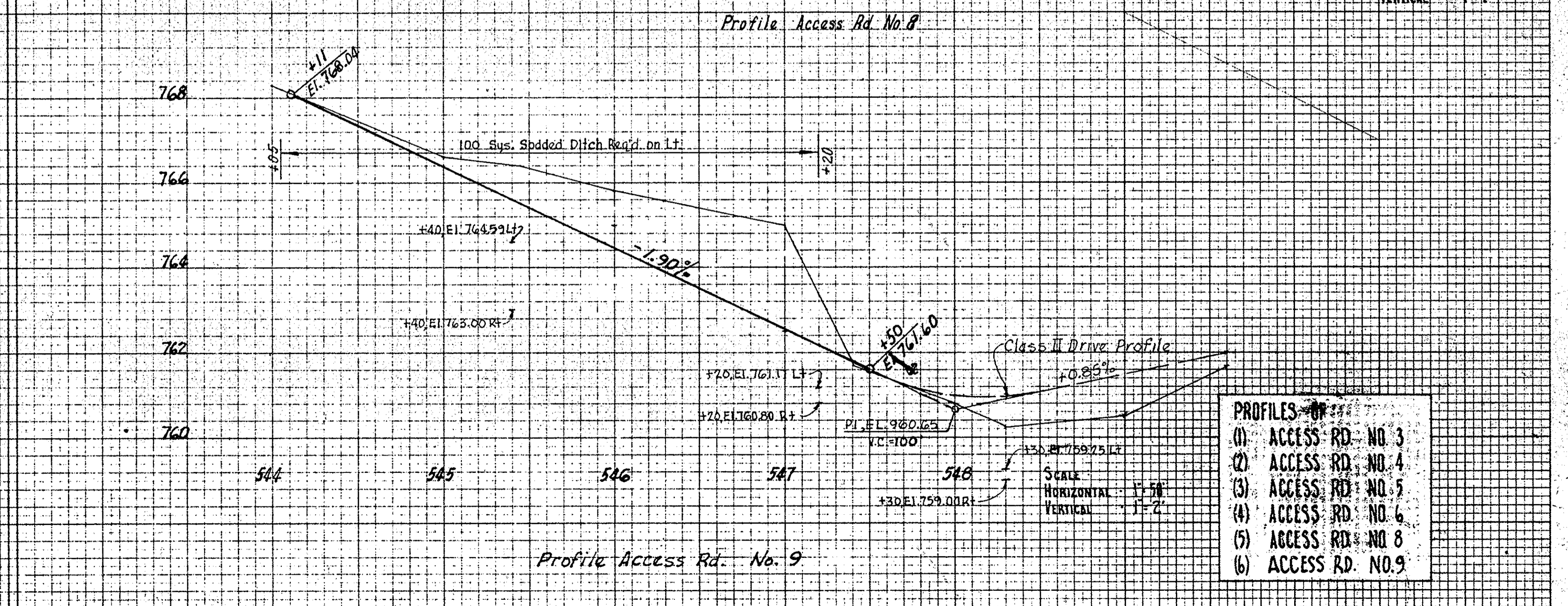
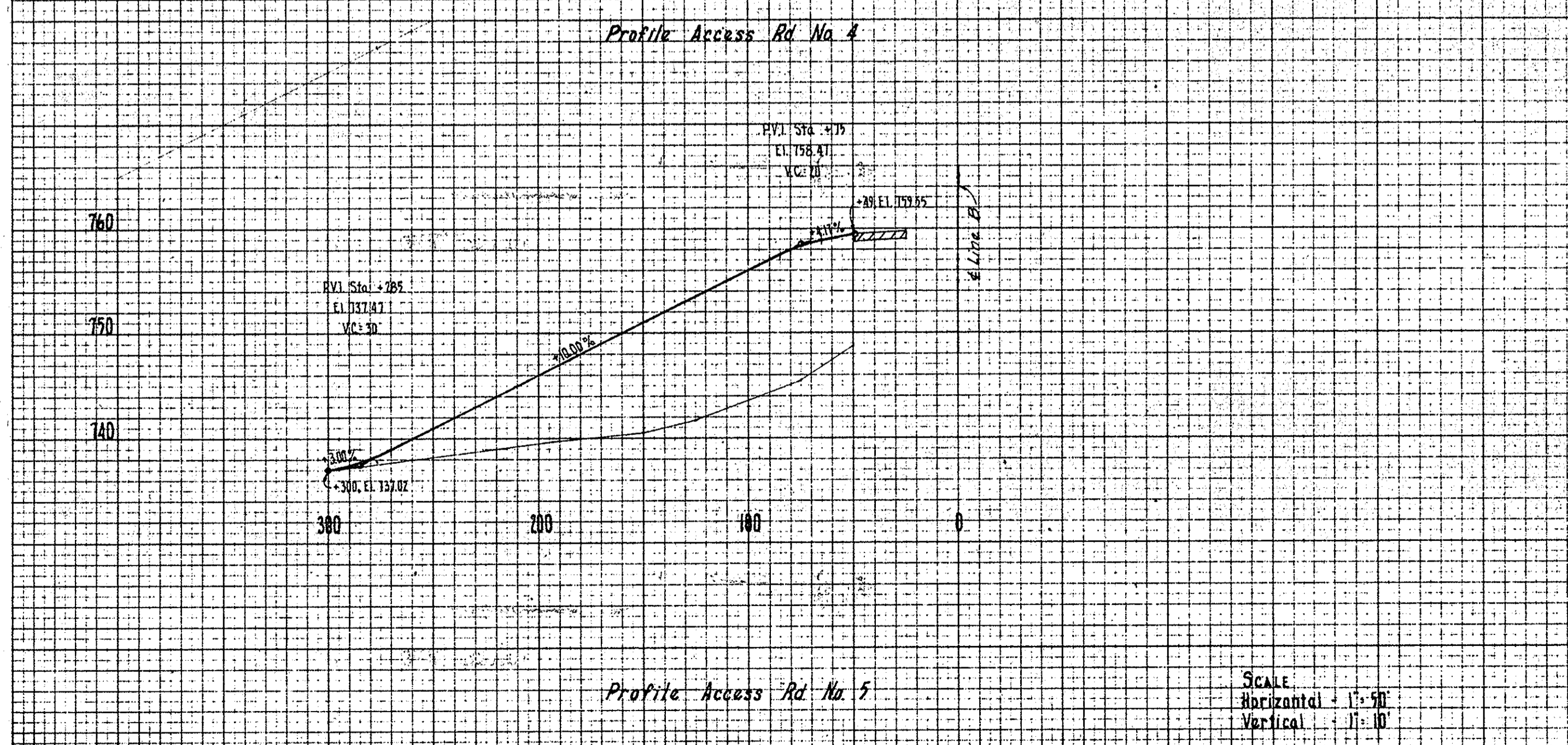
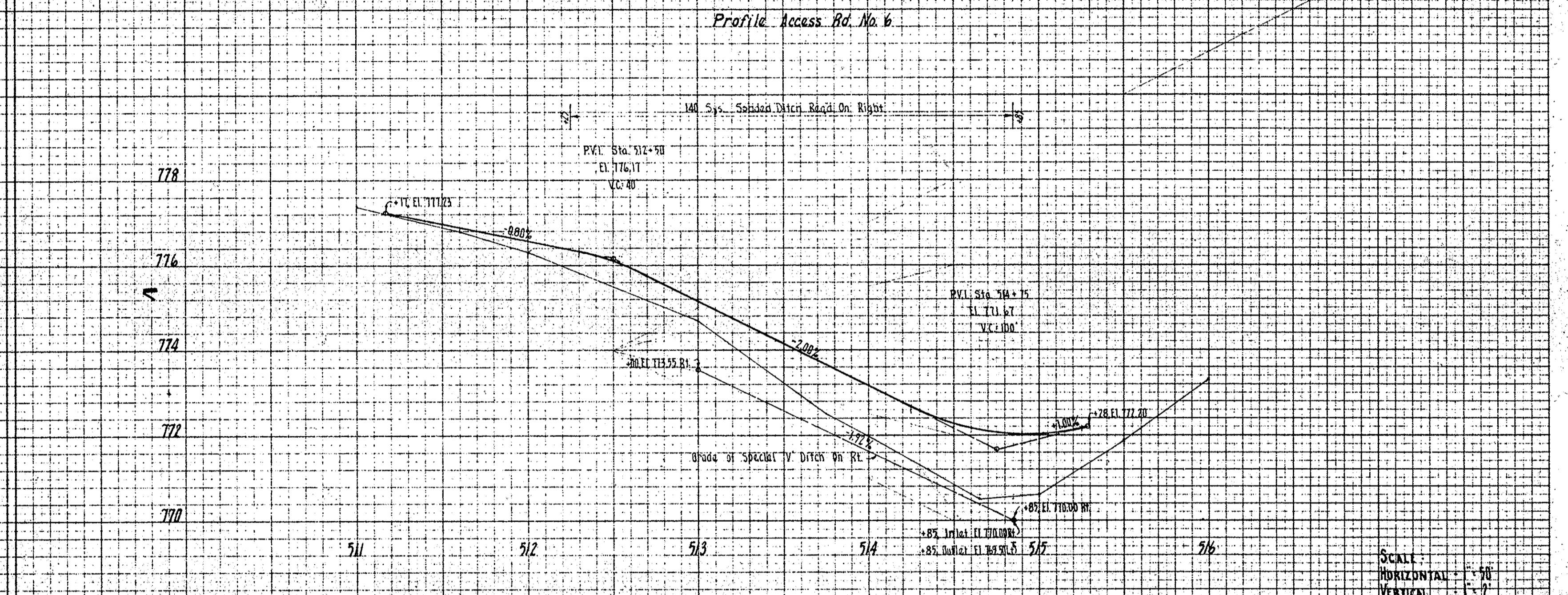
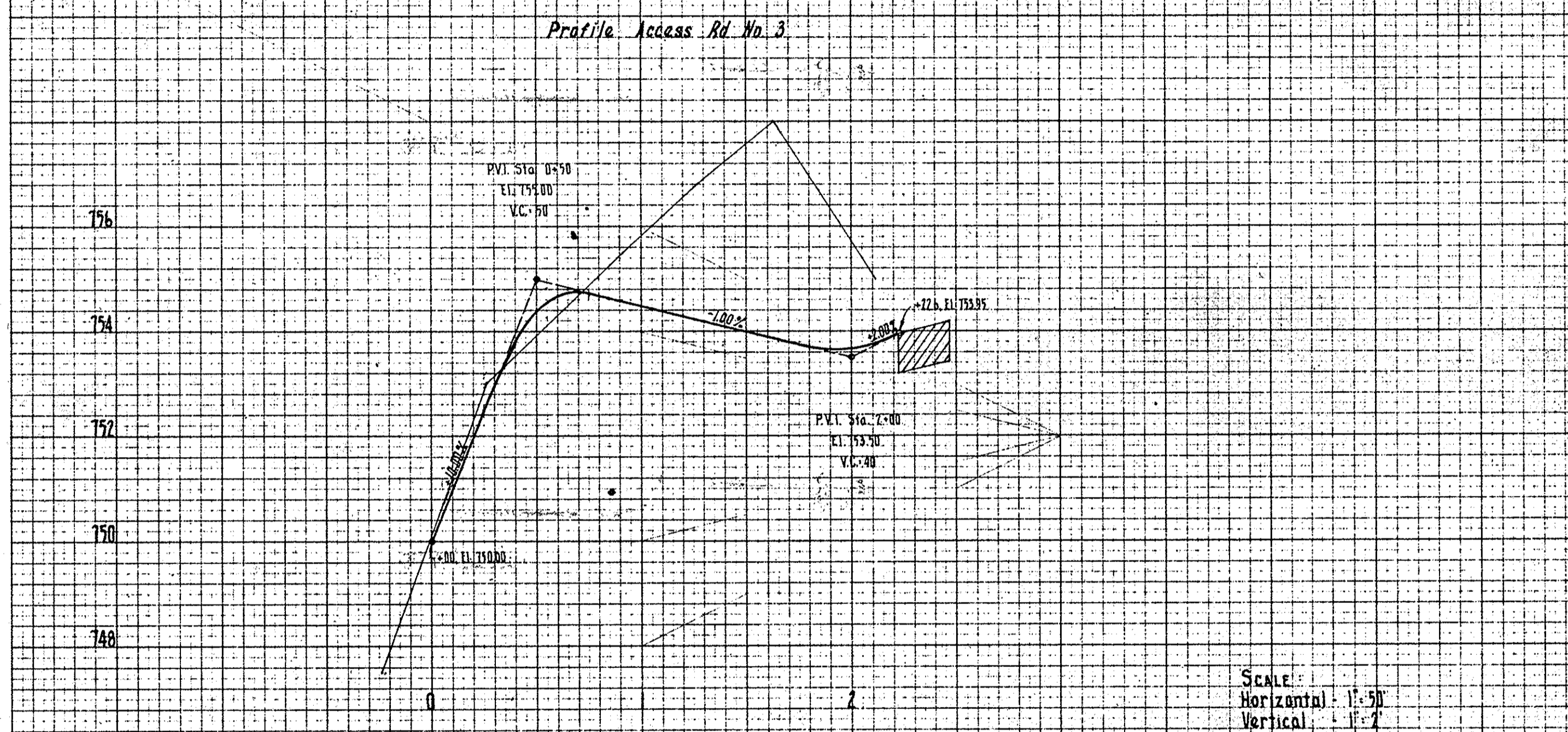
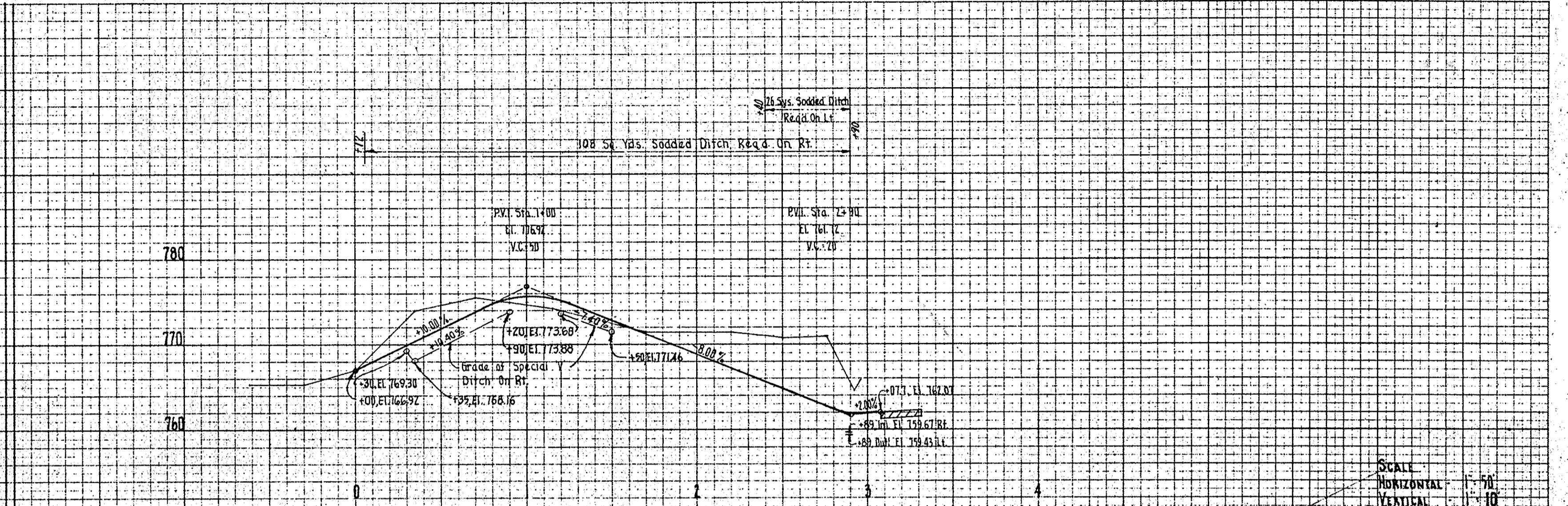
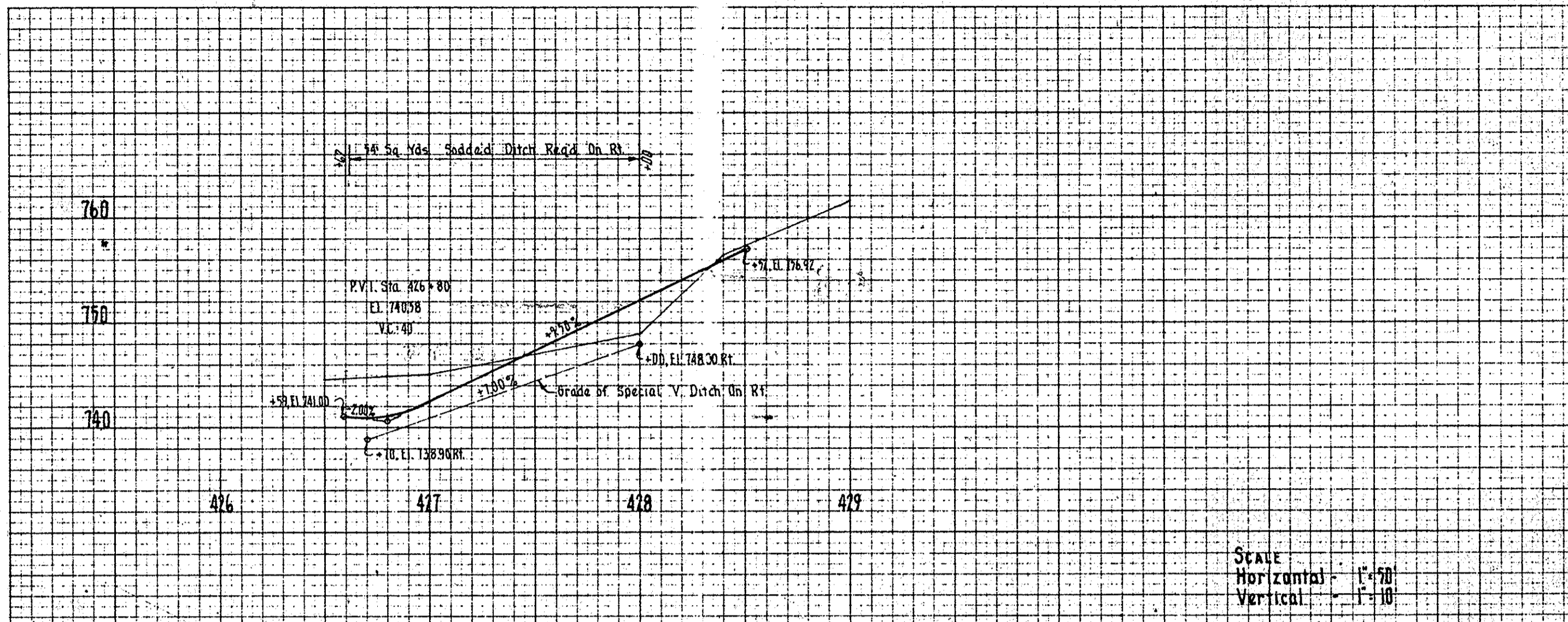
Dwyer
10/11/65

LEVEL BOOK NO.	FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	FILE SHEET NO.	TOTAL SHEETS
	4	IND.	F-70(9)	1964	22	

LINE

CROSS SECTIONS

FED. RD. DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	57-F-70(9)	1964	23	



- PROFILES
- (1) ACCESS RD. NO. 3
 - (2) ACCESS RD. NO. 4
 - (3) ACCESS RD. NO. 5
 - (4) ACCESS RD. NO. 6
 - (5) ACCESS RD. NO. 8
 - (6) ACCESS RD. NO. 9

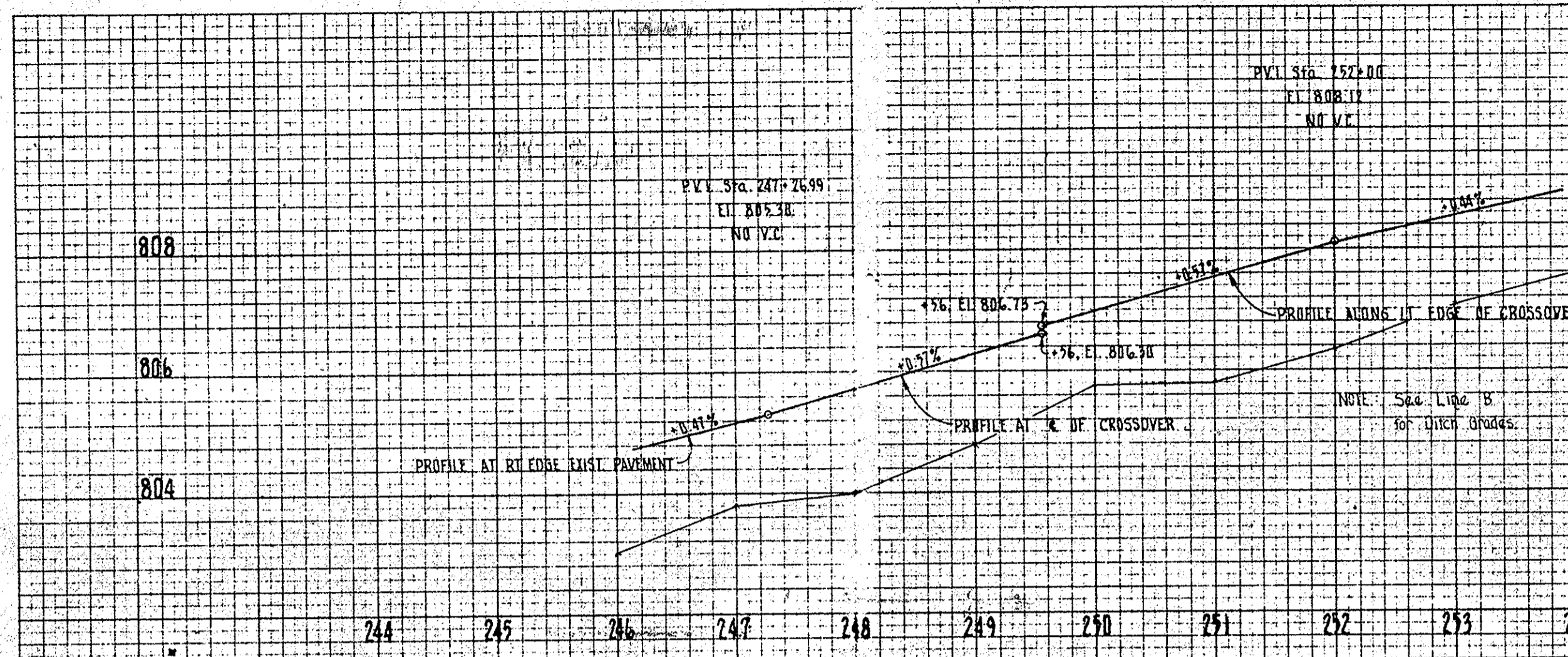
Blodgett
10/1/65

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	57-F-70(9)	1964	23	

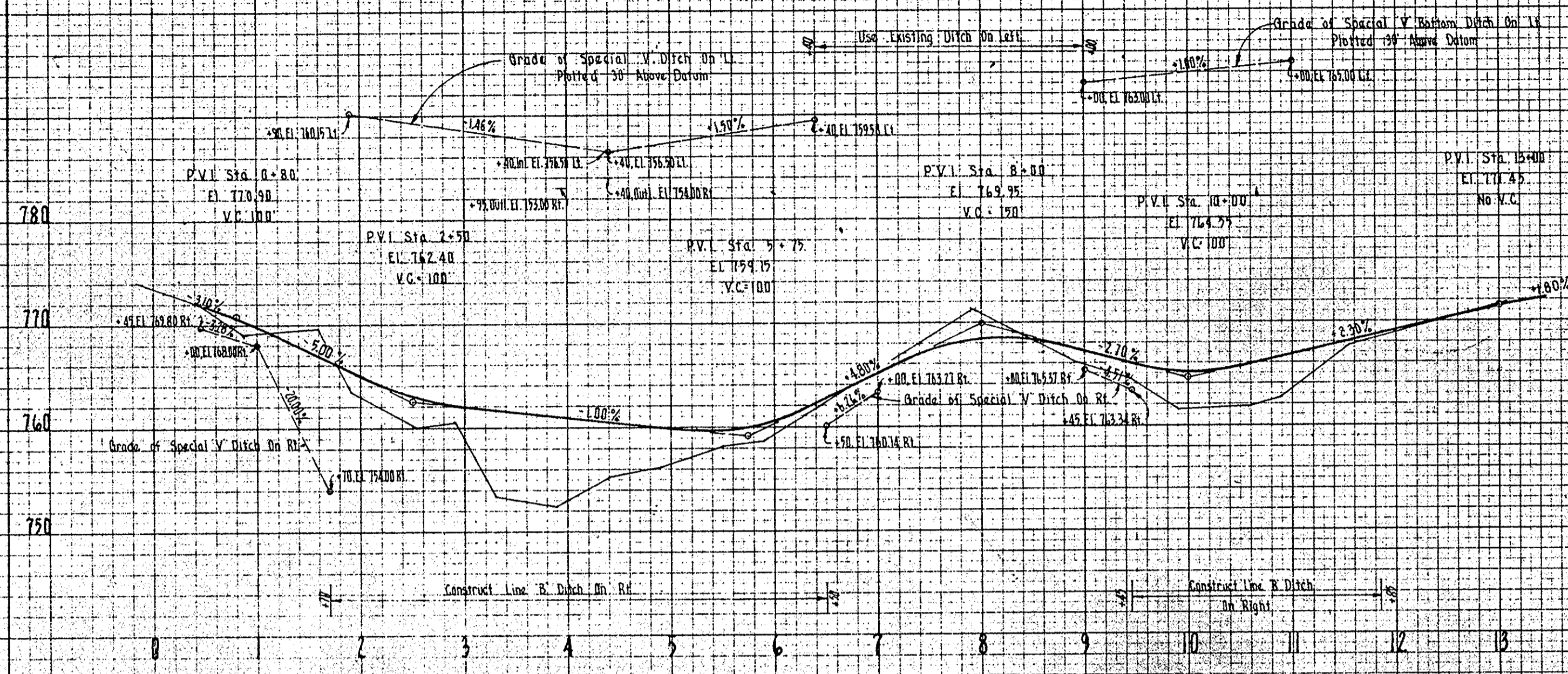
LINE

CROSS SECTIONS

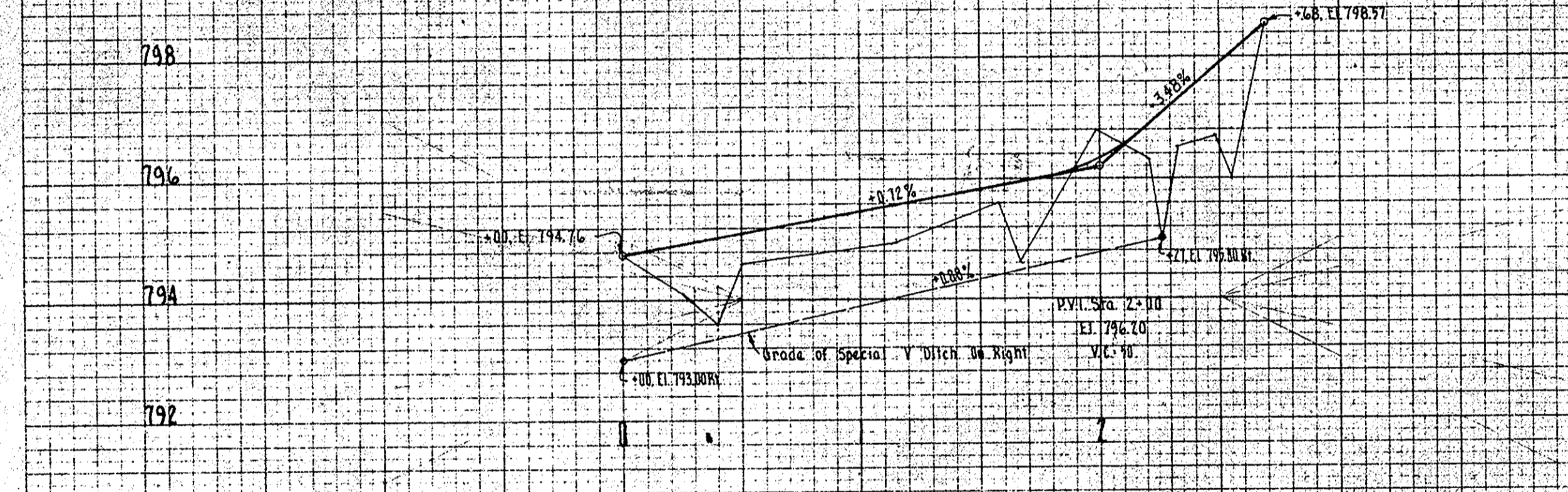
FED. RD. DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	57-F-70(9)	1964	24	



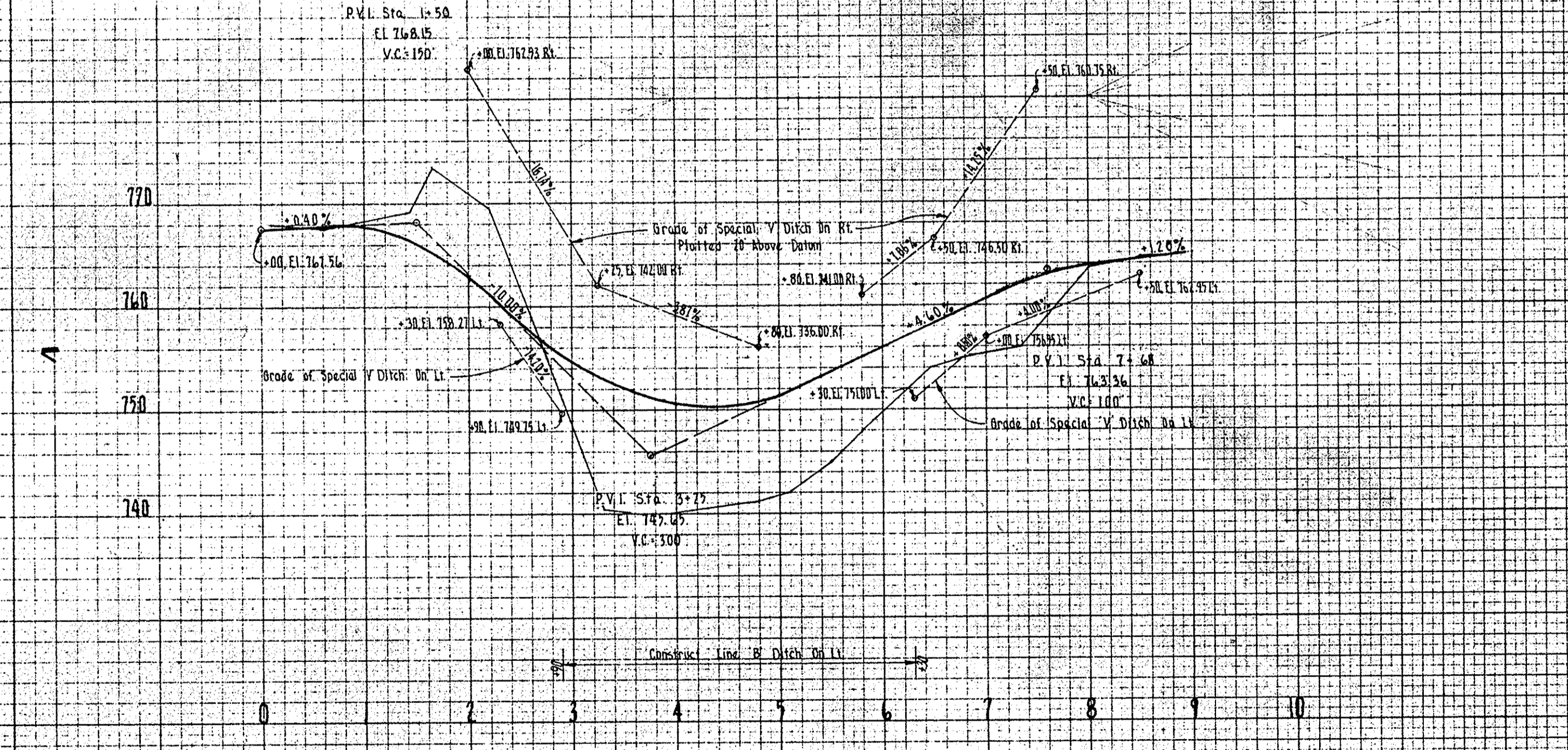
PROFILE OF TEMPORARY CROSSOVER TYPE I
Sta. 242+30.67 - 254+18.18



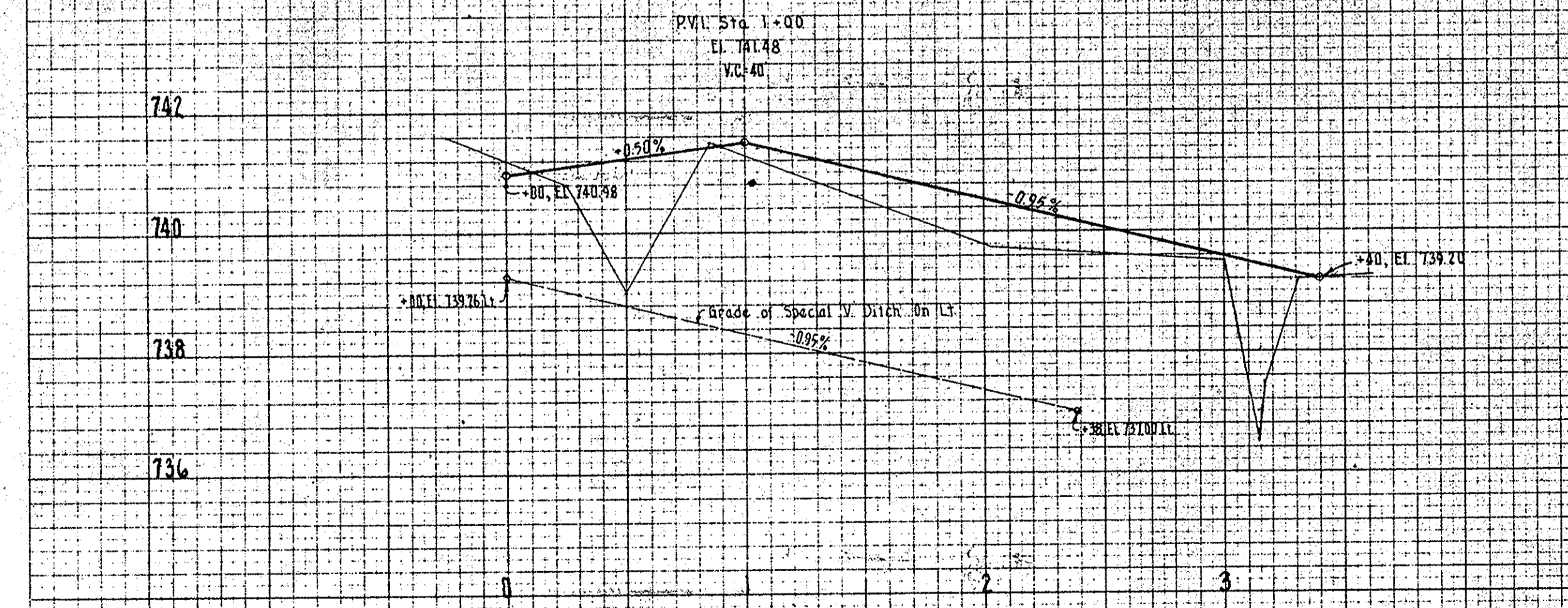
PROFILE TEMPORARY RUNAROUND STA. 494+176 - STA. 507+406



PROFILE TEMPORARY RUNAROUND AT S.R. 718 SOUTH



PROFILE TEMPORARY RUNAROUND STA. 461+426 - STA. 469+914



PROFILE OF TEMPORARY RUNAROUND AT S.R. 718 NORTH

- PROFILES OF X-OVERS & RUNAROUNDS AT:
- (1) Sta. 242+30.67 - Sta. 254+18
 - (2) S.R. 218 South
 - (3) S.R. 218 North
 - (4) Sta. 461+426 - Sta. 469+914
 - (5) Sta. 494+176 - Sta. 507+406

Butt 10/1/65

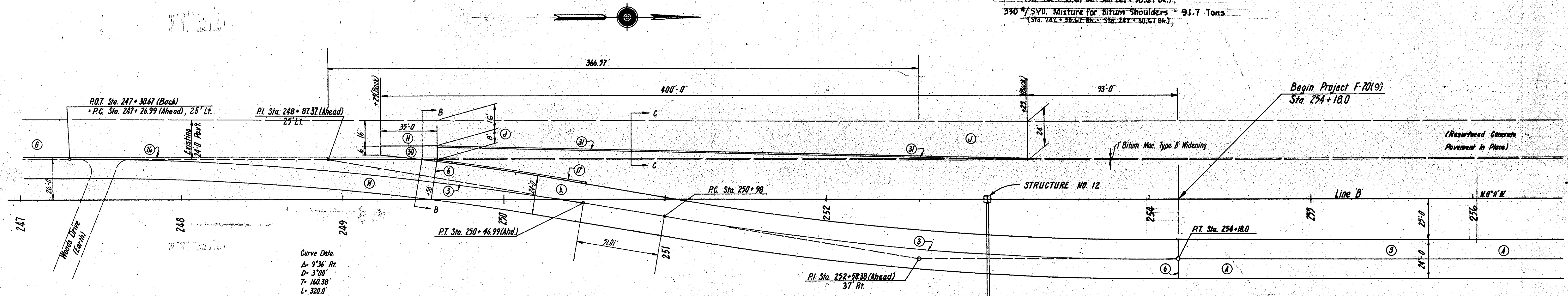
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-70(9)	1964	24	

LINE

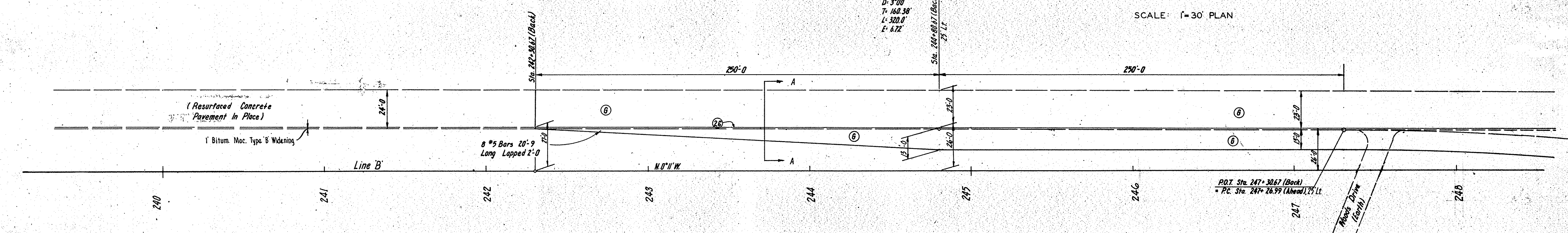
FED. ROAD DIST. NO.	STATE	ST-F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(9)	1964	25	

RESURFACE QUANTITIES NOT SHOWN ON APPROACH DATA TABLE

90#/SYD Mixture for Bitum. Shoulders = 87.5 Tons
(Sta. 242+36.67 Bk. - Sta. 249+60 Bk.)
 180#/SYD Mixture for Bitum. Shoulders = 80.0 Tons
(Sta. 249+60 Bk. - Sta. 253+25 Bk.)
 8" Cement Conc. Base = 556 SYD
(Sta. 242+30.67 Bk. - Sta. 247+30.67 Bk.)
 330#/SYD Mixture for Bitum. Shoulders = 91.7 Tons
(Sta. 242+30.67 Bk. - Sta. 247+30.67 Bk.)



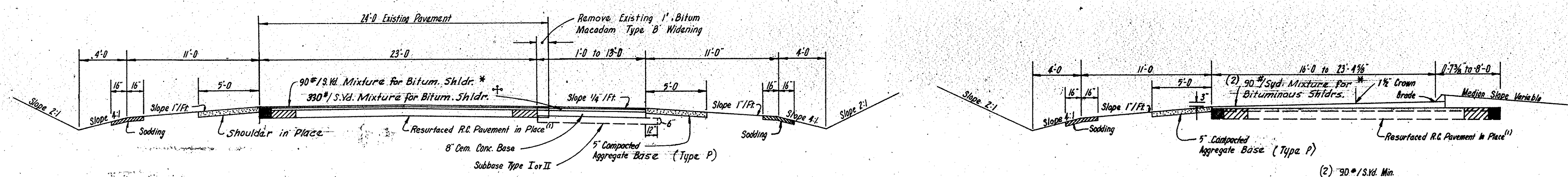
TEMPORARY CROSSOVER TYPE I
SCALE: 1" = 30' PLAN



NOTE: 330#/SYD Mixture for Bitum. Shoulders
Composed of Either:
 (1) 90#/SYD H.A.C. Surface Type B on
240#/SYD H.A.C. Base.
 (2) 90#/SYD Bitum. Coated Blended Agg. Surface Type III on
240#/SYD Bitum. Coated Blended Agg. Base.
 * 90#/SYD Mixture for Bitum. Shoulders
Composed of Either:
 (1) H.A.C. Surface Type B or
 (2) Bitum. Coated Blended Agg. Surface Type III

- LEGEND**
- ③ Longitudinal Joint
 - ④ Construction Joint
 - ⑤ Integral Concrete Curb Type 'B'
 - ⑥ Dowel Joint (See Spec. Prov.)
 - ⑦ Bituminous Center Curb Type 'B'
 - ⑧ Bituminous Curb
 - ⑨ Reinforced Conc. Pavement, 9"
 - ⑩ See Section 'A-A'
 - ⑪ See Section 'B-B'
 - ⑫ See Section 'C-C'

SECTION B-B



SECTION A-A

SCALE: 3/16" = 1'-0"

SECTION C-C

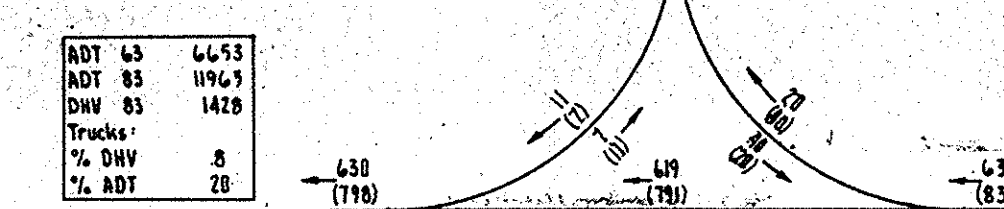
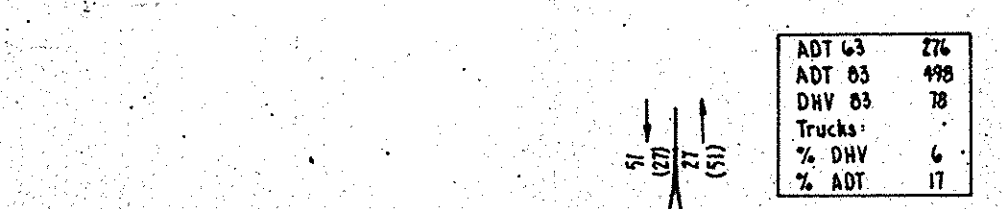
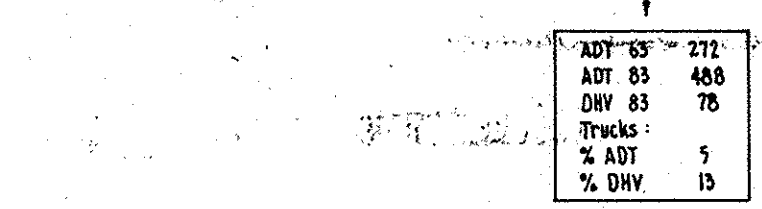
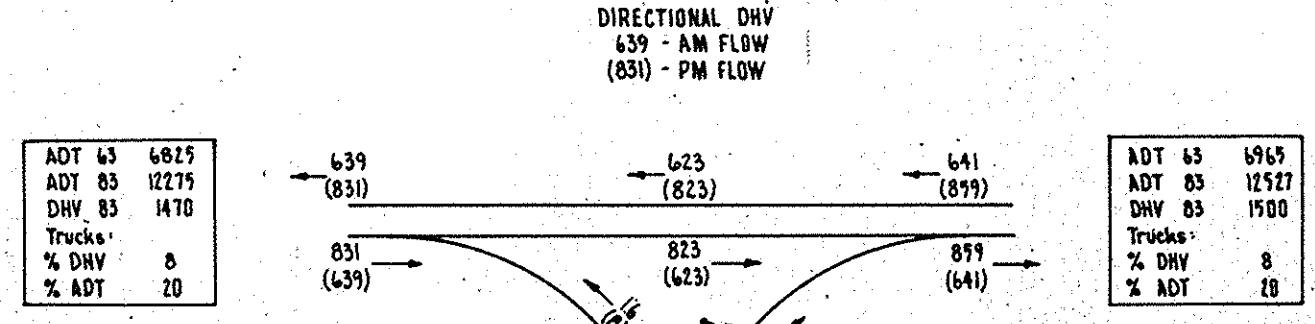
DETAILS

PROJ. NO.	LINE	SHEET NO.	FILE
F-70(9)	B	25	

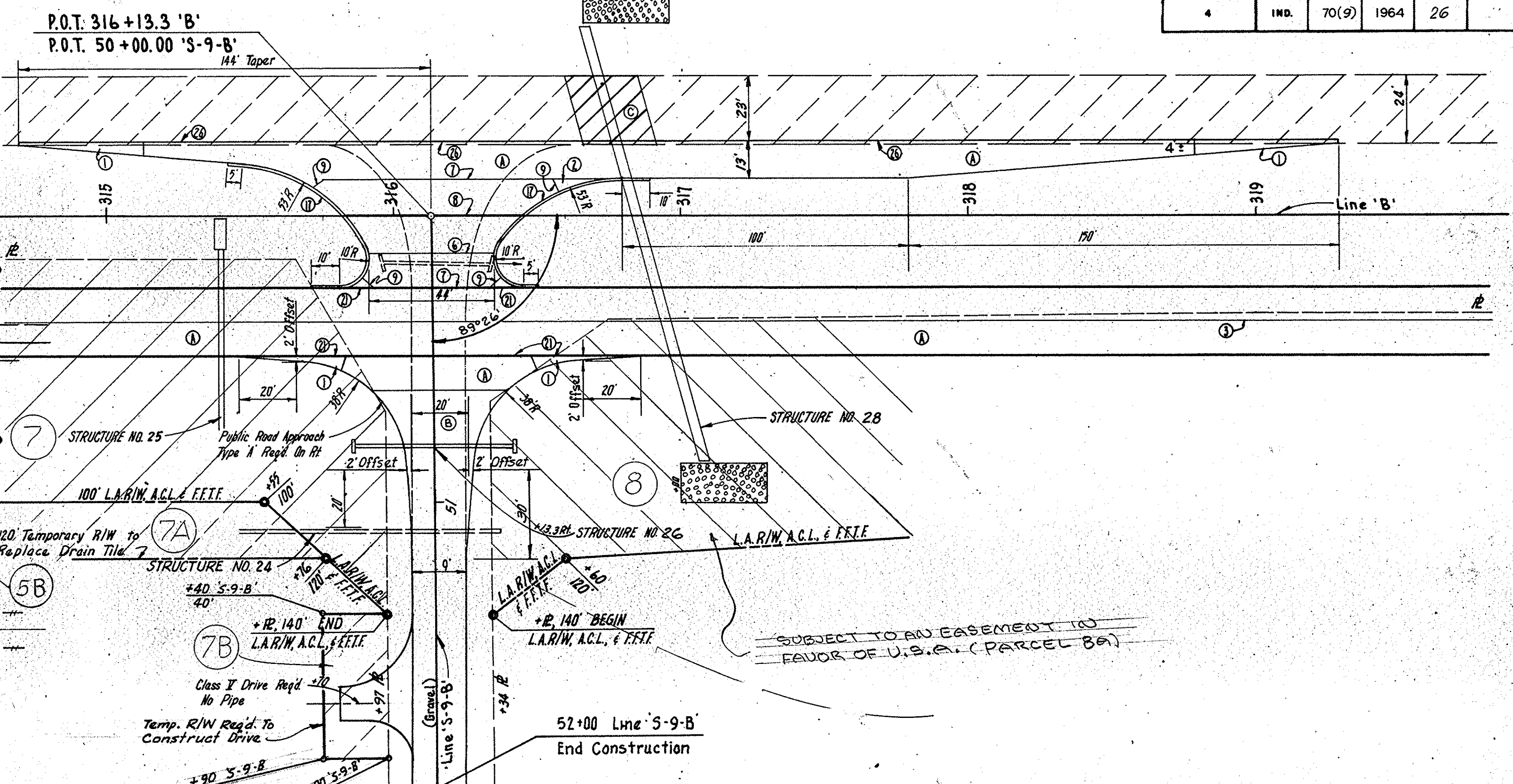
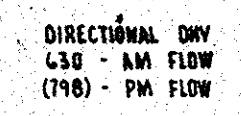
10/1/65

FED. ROAD REG. NO.	STATE	ST-F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(9)	1964	26	

DESIGN HOURLY VOLUME ESTIMATED FOR 1983
 AT TOWNSHIP LINE RD. (S-9-B)

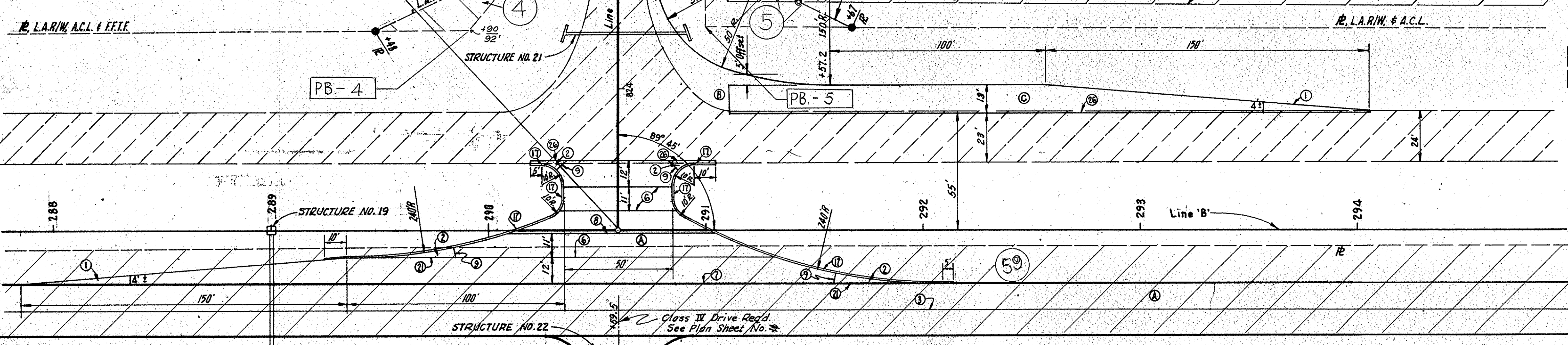


DESIGN HOURLY VOLUME ESTIMATED FOR 1983
 AT OLD S.R. 218 (S-8-B)



INTERSECTION DETAIL AT TOWNSHIP LINE ROAD (800S)
 LINE 'S-9-B' AT STA. 316+13.3 LINE 'B'

P.O.T. 290+59.5 'B'
 P.O.T. 824+65.3 'S-8-B'



INTERSECTION DETAIL AT OLD S.R. 218 (850S)
 LINE 'S-8-B' AT STA. 290+59.5 LINE 'B'

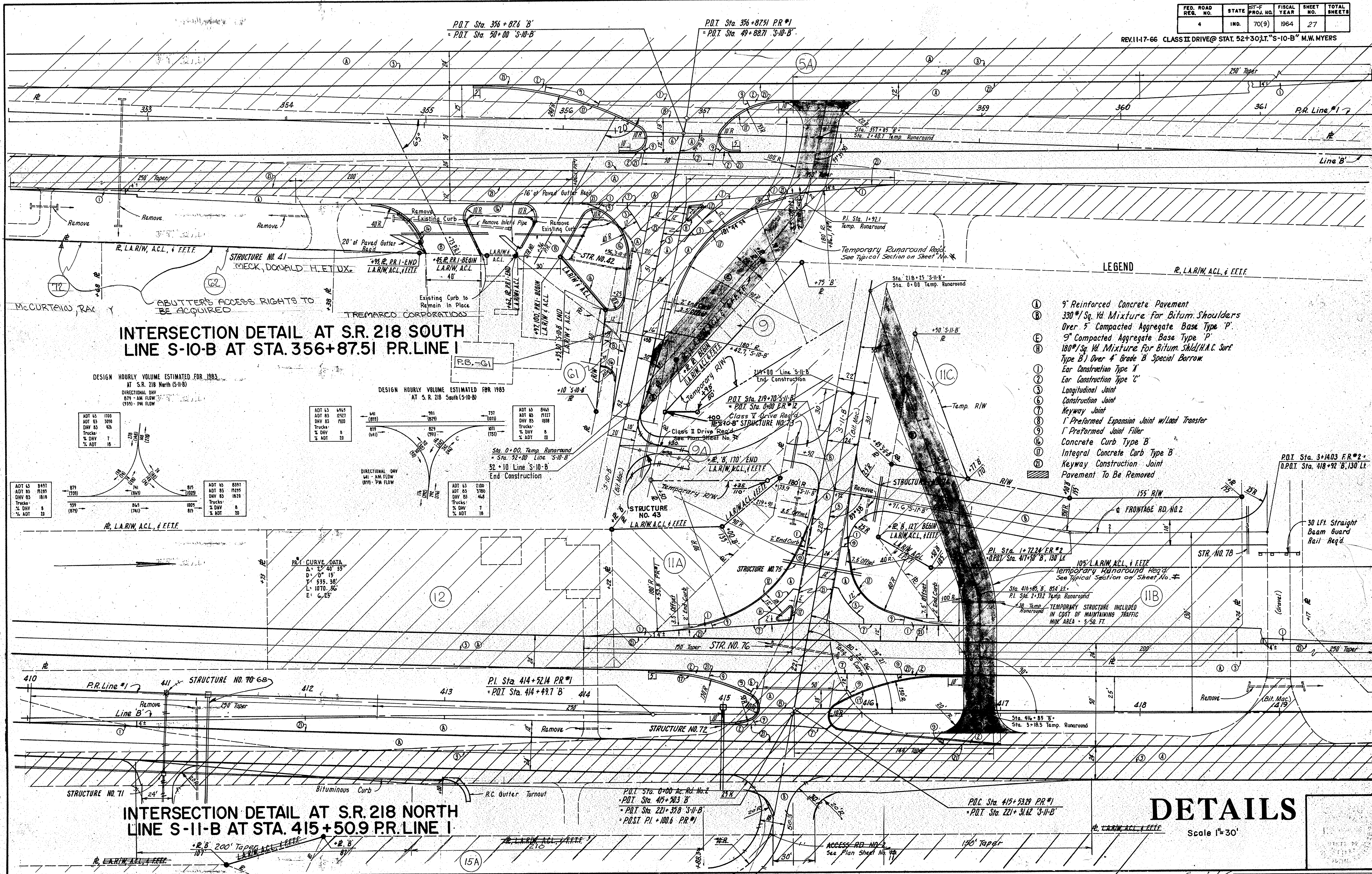
LEGEND

- ① 9" Reinforced Concrete Pavement
- ② 330#/S.Y.D. Mixture for Bituminous Shoulder over 5" Compacted Aggregate Type 'P'
- ③ 350#/S.Y.D. Mixture for Bituminous Shoulder over 8" Cement Concrete Base
- ④ Ear Construction Type 'A'
- ⑤ Ear Construction Type 'C'
- ⑥ Longitudinal Joint
- ⑦ Construction Joint
- ⑧ Keyway Joint
- ⑨ 1" Preformed Expansion Joint w/Load Transfer
- ⑩ Preformed Joint Filler
- ⑪ Concrete Curb Type 'B'
- ⑫ Integral Concrete Curb Type 'B'
- ⑬ Keyway Construction Joint
- ⑭ Dowel Joint (See Special Provisions)
- ▨ Pavement to be Removed
- ▩ Existing Pavement to Remain in Place

DETAILS
 Scale 1" = 30'

FED. ROAD REG. NO.	STATE	ST-F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(9)	1964	27	

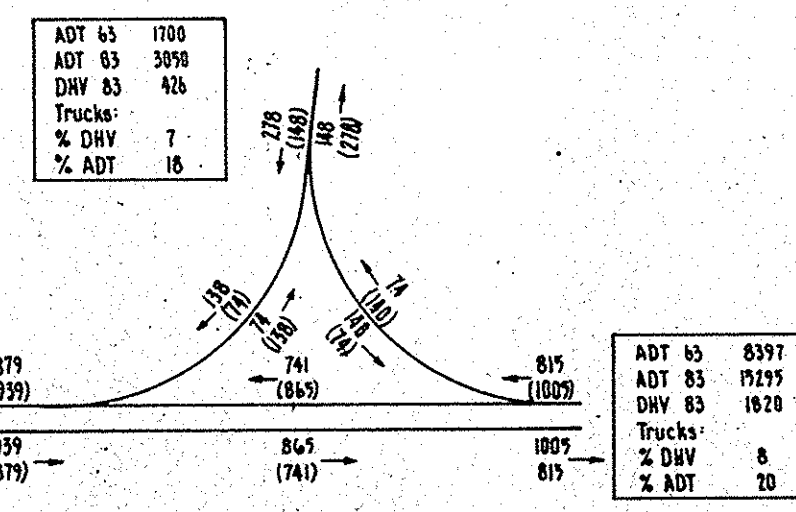
REV. 11-7-66 CLASS II DRIVE @ STAT. 52+30.1 "S-10-B" M.W. MYERS



INTERSECTION DETAIL AT S.R. 218 SOUTH LINE S-10-B AT STA. 356+87.51 PR. LINE I

DESIGN HOURLY VOLUME ESTIMATED FOR 1983
 AT S.R. 218 North (S-10-B)
 DIRECTIONAL D.V.
 879 - AM FLOW
 (339) - PM FLOW

DESIGN HOURLY VOLUME ESTIMATED FOR 1983
 AT S.R. 218 South (S-10-B)



PR. 1 CURVE DATA
 Δ: 27° 40' 35"
 D: 17' 15"
 T: 538.38'
 L: 1070.56'
 E: 6.25'

INTERSECTION DETAIL AT S.R. 218 NORTH LINE S-11-B AT STA. 415+50.9 PR. LINE I

DETAILS

Scale 1"=30'

- LEGEND**
- (A) 9" Reinforced Concrete Pavement
 - (B) 330#/Sq. Yd. Mixture for Bitum. Shoulders Over 5" Compacted Aggregate Base Type 'P'
 - (C) 9" Compacted Aggregate Base Type 'P'
 - (D) 180#/Sq. Yd. Mixture for Bitum. Shld./H.A.C. Surf Type B) Over 4" Grade B Special Borrow.
 - (1) Ear Construction Type 'A'
 - (2) Ear Construction Type 'C'
 - (3) Longitudinal Joint
 - (4) Construction Joint
 - (5) Keyway Joint
 - (6) 1" Preformed Expansion Joint w/Load Transfer
 - (7) Preformed Joint Filler
 - (8) Concrete Curb Type 'B'
 - (9) Integral Concrete Curb Type 'B'
 - (10) Keyway Construction Joint
 - (11) Pavement To Be Removed

PROJ. NO.	LINE	SHEET NO.	FILE
F. 70 (9)	P.R. I	27	

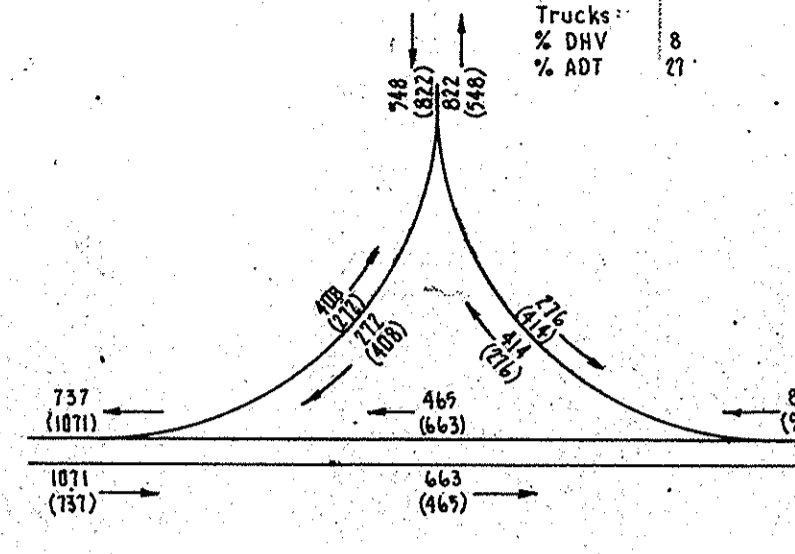
10/165

FED. ROAD REG. NO.	STATE	SP-F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(9)	1964	28	

Rev. 6-29-66: Eliminate "Reset" C.L. Security Fence, Use New C.L.S.F.

DESIGN HOURLY VOLUME ESTIMATED FOR 1963 AT B.H.A.F.B.
DIRECTIONAL DIV
7:37 - AM FLOW
(0:01) - PM FLOW

ADT 63 8465
ADT 83 19227
DHW 83 1806
Trucks: 8
% DHV 8
% ADT 18



For Profile of Line S-14-B
See Sheet No. 21

BEGIN CONSTRUCTION
Sta. 47+80 'S-14-B'
LIMITS OF CONSTRUCTION AREA

STRUCTURE NO. 53
Class II Drive Req'd

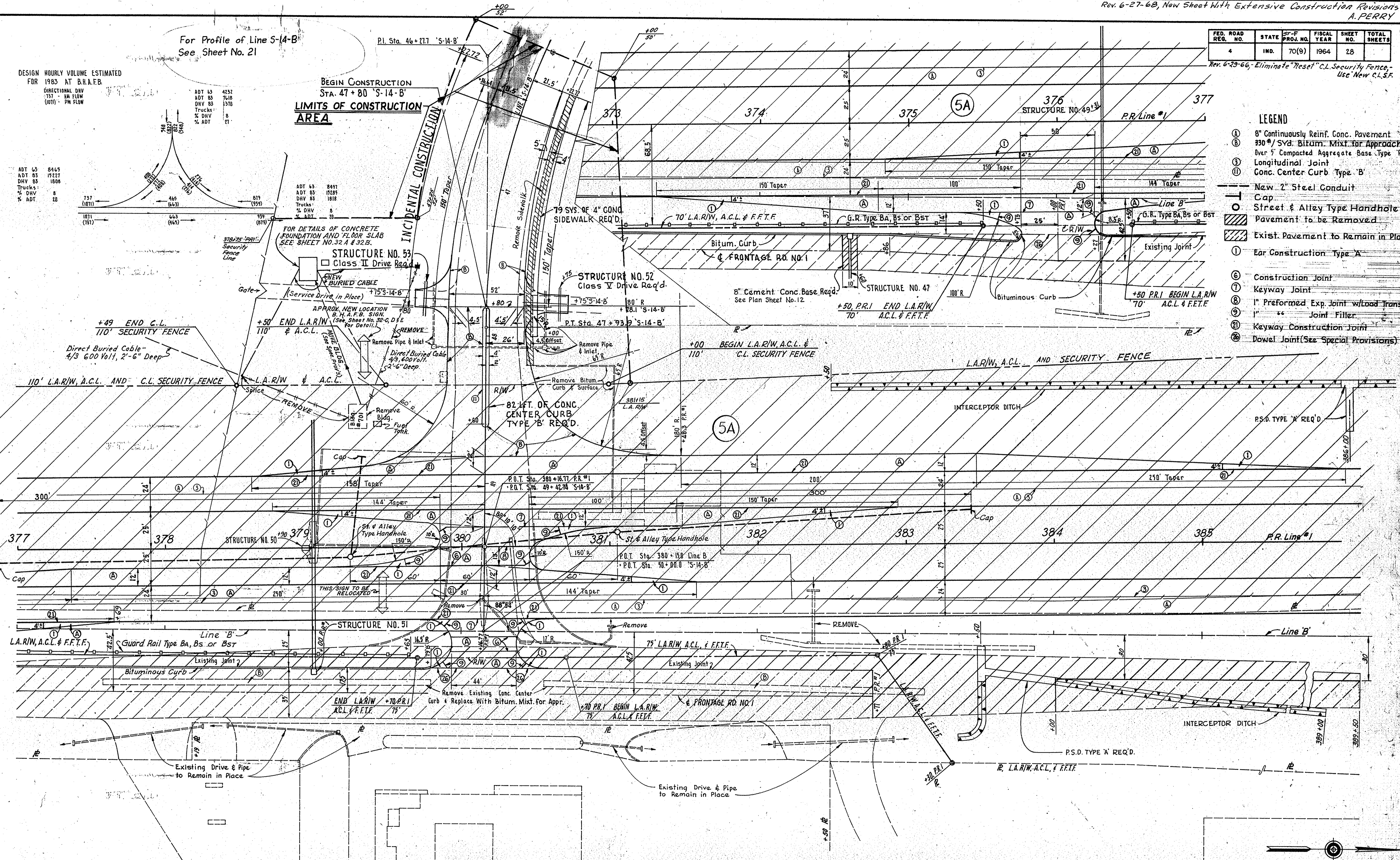
STRUCTURE NO. 52
Class V Drive Req'd

STRUCTURE NO. 51

INTERSECTION AT BUNKER HILL AIR FORCE BASE
(LINE 'S-14-B')

LEGEND

- ① 8" Continuously Reinf. Conc. Pavement
- ② 330#/SYD. Bitum. Mixt. for Approaches over 5' Compacted Aggregate Base Type 'P'
- ③ Longitudinal Joint
- ④ Conc. Center Curb Type 'B'
- New 2" Steel Conduit
- Cap
- Street & Alley Type Handhole
- ▨ Pavement to be Removed
- ▨ Exist. Pavement to Remain in Place
- ① Ear Construction Type 'A'
- ⑥ Construction Joint
- ⑦ Keyway Joint
- ⑧ 1" Preformed Exp. Joint w/Load Transfer
- ⑨ Joint Filler
- ⑩ Keyway Construction Joint
- ⑪ Dowel Joint (See Special Provisions)

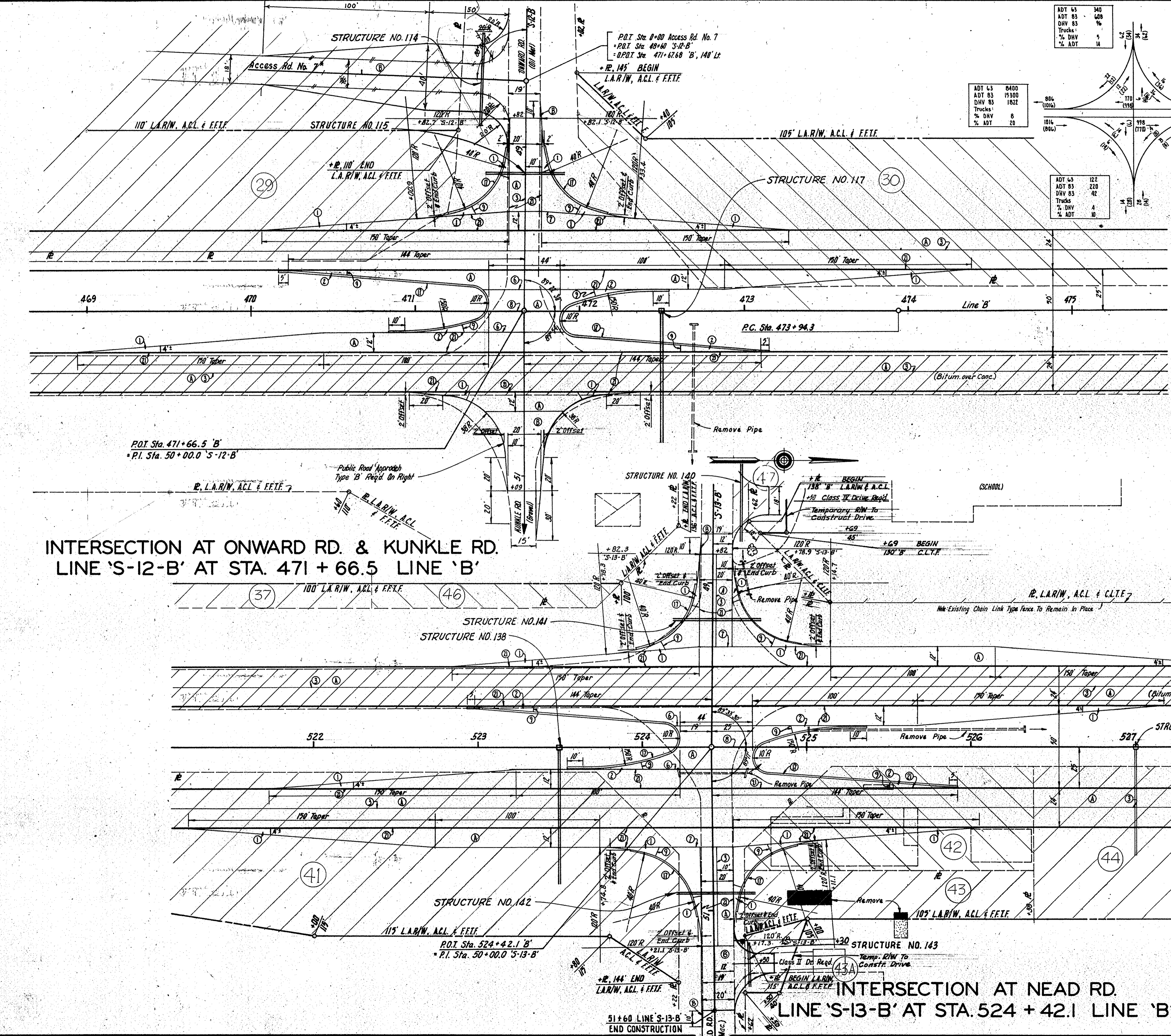


DETAILS

SCALE: 1" = 30'

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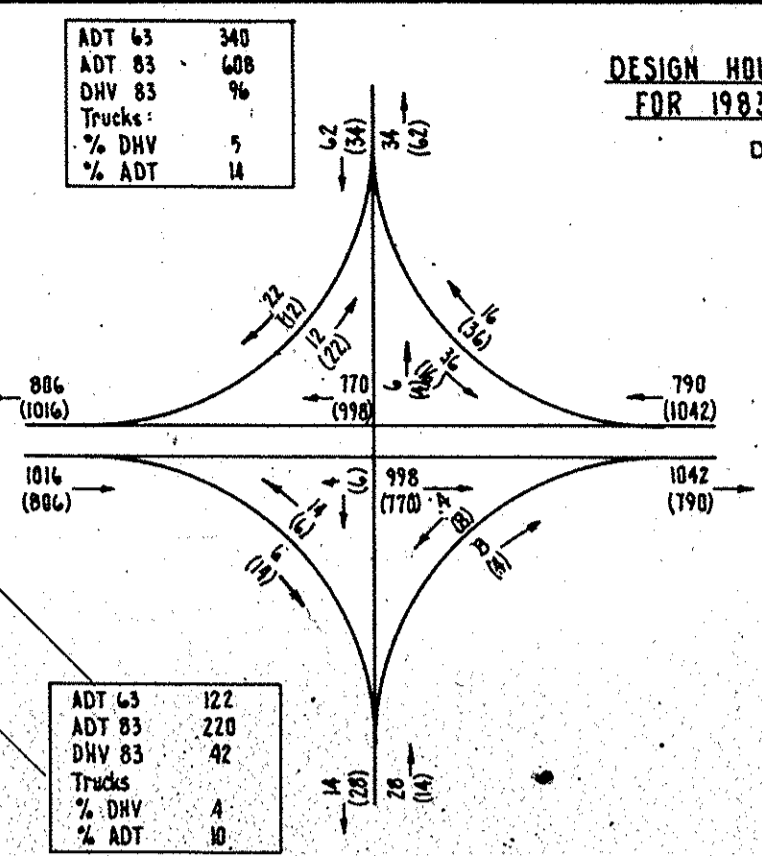
PROJ. NO.	LINE	SHEET NO.	FILE
F-10(9)	P.R.1	28	



INTERSECTION AT ONWARD RD. & KUNKLE RD.
LINE 'S-12-B' AT STA. 471 + 66.5 LINE 'B'

INTERSECTION AT NEAD RD.
LINE 'S-13-B' AT STA. 524 + 42.1 LINE 'B'

DESIGN HOURLY VOLUME ESTIMATED FOR 1983 AT KUNKLE & ONWARD RD.



FED. ROAD REG. NO.	STATE	ST-F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(9)	1964	29	

Rev. 10-27-67, Entrance to Access Rd. No. 7 At Sta. 48+60 "S-12-B" (Onward Road). Rev. By Road Design

ADT 63	340
ADT 83	408
DHV 83	%
Trucks	%
% DHV	8
% ADT	14

ADT 43	8400
ADT 83	19300
DHV 83	1822
Trucks	%
% DHV	8
% ADT	20

ADT 43	127
ADT 83	220
DHV 83	42
Trucks	%
% DHV	4
% ADT	10

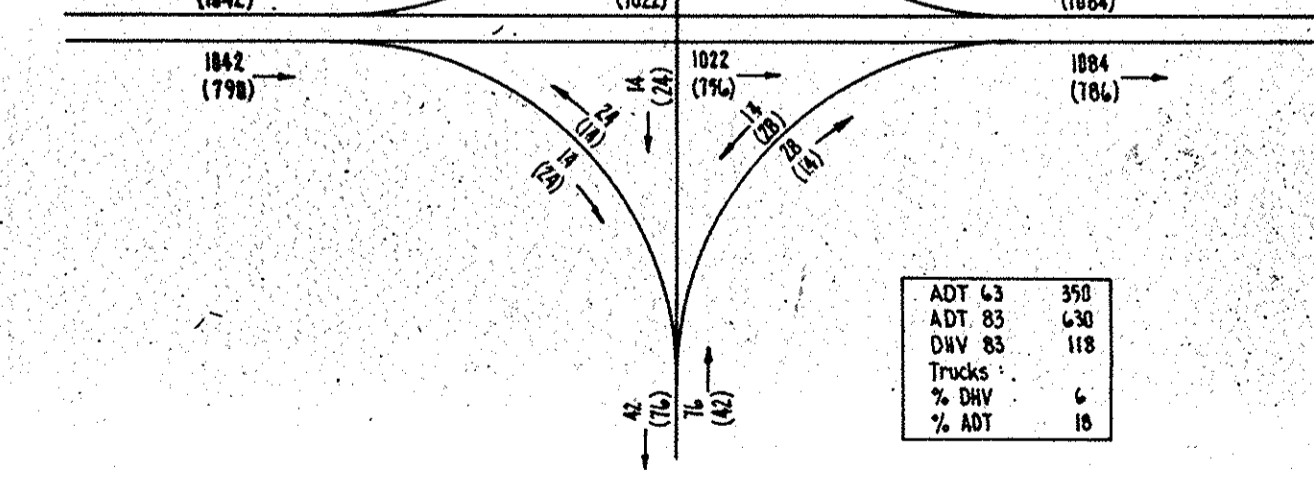
ADT 43	8454
ADT 83	19392
DHV 83	1852
Trucks	%
% DHV	8
% ADT	20

- LEGEND**
- (A) 9" R.C. Pavement
 - (B) 330#/Sq. Yd. Mixture for Bitum. Shoulders Over 5" Compacted Aggregate Base Type 'P'
 - (1) Ear Construction Type 'A'
 - (2) Ear Construction Type 'B'
 - (3) Longitudinal Joint
 - (4) Construction Joint
 - (5) Keyway Joint
 - (6) Preformed Expansion Joint w/ Load Transfer
 - (7) Preformed Joint Filler
 - (8) Integral Conc. Curb Type 'B'
 - (9) Keyway Construction Joint
 - //// Pavement To Be Removed

ADT 43	380
ADT 83	460
DHV 83	184
Trucks	%
% DHV	7
% ADT	20

ADT 43	8454
ADT 83	19392
DHV 83	1852
Trucks	%
% DHV	8
% ADT	20

ADT 43	8784
ADT 83	19444
DHV 83	1870
Trucks	%
% DHV	8
% ADT	20



DESIGN HOURLY VOLUME ESTIMATED FOR 1983 AT NEAD ROAD (S-13-B)

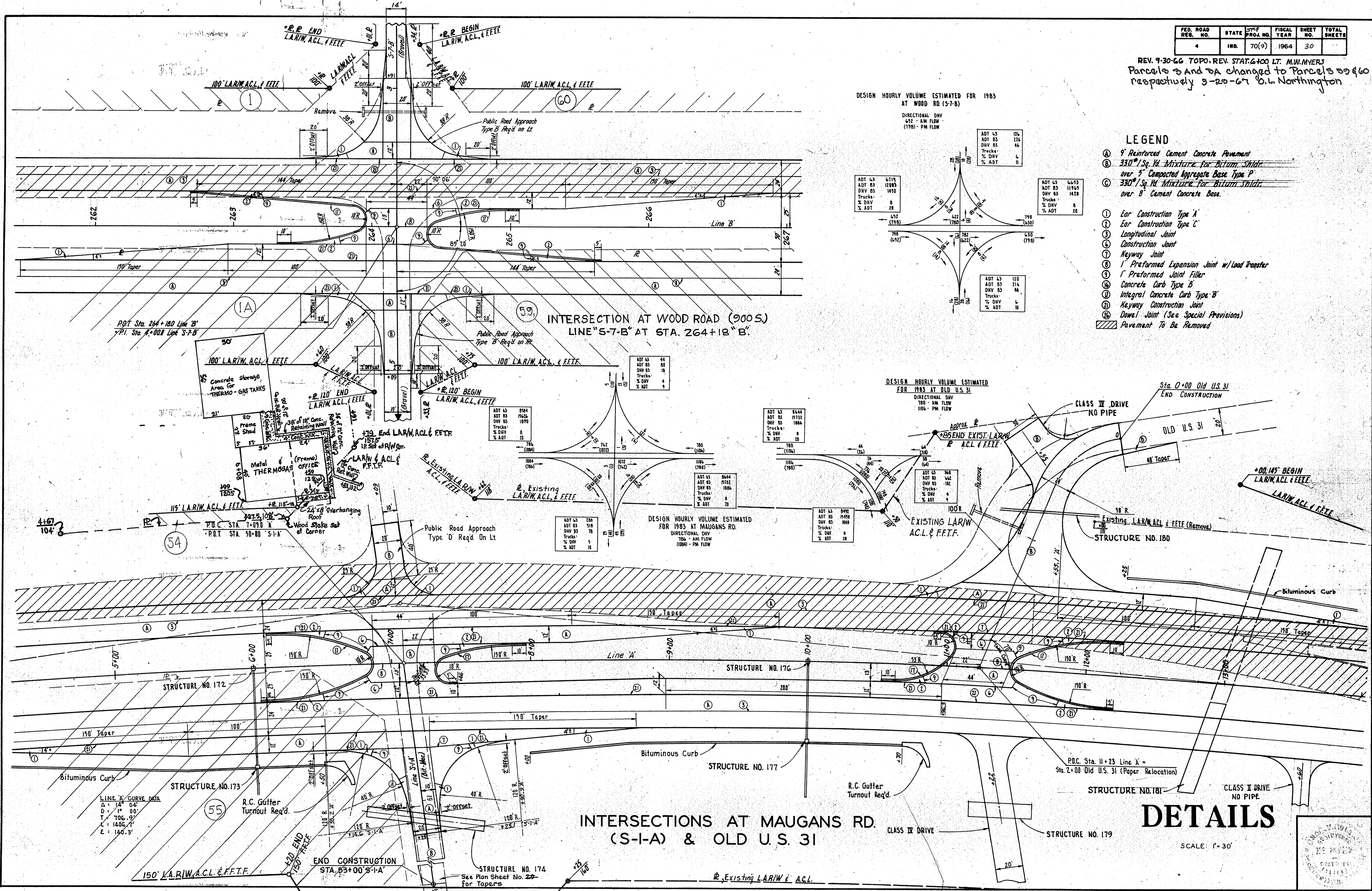
DIRECTIONAL DHV
790 - AM FLOW
(1842) - PM FLOW

DETAILS

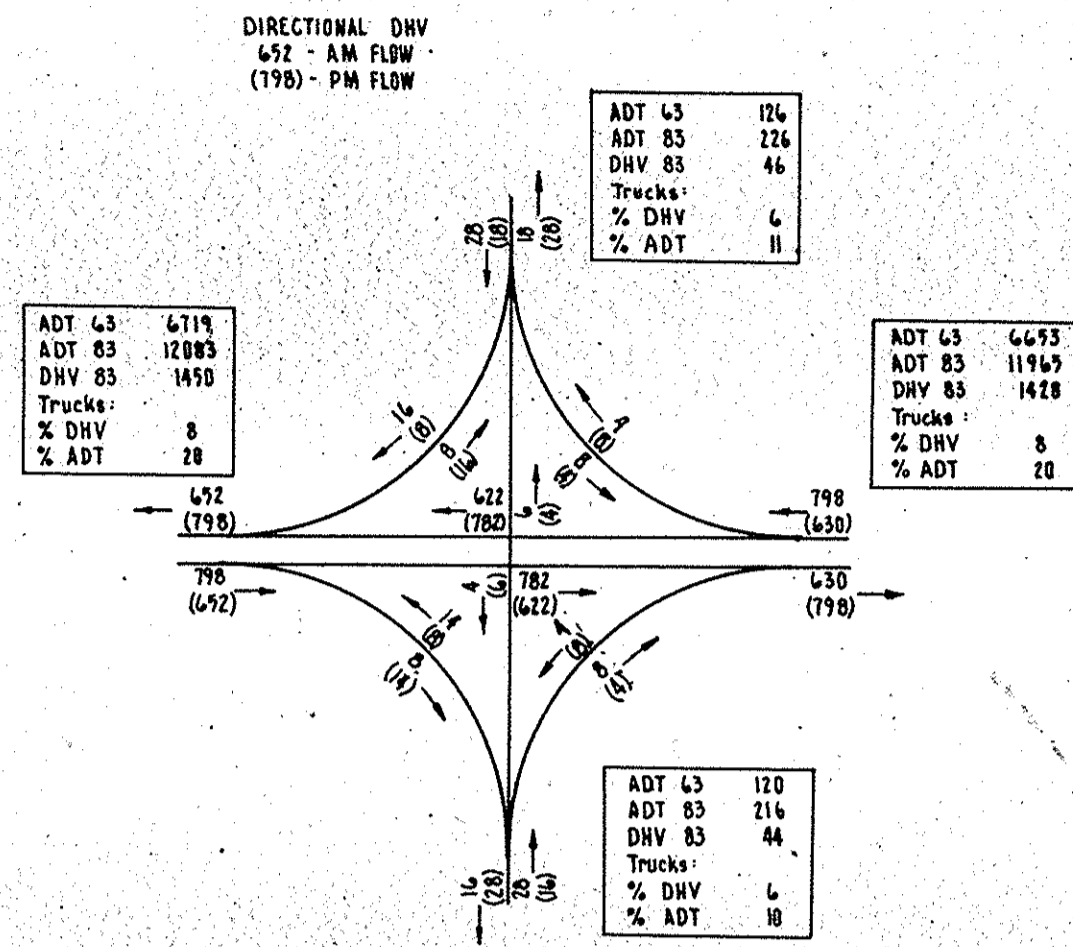
SCALE: 1" = 30'

FED. ROAD DIST. NO.	STATE	SY-F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(9)	1964	30	

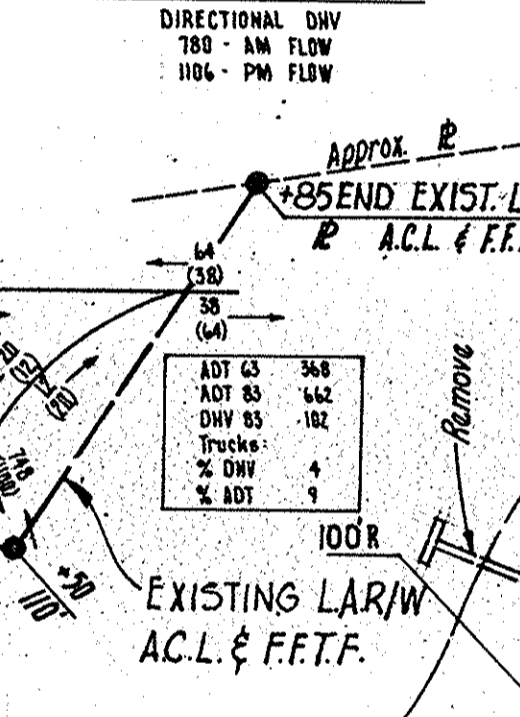
REV. 9-30-66 TOPO. REV. STAT. 6+00 LT. M.W. MYERS
 Parcels 59 and 5A changed to Parcels 59 & 60
 respectively 3-20-67 C.L. Northington



DESIGN HOURLY VOLUME ESTIMATED FOR 1983
 AT WOOD RD (S-7-B)

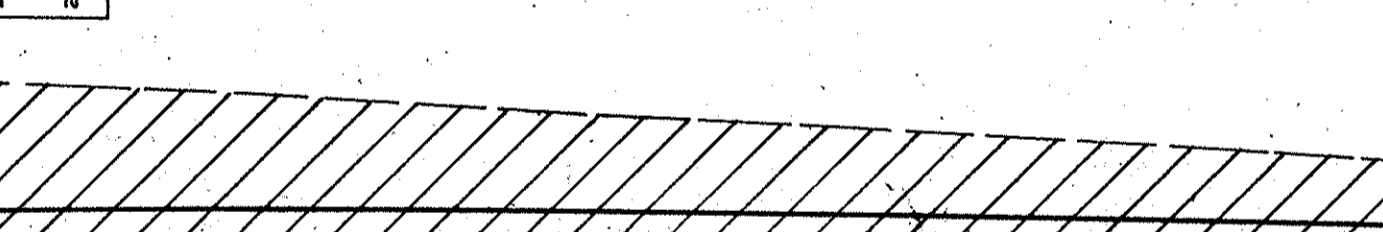


DESIGN HOURLY VOLUME ESTIMATED
 FOR 1983 AT OLD U.S. 31



INTERSECTION AT WOOD ROAD (S-7-B)
 LINE "S-7-B" AT STA. 264+18 "B"

DESIGN HOURLY VOLUME ESTIMATED
 FOR 1983 AT MAUGANS RD.



INTERSECTIONS AT MAUGANS RD.
 (S-1-A) & OLD U.S. 31

LEGEND

- (A) 9" Reinforced Cement Concrete Pavement
- (B) 330#/Sq. Yd. Mixture for Bitum. Slides over 5" Compacted Aggregate Base Type P
- (C) 330#/Sq. Yd. Mixture for Bitum. Slides over 8" Cement Concrete Base.
- (1) Ear Construction Type 'A'
- (2) Ear Construction Type 'C'
- (3) Longitudinal Joint
- (4) Construction Joint
- (5) Keyway Joint
- (6) Preformed Expansion Joint w/Load Transfer
- (7) Preformed Joint Filler
- (8) Concrete Curb Type 'B'
- (9) Integral Concrete Curb Type 'B'
- (10) Keyway Construction Joint
- (11) Dowel Joint (See Special Provisions)
- (12) Pavement To Be Removed

DETAILS

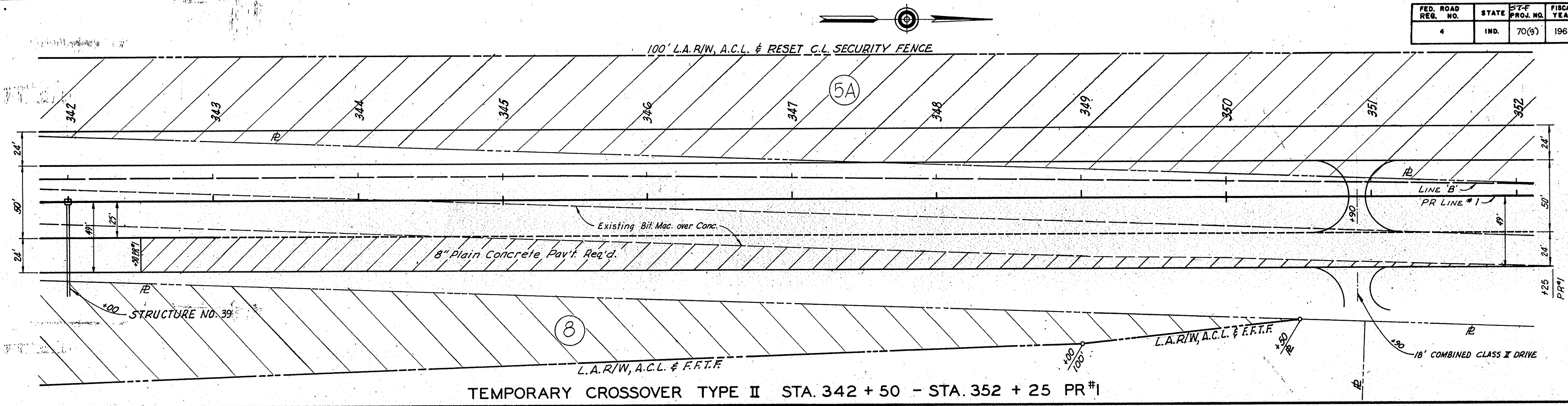
SCALE: 1" = 30'

LINE 'A' CURVE DATA
 Δ = 14° 04'
 D = 1" 00'
 T = 706.9'
 L = 1406.7'
 E = 140.3'

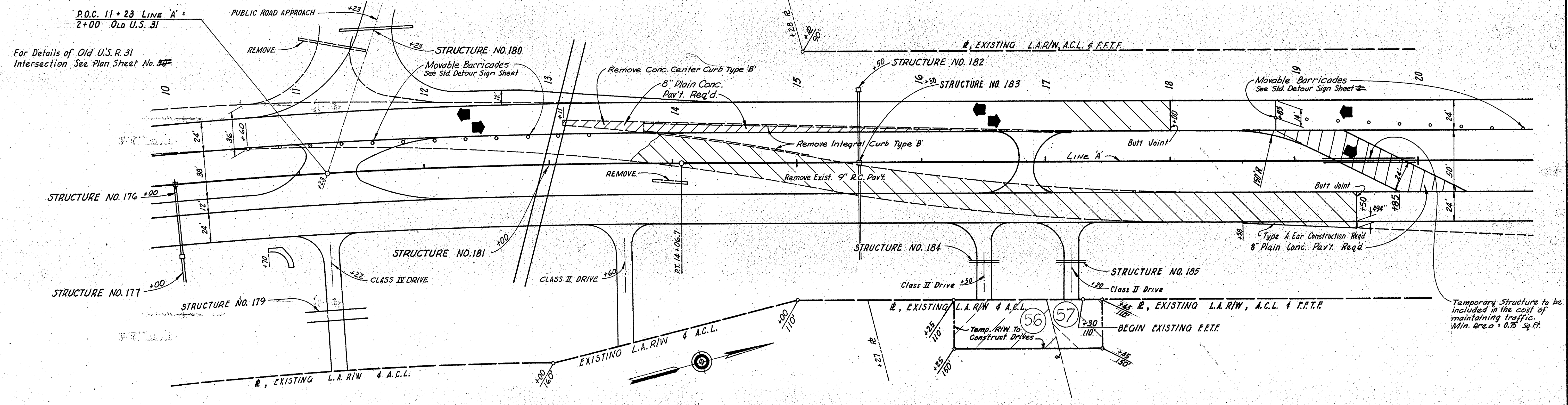
PROJ. NO.	LINE	SHEET NO.	FILE
F-10 (9)		30	

10/1/65 buds

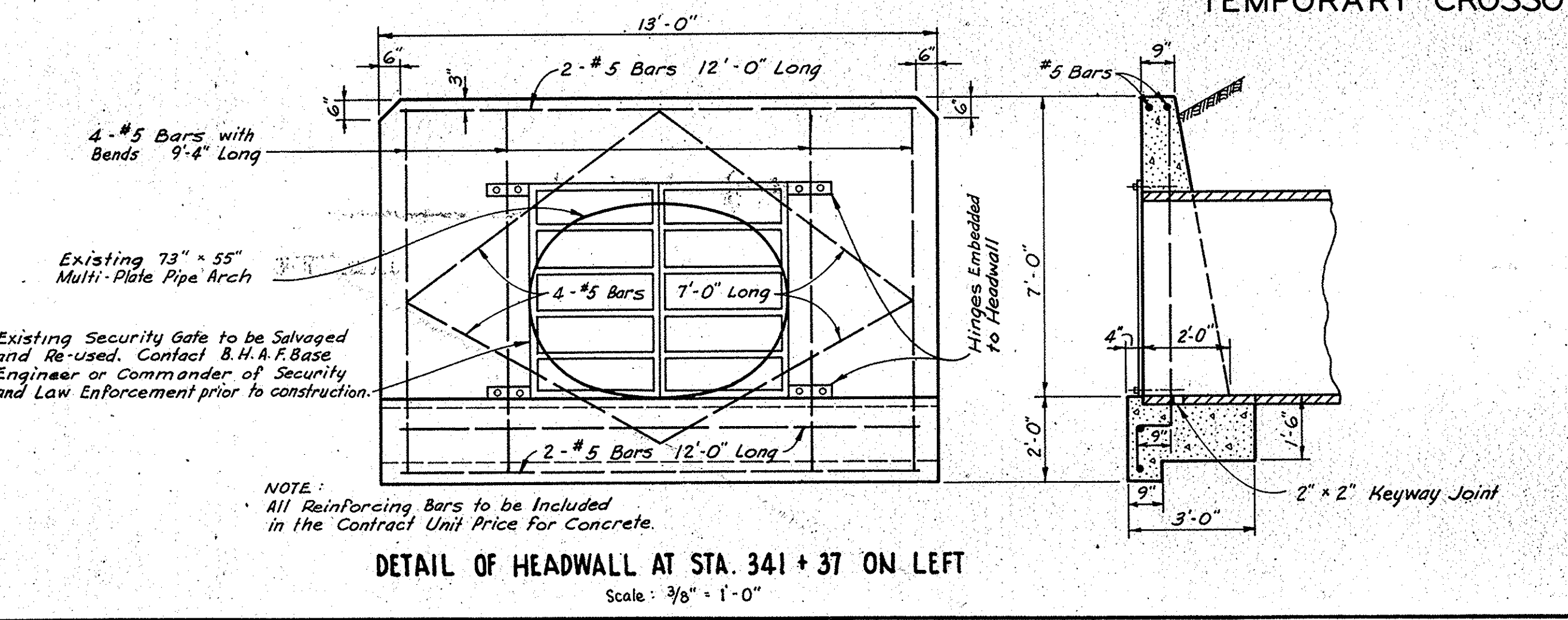
FED. ROAD REQ. NO.	STATE	ST-F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(9)	1964	31	



TEMPORARY CROSSOVER TYPE II STA. 342 + 50 - STA. 352 + 25 PR #1



TEMPORARY CROSSOVER TYPE II STA. 10 + 00 - STA. 20 + 00 LINE 'A'



DETAIL OF HEADWALL AT STA. 341 + 37 ON LEFT
Scale: 3/8" = 1'-0"

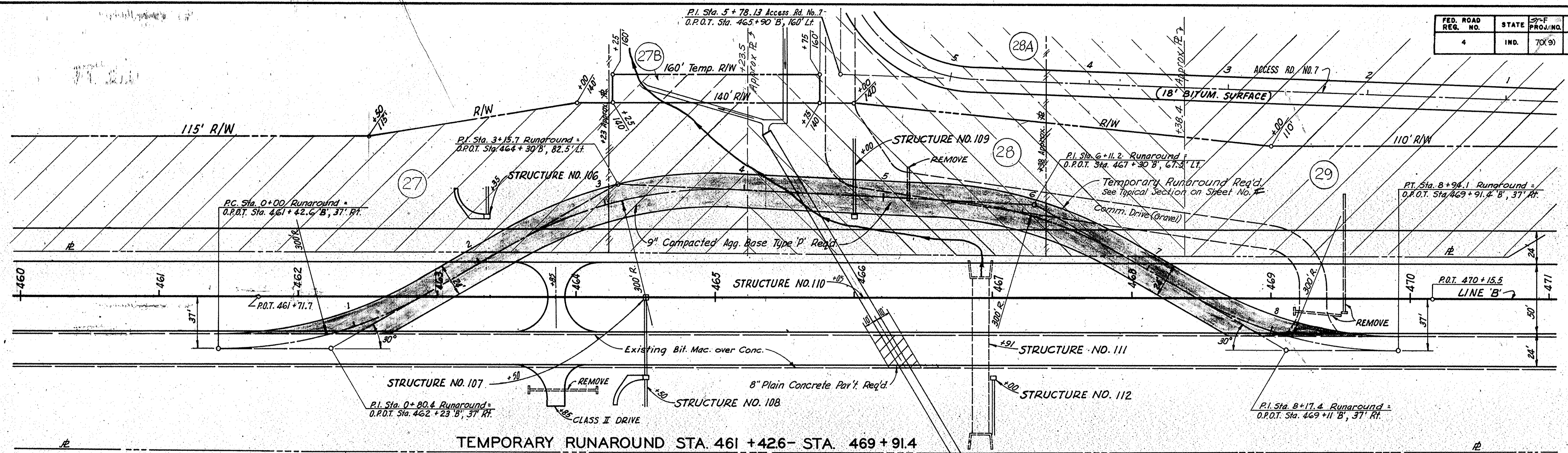
DETAILS

SCALE: 1" = 40'

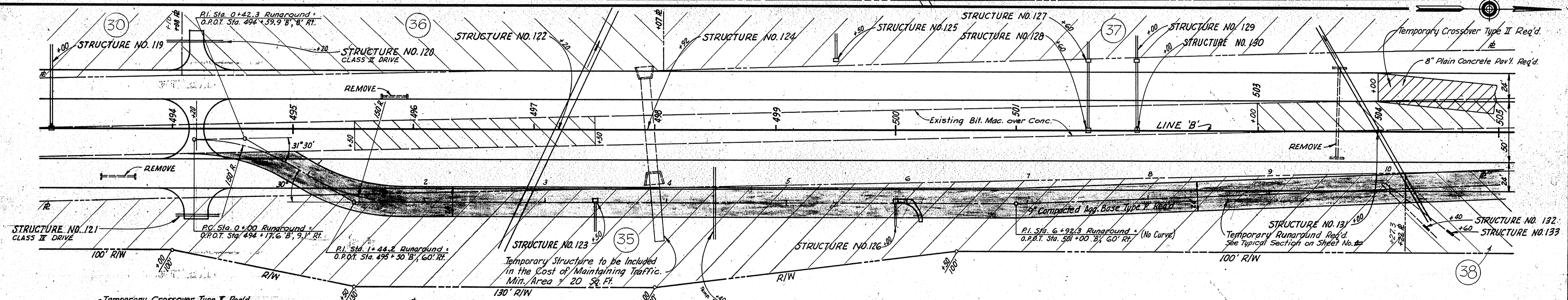
10/1/65

PROJ. No.	LINE	SHEET No.	FILE
F-70 (9)		31	

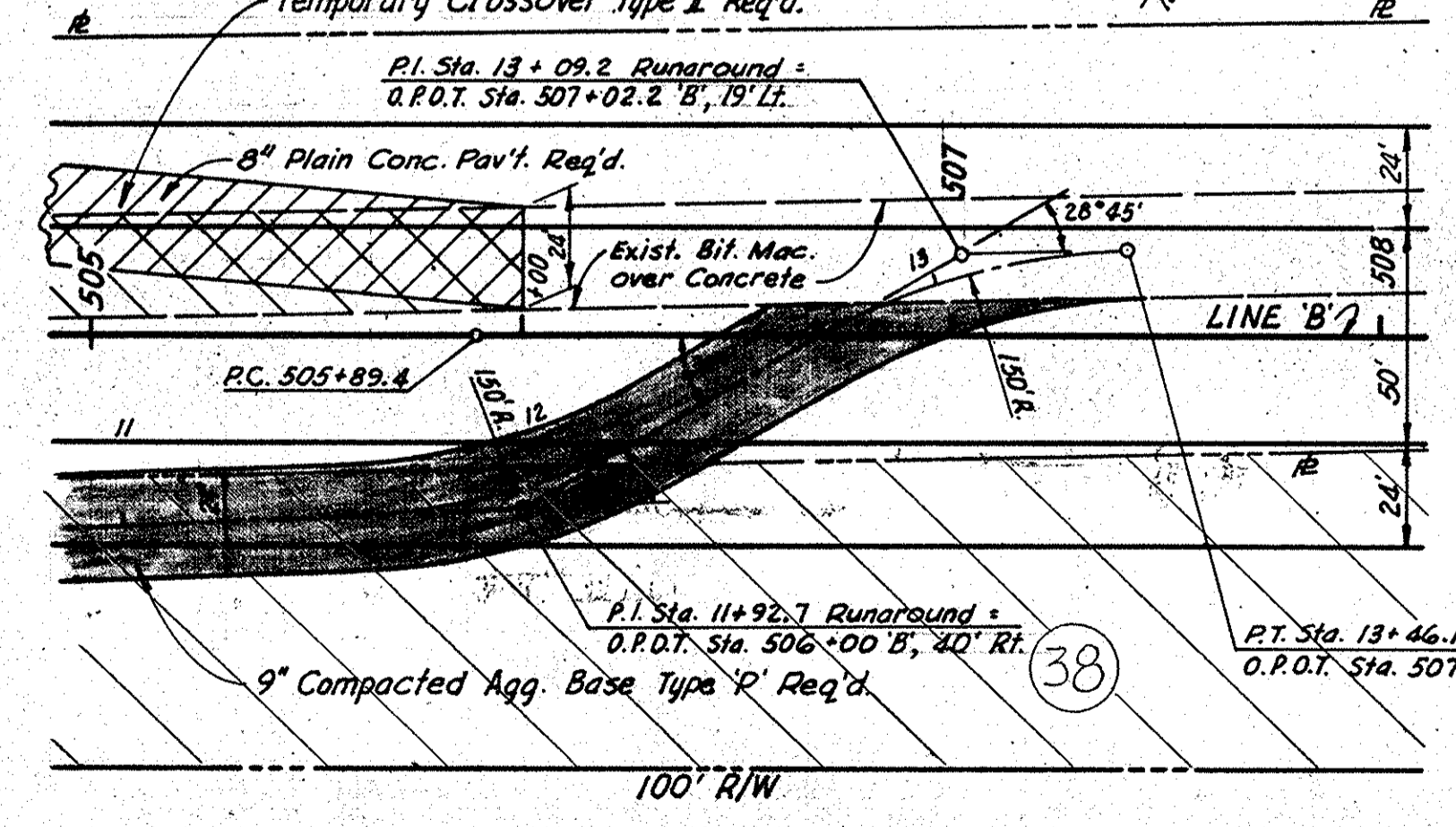
FED. ROAD REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(9)	1964	32	



TEMPORARY RUNAROUND STA. 461 +42.6- STA. 469 +91.4



TEMPORARY RUNAROUND AND CROSSOVER TYPE II
STA. 494 +17.6 - STA. 507 +40.6



DETAILS

SCALE: 1" = 40'

APPROACH TABLE

REV. 11-17-66 CL. II @ STAT. 52+30, LT'S-10-B" M.W. MYERS
Rev. 10-23-68, Add Cl. II Dr. @ 410+94 Rt. A. PERRY

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(9)	1964	33	

DESIGN DATA AND QUANTITIES BASED ON MAX. OF 10% GRADE EXCEPT AS NOTED **																													
LOCATION	DESCRIPTION	EXCAVATION CU. YDS.		WIDTH	RADIUS	GRADE LESS THAN 10% NOT SHOWN	LENGTH	DISTANCE BEYOND R/W LINE	COMPACTED AGGREGATE TYPE 'B' BASE - SQ. YARDS				MIXTURE FOR BITUMINOUS SHOULDERS TONS			REINFORCING CONCRETE PAVEMENT	INTERIOR CONC. CURB TYPE 'B' LIN. FT.	PREPARED EXHAUSTION TRANSFER-LT.	8" CEMENT CONCRETE BASE SYS.	1" FILL LIGHT CONC. TYPE 'B' LIN. FT.	CONC. CENTER CURB TYPE 'B' LIN. FT.	BITUM. CENTER CURB TYPE 'B' LIN. FT.	CONC. CURB TYPE 'B' LIN. FT.	REINFORCING STEEL FOR PAV'T. LBS.	BITUM. MAT'L FOR PRIME TONS	CONCRETE AGGREGATE TONS	BITUM. MAT'L FOR PRIME TONS	PAVED GOVER L.F.T.	
		CUT	FILL						3"	5"	8"	12"	135	180	380														135
Line 'B'																													
Sta. 281+22-284+00	TEMP. P-OVER TYPE I	SEE CROSS SECTIONS		See	Spec.	Detail																							
Line 'S-7-B'	(Wood Rd) at Sta. 284+18 'B' Lt. & Rt.																												
Sta. 2+90 Lt.	I	0	3	12'	15' x 25'		25'	21'																					
Sta. 2+90 Rt.	I	0	3	12'	15' x 25'		25'	21'																					
Sta. 3+51	PUBLIC ROAD APPR. TYPE 'B'	18	62																										
Lt. Turn Lane	SEE CROSS SECTIONS																												
	PUBLIC ROAD C/OVER	0	51																										
Lt. Turn Lane	SEE CROSS SECTIONS																												
Sta. 4+49	PUBLIC RD. APPR. TYPE 'B'	25	97																										
Sta. 5+50 Lt.	V	0	1	12'	15' x 25'		25'	21'																					
Sta. 5+50 Rt.	II	2	0	12'	15' x 25'		25'	21'	54																				
Line 'S-8-B'	(Old S.R. 218) at Sta. 290+59 'B' Lt.																												
Sta. 810+38 Lt.	II	35	6	12'	15' x 25'		110'	80'	167																				
Sta. 824+10.3	SPECIAL PUBLIC ROAD APPROACH																												
Rt. Turn Lane	SEE CROSS SECTIONS																												
	PUBLIC ROAD C/OVER	0	51																										
Lt. Turn Lane	SEE CROSS SECTIONS																												
Line 'B'																													
Sta. 290+99.9 Rt.	PUBLIC RD. APPR. TYPE 'B' - BITUM. SURF.	3	150	28'	25'		106'		360																				
Access Rd. No. 1	Sta. 290+73.5 - Sta. 296+64																												
	PUBLIC RD. GRADE ONLY	498	501	28'	25'		590.5'																						
Line 'S-9-B'	(Twp. Line Rd) at Sta. 316+13.3 'B' Rt.																												
Lt. Turn Lane	SEE CROSS SECTIONS																												
	PUBLIC ROAD C/OVER	0	51																										
Sta. 310+51	PUBLIC ROAD APPR. TYPE 'A'	71	0																										
Sta. 31+70 Rt.	I	1	3	12'	15' x 25'		25'	23'																					
Line P.R. #1																													
Sta. 342+90-352+25	TEMP. P-OVER TYPE II	357	0				815'																						
Sta. 350+90	PRIV. DR. C/OVER	0	25																										
Sta. 370+90 Rt.	II Combined	0	15	18'	15' x 25'		35'		90																				
Sta. 374+73 Rt.	Comm. Drive II	6	19	40'			41'		182																				

DESIGN DATA AND QUANTITIES BASED ON MAX. OF 10% GRADE EXCEPT AS NOTED **																													
LOCATION	DESCRIPTION	EXCAVATION CU. YDS.		WIDTH	RADIUS	GRADE LESS THAN 10% NOT SHOWN	LENGTH	DISTANCE BEYOND R/W LINE	COMPACTED AGGREGATE TYPE 'B' BASE - SQ. YARDS				MIXTURE FOR BITUMINOUS SHOULDERS TONS			REINFORCING CONCRETE PAVEMENT	INTERIOR CONC. CURB TYPE 'B' LIN. FT.	PREPARED EXHAUSTION TRANSFER-LT.	8" CEMENT CONCRETE BASE SYS.	1" FILL LIGHT CONC. TYPE 'B' LIN. FT.	CONC. CENTER CURB TYPE 'B' LIN. FT.	BITUM. CENTER CURB TYPE 'B' LIN. FT.	CONC. CURB TYPE 'B' LIN. FT.	REINFORCING STEEL FOR PAV'T. LBS.	BITUM. MAT'L FOR PRIME TONS	CONCRETE AGGREGATE TONS	BITUM. MAT'L FOR PRIME TONS	PAVED GOVER L.F.T.	
		CUT	FILL						3"	5"	8"	12"	135	180	380														135
Line P.R. I (Cont.)																													
Sta. 356+36 Rt.	Comm. Dr.	3	9	30'	10'		45'																						
Line 'S-10-B'	(S.R. 218 South) at Sta. 356+87.51 P.R. #1, Rt.																												
Lt. Turn Lane	SEE CROSS SECTIONS																												
	PUBLIC RD. C/OVER	0	51																										
Rt. Turn Lane	SEE CROSS SECTIONS																												
Sta. 50+41.47	SPECIAL PUBLIC RD. APPROACH	167	93																										
Sta. 51+55 Rt.	Comm. Dr.	6	3	40'	10'		12'																						
Sta. 52+30 Lt.	II	2	4	20'	20'		250'	230'																					
	TEMPORARY ROWLANDING	54	47	24'			266.1'																						
Line P.R. #1																													
Sta. 376+00 Rt.	Rt. Turn Lane	SEE CROSS SECTIONS																											
Sta. 376+00 Rt.	SPECIAL PUBLIC RD. APPROACH	SEE CROSS SECTIONS																											
Line 'S-14-B'	(Entrance to Bunker Hill A.E.R. Sta. 380+16.77 P.R. #1 Lt.)																												
Sta. 47+75 Rt.	I	0	14	12'	15' x 25'		25'		54																				
Sta. 47+75 Lt.	V	0	33	12'	15'		15'																						
Sta. 48+93.74	Special Appr. (2)	468	0																										
Rt. Turn Lane	SEE CROSS SECTIONS																												
Lt. Turn Lane	SEE CROSS SECTIONS																												
	SPECIAL C/OVER	0	51																										
Lt. Turn Lane	SEE CROSS SECTIONS																												
Line P.R. #1																													
Sta. 580+16.77	SPECIAL PUBLIC ROAD APPROACH	0	38																										
Frontage Rd. No. 1	(Existing U.S. 31 Sta. 368+50 to Sta. 382+77 Line 'B' to Remain)																												
Sta. 395+40	PRIVATE DR. C/OVER	0	75																										
Sta. 395+40 Rt.	II	87	70	12'	15' x 25'		88'		151																				
Sta. 410+94 Rt.	IV	687	24				79'		211																				

** APPROACHES REQUIRING GRADES OVER 10% WILL BE SPECIAL CASES PROPOSED RELOCATED DRIVES WILL BE SHOWN ON THE PLANS OR DESCRIBED UNDER "REMARKS"
(1) FOR QUANTITIES BACK OF STA. 247+26.99 SEE DETAIL ON SHEET NO. 25
(2) 18 SYS. CONC. SIDEWALK REQ'D. SEE DETAIL ON PLAN SHEET NO. 25

BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-70(9)	1964	36	

BILL OF MATERIALS

Reinforcing Steel			
No.	Mark or Size	Length	Weight
1	569	19'-0"	
1	570	18'-5"	
1	571	17'-10"	
1	572	17'-3"	
1	573	16'-8"	
1	574	16'-0"	
1	575	15'-6"	
1	576	14'-10"	
1	577	14'-3"	
1	578	13'-6"	
1	579	12'-11"	
1	580	12'-3"	
1	581	20'-11"	
1	582	20'-5"	
1	583	19'-10"	
1	584	19'-4"	
1	585	18'-7"	
1	586	18'-0"	
1	587	17'-5"	
3	588	17'-0"	
104	589	20'-6"	
1	590	15'-1"	
1	591	14'-6"	
1	592	13'-11"	
1	593	13'-4"	
1	594	12'-9"	
1	595	12'-1"	
1	596	11'-7"	
1	597	10'-11"	
1	598	10'-4"	
1	599	9'-9"	
11	*5	42'-9"	
11	*5	36'-7"	
2	*5	7'-3"	
1	*5	6'-8"	
1	*5	6'-6"	
3	*5	6'-0"	
2	*5	5'-6"	
2	*5	5'-3"	
4	*5	5'-0"	
2	*5	4'-8"	
3	*5	4'-6"	
4	*5	4'-0"	
2	*5	3'-6"	
3	*5	3'-0"	
2	*5	2'-9"	
4	*5	2'-6"	
4	*5	1'-6"	
1	*5	1'-3"	
2	*5	1'-0"	

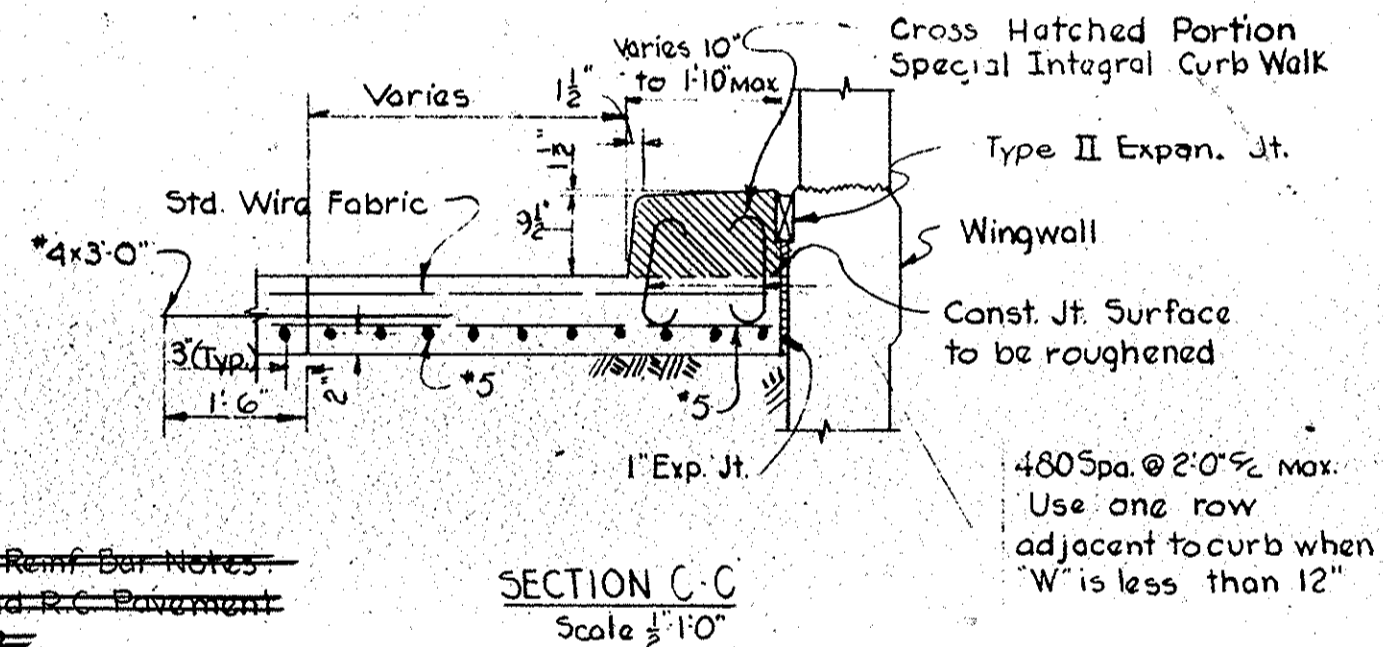
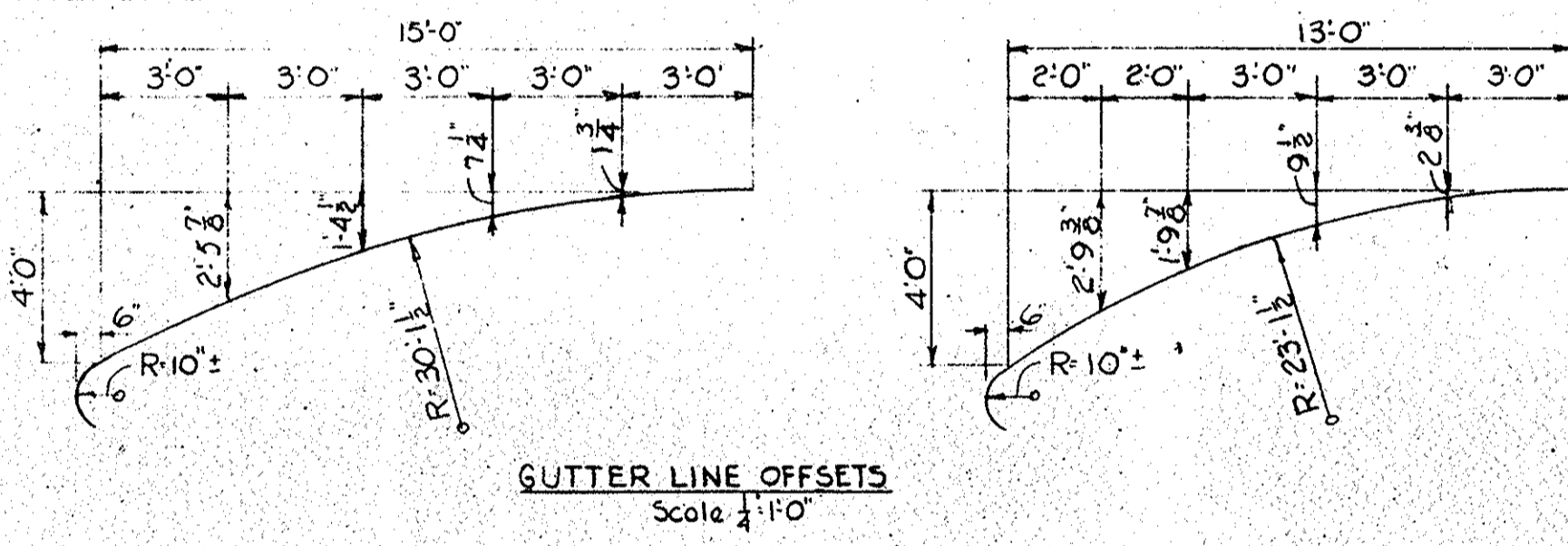
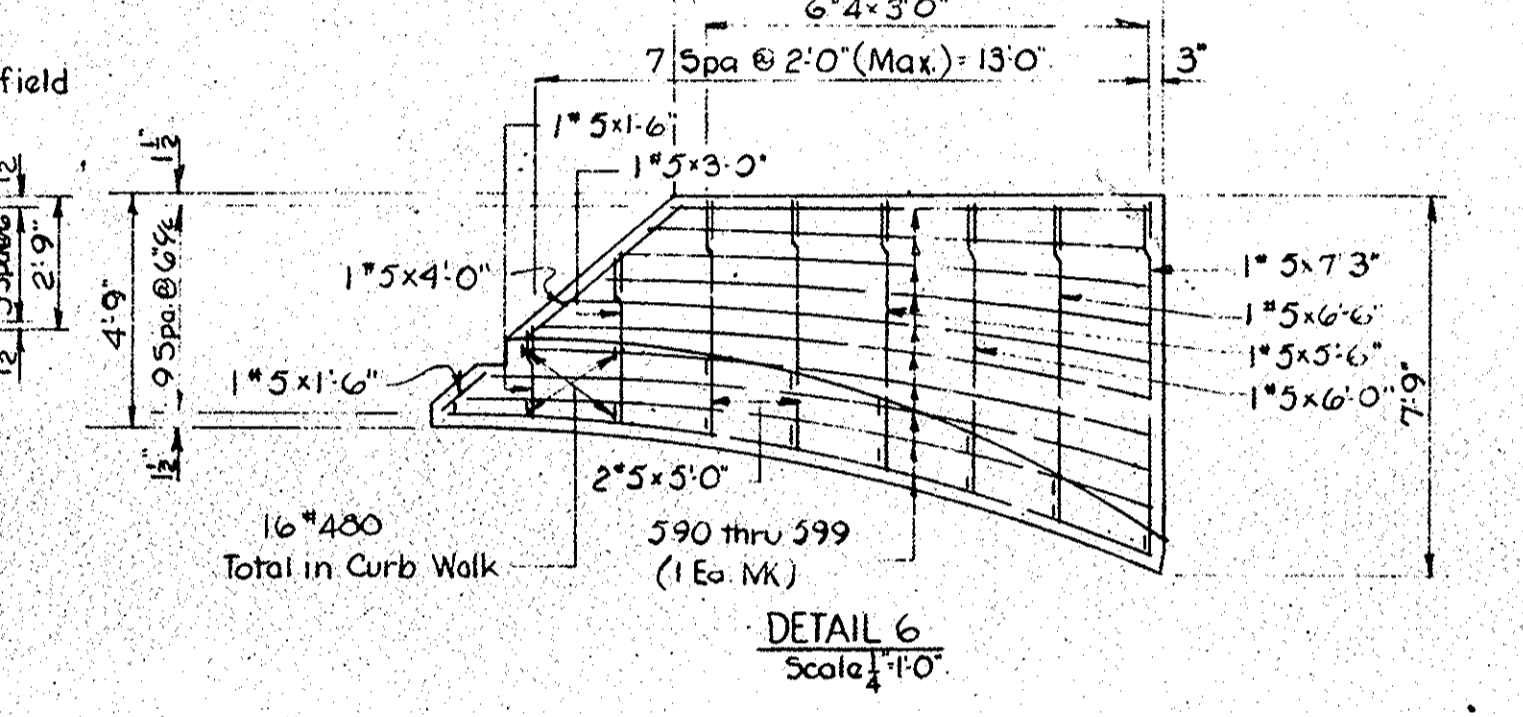
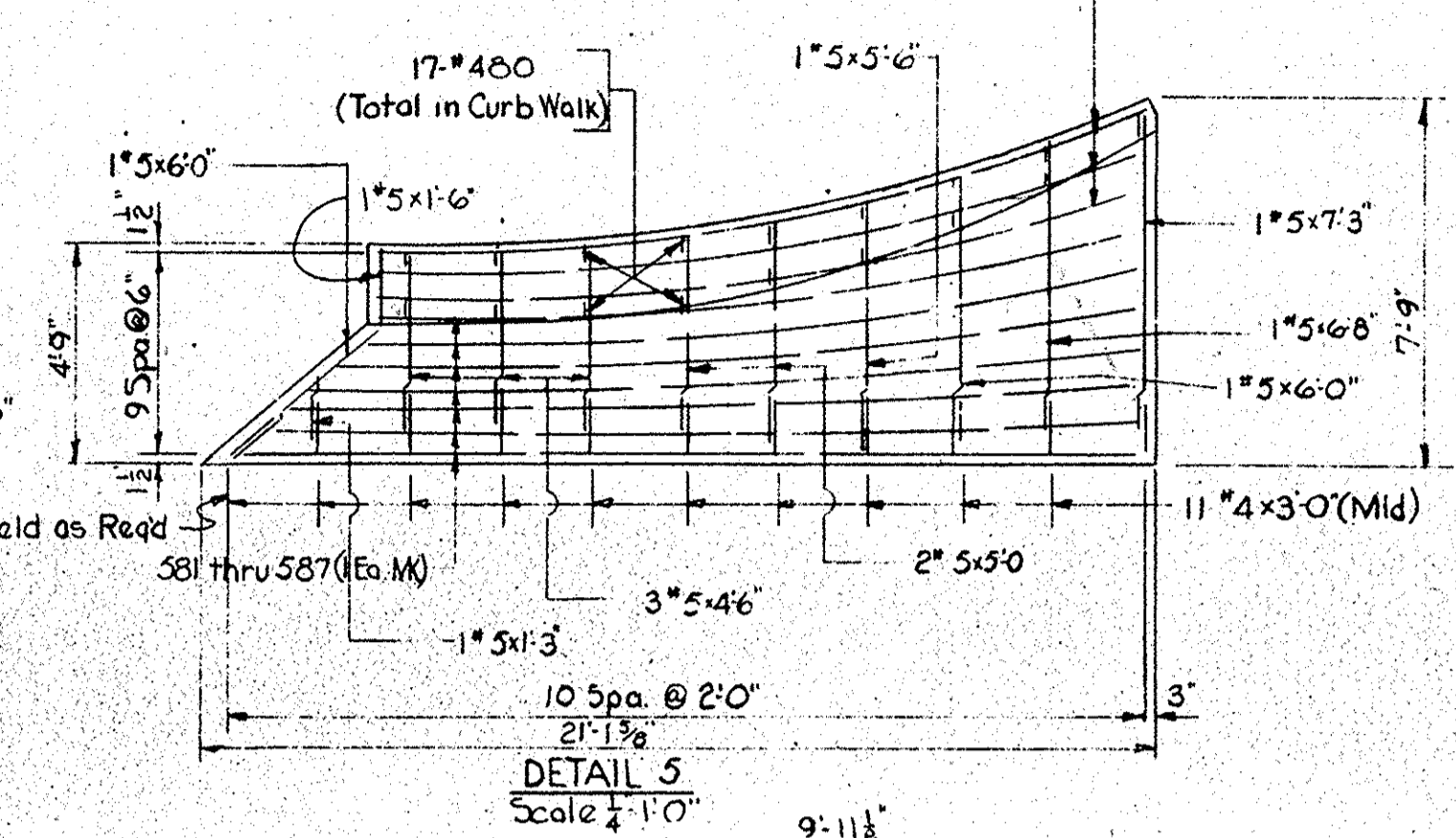
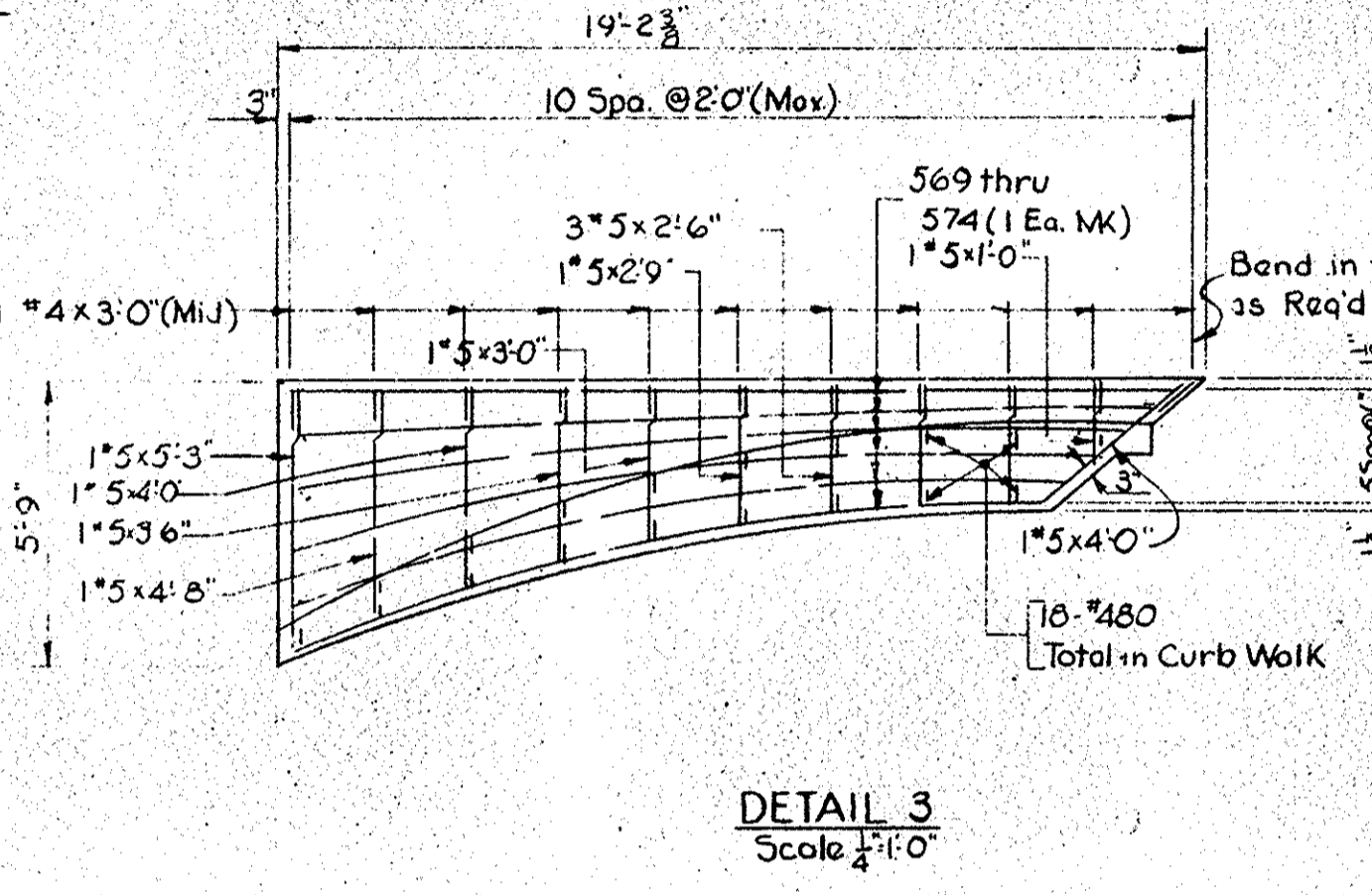
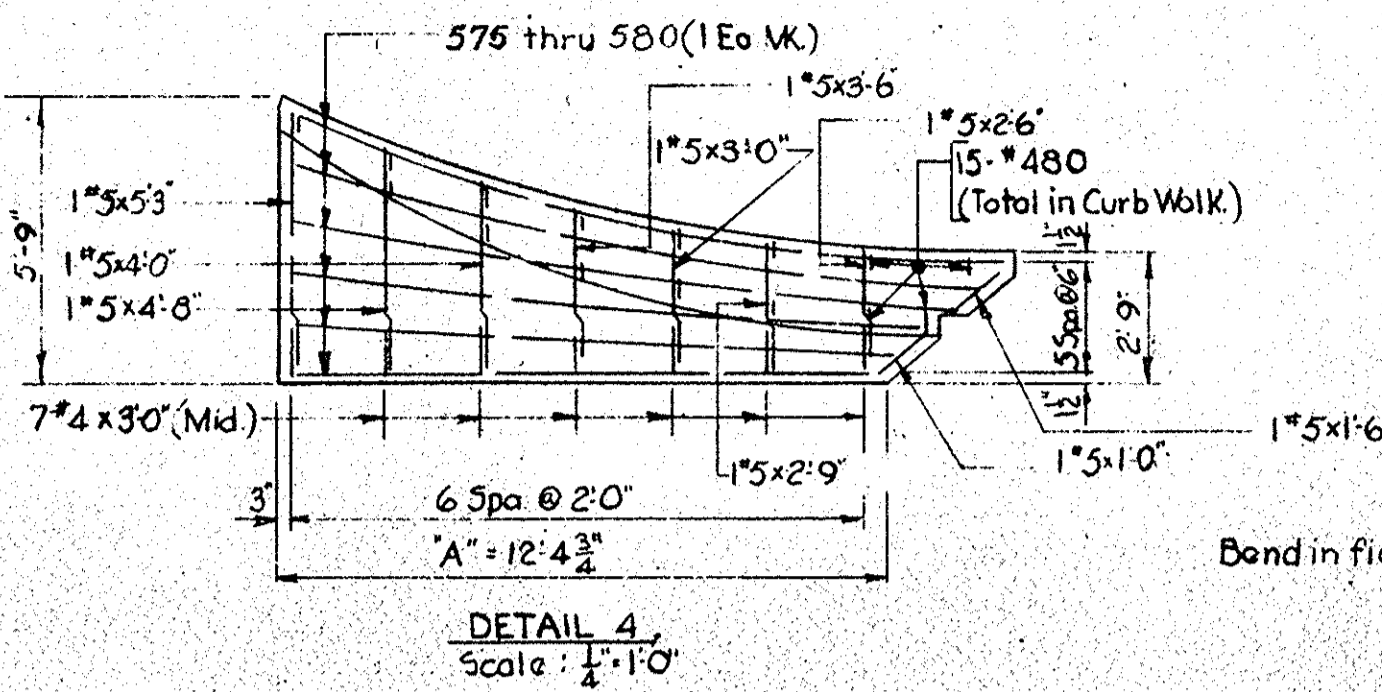
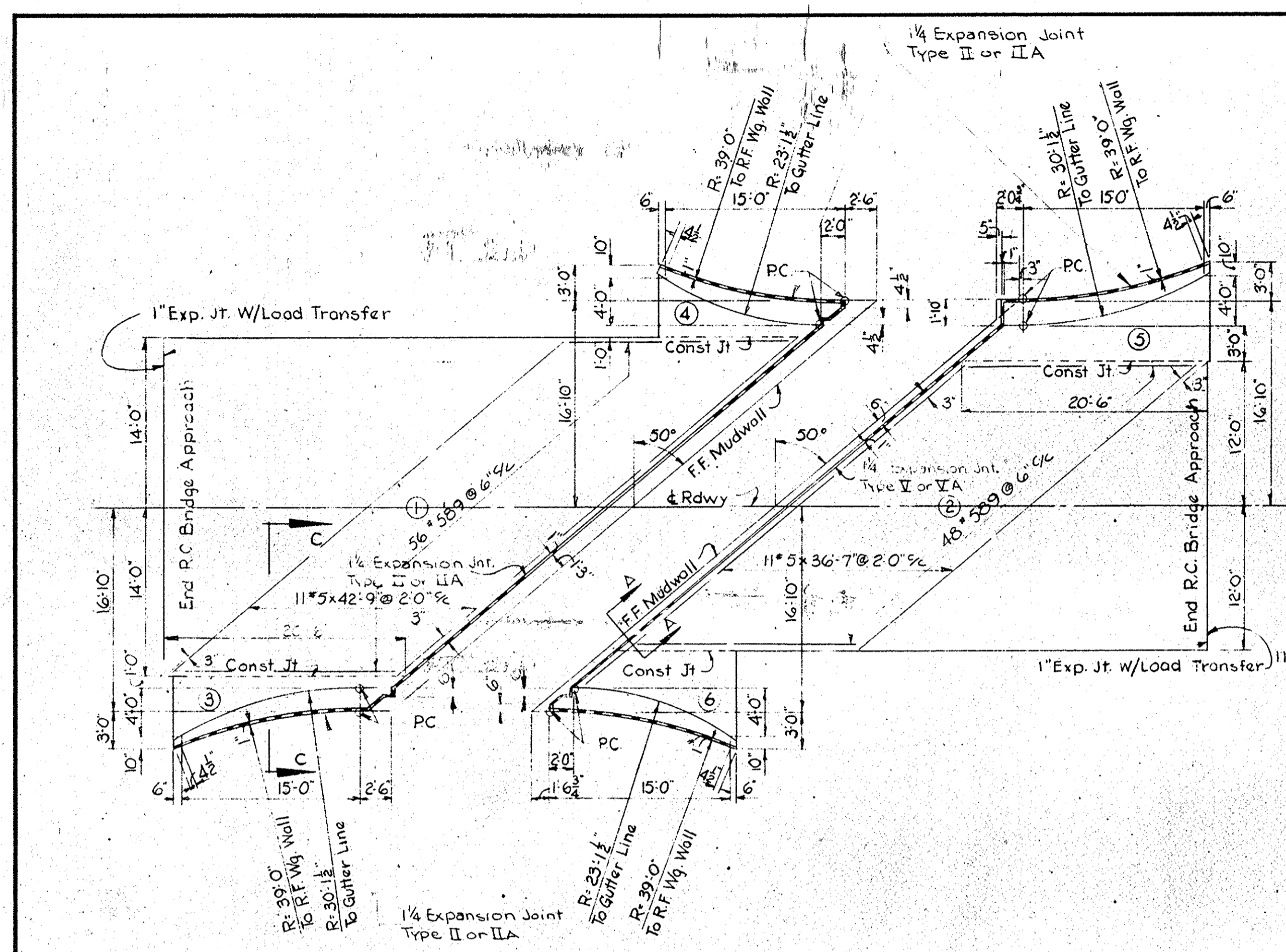
SUMMARY OF QUANTITIES			
* Total Steel	4096		
* R.C. Pavement	208.5 Sq. Yds.		
* Widened R.C. Pavement	38.8 Sq. Yds.		
* Integral Curb Walk	2.6 Cu. Yds.		
* Polychloroprene Int. Filler	170 Lin. Ft.		

* Not included in Bridge Contract.

RC. BRIDGE APPROACH DETAILS
INDIANA STATE HIGHWAY COMMISSION

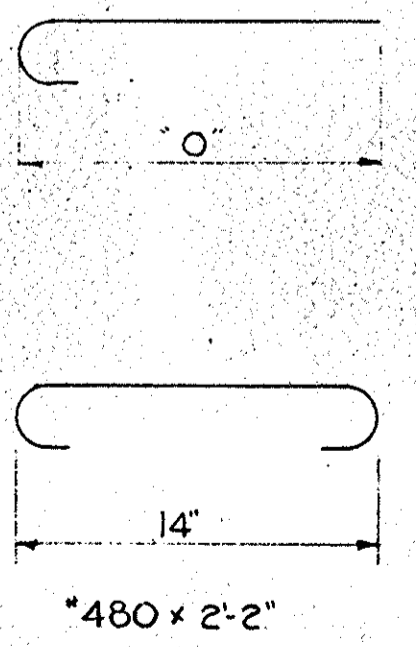
SCALE: AS NOTED
SUBMITTED FOR APPROVAL: *Chaudhry*
FEB. 15, 1965

DRAWING: OF
PROJECT: F-70(9)
BRIDGE CONTRACT NO.
BRIDGE FILE: 31-R-4041J



NOTE: See Dr. Std. C for details of 1" Exp. Jt. & Ramp Bar Notes.
See Dr. Std. M for typical details of Std. R.C. Pavement and reinforcing bars in curbs, walls, etc.
See Dr. Std. M for details of Special Integral Curb Walk.

BAR BENDING DIAGRAM					
MARK	"O"	LENGTH	MARK	"O"	LENGTH
569	18'-6"	19'-0"	585	15'-1"	18'-7"
570	17'-11"	18'-5"	586	17'-6"	18'-0"
571	17'-4"	17'-10"	587	16'-11"	17'-5"
572	16'-9"	17'-3"	588	16'-6"	17'-0"
573	16'-2"	16'-8"	589	20'-0"	20'-6"
574	15'-6"	16'-0"	590	14'-7"	15'-1"
575	15'-0"	15'-6"	591	14'-0"	14'-6"
576	14'-4"	14'-10"	592	13'-5"	13'-11"
577	13'-9"	14'-3"	593	12'-10"	13'-4"
578	13'-0"	13'-6"	594	12'-3"	12'-9"
579	12'-5"	12'-11"	595	11'-7"	12'-1"
580	11'-9"	12'-3"	596	11'-1"	11'-7"
581	20'-5"	20'-11"	597	10'-5"	10'-11"
582	19'-11"	20'-5"	598	9'-10"	10'-4"
583	19'-4"	19'-10"	599	9'-3"	9'-9"
584	18'-8"	19'-4"			



DESIGNED: CKD
DRAWN: MB, CKD, A.J.T.
TRACED: CKD

Proj. No.	LINE	SHEET NO.	FILE
F-70(9)		36	

PIPE FOR SUBSURFACE DRAINS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	57-70 (9)	1964	37	61

LINE	LANE	STATION	LENGTH FEET	GUIDE POSTS TYPE 'A'	SODDING SQ.YDS.	NON-PERF. F.B.C.M. OUTLET PIPE LIMIT.	REMARKS	LINE	LANE	STATION	LENGTH FEET	GUIDE POSTS TYPE 'A'	SODDING SQ.YDS.	NON-PERF. F.B.C.M. OUTLET PIPE LIMIT.	REMARKS
B	Rt.	254 + 18 to 259 + 00	482', 1-90° Bend	1	2	18	Drain thru Shoulder on Rt. @ Sta. 254 + 18								
B	Rt.	259 + 00 to 318 + 50	5696', 2-90° Bends				Drain thru Headwall of Structure No. 73 on Rt. @ Sta. 259 + 00 & Drain thru Headwall of Structure No. 25 on Rt. @ Sta. 318 + 50								
B	Rt. Median Edge	261 + 70 to 264 + 00	242', 1-6" x 6" Y				Drain across Rt. Pavement between Sta. 261 + 70 & Sta. 264 + 00								
B	Rt. Median Edge	288 + 50 to 291 + 80	342', 1-6" x 6" Y				Drain across Rt. Pavement between Sta. 291 + 80 & Sta. 292 + 00								
B	Rt.	315 + 50 to 324 + 67.02	917'				Eqn: Sta. 324 + 67.02 'B' - Sta. 324 + 67.02 PR#1								
PR#1	Rt.	324 + 67.02 to 341 + 30	1887', 1-6" x 6" T				Drain thru Headwall of Structure No. 36 on Rt. @ Sta. 334 + 00								
PR#1	Rt.	341 + 30 to 352 + 80	1178', 1-6" x 6" T				Drain thru Headwall of Structure No. 39 on Rt. @ Sta. 342 + 00								
PR#1	Rt.	352 + 80 to 365 + 00	1250', 1-6" x 6" T				Drain thru Headwall of Structure No. 40 on Rt. @ Sta. 352 + 80								
PR#1	Rt.	365 + 00 to 379 + 00	1414', 1-90° Bend				Connect to Structure No. 51 @ Sta. 379 + 00								
PR#1	Rt. Median Edge	375 + 50 to 380 + 22	482', 2-45° Bends				Crossover to Lt. Median Edge between Sta. 380 + 00 & Sta. 380 + 46								
PR#1	Rt.	379 + 00 to 389 + 30	1054', 1-90° Bend				Drain thru Headwall of Structure No. 32 on Rt. @ Sta. 389 + 30								
PR#1	Rt.	389 + 30 to 395 + 00	588', 1-90° Bend				Drain thru Headwall of Structure No. 61 on Rt. @ Sta. 395 + 00								
PR#1	Rt.	395 + 00 to 415 + 00	2018', 1-90° Bend				Drain thru Headwall of Structure No. 72 on Rt. @ Sta. 415 + 00								
PR#1	Rt.	415 + 00 to 419 + 75	475', 1-6" x 6" T	1	2	18	Drain thru Shoulder on Rt. @ Sta. 417 + 75								
PR#1	Rt. Median Edge	410 + 50 to 416 + 80	642', 1-45° Bend				Drain across Rt. Pavement between Sta. 416 + 50 & Sta. 416 + 80								
B	Rt.	423 + 10 to 438 + 00	1490', 1-90° Bend	1	2	18	Drain thru Shoulder on Rt. @ Sta. 423 + 10								
B	Rt.	435 + 00 to 484 + 00	2508', 1-6" x 6" T	1	2	18	Drain thru Shoulder on Rt. @ Sta. 455 + 00 & Connect to Structure No. 112 @ Sta. 467 + 00								
B	Rt. Median Edge	449 + 20 to 471 + 50	242', 1-6" x 6" Y				Drain across Rt. Pavement between Sta. 449 + 20 & Sta. 449 + 50								
B	Rt.	484 + 00 to 515 + 00	3108', 1-6" x 6" T				Connect to Structure No. 126 @ Sta. 500 + 00								
B	Rt.	515 + 00 to 523 + 50	872', 1-90° Bend				Drain thru Headwall of Structure No. 138 on Rt. @ Sta. 523 + 50								
B	Rt. Median Edge	522 + 25 to 524 + 50	235', 2-45° Bends				Crossover to Lt. Median Edge between Sta. 524 + 28 & Sta. 524 + 50								
B	Rt.	523 + 50 to 536 + 00	1270', 1-6" x 6" T				Drain thru Headwall of Structure No. 144 on Rt. @ Sta. 527 + 00								
B	Rt.	536 + 00 to 555 + 40	1916', 1-90° Bend				Drain thru Headwall of Structure No. 161 on Rt. @ Sta. 555 + 40								
B	Rt.	555 + 40 to 570 + 10	1510'				Eqn: Sta. 570 + 10 'B' - Sta. 0 + 00 'A'								
A	Rt.	0 + 00 to 6 + 00	608', 1-90° Bend				Connect to Structure No. 173 @ Sta. 6 + 00								
A	Rt.	6 + 00 to 19 + 50	1350', 1-6" x 6" T	1	2	18	Drain thru Shoulder on Rt. @ Sta. 18 + 00 & Connect to Subsurface Drain from F Proj. 875(1) @ Sta. 19 + 50								
A	Rt. Median Edge	6 + 50 to 11 + 55	516', 2-45° Bends				Crossover to Lt. Median Edge between Sta. 11 + 25 & Sta. 11 + 55								
SUB TOTAL (RIGHT LANE)															
			Lines B, PR#1, & A	34,484	5	10	90								
			11 - 90° Bends @ 2'	22											
			10 - 45° Bends @ 2'	20											
			8 - 6" x 6" x 6" T's @ 5'	40											
			4 - 6" x 6" x 6" Y's @ 5'	20											
B	Lt.	260 + 00 to 275 + 00	1500', 1-90° Bend	1	2	18	Drain thru Shoulder on Lt. @ Sta. 260 + 00								
B	Lt. Median Edge	264 + 00 to 266 + 50	260', 2-45° Bends				Crossover to Rt. Median Edge between Sta. 264 + 00 & Sta. 264 + 22								
B	Lt. Median Edge	316 + 00 to 318 + 75	275', 1-90° Bend				Drain thru Median Shoulder @ Sta. 318 + 75. Place Subsurface Drain 2' - 5" below Median Edge of Pavement.								
B	Lt.	322 + 00 to 324 + 67.02	267'				Eqn: Sta. 324 + 67.02 'B' - Sta. 324 + 67.02 PR#1								
PR#1	Lt.	324 + 67.02 to 341 + 30	1663', 1-6" x 6" T	1	2	18	Drain thru Shoulder on Lt. @ Sta. 334 + 00								
PR#1	Lt.	341 + 30 to 352 + 80	1150', 1-6" x 6" T	1	2	18	Drain thru Shoulder on Lt. @ Sta. 342 + 00								
PR#1	Lt.	352 + 80 to 365 + 00	1246', 1-90° Bend				Drain thru Headwall of Structure No. 40 on Lt. @ Sta. 352 + 80								
PR#1	Lt. Median Edge	355 + 50 to 362 + 00	692', 1-6" x 6" Y				Drain across Lt. Pavement between Sta. 355 + 20 & Sta. 355 + 50								
PR#1	Lt. Median Edge	380 + 22 to 382 + 92	288', 1-45° Bend				Drain across Lt. Pavement between Sta. 382 + 50 & Sta. 382 + 92								
PR#1	Lt.	365 + 00 to 379 + 00	1420', 1-90° Bend				Drain thru Headwall of Structure No. 50 on Lt. @ Sta. 379 + 00								
PR#1	Lt.	379 + 00 to 389 + 30	1048', 1-90° Bend				Drain thru Headwall of Structure No. 56 on Lt. @ Sta. 389 + 30								
PR#1	Lt.	389 + 30 to 419 + 87.32	3057', 1-6" x 6" T	1	2	18	Drain thru Shoulder on Lt. @ Sta. 419 + 00								
B	Lt.	419 + 85.08 to 420 + 75	90'				Eqn: Sta. 419 + 87.32 PR#1 - Sta. 419 + 85.08 'B'								
B	Lt.	424 + 00 to 433 + 50	970', 2-90° Bends	1	2	18	Drain thru Shoulder on Lt. @ Sta. 424 + 00 & Drain thru Headwall of Structure No. 87 on Lt. @ Sta. 427 + 50								
B	Lt.	433 + 50 to 460 + 00	2676', 1-6" x 6" T				Drain thru Headwall of Structure No. 89 on Lt. @ Sta. 433 + 50 & Connect to Structure No. 94 @ Sta. 447 + 50								
B	Lt.	460 + 00 to 484 + 00	2426', 1-6" x 6" T				Drain thru Headwall of Structure No. 105 on Lt. @ Sta. 460 + 00 & Connect to Structure No. 109 @ Sta. 466 + 00								
B	Lt. Median Edge	471 + 50 to 474 + 00	260', 2-45° Bends				Crossover to Rt. Median Edge between Sta. 471 + 50 & Sta. 471 + 72								
B	Lt.	484 + 00 to 493 + 00	918', 1-90° Bend				Drain thru Headwall of Structure No. 119 on Lt. @ Sta. 493 + 00								
B	Lt.	493 + 00 to 515 + 00	2208', 1-6" x 6" T				Connect to Structure No. 127 @ Sta. 501 + 60								
B	Lt.	515 + 00 to 530 + 00	2300', 1-90° Bend	1	2	18	Drain thru Shoulder on Lt. @ Sta. 527 + 00								
B	Lt. Median Edge	524 + 50 to 527 + 05	268', 1-6" x 6" Y				Crossover Left Pavement between Sta. 526 + 75 & Sta. 527 + 05								
B	Lt.	524 + 50 to 527 + 05	268', 2-45° Bends				Drain thru Headwall of Structure No. 128 on Lt. @ Sta. 528 + 15								
B	Lt.	524 + 50 to 527 + 05	268', 2-45° Bends				Crossover Left Pavement between Sta. 526 + 70 & Sta. 527 + 00								
B	Lt.	568 + 15 to 569 + 00	98', 2-45° Bends				Eqn: Sta. 570 + 10 'B' - Sta. 0 + 00 'A'								
B	Lt. Median Edge	569 + 00 to 570 + 10	110'												
A	Lt. Median Edge	0 + 00 to 15 + 50	1570', 1-90° Bend				Crossover Left Pavement between Sta. 14 + 95 & Sta. 15 + 25								
A	Lt.	15 + 30 to 18 + 00	250'				Connect to Subsurface Drain from F Proj. 875(1) @ Sta. 18 + 00								

LINE	LANE	STATION	LENGTH FEET	GUIDE POSTS TYPE 'A'	SODDING SQ.YDS.	NON-PERF. F.B.C.M. OUTLET PIPE LIMIT.	REMARKS
SUB TOTAL (LEFT LANE)							
			Lines B, PR#1, & A	27,440	6	12	108
			13 - 90° Bends @ 2'	24			
			12 - 45° Bends @ 2'	24			
			6 - 6" x 6" x 6" T's @ 5'	30			
			3 - 6" x 6" x 6" Y's @ 5'	15			
TOTAL							
			62,121	11	22	198	

STRUCTURE DATA

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	SF-F-70(9)	1964	38	...

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH "L"	SKEW	COVER	FLOW LINE		CONCRETE CLASS ¹	SPECIAL BORROW GRADE ²	REINFORCING STEEL	REMARKS	PLANS ON SHEET NO.
						UP STREAM ELEV.	DOWN STREAM ELEV.					
1		SEPARATE CONTRACT STRUCTURE									No EXCEPTION: PENNSYLVANIA RR OVER F-70 TO BE CONSTRUCTED UNDER BRIDGE CONTRACT F PROJ. 70(11) BRIDGE FILE NO. 31-R-2358	
2		COMBINATION STRUCTURE									TO BE CONSTRUCTED IN COMBINATION WITH ROAD PROJECT STA. 420+70.45 TO STA. 423+00.28 BRIDGE FILE NO. 31-R-4041 J	
LINE 'B'												
12	253+00	12" STD. INLET TYPE F-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	70'	3.0'	804.96	804.35	0.29	3.8			HEADWALL REQ'D. OUTLET END ONLY.	
13	259+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	70'	3.1'	806.88	806.50	0.29	3.8			HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL.	
LINE 'S-T-B'												
14	2+50 Rt.	12" C.M. PIPE (Ga. No. 16)	24'		809.13	809.09	0.58					
15	2+50 Lt.	12" C.M. PIPE (Ga. No. 16)	24'		809.13	809.09	0.58					
LINE 'B'												
16	268+50	12" STD. INLET TYPE F-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	80'	4.7'	807.55	807.40	0.29	4.0			HEADWALL REQ'D. OUTLET END ONLY.	
17	270+05	8" SEWER PIPE	186'		805.25	804.65		22.2			CONNECT TO EXISTING 8" FIELD TILE LT. & RT.	
18	270+50	24" STD. INLET TYPE F-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	150'	4.2'	807.30	807.00	1.24	15.1			REMOVE EXISTING 15" R.C. PIPE.	
19	289+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	74'	4.3'	807.95	807.60	0.29	5.1			HEADWALL REQ'D. OUTLET END ONLY.	
LINE 'S-B-B'												
20	821+57 Lt.	12" GROUP 'D' PIPE (Ga. No. 16 C.M.)	24'		807.60	807.40	0.58					
21	823+75	15" GROUP 'D' PIPE (Ga. No. 16 C.M.)	8'				0.35				EXTEND EXISTING 15" CONCRETE PIPE ON LEFT OF LINE 'S-B-B'	
LINE 'B'												
22	290+59.5 Rt.	15" GROUP 'D' PIPE (Ga. No. 16 C.M.)	42'		807.17	807.03	0.69					
ACCESS RD. NO. 1												
23	296+00	12" GROUP 'D' PIPE (Ga. No. 16 C.M.)	34'		806.50	805.00	0.58					
LINE 'B'												
24	307+90 Rt.	12" DRAIN TILE	816'									
25	316+13.3 Rt.	12" C.M. PIPE (Ga. No. 16)	30'		797.00						No HEADWALL REQ'D. @ OUTLET END	
25	315+40	15" STD. INLET TYPE N-12 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	64'	3.5'	797.30	797.26	0.35	4.7			HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL.	
26	316+13.3 Rt.	24" GROUP 'D' PIPE (Ga. No. 16 C.M.)	50'		796.55	795.71	1.24					
27	316+41 Lt.										REMOVE EXISTING 12" FIELD TILE	
28	316+85	GROUP G1 PIPE (MIN. AREA = 16 SQ. FT.) (Ga. No. 10 F.B.C.C.M. PIPE ARCH)	172'	15°	795.00	794.11	2.95	63.3			PIPE ARCH ANCHORS REQ'D. EACH END. CONSTRUCT INLET DITCH 50 SQ. YDS. RIP RAP REQ'D. ON LT. & 50 SQ. YDS. RIP RAP REQ'D. ON RT.	
29	318+00 Lt.						1.33				SEAL & ABANDON EXIST. 5' x 5' R.C. CULVERT. SEE SPECIAL PROVISIONS.	
30	322+94 Rt.	8" C.M. PIPE (Ga. No. 16)	6'								No HEADWALL REQ'D.	
31	324+00	12" STD. INLET TYPE F-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	74'	4.7'	793.12	791.95	0.64	14.5			HEADWALL REQ'D. OUTLET END ONLY.	
32	324+44 Rt.	6" C.M. PIPE (Ga. No. 16)	6'								No HEADWALL REQ'D.	
P.R. LINE NO. 1												
33	325+25 Rt.	6" C.M. PIPE (Ga. No. 16)	6'								No HEADWALL REQ'D.	
34	328+00	15" STD. INLET TYPE F-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	144'	3.3'	792.30	790.30	1.20	33.1				
35	330+59 Rt.	6" C.M. PIPE (Ga. No. 16)	6'								No HEADWALL REQ'D.	
36	334+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	76'	4.3'	791.41	790.25	0.29	11.5			HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL.	
37	341+31	6' x 4' STD. REINF. CONC. CULVERT & W-1 WINGS	6'		786.16	784.09	61.20	169.4	16,171		EXTEND EXIST. CONC. CULVERT WITH 44 LIN. FT. LT. & 50 LIN. FT. RT.	
38	341+37	73' x 55' MULTI PLATE PIPE ARCH				786.63	5.83				REMOVE 50' OF EXISTING ARCH. REBUILD HEADWALL. SALVAGE & USE EXISTING METAL GATES.	
39	342+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	72'	4.3'	791.97	791.56	0.64	7.8			HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL.	

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH "L"	SKEW	COVER	FLOW LINE		CONCRETE CLASS ¹	SPECIAL BORROW GRADE ²	REINFORCING STEEL	REMARKS	PLANS ON SHEET NO.
						UP STREAM ELEV.	DOWN STREAM ELEV.					
P.R. LINE NO. 1 CONT'D.												
40	352+80	18" STD. INLET TYPE F-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	156'	5.0'	792.04	789.85	1.55	22.2			REMOVE EXIST. PIPE. OUTLET SUBSURFACE DRAIN THRU HEADWALL ON LT. & RT.	11
41	354+73 Rt.	12" C.M. PIPE (Ga. No. 16)	46'		794.24	794.18	0.58					11
42	356+36 Rt.	12" C.M. PIPE (Ga. No. 16)	34'		794.39	794.32	0.58					11
LINE 'S-10-B'												
43	32+30	12" C.M. PIPE (Ga. No. 16)	24'		793.00	792.75	0.58					11
P.R. LINE NO. 1												
44	363+00	15" STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	76'	4.5'	793.30	793.02	0.35	7.8			HEADWALL REQ'D. OUTLET END ONLY.	11
45	367+60	15" GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	160'		792.75	790.25	0.69	14.5			CONSTRUCT OUTLET DITCH. REMOVE EXISTING PIPE.	11
46	367+80	6" SEWER PIPE	164'									11
47	374+60 Rt.	12" STD. INLET TYPE K-11 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	36'		791.98	791.50	0.29				HEADWALL REQ'D. OUTLET END ONLY.	12
48	375+88	6" STD. MANHOLE TYPE B-4 & SEWER PIPE	170'		787.50	787.00						12
49	376+31	15" GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	136'		788.09		0.85	10.6			CONNECT TO EXIST. 15" PIPE ON RT. HEADWALL REQ'D. INLET END ONLY.	12
50	379+00	15" STD. INLET TYPE F-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	72'	3.9'	789.25	788.74	0.35	14.3			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO STRUCTURE NO. 51 OUTLET SUBSURFACE DRAIN THRU HEADWALL.	12
51	379+00 Rt.	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	66'	3.8'	789.50			12.0			CONNECT TO STRUCTURE NO. 50 & TO SUBSURFACE DRAIN	12
LINE 'S-14-B'												
52	47+75 Lt.	12" GROUP 'D' PIPE (Ga. No. 16 C.M.)	24'		791.00	790.75						12
53	47+75 Rt.	12" GROUP 'D' PIPE (Ga. No. 16 C.M.)	24'		791.00	790.75						12
54	48+70 Lt.	12" STD. INLET TYPE A-9 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	50'		788.25	788.10	0.29				HEADWALL REQ'D. OUTLET END ONLY.	12
P.R. LINE NO. 1												
55	386+40 Lt.	6" C.M. PIPE (Ga. No. 18)	10'								20' OF PAVED BUTTER. NO HEADWALL REQ'D. @ OUTLET END.	12
56	389+30	30" STD. INLET TYPE F-7 & GROUP 'A' PIPE (Ga. No. 14 F.B.C.C.M. w/P.I.)	136'	2.7'	764.82	764.10	1.85	44.8			STRAIGHT HEADWALL REQ'D. INLET END & 'L' HEADWALL REQ'D. OUTLET END. OUTLET SUBSURFACE DRAIN THRU HEADWALL ON LT. & RT.	12
57	389+50 Rt.						0.10				SEAL EXISTING PIPE INLET.	12
58	389+90 Rt.						0.20				REMOVE CASTING & SEAL DROP INLET IN BRIDGE CONTRACT	12
59A	390+50 Rt.	8"									INLET THRU 'L' HEADWALL OF STRUCTURE NO. 56	12
59	390+40 Rt.	36" F.B.C.C.M. PIPE w/P.I. (80" DIA.)	214'		764.10	762.48	1.57	49.0			SEAL & ABANDON HEADWALL REQ'D. @ OUTLET END STR. 59C THRU HEADWALL IN BRIDGE CONTRACT	12
59B	390+50 Rt.	8"					0.40				SEAL EXISTING DROP INLETS	12
59C	391+50	8" F.B.C.C.M. PIPE	59'								1-2' 2" END, 1'-Y CORR. CONNECT TO STR. 59A & B	12
61	393+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	70'	3.0'	760.89	759.95	0.29	7.6			HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL	12
62	395+40 Rt.	36" GROUP 'D' PIPE (Ga. No. 14 C.M.)	24'		759.63	759.57	3.14					12
63	404+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	92'	6.1'	756.06	749.15	0.64	4.1			HEADWALL REQ'D. OUTLET END ONLY.	13
64	405+00	54" GROUP 'B' PIPE (Ga. No. 10 STRUTTED F.B.C.C.M. w/P.I.)	28'		742.76	737.00		40.0			NOT INCLUDED IN THIS CONTRACT. CONSTRUCT UNDER BRIDGE CONTRACT F PROJ. 70(11) BRIDGE FILE NO. 31-R-2358. CONNECT TO STRUCTURE NO. 65	13
65	405+00	54" GROUP 'B' PIPE (Ga. No. 10 STRUTTED F.B.C.C.M. w/P.I.)	110'	28'	742.76	733.25	3.18	44.0			1-54" BAND REQ'D. CONNECT TO STRUCTURE NO. 64. CONSTRUCT INLET & OUTLET DITCHES. 15 SQ. YDS. RIP RAP REQ'D. ON LT. PIPE ANCHORS REQ'D. EACH END.	13
66	405+72 Rt.						1.11				SEAL & ABANDON EXISTING 4' x 5' R.C. BOX CULVERT.	13
67	406+00 Rt.	12" STD. INLET TYPE K-11 & Ga. No. 16 F.B.C.C.M. PIPE w/P.I.	64'		755.79	733.40	0.64				HEADWALL REQ'D. OUTLET END ONLY.	13
68	408+50 Rt.	12" STD. INLET TYPE K-11 & Ga. No. 16 F.B.C.C.M. PIPE w/P.I.	56'		751.50	732.50	0.64				HEADWALL REQ'D. OUTLET END ONLY.	13
69	409+63	6" SEWER PIPE 6" C.M. PIPE (Ga. No. 18)	96' 6'		738.30	731.29		10.3			STD. R.C. SPRINGBOX REQ'D. NO HEADWALL REQ'D. @ OUTLET END.	13
70	411+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/P.I.)	56'	3.3'	745.68			3.5			CONNECT TO STRUCTURE NO. 71	13

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PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F 70(9)		38		

STRUCTURE DATA

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-70(9)	1964	39	

Rev. 10-27-67, Str. #114. Rev. By Road Design

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH L'	SKEW	COVER	FLOW LINE		CONCRETE CLASS. D	SPECIAL BORROW GRADE ^B CU.YDS.	REINFORCING STEEL LBS.	REMARKS	PLANS ON SHEET NO.
						UP STREAM ELEV.	DOWN STREAM ELEV.					
P.R. LINE No. 1 CONT'D.												
71	411+00	12" STD. INLET TYPE M-II & GA. NO. 16 F.B.C.C.M. PIPE W/P.I. 2-22° 30' BENDS	48'			744.84	730.20	0.64			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO STRUCTURE No. 70	
72	415+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	70'	3.2'		737.94	737.75	0.29	3.8		HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL.	
LINE S-II-B'												
73	219+50 Rt.	12" C.M. PIPE TO BE RELAID	20'			738.66	738.44	0.58			USE SALVAGED PIPE @ STA. 219+91 RT., S-II-B'	
74	219+70 Lt.	15" C.M. PIPE (GA. NO. 16)	34'			738.20	737.84	0.69			REMOVE EXISTING PIPE	
75	220+28	18" C.M. PIPE ARCH (GA. NO. 14)	86'			737.85	737.50	0.90				
76	220+90	22" 18" EXISTING C.M. PIPE ARCH	48'								REMOVE & SALVAGE	
ACCESS RD. No. 2												
77	4+25	18" 9" 10" STRUCTURAL PLATE PIPE ARCH (MIN. AREA 120 SQ. FT.)	62'			729.80	729.20	8.12			STRUCTURAL PLATES: GA. NO. 5 TOP & SIDES, GA. NO. 4 BOTTOM. STRUCTURAL PLATE PIPE ANCHORS REQ'D. EACH END.	
FRONTAGE RD. No. 2												
78	3+00	12" C.M. PIPE (GA. NO. 16)	30'			736.90	736.00	0.58			CONSTRUCT OUTLET DITCH	
LINE B'												
79	420+25	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	52'			733.44	731.50				DRAIN THRU SLOPEWALL	
80	421+16	6" PERFORATED C.M. PIPE (GA. 18)	70'								DRAIN THRU SLOPE ON LT.	
81	423+40	6" PERFORATED C.M. PIPE (GA. 18)	70'								DRAIN THRU SLOPE ON LT.	
82	423+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	56'			733.92	732.00				DRAIN THRU SLOPEWALL	
83	426+50 Lt.	12" GROUP 'D' PIPE (GA. NO. 16 C.M.)	24'			735.24	735.16	0.58				
84	426+50 Rt.	18" GROUP 'D' PIPE (GA. NO. 16 C.M.)	36'			736.16	736.05	0.80			REMOVE EXISTING PIPE	
85	426+50 Rt.	12" C.M. PIPE (GA. NO. 16)	24'			738.90	738.50	0.58				
P.R. LINE No. 2												
86	3+25	18" GROUP 'D' PIPE (GA. NO. 16)	38'			735.75	735.35	0.80			CONSTRUCT OUTLET DITCH	
LINE B'												
87	427+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	72'	3.5'		735.95	735.50	0.29	11.4		HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL.	
88	432+74 Rt.	12" C.M. PIPE (GA. NO. 16)	24'			743.25	743.10	0.58				
89	433+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	70'	3.1'		742.46	742.00	0.29	11.3		HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL.	
90	436+37	6' 4" STD. REINF. CONC. CULVERT & W-1 WINGS	65'	6'		738.00	736.00	43.90	180.5	11,280	EXTEND EXISTING CONC. CULVERT ON LT.	
91	440+80	18" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	106'	45°	4.2'	745.00	745.15	8.0			CONSTRUCT OUTLET DITCH. CONNECT TO STRUCTURE No. 92	
92	440+80										EXISTING STRUCTURE TO REMAIN IN PLACE. CONNECT TO STRUCTURE No. 91	
93	446+95	5' 5" STD. REINF. CONC. CULVERT & W-1 WINGS	66'	14'		740.00	737.00	42.10	238.5	10,978	EXTEND EXISTING BOX CULVERT ON LT. CONSTRUCT OUTLET DITCH.	
94	447+50	12" SPL. INLET TYPE M-III (5' DEEP) & GA. NO. 16 F.B.C.C.M. PIPE W/P.I. 2-22° 30' BENDS	48'			752.70	736.92	0.64			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO STRUCTURE No. 95 & TO SUBSURFACE DRAIN.	
95	447+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	56'	5.2'		752.78		3.5			CONNECT TO STRUCTURE No. 94	
96	451+60	12" SPL. INLET TYPE M-III (6' DEEP) & GA. NO. 16 F.B.C.C.M. PIPE W/P.I. 2-22° 30' BENDS	38'			752.50	745.00	0.64			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO STRUCTURE No. 97	
97	451+60	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	56'	6.3'		752.99		3.5			CONNECT TO STRUCTURE No. 96	
98	454+60 Rt.	12" GROUP 'D' PIPE (GA. NO. 16 C.M.)	24'			754.59	754.45	0.58				
99	455+00	12" SPL. INLET TYPE M-III (5' DEEP) & GA. NO. 16 F.B.C.C.M. PIPE W/P.I. 2-22° 30' BENDS	28'			754.25	747.30	0.64			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO STRUCTURE No. 100	
100	455+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	56'	5.6'		754.44		3.5			CONNECT TO STRUCTURE No. 99	

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH L'	SKEW	COVER	FLOW LINE		CONCRETE CLASS. D	SPECIAL BORROW GRADE ^B CU.YDS.	REINFORCING STEEL LBS.	REMARKS	PLANS ON SHEET NO.
						UP STREAM ELEV.	DOWN STREAM ELEV.					
LINE B' CONT'D.												
101	455+36.5	5' 5" STD. REINF. CONC. CULVERT & W-1 WINGS	84'		12'	748.00	742.00	50.50	303.5	13,367	EXTEND EXISTING BOX CULVERT ON LT.	14
102	459+60 Lt.	12" GROUP 'D' PIPE (GA. NO. 16 C.M.)	24'			757.94	757.86	0.58				14
103	459+60 Rt.	12" GROUP 'D' PIPE (GA. NO. 16 C.M.)	30'			759.47	759.40	0.58				14
ACCESS RD. No. 6												
104	0+35	12" C.M. PIPE (GA. NO. 16)	30'			768.16	767.50	0.58				14
LINE B'												
105	460+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	70'	3.0'		758.43	758.10	0.29	7.2		HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL.	14
106	463+35 Lt.	12" STD. INLET TYPE K-II & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	20'			760.00	757.90	0.29			HEADWALL REQ'D. OUTLET END ONLY.	15
107	464+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	56'	3.8'		759.89		10.4			CONNECT TO STRUCTURE No. 108	15
108	464+50	12" STD. INLET TYPE M-II & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	24'			759.76	757.51	0.29			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO STRUCTURE No. 107	15
109	466+00 Lt.	12" STD. INLET TYPE K-II & GA. NO. 16 F.B.C.C.M. PIPE W/P.I. 2-22° 30' BENDS	68'			762.13	737.15	0.64			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO SUBSURFACE DRAIN.	15
110	466+05	78" GROUP 'B' PIPE (STRUTTED F.B.C.C.M. W/P.I.)	310'	30°		759.00	735.00	4.71	288.9		STRUCTURAL PLATES: GA. NO. 10 TOP & SIDES, GA. NO. 8 BOTTOM. PIPE ANCHORS REQ'D. EACH END. CONSTRUCT OUTLET DITCH. SEE SPECIAL PROVISIONS.	15
111	466+91	12" 6" EXISTING CONC. CULVERT						3.37			REMOVE WINGS ON RT. SEAL & ABANDON	15
112	467+00 Rt.	12" STD. INLET TYPE K-II & GA. NO. 16 F.B.C.C.M. PIPE W/P.I. 2-18° BENDS	74'			763.14	742.50	0.64			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO SUBSURFACE DRAIN.	15
ACCESS RD. No. 7												
113	5+90	12" C.M. PIPE (GA. NO. 16)	30'			736.50	736.00	0.58			CONSTRUCT OUTLET DITCH.	15
LINE S-12-B'												
114	48+60 Rt.	12" GROUP 'D' PIPE (GA. NO. 16 C.M.)	56'			773.00	772.50	0.58				15
115	49+15	24" GROUP 'D' PIPE (GA. NO. 16 C.M.)	56'			768.55	768.31	1.24				15
116	53+15 Lt.	12" C.M. PIPE (GA. NO. 16)	24'			764.50	761.50	0.58				15
LINE B'												
117	472+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	82'	4.7'		769.65	764.00	0.64	28.0		HEADWALL REQ'D. OUTLET END ONLY. CONSTRUCT OUTLET DITCH.	15
118	485+68	6" SEWER PIPE	174'					37.0				15
119	493+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	70'	3.0'		771.42	771.25	0.29	7.2		HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL.	16
120	494+20 Lt.	12" GROUP 'D' PIPE (GA. NO. 16 C.M.)	24'			769.81	769.55	0.58				16
121	494+20 Rt.	15" GROUP 'D' PIPE (GA. NO. 16 C.M.)	30'			770.26	769.66	0.69				16
122	497+20	66" GROUP 'A' PIPE (GA. NO. 10 F.B.C.C.M. W/P.I.)	258'	25°		752.50	748.50	3.92	231.0		STRUCTURAL PLATES: GA. NO. 12 TOP & SIDES, GA. NO. 10 BOTTOM. PIPE ANCHORS REQ'D. EACH END. CONSTRUCT INLET & OUTLET DITCHES.	16
123	497+50 Rt.	12" STD. INLET TYPE K-II & GA. NO. 16 F.B.C.C.M. PIPE W/P.I. 2-18° BENDS	50'			766.03	753.00	0.64			HEADWALL REQ'D. OUTLET END ONLY.	16
124	497+92	8' 5" EXISTING R.C. CULVERT						2.00			SEAL & ABANDON	16
125	499+50 Lt.	12" STD. INLET TYPE K-II & GA. NO. 16 F.B.C.C.M. PIPE W/P.I. 2-18° BENDS	52'			764.34	750.60	0.64			HEADWALL REQ'D. OUTLET END ONLY.	16
126	500+00 Rt.	12" STD. INLET TYPE K-II & GA. NO. 16 F.B.C.C.M. PIPE W/P.I. 2-18° BENDS	26'			764.09	758.27	0.64			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO SUBSURFACE DRAIN.	16
127	501+60	12" STD. INLET TYPE M-II & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	20'			762.50	760.50	0.64			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO STRUCTURE No. 128 & TO SUBSURFACE DRAIN.	16
128	501+60	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	56'	4.0'		762.68		3.5			CONNECT TO STRUCTURE No. 127	16
129	502+00	12" STD. INLET TYPE M-II & GA. NO. 16 F.B.C.C.M. PIPE W/P.I. 2-18° BENDS	34'			763.07	755.00	0.64			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO STRUCTURE No. 130	16
130	502+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.M. W/P.I.)	56'	3.2'		763.71		3.5			CONNECT TO STRUCTURE No. 129	16

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PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F 10(9)		39		

STRUCTURE DATA

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-70(9)	1964	40	40

STRUCTURE NUMBER	LOCATION	SIZE	DESCRIPTION	LENGTH	SKEW	COVER	FLOW LINE		CONCRETE CLASS 'D'	SPECIAL BORROW GRADES	REINFORCING STEEL	REMARKS	PLANS ON SHEET NO.
							UP STREAM ELEV.	DOWN STREAM ELEV.					
LINE 'B' CONT'D.													
131	504+00	36"	GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	184'	30°		760.00	757.00	8.12	51.5		CONSTRUCT INLET & OUTLET DITCHES. REMOVE EXISTING PIPE.	
132	504+40 Rt.	6"	C.M. PIPE (Ga. No. 18)	6'								No HEADWALL REQ'D.	
133	504+60 Rt.	8"	C.M. PIPE (Ga. No. 18)	6'								No HEADWALL REQ'D.	
134	512+50	12"	STD. INLET TYPE E-7 & 12" GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	74'		4.8'	769.35	769.28	0.29	7.3		HEADWALL REQ'D. OUTLET END ONLY.	
ACCESS RD. No. 3													
135	514+85	12"	C.M. PIPE (Ga. No. 16)	32'			770.00	769.50	0.58			CONSTRUCT OUTLET DITCH.	
LINE 'D'													
136	515+40 Rt.	18"	GROUP 'D' PIPE (Ga. No. 16 C.M.)	40'			769.30	768.90	0.80				
137	517+00	24"	GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	122'			767.75	767.25	2.50	16.8			
138	523+50	12"	STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	84'			764.90	764.75	0.29	7.4		HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL.	
139	524+00 Rt.	6"	C.M. PIPE (Ga. No. 18)	6'									
LINE 'S-15-B'													
140	48+50 Lt.	12"	C.M. PIPE (Ga. No. 16)	36'			767.02	766.36	0.58			REMOVE EXISTING PIPE ON LT. @ STA. 49+00	
141	49+20	15"	GROUP 'D' PIPE (Ga. No. 16 C.M.)	80'			765.45	765.18	0.69				
142	50+89	15"	GROUP 'D' PIPE (Ga. No. 16 C.M.)	74'			764.15	763.80	0.69				
143	51+30 Lt.	15"	C.M. PIPE (Ga. No. 16)	24'			769.40	767.00	0.69				
LINE 'B'													
144	527+00	12"	STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	76'		3.7'	763.49	762.65	0.29	3.9		HEADWALL REQ'D. OUTLET END ONLY. OUTLET SUBSURFACE DRAIN THRU HEADWALL.	
145	528+00	6"	DRAIN TILE	576'								12" x 12" x 6" TEE REQ'D.	
146	531+38	12"	SEWER PIPE	180'								CONNECT TO EXISTING 12" FIELD TILE LT. & RT.	
147	531+50	24"	GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	152'			759.75	759.25	3.75	15.1		REMOVE EXISTING DROP INLET	
148	533+44 Lt.	12"	GROUP 'D' PIPE (Ga. No. 16 C.M.)	24'			763.03	762.16	0.58			REMOVE EXISTING PIPE & DRIVE.	
149	533+44 Rt.	12"	GROUP 'D' PIPE (Ga. No. 16 C.M.)	26'			764.75	763.90	0.58				
150	538+90	15"	EXISTING CONC. PIPE						0.20			SEAL & ABANDON. REMOVE HEADWALLS.	
151	543+50	15"	STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	70'		2.7'	762.33	762.18	0.35	4.7		HEADWALL REQ'D. OUTLET END ONLY.	
152	544+21 Lt.	12"	GROUP 'D' PIPE (Ga. No. 16 C.M.)	30'			763.84	763.48	0.58			REMOVE EXISTING PIPE & DRIVE.	
153	544+21 Rt.	12"	GROUP 'D' PIPE (Ga. No. 16 C.M.)	26'			761.50	761.10	0.58				
ACCESS RD. No. 9													
154	545+40	12"	C.M. PIPE (Ga. No. 16)	32'			764.40	763.00	0.58				
155	547+20	12"	C.M. PIPE (Ga. No. 16)	30'			761.50	761.20	0.58				
LINE 'B'													
156	548+30 Lt.	12"	C.M. PIPE (Ga. No. 16)	20'			759.00	758.80	0.58			CONSTRUCT INLET & OUTLET DITCHES.	
157	548+30	15"	GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	84'				757.00	0.35	4.9		EXTEND PIPE IN PLACE.	
158	548+39	6"	SEWER PIPE	100'						7.5			
159	551+00	12"	STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	74'		4.0'	755.26	755.00	0.29	7.7		HEADWALL REQ'D. OUTLET END ONLY.	
160	552+32	8"	SEWER PIPE	100'						35.6			
161	555+40	15"	GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	78'				750.30	0.35			EXTEND PIPE IN PLACE.	
162	555+55	6"	SEWER PIPE	110'									
163	558+00	12"	C.M. PIPE (Ga. No. 18)	6'				749.00		23.0			
163	558+00	12"	STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	70'		3.4'	747.75	747.40	0.29	7.4		HEADWALL REQ'D. OUTLET END ONLY.	

STRUCTURE NUMBER	LOCATION	SIZE	DESCRIPTION	LENGTH	SKEW	COVER	FLOW LINE		CONCRETE CLASS 'D'	SPECIAL BORROW GRADES	REINFORCING STEEL	REMARKS	PLANS ON SHEET NO.
							UP STREAM ELEV.	DOWN STREAM ELEV.					
LINE 'B' CONT'D.													
164	563+25 Rt.	6"	C.M. PIPE (Ga. No. 18)	6'								1-45° BEND REQ'D.	18
165	565+50	12"	STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	82'		4.3'	738.55	735.72	0.29	12.0		HEADWALL REQ'D. OUTLET END ONLY.	18
166	566+00 Lt.	15"	GROUP 'D' PIPE (Ga. No. 16 C.M.)	24'			741.05	740.95	0.69			REMOVE EXISTING PIPE.	18
167	566+00 Rt.	36"	GROUP 'D' PIPE (Ga. No. 14 C.M.)	36'			734.46	734.02	3.14				18
168	568+15	24"	GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	144'			735.75	732.40	1.24	25.2		REMOVE EXISTING STRUCTURE.	18
LINE 'A'													
169	1+30 Rt.	12"	STD. INLET TYPE K-II & Ga. No. 16 F.B.C.C.M. PIPE w/ P.I. 2-22° 30' BENDS	30'			734.21	727.75	0.64			HEADWALL REQ'D. OUTLET END ONLY.	18
170	4+00 Rt.	12"	STD. INLET TYPE K-II & Ga. No. 16 F.B.C.C.M. PIPE w/ P.I. 2-22° 30' BENDS	32'			732.71	724.37	0.64			HEADWALL REQ'D. OUTLET END ONLY.	18
171	4+70	15"	GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	182'			729.62	723.43	1.20	42.6		REMOVE EXISTING STRUCTURE.	18
172	6+00	15"	STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	68'		3.1'	731.86		3.6			CONNECT TO STRUCTURE No. 173	18
173	6+00	15"	STD. INLET TYPE M-II & Ga. No. 16 F.B.C.C.M. PIPE w/ P.I. 2-22° 30' BENDS	36'			730.80	721.67	0.85			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO STRUCTURE No. 172	18
LINE 'S-I-A'													
174	51+15	8'10" x 4'	STRUCTURAL PLATE PIPE ARCH	84'	15°		720.40	719.30				STRUCTURAL PLATES: GA. No. 10 TFS, GA. #8 BOTTOM STR. PLATE PIPE ANCHORS REQ'D. AT EACH END. REMOVE EXISTING STRUCTURES.	18
175	55+75 Rt.	8'15" x 4'	STRUCTURAL PLATE PIPE ARCH	70'			724.90	724.00				STRUCTURAL PLATES: GA. No. 10 TFS, GA. #8 BOTTOM STRUCTURAL PLATE PIPE ANCHORS REQ'D. AT BOTH ENDS	20
LINE 'A'													
176	10+00	12"	STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	56'		4.2'	728.14		3.6			CONNECT TO STRUCTURE No. 177	18
177	10+00	12"	STD. INLET TYPE M-II & Ga. No. 16 F.B.C.C.M. PIPE w/ P.I. 2-22° 30' BENDS	46'			727.50	717.11	0.64			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO STRUCTURE No. 176	18
178	10+62 Rt.	6"	C.M. PIPE (Ga. No. 18)	6'								No HEADWALL REQ'D.	19
179	11+22 Rt.	10'3" x 4'	STRUCTURAL PLATE PIPE ARCH	60'			716.20	716.10	5.46			STRUCTURAL PLATES: GA. No. 10 TFS, GA. #8 BOTTOM STR. PLATE PIPE ANCHORS REQ'D. AT EACH END.	19
OLD U.S. No. 31 (PAPER RELOCATION)													
180	0+80	15"	C.M. PIPE (Ga. No. 16)	64'			723.25	720.85	0.69			REMOVE EXISTING PIPE	19
LINE 'A'													
181	13+00	8'7" x 5'	EXIST. STRUCT. PLATE PIPE ARCH (MIN. AREA = 54 SQ. FT.)	84'	15°		715.23		2.73			EXTEND ON RIGHT. STR. PLATES: GA. No. 10 TOP & SIDES, GA. No. 8 BOTTOM STR. PLATE PIPE ANCHOR REQ'D. AT INLET END ONLY. FIELD CONNECTION REQ'D.	19
182	15+50	12"	STD. INLET TYPE K-II & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	56'		2.5'	725.30		7.7			HEADWALL REQ'D. OUTLET END ONLY. CONNECT TO STRUCTURE No. 183 & TO SUBSURFACE DRAIN.	19
183	15+50	12"	STD. INLET TYPE E-7 & GROUP 'A' PIPE (Ga. No. 16 F.B.C.C.M. w/ P.I.)	76'		3.1'	724.40	722.58				CONNECT TO STRUCTURE No. 182	19
184	16+50 Rt.	12"	GROUP 'D' PIPE (Ga. No. 16 C.M.)	30'			722.10	721.90	0.58				19
185	17+20 Rt.	12"	GROUP 'D' PIPE (Ga. No. 16 C.M.)	30'			721.75	721.55	0.58				19
									TOTAL	326.96	2309.7	51,791	

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PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F 70(9)		40		

ESTIMATE OF QUANTITIES

VOID
THIS SHEET SHOULD NOT BE
IN R/W PLANS.

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S.F.70 (9)	1964	41	41

GRADING		
ITEM	UNIT	QUANTITY
CLEARING RIGHT-OF-WAY	LUMP SUM	
LINEAR GRADING	MILE	
COMMON EXCAVATION	CYS	452,933
SOLID ROCK EXCAVATION	CYS	
WATERWAY EXCAVATION	CYS	
CLASS "Y" EXCAVATION	CYS	
WET EXCAVATION	CYS	
UNCLASSIFIED EXCAVATION	CYS	
SPECIAL BORROW	CYS	
OVERHAUL	CYS	156,377
ADDED HAUL	UNITS	438,212
WASTE		33,803
PEAT EXCAVATION	CYS	
PEAT EXCAVATION 15 TO 25 FT.	CYS	
PEAT EXCAVATION 25 TO 35 FT.	CYS	
SURCHARGE 4'	LFT	
SURCHARGE 4'-8'	LFT	
SURCHARGE 8'-12'	LFT	
SURCHARGE 12'-16'	LFT	
SURCHARGE 16'-20'	LFT	
SURCHARGE 20'-24'	LFT	
MACHINE OPERATION	HRS	
MACHINE AVAILABILITY	HRS	
2" CASSED TEST HOLE	LFT	
4" CASSED TEST HOLE	LFT	
6" CASSED TEST HOLE	LFT	
2" CASSED DYNAMITE HOLES	LFT	
4" CASSED DYNAMITE HOLES	LFT	
6" CASSED DYNAMITE HOLES	LFT	
GRADE "B" SPECIAL BORROW	CYS	4,617
PAVEMENT REMOVAL	SYS	5,088
SALVAGED PAVEMENT	SYS	
SURFACE REMOVAL	SYS	4,093
BREAKING PAVEMENT	SYS	5,024
CURB REMOVAL	LFT	
CENTER CURB REMOVAL	LFT	
COMBINED CURB AND GUTTER REMOVAL	LFT	
LIP GUTTER REMOVAL	LFT	
GUTTER REMOVAL	LFT	
WALK REMOVAL	SYS	
STEPS REMOVAL	SYS	
GUARD RAIL SALVAGE	LFT	
RETAINING WALL REMOVAL	LFT	
RETAINING WALL REMOVAL	LFT	
PAVED SIDE DITCH REMOVAL	LFT	
REMOVAL OF PRESENT STRUCTURE	LUMP SUM	
REMOVAL OF PRESENT STRUCTURE	LUMP SUM	
TREE REMOVAL	sq. ft.	

PAVEMENT		
ITEM	UNIT	QUANTITY
CEMENT CONCRETE BASE (")	SYS	
CEMENT CONCRETE BASE (")	SYS	
H.E.S. CEMENT CONCRETE BASE	(")	SYS
H.E.S. CEMENT CONCRETE BASE	(")	SYS
CONCRETE PATCHES	SYS	
CLASS I CONCRETE PATCHES	SYS	
CLASS II CONCRETE PATCHES	SYS	
CLASS III CONCRETE PATCHES	SYS	
CLASS IV CONCRETE PATCHES	SYS	
BITUMINOUS MIXTURE FOR PATCHES	TON	
CLASS I BITUMINOUS PATCHES	TON	
CLASS II BITUMINOUS PATCHES	TON	
CLASS III BITUMINOUS PATCHES	TON	
CLASS IV BITUMINOUS PATCHES	TON	
HOT ASPHALTIC CONCRETE BASE WIDENING	TON	
HOT A.E. BASE WIDENING	TON	
BITUMINOUS COATED AGGREGATE BASE WIDENING	TON	
CONCRETE WIDENING	SYS	
FILLING CRACKS AND JOINTS	TON	
BITUMINOUS MATERIAL FOR UNDERSEAL	TON	
DRILLING HOLES	EACH	
SUBBASE, TYPE II	CYS	
SUBBASE, TYPE I OR II	CYS	32,324
SALVAGED ROAD MATERIAL FOR SUBBASE	CYS	
BITUMINOUS COATED AGGREGATE (DENSE GRADED)	TON	
TYPE "P" COMPACTED AGGREGATE BASE	(1) TON	31,312
TYPE "P" COMPACTED AGGREGATE SURFACE	TON	
TYPE "P" COMPACTED AGGREGATE SHOULDER	TON	
PURE CALCIUM CHLORIDE	TON	12
HOT ASPHALTIC CONCRETE BASE	TON	
HOT ASPHALTIC CONCRETE BINDER	TON	
HOT ASPHALTIC CONCRETE BINDER FOR WEDGE AND LEVELING	TON	
HOT ASPHALTIC CONCRETE SURFACE, TYPE "	TON	
HOT A.E. BASE	TON	
HOT A.E. BINDER	TON	
HOT A.E. BINDER FOR WEDGE AND LEVELING	TON	
HOT A.E. SURFACE, TYPE "	TON	
BITUMINOUS COATED AGGREGATE BASE	TON	
BITUMINOUS COATED AGGREGATE BINDER	TON	
BITUMINOUS COATED AGGREGATE BINDER FOR WEDGE AND LEVELING	TON	
BITUMINOUS COATED AGGREGATE SURFACE	TON	
MIXTURE FOR BITUMINOUS SHOULDER	(2) TON	13,708
BITUMINOUS MATERIAL APPLIED, PRIME	TON	141
BITUMINOUS MATERIAL APPLIED, TACK COAT	TON	19
BITUMINOUS MATERIAL APPLIED, SEAL	TON	98
COVERING AGGREGATE	TON	742
AGGREGATE FOR SHOULDER DRAINS	TON	

MISCELLANEOUS		
ITEM	UNIT	QUANTITY
REINFORCED CEMENT CONCRETE PAVEMENT (9")	SYS	169,933
REINFORCED CEMENT CONCRETE PAVEMENT (")	SYS	
REINFORCED CEMENT CONCRETE PAVEMENT (")	SYS	
H.E.S. REINFORCED CEMENT CONCRETE PAVEMENT (")	SYS	
H.E.S. REINFORCED CEMENT CONCRETE PAVEMENT (")	SYS	
H.E.S. REINFORCED CEMENT CONCRETE PAVEMENT (")	SYS	
PLAIN CEMENT CONCRETE PAVEMENT (8")	SYS	3,904
PLAIN CEMENT CONCRETE PAVEMENT (")	SYS	
H.E.S. PLAIN CEMENT CONCRETE PAVEMENT (")	SYS	
PRIVATE DRIVE PAVEMENT	SYS	
COMMERCIAL DRIVE PAVEMENT	SYS	
CEMENT CONCRETE FOR CROSSOVER	SYS	
BITUMINOUS MIXTURE FOR CROSSOVER	TON	
CONTRACTION JOINT, TYPE "D-I"	LFT	38,250
1 INCH PREFORMED EXPANSION JOINT WITH LOAD TRANSFER	LFT	776
1 1/2 INCH PREFORMED JOINT FILLER	LFT	
1 INCH PREFORMED JOINT FILLER	LFT	365
1 1/2 INCH POLYCHLOROPRENE FILLER	LFT	170
REINFORCING STEEL FOR PAVEMENT	LB	14,536
ANCHOR BOLTS	EACH	
BITUMINOUS MIXTURE FOR FRONTAGE ROADS	TON	
BITUMINOUS MIXTURE FOR APPROACHES	TON	
SALVAGED ROAD MATERIAL FOR APPROACHES	CYS	
SALVAGED ROAD MATERIAL FOR BASE	CYS	
SALVAGED SURFACE MATERIAL FOR APPROACHES	CYS	
(1) INCLUDES 600 TONS FOR PRIVATE DRIVES AND 2075 TONS FOR COMMERCIAL DRIVES		
(2) INCLUDES FOR ROAD APPROACHES	TON	675
(2) INCLUDES FOR FRONTAGE ROADS	TON	943
(2) INCLUDES FOR PRIVATE DRIVES, COMMERCIAL DRIVES AND CROSSOVERS	TON	1,417
(2) INCLUDES FOR TEMP. RUNAROUND	TON	1,120

MISCELLANEOUS		
ITEM	UNIT	QUANTITY
6 INCH HAND LAID RIPRAP	SYS	
12 INCH HAND LAID RIPRAP	SYS	
GROUTED RIPRAP	SYS	
PLACING HAND LAID RIPRAP 6"	SYS	145
PLACING HAND LAID RIPRAP 12"	SYS	
PRECAST CONCRETE RIPRAP	SYS	
SLOPEWALL	SYS	
CONCRETE SLOPEWALL (")	SYS	
STANDARD LIP GUTTER	LFT	
PAVED SIDE DITCH, TYPE "A"	LFT	7,372
PAVED SIDE DITCH, TYPE "B"	LFT	540
PAVED SIDE DITCH, TYPE "C"	LFT	
PAVED SIDE DITCH, TYPE "D"	LFT	
PAVED SIDE DITCH, TYPE "E"	LFT	
INTEGRAL CONCRETE CURB	LFT	
INTEGRAL CONCRETE CURB TYPE "B"	LFT	4,414
INTEGRAL CONCRETE CURB TYPE "C"	LFT	
CONCRETE CURB	LFT	240
CONCRETE CURB, TYPE "B"	LFT	508
BITUMINOUS CURB	LFT	7,076
CONCRETE GUTTER	LFT	84
REINFORCED CONCRETE GUTTER	LFT	653
RECONSTRUCTED CONCRETE CURB	LFT	
RECONSTRUCTED COMBINED CONCRETE CURB AND GUTTER	LFT	
RESET CURB	LFT	
CONCRETE CENTER CURB	LFT	
CONCRETE CENTER CURB, TYPE "B"	LFT	100
CONCRETE CENTER CURB, TYPE "C"	LFT	
CONCRETE CENTER CURB, TYPE "D"	LFT	
CONCRETE CENTER CURB, TYPE "E"	LFT	
CONCRETE CENTER CURB, TYPE "F"	LFT	
CONCRETE CENTER CURB, TYPE "G"	LFT	
CONCRETE CENTER CURB, TYPE "H"	LFT	
CONCRETE CENTER CURB, TYPE "I"	LFT	
CONCRETE CENTER CURB, TYPE "J"	LFT	
CONCRETE CENTER CURB, TYPE "K"	LFT	
CONCRETE CENTER CURB, TYPE "L"	LFT	
CONCRETE CENTER CURB, TYPE "M"	LFT	
CONCRETE CENTER CURB, TYPE "N"	LFT	
CONCRETE CENTER CURB, TYPE "O"	LFT	
CONCRETE CENTER CURB, TYPE "P"	LFT	
CONCRETE CENTER CURB, TYPE "Q"	LFT	
CONCRETE CENTER CURB, TYPE "R"	LFT	
CONCRETE CENTER CURB, TYPE "S"	LFT	
CONCRETE CENTER CURB, TYPE "T"	LFT	
CONCRETE CENTER CURB, TYPE "U"	LFT	
CONCRETE CENTER CURB, TYPE "V"	LFT	
CONCRETE CENTER CURB, TYPE "W"	LFT	
CONCRETE CENTER CURB, TYPE "X"	LFT	
CONCRETE CENTER CURB, TYPE "Y"	LFT	
CONCRETE CENTER CURB, TYPE "Z"	LFT	
CONCRETE CENTER CURB, TYPE "AA"	LFT	
CONCRETE CENTER CURB, TYPE "AB"	LFT	
CONCRETE CENTER CURB, TYPE "AC"	LFT	
CONCRETE CENTER CURB, TYPE "AD"	LFT	
CONCRETE CENTER CURB, TYPE "AE"	LFT	
CONCRETE CENTER CURB, TYPE "AF"	LFT	
CONCRETE CENTER CURB, TYPE "AG"	LFT	
CONCRETE CENTER CURB, TYPE "AH"	LFT	
CONCRETE CENTER CURB, TYPE "AI"	LFT	
CONCRETE CENTER CURB, TYPE "AJ"	LFT	
CONCRETE CENTER CURB, TYPE "AK"	LFT	
CONCRETE CENTER CURB, TYPE "AL"	LFT	
CONCRETE CENTER CURB, TYPE "AM"	LFT	
CONCRETE CENTER CURB, TYPE "AN"	LFT	
CONCRETE CENTER CURB, TYPE "AO"	LFT	
CONCRETE CENTER CURB, TYPE "AP"	LFT	
CONCRETE CENTER CURB, TYPE "AQ"	LFT	
CONCRETE CENTER CURB, TYPE "AR"	LFT	
CONCRETE CENTER CURB, TYPE "AS"	LFT	
CONCRETE CENTER CURB, TYPE "AT"	LFT	
CONCRETE CENTER CURB, TYPE "AU"	LFT	
CONCRETE CENTER CURB, TYPE "AV"	LFT	
CONCRETE CENTER CURB, TYPE "AW"	LFT	
CONCRETE CENTER CURB, TYPE "AX"	LFT	
CONCRETE CENTER CURB, TYPE "AY"	LFT	
CONCRETE CENTER CURB, TYPE "AZ"	LFT	
CONCRETE CENTER CURB, TYPE "BA"	LFT	
CONCRETE CENTER CURB, TYPE "BB"	LFT	
CONCRETE CENTER CURB, TYPE "BC"	LFT	
CONCRETE CENTER CURB, TYPE "BD"	LFT	
CONCRETE CENTER CURB, TYPE "BE"	LFT	
CONCRETE CENTER CURB, TYPE "BF"	LFT	
CONCRETE CENTER CURB, TYPE "BG"	LFT	
CONCRETE CENTER CURB, TYPE "BH"	LFT	
CONCRETE CENTER CURB, TYPE "BI"	LFT	
CONCRETE CENTER CURB, TYPE "BJ"	LFT	
CONCRETE CENTER CURB, TYPE "BK"	LFT	
CONCRETE CENTER CURB, TYPE "BL"	LFT	
CONCRETE CENTER CURB, TYPE "BM"	LFT	
CONCRETE CENTER CURB, TYPE "BN"	LFT	
CONCRETE CENTER CURB, TYPE "BO"	LFT	
CONCRETE CENTER CURB, TYPE "BP"	LFT	
CONCRETE CENTER CURB, TYPE "BQ"	LFT	
CONCRETE CENTER CURB, TYPE "BR"	LFT	
CONCRETE CENTER CURB, TYPE "BS"	LFT	
CONCRETE CENTER CURB, TYPE "BT"	LFT	
CONCRETE CENTER CURB, TYPE "BU"	LFT	
CONCRETE CENTER CURB, TYPE "BV"	LFT	
CONCRETE CENTER CURB, TYPE "BW"	LFT	
CONCRETE CENTER CURB, TYPE "BX"	LFT	
CONCRETE CENTER CURB, TYPE "BY"	LFT	
CONCRETE CENTER CURB, TYPE "BZ"	LFT	
CONCRETE CENTER CURB, TYPE "CA"	LFT	
CONCRETE CENTER CURB, TYPE "CB"	LFT	
CONCRETE CENTER CURB, TYPE "CC"	LFT	
CONCRETE CENTER CURB, TYPE "CD"	LFT	
CONCRETE CENTER CURB, TYPE "CE"	LFT	
CONCRETE CENTER CURB, TYPE "CF"	LFT	
CONCRETE CENTER CURB, TYPE "CG"	LFT	
CONCRETE CENTER CURB, TYPE "CH"	LFT	
CONCRETE CENTER CURB, TYPE "CI"	LFT	
CONCRETE CENTER CURB, TYPE "CJ"	LFT	
CONCRETE CENTER CURB, TYPE "CK"	LFT	
CONCRETE CENTER CURB, TYPE "CL"	LFT	
CONCRETE CENTER CURB, TYPE "CM"	LFT	
CONCRETE CENTER CURB, TYPE "CN"	LFT	
CONCRETE CENTER CURB, TYPE "CO"	LFT	
CONCRETE CENTER CURB, TYPE "CP"	LFT	
CONCRETE CENTER CURB, TYPE "CQ"	LFT	
CONCRETE CENTER CURB, TYPE "CR"	LFT	
CONCRETE CENTER CURB, TYPE "CS"	LFT	
CONCRETE CENTER CURB, TYPE "CT"	LFT	
CONCRETE CENTER CURB, TYPE "CU"	LFT	
CONCRETE CENTER CURB, TYPE "CV"	LFT	
CONCRETE CENTER CURB, TYPE "CW"	LFT	
CONCRETE CENTER CURB, TYPE "CX"	LFT	
CONCRETE CENTER CURB, TYPE "CY"	LFT	
CONCRETE CENTER CURB, TYPE "CZ"	LFT	
CONCRETE CENTER CURB, TYPE "DA"	LFT	
CONCRETE CENTER CURB, TYPE "DB"	LFT	
CONCRETE CENTER CURB, TYPE "DC"	LFT	
CONCRETE CENTER CURB, TYPE "DD"	LFT	
CONCRETE CENTER CURB, TYPE "DE"	LFT	
CONCRETE CENTER CURB, TYPE "DF"	LFT	
CONCRETE CENTER CURB, TYPE "DG"	LFT	
CONCRETE CENTER CURB, TYPE "DH"	LFT	
CONCRETE CENTER CURB, TYPE "DI"	LFT	
CONCRETE CENTER CURB, TYPE "DJ"	LFT	
CONCRETE CENTER CURB, TYPE "DK"	LFT	
CONCRETE CENTER CURB, TYPE "DL"	LFT	
CONCRETE CENTER CURB, TYPE "DM"	LFT	
CONCRETE CENTER CURB, TYPE "DN"	LFT	
CONCRETE CENTER CURB, TYPE "DO"	LFT	
CONCRETE CENTER CURB, TYPE "DP"	LFT	
CONCRETE CENTER CURB, TYPE "DQ"	LFT	
CONCRETE CENTER CURB, TYPE "DR"	LFT	
CONCRETE CENTER CURB, TYPE "DS"	LFT	
CONCRETE CENTER CURB, TYPE "DT"	LFT	
CONCRETE CENTER CURB, TYPE "DU"	LFT	
CONCRETE CENTER CURB, TYPE "DV"	LFT	
CONCRETE CENTER CURB, TYPE "DW"	LFT	
CONCRETE CENTER CURB, TYPE "DX"	LFT	
CONCRETE CENTER CURB, TYPE "DY"	LFT	
CONCRETE CENTER CURB, TYPE "DZ"	LFT	
CONCRETE CENTER CURB, TYPE "EA"	LFT	
CONCRETE CENTER CURB, TYPE "EB"	LFT	
CONCRETE CENTER CURB, TYPE "EC"	LFT	
CONCRETE CENTER CURB, TYPE "ED"	LFT	
CONCRETE CENTER CURB, TYPE "EE"	LFT	
CONCRETE CENTER CURB, TYPE "EF"	LFT	
CONCRETE CENTER CURB, TYPE "EG"	LFT	
CONCRETE CENTER CURB, TYPE "EH"	LFT	
CONCRETE CENTER CURB, TYPE "EI"	LFT	
CONCRETE CENTER CURB, TYPE "EJ"	LFT	
CONCRETE CENTER CURB, TYPE "EK"	LFT	
CONCRETE CENTER CURB, TYPE "EL"	LFT	
CONCRETE CENTER CURB, TYPE "EM"	LFT	
CONCRETE CENTER CURB, TYPE "EN"	LFT	
CONCRETE CENTER CURB, TYPE "EO"	LFT	
CONCRETE CENTER CURB, TYPE "EP"	LFT	
CONCRETE CENTER CURB, TYPE "EQ"	LFT	
CONCRETE CENTER CURB, TYPE "ER"	LFT	
CONCRETE CENTER CURB, TYPE "ES"	LFT	
CONCRETE CENTER CURB, TYPE "ET"	LFT	
CONCRETE CENTER CURB, TYPE "EU"	LFT	
CONCRETE CENTER CURB, TYPE "EV"	LFT	
CONCRETE CENTER CURB, TYPE "EW"	LFT	
CONCRETE CENTER CURB, TYPE "EX"	LFT	
CONCRETE CENTER CURB, TYPE "EY"	LFT	
CONCRETE CENTER CURB, TYPE "EZ"	LFT	
CONCRETE CENTER CURB, TYPE "FA"	LFT	
CONCRETE CENTER CURB, TYPE "FB"	LFT	
CONCRETE CENTER CURB, TYPE "FC"	LFT	
CONCRETE CENTER CURB, TYPE "FD"	LFT	
CONCRETE CENTER CURB, TYPE "FE"	LFT	
CONCRETE CENTER CURB, TYPE "FF"	LFT	
CONCRETE CENTER CURB, TYPE "FG"	LFT	
CONCRETE CENTER CURB, TYPE "FH"	LFT	
CONCRETE CENTER CURB, TYPE "FI"	LFT	
CONCRETE CENTER CURB, TYPE "FJ"	LFT	
CONCRETE CENTER CURB, TYPE "FK"	LFT	
CONCRETE CENTER CURB, TYPE "FL"	LFT	
CONCRETE CENTER CURB, TYPE "FM"	LFT	
CONCRETE CENTER CURB, TYPE "FN"	LFT	
CONCRETE CENTER CURB, TYPE "FO"	LFT	
CONCRETE CENTER CURB, TYPE "FP"	LFT	
CONCRETE CENTER CURB, TYPE "FQ"	LFT	
CONCRETE CENTER CURB, TYPE "FR"	LFT	
CONCRETE CENTER CURB, TYPE "FS"	LFT	
CONCRETE CENTER CURB, TYPE "FT"	LFT	
CONCRETE CENTER CURB, TYPE "FU"	LFT	
CONCRETE CENTER CURB, TYPE "FV"	LFT	
CONCRETE CENTER CURB, TYPE "FW"	LFT	
CONCRETE CENTER CURB, TYPE "FX"	LFT	

PIPE CREEK TOWNSHIP
MIAMI COUNTY

Florence W. Childers
Res. 1/13/22

ALVIN GEORGE ET AL
2/1/27 92 AC

Res. 1/1 = 73.622 Ac.

BEGIN F PROJ
END F PROJ

254 + 18 AHEAD
54 + 18 BACK

Edna Fish, July 1, 1947

Florence W. Childers

Louis C. & Willie C. B...

Elmer E. ...

Res. 1/1 = 44.4 Ac

Res. 1/1 = 39.8 Ac

Jim Ladd

Res. 1/1 = 64.7 Ac

Randy W. ...
Donald H. ...

W. ...
HOME FARM

Ferris W. ...

Clay's ...

COMPLETED DEC. 1964

R.O.W. PLAT 3

FOR THE DIVISION OF LAND ACQUISITION OF
THE INDIANA STATE HIGHWAY COMMISSION

F PROJECT 70(9) AERIAL PHOTO MOSAIC

0.2 MI. S. OF WOOD RD. TO 0.2 MI. N. OF MAUGANS RD.

MOSAIC SCALE: 1" = 400' SHEET 1 OF 3

FLIGHT DATE JAN. 1964 BY CLYDE E. WILLIAMS & ASSOC

PREPARED BY CHAS. W. COLE & SON
SOUTH BEND, INDIANA



7 6 5 4 3 2 1
 Kink's Subdivisor
 FRANK KINK'S SUB
 34

COMPLETED DEC. 1964
R.O.W. PLAT 3
 FOR THE DIVISION OF LAND ACQUISITION OF
 THE INDIANA STATE HIGHWAY COMMISSION
F PROJECT 70(9) AERIAL PHOTO MOSAIC
 0.2 MI. S. OF WOOD RD. TO 0.2 MI. N. OF MAUGANS RD.
 MOSAIC SCALE: 1" = 400' SHEET 2 OF 3
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 SOUTH BEND, INDIANA

PIPE CREEK TOWNSHIP
MIAMI COUNTY



Reyburn

Paul E. Miller
Res. 2-153373

Clifford
Res. 2-311

Cliff E. Sullivan

Wanelda L. Welke
Res. 2-19357

Clifford
Res. 2-311

Hill
Lanes

Frank Kins Sub.
Res. 2-14408 Ac.

Bruce W. ...
Harvey

Danzil Swinford
O.C. & G.I. Pier

TEMP. RIV.
Cliff E. ...
Matthews
Res. 2-8166 Ac.

Res. 2-110,241 Ac.

Gail J. & Ruth Morrett

END OF PROJ. 70(9) STA. 19+500 LINE 'A'
BEGIN OF PROJ. 875(1) STA. 19+500 LINE 'A'

COMPLETED DEC. 1964
R.O.W. PLAT 3
FOR THE DIVISION OF LAND ACQUISITION OF
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F PROJECT 70(9) AERIAL PHOTO MOSAIC
0.2 MI. S. OF WOOD RD. TO 0.2 MI. N. OF MAUGANS RD.
MOSAIC SCALE: 1" = 400' SHEET 3 OF 3
FLIGHT DATE JAN. 1964 BY CLYDE E. WILLIAMS & ASSOC.
PREPARED BY CHAS. W. COLE & SON
SOUTH BEND, INDIANA