Roll #603

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE OF PROPOSED STATE ROAD

FEDERAL AID PROJECT

JOHNSON COUNTY

COUNTY
JOHNSON
STATE ROUTE NO.
50
PROJECT NO.
F-50-2(7)

FINAL PLANS

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SIGNALS ----------
SIGNING ----------
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DESIGN DESIGNATION

A.D.T. (1967) = 1070
A.D.T. (1987) = 7960
D.H.V. (1967) = 870
D = 55%
T = 4%
V = 60 m.p.h.

LIMITED ACCESS HIGHWAY

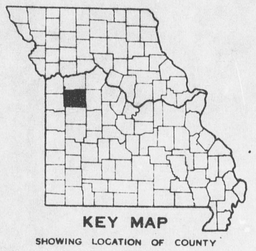
This shall be a limited access highway between Station 935+07 and Station 5+00. Except at locations and as otherwise specifically shown on these plans, no abutter's rights in, or of direct access to, from, or across the highway or its right of way shall attach or belong to any property abutting on said section of highway, or to any person merely because of ownership of such abutting property. There shall be the usual right of access over any location either (1) shown on these plans as a property entrance (P.E.), field entrance (F.E.), or private underpass, or (2) where and when any such entrance, underpass, or an open public highway is being maintained by the governmental agency having authority therefor. Wherever an adjacent outer-roadway is so shown or maintained, there shall be the usual right of direct access between the abutting property and such outer-roadway to which access is not specifically prohibited by the special symbol denoting "No Right of Access" as shown on the plans, and along it to and from the nearest lane of the thruway or a public highway.

LEGEND

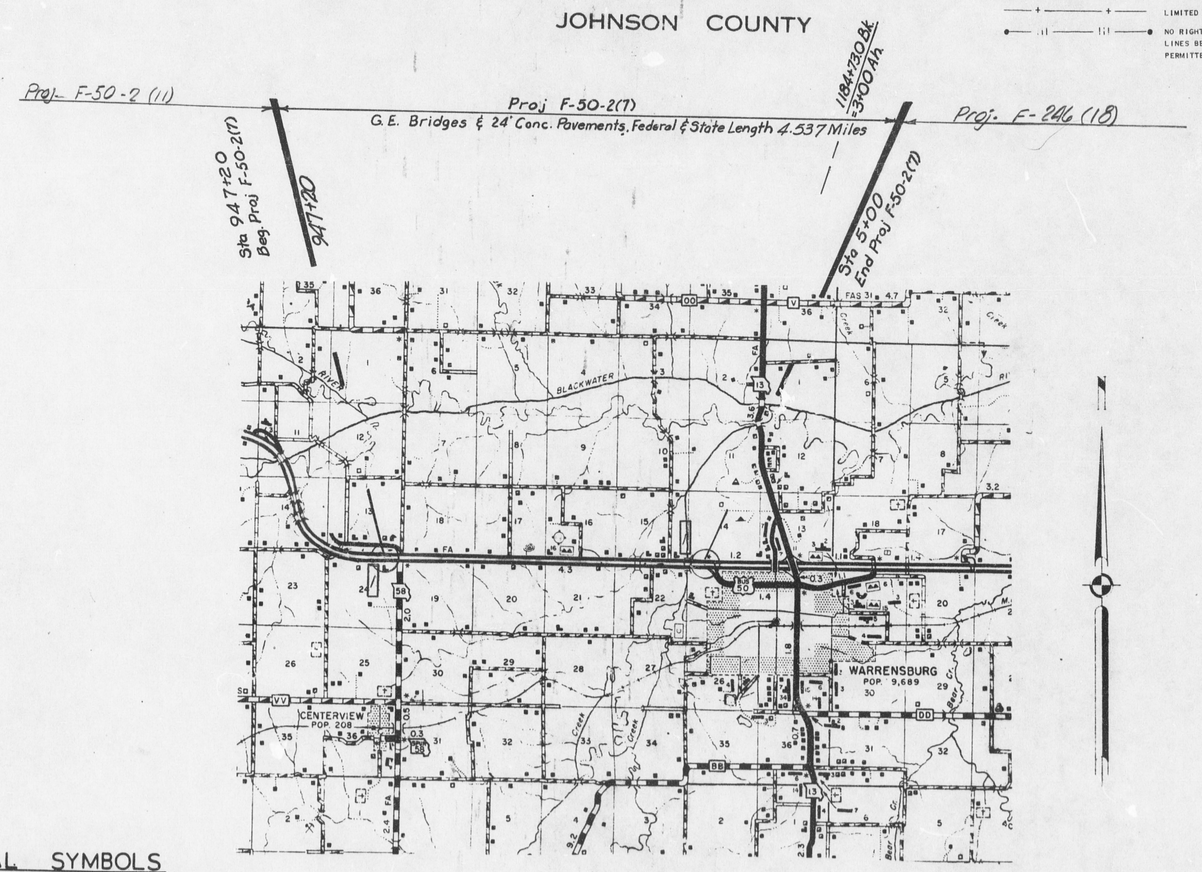
BEGINNING AND ENDING OF LIMITED ACCESS

LIMITED ACCESS

NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.



KEY MAP
SHOWING LOCATION OF COUNTY



CONVENTIONAL SYMBOLS

STATE LINE
COUNTY LINE
CITY LIMITS
TOWNSHIP OR RANGE LINE
OTHER LAND SURVEY LINES
FENCE LINE
GUARD RAIL
PROPERTY LINE
RIGHT OF WAY LINE
RIGHT OF WAY MARKER
RAILROAD
SURVEY CENTER-LINE
CULVERT
OVERHEAD TELEPHONE NEW
OVERHEAD TELEPHONE EXIST.
DITCH BLOCK

EXISTING BUILDINGS & STRUCTURES
GROUND LINE
GRADE LINE
OVERHEAD POWER-EXIST.
OVERHEAD POWER-NEW
UNDERGROUND GAS-NEW
UNDERGROUND WATER-EXIST.

TITLE SHEET LEGEND

INTERCHANGE
GRADE SEPARATION
CONSTRUCTION IDENTIFICATION SIGNS

SCALE OF TITLE SHEET
-1 -.5 0 5 MILES

STATE OF MISSOURI
M. J. SNIDER
NUMBER E-623
REGISTERED PROFESSIONAL ENGINEER

SUBMITTED BY DATE

CHIEF ENGINEER
MISSOURI STATE HIGHWAY COMMISSION
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

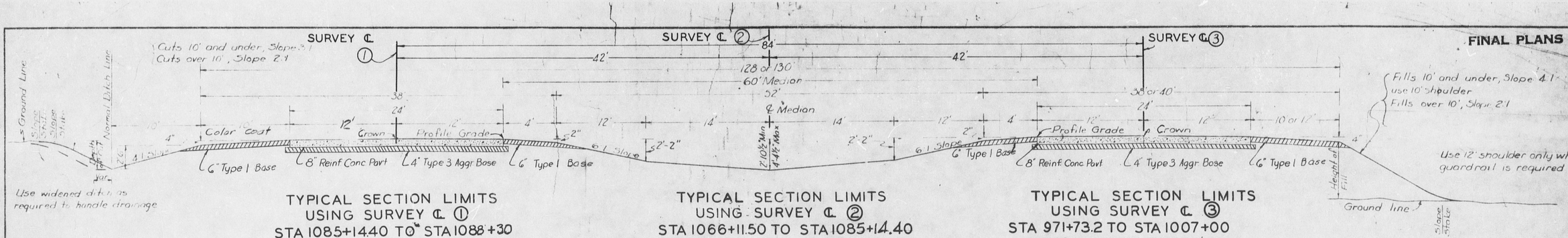
APPROVED:

DIVISION ENGINEER DATE

Roll #603

1

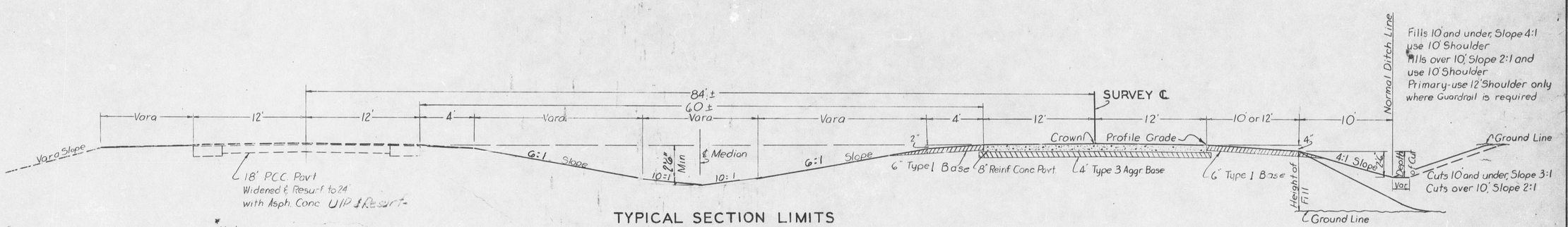
FINAL PLANS



TYPICAL SECTION LIMITS
USING SURVEY ℄ ①
STA 1085+14.40 TO STA 1088+30

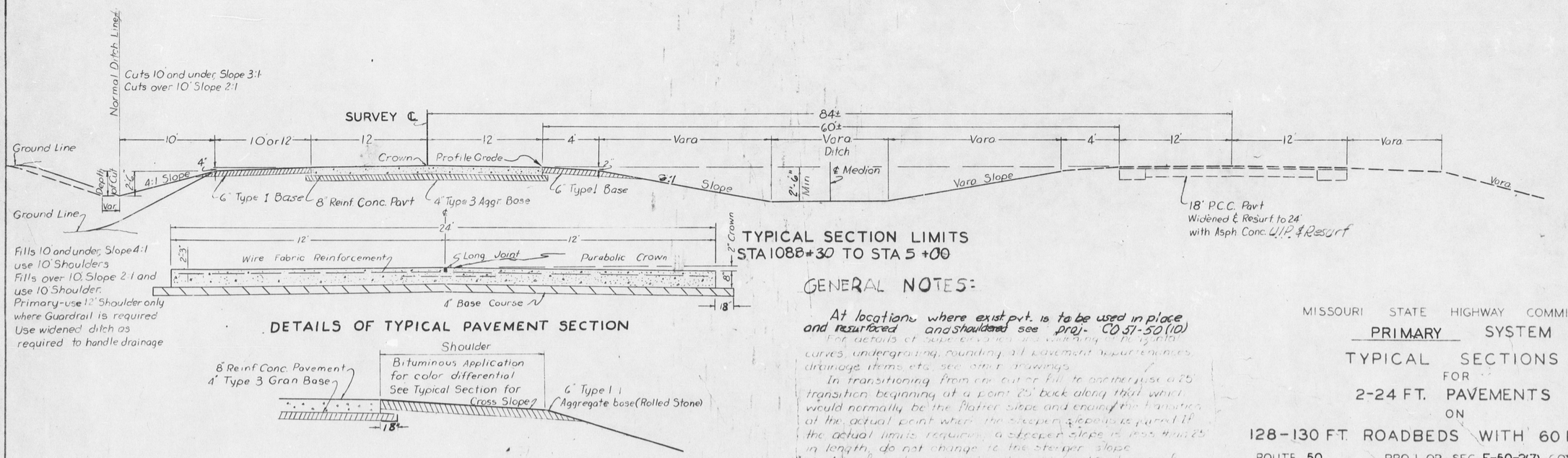
TYPICAL SECTION LIMITS
USING SURVEY ℄ ②
STA 1066+11.50 TO STA 1085+14.40

TYPICAL SECTION LIMITS
USING SURVEY ℄ ③
STA 971+73.2 TO STA 1007+00
STA 1053+00 TO STA 1066+11.5



TYPICAL SECTION LIMITS
STA 947+20 TO STA 971+73.2
STA 1007+00 TO STA 1053+00

* Note
From Sta 950+00 to Sta 971+73.2
exist left lane is 24' P.C.C. Pvt



TYPICAL SECTION LIMITS
STA 1088+30 TO STA 5+00

DETAILS OF TYPICAL PAVEMENT SECTION

DETAILS OF SHOULDERS

GENERAL NOTES:

At locations where exist pvt. is to be used in place and resurfaced and shouldered see proj- CO 57-50(10)

For details of superelevation, widening on horizontal curves, undergrading, rounding at pavement appurtenances drainage items etc. see other drawings.

In transitioning from cut or fill to another use a 25' transition beginning at a point 25' back along that which would normally be the flatter slope and ending at the transition at the actual point where the steeper slope is gained. If the actual limits requires a steeper slope in less than 25' in length, do not change to the steeper slope.

All information shown on these typical sections is for the purpose of indicating general design and const details. Act val const of roadway widths, slopes and depths and type of ditches, undergraded cuts and other features shall conform to the details shown on plan and profile and cross section sheets, or as directed by the Engineer.

For standard crown see following drawing.

MISSOURI STATE HIGHWAY COMMISSION

PRIMARY SYSTEM

TYPICAL SECTIONS
FOR
2-24 FT. PAVEMENTS
ON
128-130 FT. ROADBEDS WITH 60 FT. MEDIAN

ROUTE 50 PROJ. OR SEC. F-50-2(7) COUNTY JOHNSON

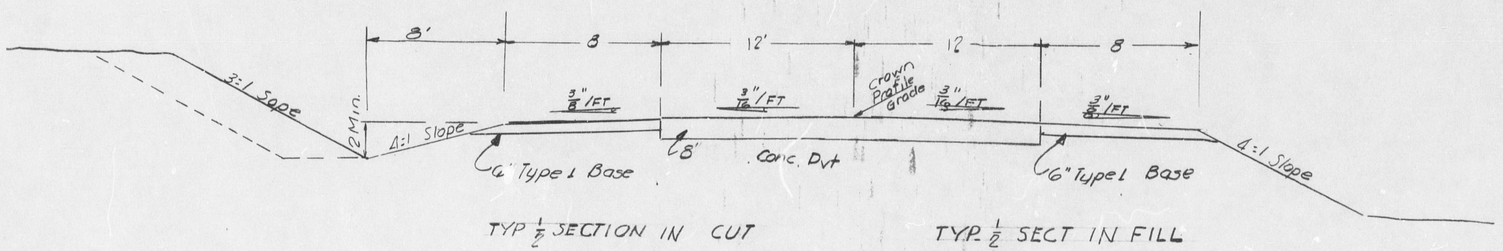
APPROVED J. C. Lewis
ENGR. SURVEYS & PLANS

APPROVED
CHIEF ENGINEER

Temp Conn

FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F 50 - 2 (7)	2
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

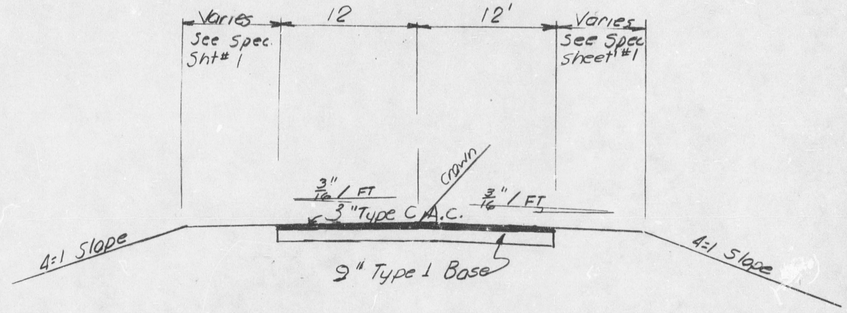
FINAL PLANS



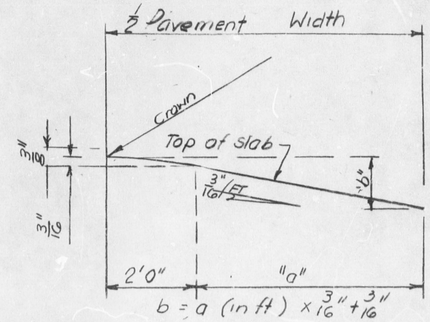
TYP ½ SECTION IN CUT

TYP ½ SECT IN FILL

TYPICAL SECTION ROUTE 58



PERM. MEDIAN CROSS-OVER



STANDARD CROWN

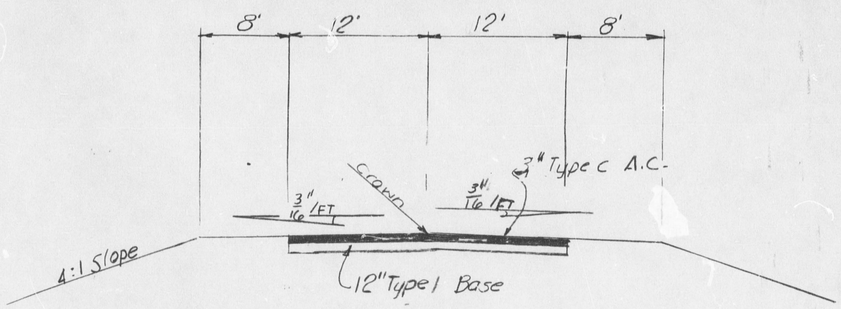
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

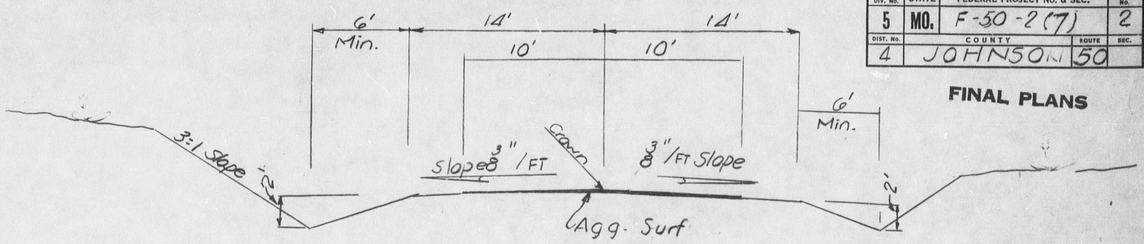
3

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F-50-2(7)	2
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

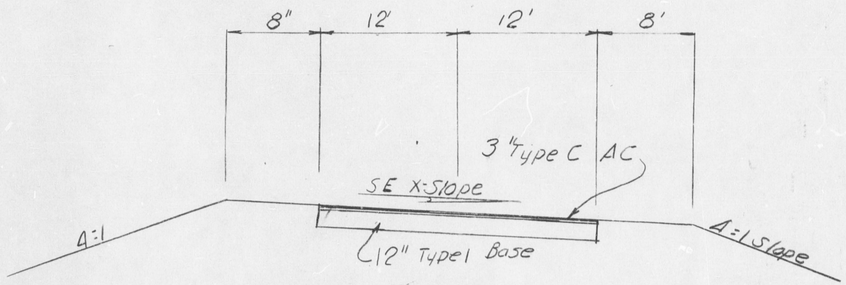
FINAL PLANS



ON TANGENT



TYPICAL SECTION ON TANGENT

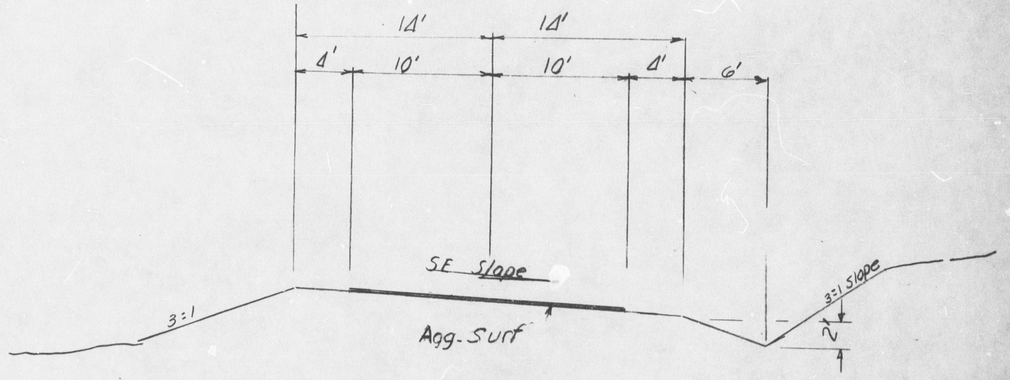


CURVE

TYPICAL SECTION TEMP CONNECTION @ 1072±

TEMP BY PASS Rte 58 TERMINAL

(For Handling Traffic during construction)



Typ. ½ Section in fill Typ. ½ Section in cut

TYPICAL SECTION ON CURVE

TYPICAL SECTION SIDE ROADS & OUTER ROADWAYS

S & P - 2AS

FINAL PLANS

LOCATION FROM RTE. 58, EASTERLY TO WARRENSBURG

TYPE G.E. CULVERTS, BRIDGES 2-24' CONC. PVMT'S. SEP. BY MEDIAN ON PART & 1-22' CONC. PVMT. ON PART (2nd STAGE OF 2-22' CONC. PVMT'S)

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 1 of 2

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	F-50-2(7)		2A	
DIST. No.	COUNTY			ROUTE	SEC. No.
4	JOHNSON			50	

EXCAVATION

Station	Location	Class A	Class C	C Comp.	Fill Comp.	M.G.I.	Overhaul	Remarks
947+20	EBL							
1072+00	"	114,068	2950	17,782	84556		1,095,541	See Sheet # 27
971+73.32	WBL							
972+92.33	"	314		152	187			See Sheet #27
986+12.53	"	28,352	1771	1348	24,466			" " "
998+32.06	"	14,018	1741	1246	13,316			" " "
1005+83	"	5,383		954	4,915			" " "
1009+00	"	3,191		355	1,199			" " "
1034+00	"							
1057+46.23	"	13,006		1,028	9827		5,007	See Sheet #27
1063+05.03	"	4,070		676	3,197			" " "
1072+00	"	2,912		1,797	1,717			" " "
1081+60.16	"	4,096		889	2,754			See Sheet #28
1072+00	EBL							
1083+41.16	"	11,818		1,567	9148			See Sheet #28
1088+12.84	"	1,878		537	1336			" " "
1090+00	"	352		171	287			" " "
1081+60.16	WBL							
1142+23.83	"	81,479		10,060	59998		267,883	See Sheet #28
1155+57.57	"	14,439		1,315	11,300			" " "
5+00	"	30,608		2,43	19796		39,564	" " "
Sub-Totals		329,990	6465	42,314	247,999		1,407,995	
Rounding		3,630						
Entrances						6.1		
TOTALS		333,620	6465	42,314	247,999	6.1	1,407,995	

LENGTH OF PROJECT

End of Project	Station	5+00.	
Beginning of Project	Station	947+20.	
Apparent Length		-94,220	Feet
Equations and Exceptions:			
Sta. 1184+73.08 Bk. = 3+00.0 Ah.			
Total Corrections		+118,173	Feet
Net Length of Project		23,953	Feet
State Length =		4.537	Miles
Federal Length =		4.537	Miles

BOX CULVERTS

Station	Location	Std.	Size	Skew	Length	Cl. B	Reinf.	Cl. 3	Fill	W/W Slope	Remarks
1046+82	℄	53.20	6'x5'	30°RA	193.5	116.1	12,080	484	4'6	2:1	See Sheet #23
1109+30.6	℄	53.20	8'x6'	40°RA	125.35	116.8	12,690	430	10	2:1	See Sheet #25
1136+35	℄	53.30	4'x3'	25°LA	96'	33.8	4,220	174	11	2:1	
				TOTALS		266.7	28990	1088			

CROSS ROAD PIPE CULVERTS (Class III R.C.P.)

Station	12"	18"	24"	30"	36"	42"	48"	Type	Cl. B	Reinf.	Cl. 3	Grates & Br. Plates	Pipe Collars	Remarks
957+00			94'					C-Hdwl. Rt.	1.3	120	15			
957+00	7'													
962+60		119'						S-Hdwl. Lt.	2.2	90		330		49% 12" CMP 119' Authorized
963+16.3		76'						C-Hdwl. Rt.	0.8	60	1.5			
963+26	9'													
989+00			110'					C-Hdwl. Lt.	1.8	180	103			Skew 40° L/A
998+50		117'						C-Hdwl. Rt.	1.1	80	50			Skew 30° R/A Lay 116' Auth. 117'
1003+00				194'				2-C-Hdwls.	5.9	480	234			" " "
1006+65		12'												
1006+95							190'	2-C-Hdwls.	8.8	620	299			Skew 19° R/A Lay 196' See Sheet # 23 Auth. 190'
1016+30		61'						2-S-Hdwls.	4.4	180		660		
1019+06.2			113'					C-Hdwl. Rt.	1.3	120	4.6			
1019+16	5'													
1028+50		61'						2-S-Hdwls.	4.4	180		660		
1042+96	7'													
1043+04.2				95'				C-Hdwl. Rt.	1.8	150	5.7			Skew 0°20°R/A
1046+45	10'													
1055+15							194'	C-Hdwl. Lt. & E-Hdwl. Rt.	8.8	610	44			Skew 30° L/A
1055+50	8'													
1059+75						68'		B-Hdwl. Rt.			8.5			Pond Drain See Sheet # 24
1074+70	6'													
1074+77			163'					E-Hdwl. Lt.	2.3	220	7.3			
1081+68.8	98'												1	Collar 335' Lt.
1083+23.6	121'												1	" " "
1083+60		53'						2-S-Hdwls.	4.4	180		660		Lay 54' Auth. 53'
1087+98		8'												
1088+40				216'				2-C-Hdwls.	6.4	510	17.7			Skew 35° L/A
1096+76		76'						C-Hdwl. Lt.	0.8	60	7.0			
1109+52		13'												
1123+51.2				110'				C-Hdwl. Lt.	2.3	200	9.0		1	Skew 30° R/A Collar Removed on cost-book
1123+69	3'													
1126+60		60'						2-S-Hdwls.	4.4	180		660		
1135+96.2		16'												
1146+25		83'						C-Hdwl. Lt.	0.8	60	8			
1151+04		62'						2-S-Hdwls.	4.4	180		660		
1164+67.4		62'						2-S-Hdwls.	4.4	180		660		
1169+00			98'					C-Hdwl. Lt.	1.3	120	12.6			
1182+51		13'						S-Hdwl. Rt.	2.2	90	4	330		
TOTALS	27.4	892	578	205	41.0	6.8	38.4		76.3	4850	1496	4620	3	

MISCELLANEOUS ITEMS

Sheet No.	Clearing	Grubbing	Cl. A U.D.	R/W Mark.	Dr. Mark.	Type 2 Mulch	Seeding	Sodding	Remarks
3	6	4	50	5	1	116,440	116,440		
4	35	33	50	20	1	322,200	322,200	32,512	See Sheet #20
5	0	0	0	4	0	62,300	62,300		
6	96	87	100	20	2	445,781	445,781	45,153	See Sheet #20
7	80	44	1096	15	3	280,601	280,601	33855	" " "
8	64	46	0	13	0	429,197	429,197	30891	" " " #21
9	50	39	100	19	2	384,310	384,310	17,526	" " "
10	53	51	100	18	2	361,376	361,376	15,940	" " "
11	66	47	150	24	3	319,407	319,407	16,218	" " "
12	78	63	50	2	1	126,430	126,430	30,844	" " #22
TOTALS	528	414	1696	140	15	2848042	2848042	222,969	
PAY	6.1 Ac.	4.8 Ac.	1696	140	15	65.4 Ac.	65.4 Ac.	24,774 SY.	

DROP INLETS

Station	Location	Type	Size	"D"	Cl. B	Reinf.	Cl. 3	Grates & Bearing Pl.	Openings	Remarks
945+00	Med.	S-2	5'x2'	2'-0"	1.7	80	4	330	1-18"	See Sheet #23
957+00	"	"	5'x2'	1'-6"	1.5	80	2	330	1-12"	
963+26	"	"	5'x2'	1'-6"	1.6	80	4	330	1-12"	
989+00	"	"	5'x2'	2'-6"	1.9	100	8	330	1-24"	
998+50	"	"	5'x2'	2'-6"	2.0	100	1	330	1-18"	
1006+65	"	S-1	5'x2'	2'-6"	1.9	100	9	330	1-18"	
1019+16	"	S-2	5'x2'	1'-6"	1.5	80	6	330	1-12"	
1042+96	"	"	5'x2'	1'-6"	1.5	80	3	330	1-12"	
1046+45	"	S-1	5'x2'	2'-6"	1.9	100	6	330	1-12"	
1055+50	"	S-2	5'x2'	2'-0"	1.8	80	2	330	1-12"	
1074+70	"	"	5'x2'	2'-0"	1.8	80	7	330	1-12"	
1087+98	"	"	5'x3'	2'-6"	2.3	120	6	600	1-18"	
1096+76	"	"	5'x2'	2'-6"	2.6	100	7	330	1-18"	
1109+52	"	S-1	5'x2'	2'-6"	1.9	100	9	330	1-18"	
1123+69	"	S-2	5'x2'	1'-6"	1.5	80	4	330	1-12"	
1135+96.5	"	S-1	5'x2'	3'-6"	2.3	120	12	330	1-18"	
1146+25	"	"	5'x2'	3'-0"	2.1	100	7	330	1-18"	
1169+00	"	"	5'x2'	3'-0"	2.0	100	14	330	1-24"	
			TOTALS		33.1	1680	105	6210	

APPROACH SLAB FOR BRIDGES

Station	to	Station	S.Y.	Remarks
1143+23.33		1143+54.00	130.8	West End Br. A-1042
1144+86.00		1145+16.97	130.8	East End Br. A-1042
1176+35.4		1177+15.4	84.4	West End Br. A-1043
1179+73.4		1179+93.4	84.4	East End Br. A-1043
		TOTALS	430.4	

CULVERTS (CMP)

Station	Location	15"	Cl. 3	Remarks
1415+62	℄	68'	20	Route 58 Temp. By-Pass See Sheet # 23
1418+75	℄	60'		Route 58 Temp. X-Over
TOTALS		128'	20	

GENERAL SUMMARY

FINAL PLANS

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY
20008	Clearing	Acre	6.1	
20108	Grubbing	Acre	4.8	
21004	Class A Excavation	Cu. Yd.	333,620	
21024	Class C Excavation	Cu. Yd.	6465	
21204	Compacting Embankment	Cu. Yd.	247,999	
21214	Compacting in Cuts	Cu. Yd.	42,314	
21309	Overhaul (Station)	Sta. Yd.	1,407,995	
21507	Water	100 Gal.	0	
21801A	Machine Grading Class I	Sta.	61.1	
24200	Removal of (97) Miscellaneous Items	L. Sum	94	
24203	Removal of Rigid Pavement	Sq. Yd.	17861	
31015	Type 1 Aggregate for Base	Ton	28,764	
31035	Type 3 Aggregate for Base	Ton	22,868	
31162	Processing Type 1 Aggregate (6")	Mile	5.85	
31163	Processing Type 1 Aggregate (6")	Sq. Yd.	76796	
31193	Processing Type 1 Aggregate (9")	Sq. Yd.	2943	
31103	Processing Type 1 Aggregate (12")	Sq. Yd.	4841	
31342	Processing Type 3 Aggregate (4")	Mile	5.95	
31343	Processing Type 3 Aggregate (4")	Sq. Yd.	0	
35045	Crushed Stone (B)	Ton	1109	
35404	Salvaged Surfacing	Cu. Yd.	691	
37007	Primer (MC-0)	Gal.	22,750	
43035	Type C Asphaltic Concrete	Ton	1919	
44317	Bituminous Material (MC-5)	Gal.	0	
44035	Cover Aggregate (Grade 6)	Ton	0	
48283	Concrete Pavement (8" Reinf.)	Sq. Yd.	860078	
48303	Approach Slab for Bridges	Sq. Yd.	430.4	
50034	Class 3 Excavation for Structures	Cu. Yd.	2813	
53021	Class B Concrete (Culverts)	Cu. Yd.	266.7	
53022	Class B Concrete (Miscellaneous)	Cu. Yd.	109.4	
54000	Reinforcing Steel	Lb.	35,520	
60115	15" Corrugated Metal Ape Culvert	Lin. Ft.	128	
60118	18" Corrugated Metal Ape Culvert	Lin. Ft.	0	
61312	12" Class III R.C.P. Culvert	Lin. Ft.	274	
61318	18" Class III R.C.P. Culvert	Lin. Ft.	892	
61324	24" Class III R.C.P. Culvert	Lin. Ft.	578	
61330	30" Class III R.C.P. Culvert	Lin. Ft.	205	
61336	36" Class III R.C.P. Culvert	Lin. Ft.	610	
61342	42" Class III R.C.P. Culvert	Lin. Ft.	68	
61348	48" Class III R.C.P. Culvert	Lin. Ft.	384	
67012	12" Pipe Culvert (Group II)	Lin. Ft.	356	
67015	15" Pipe Culvert (Group II)	Lin. Ft.	268	
67018	18" Pipe Culvert (Group II)	Lin. Ft.	228	
67024	24" Pipe Culvert (Group II)	Lin. Ft.	366	
67036	36" Pipe Culvert (Group II)	Lin. Ft.	92	
67048	48" Pipe Culvert (Group II)	Lin. Ft.	100	
80500	Pipe Collar	Each	3	
82000	Class A Underdrains	Lin. Ft.	1696	
84000	Concrete Curb (Type S)	Lin. Ft.	870	
84400	Paved Ditch	Sq. Yd.	858.2	
86006	Guard Rail, Type A (Steel) 6'-3" Spacing	Lin. Ft.	513	
86010	Terminal Section	Each	5	
86017	Bridge Anchor Section	Each	4	
87020	Movable Barricades	Each	6	
87100	Construction Signs	L. Sum	1	
88000	Right-of-Way Markers	Each	140	
88020	Drain Markers	Each	15	
89000	Grates and Bearing Plates	Lb.	10830	
90120	Type 2 Mulch	Acre	65.4	
90121	Asphalt Emulsion	Gal.	13880	
90200	Sodding	Sq. Yd.	24774	
90800	Seeding	Acre	65.4	
99003	Field Laboratories	L. Sum	1	

CONTINGENT ITEMS

Furnishing Type 2 Rock Blanket	Cu. Yd.	631
Placing Type 2 Rock Blanket	Cu. Yd.	631
Special Guard Rail Posts	Each	2
Temporary Surfacing	Ton	113
Compacted Samples	Each	3
Placing State Owned Pipe (24")	Lin. Ft.	40
Deficient Pavement	L. Sum	$185.52

Project Accepted June 5, 1970 Prepared By R.A. Watkins Date June 5 19 70 Checked in Dist. Office By _____ Date _____ 19__ Checked in Central Office By W.J. Beck Date 7-10 19 70 Revised By _____ Date _____ 19__

S & P - 2AS

FINAL PLANS

LOCATION FROM RTE. 58, EASTERLY TO WARRENSBURG

TYPE C.E. CULVS, BRIDGES, 2-24' CONC. PVMTS SEP. BY MEDIAN ON PART & 1-24' CONC. PVMT ON PART (2nd STAGE OF 2-24' CONC. PVMTS)

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 2 of 2

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	F-50-2(7)		2A	
DIST. No.	COUNTY			ROUTE	SEC. No.
4	JOHNSON			50	

REMOVAL OF MISCELLANEOUS ITEMS

Removal of (97) Miscellaneous Items as per original plans with the addition and deletion of the following items.

Station	Location	Description	Add	Delete
949+50	Median	12" Temporary X-Over Drain		1
957+00±	"	24" R.C.P. Hdwl.	1	
962+	"	116' X-Over Pipe		1
977+50	WBL	X-Road Pipe		1
984+25	65' Lt.	F.E. Pipe		1
1023+25	Rt.	3'x100'± Concrete Walk	1	
1024+50	Rt.	Water Hydrant		1
1049+60	Lt.	12"x 50' CMP	1	
1060+70	Lt.	24"x 40' CMP	1	
1072+20±	Lt.	Concrete Well Cover		1
1072+21	Lt.	5'x155' Concrete Walk		1
1093+50	Rt.	12"x 38' CMP	1	
1108+50	Rt.	15"x 38' CMP	1	
1144+40	Rt.	Guard Rail, 25' and 125'		1
1179+73±	Rt.	" " " "		1
		TOTALS	6	9

97 (Plan) minus 3 = 94/97 of 1 Lump Sum

PAY 94/97

GUARD RAIL TYPE A

Station	to	Station	Location	Lin.Ft.	Term. Sect.	Bt.Anc. Sect.	Spec. Post	Remarks
965+63		966+38	140' Lt.	75.0				Across Old Pvmt.
1108+52		1110+15	Rt.	137.5	1		2	Across Culvert
1144+73		1145+98	Rt.	75.0	1	1		End of Br. # A-1042
1144+95		1146+20	Lt.	75.0	1	1		" " "
1179+72		1180+97	Lt.	75.0	1	1		" " A-1043
1179+72		1180+97	Rt.	75.0	1	1		" " "
		TOTALS		512.5	5	4	2	
		PAY		513	5	4	2	

PAVED DITCH

Station	to	Station	Location	S.Y.	Width	Depth	Remarks
989+15		989+58	Lt.	31.3	2' & 5'	1'	See Sheet #19
989+50		992+00	Rt.	259.9	2'	1'	" " "
1006+39		1006+56	Lt.	54.1	6'	1' & 1.5'	" " "
1008+30			Lt.	23.2	2'	1'	" " "
1046+52		1048+00	Rt.	428.7	10.5'	2'	" " "
1109+45		1109+65	Rt.	35.8	6'	1'	" " "
1163+70		1163+97	Rt.	25.2	4'	1'	" " "
		TOTALS		858.2			

8" REINF. CONCRETE PAVEMENT

Corrected Plan Quantity 8561.8 S.Y. Original plan quantities did not check. See Sheet #15

Authorized Addition 396.0 S.Y. See Sheet #15

TOTAL 8600.8 S.Y.

DEFICIENT PAVEMENT

Deduct $185.52 See Sheet #18

PLACING STATE FURNISHED PIPE

Sta.	Location	24"	Remarks
1060+25	P.E. Lt.	40'	Relaid Pipe
	TOTAL	40'	

TYPE 2 ROCK BLANKET

Station	Location	Furnish	Place	Remarks
1179+699	Spill Fill	631 C.Y.	631 C.Y.	See Sheet #13
TOTALS		631 C.Y.	631 C.Y.	

CONCRETE CURB (TYPE S)

Station	Location	Lin.Ft.	Remarks
1066+75	105' Lt.	240'	See Sheet #16
1066+75	74' Rt.	92'	" " #16
1153+60 ¢			
1155+95	164' Rt.	538'	" " #16
TOTALS		870' Lin.Ft.	

RIGID PAVEMET REMOVAL

TOTAL 1786.1 S.Y. See Sheet #17

12" TYPE 1 PROCESSING

Temp. By-pass & Temp Conn. 484.1 S.Y. See Sheet #14

9" TYPE 1 PROCESSING

Med. X-Overs & Comm. Ent. 2943.5 Y. See Sheet #14

6" TYPE 1 PROCESSING

C.E., P.E. & Parking Ramp 7696 S.Y. See Sheet #14

4" TYPE 3 PROCESSING

Plan Quantity 5.92 Miles

Authorized Addition 0.03 Miles See Sheet #15

TOTAL 5.95 Miles

LENGTH OF PROJECT

End of Project	Station	
Beginning of Project	Station	
Apparent Length		Feet
Equations and Exceptions:		
Total Corrections		Feet
Net Length of Project		Feet
State Length =		Miles
Federal Length =		Miles

ENTRANCES (GROUP II)

Station	Location	12"	15"	18"	24"	36"	48"	MGI	C/3	Remarks
957+75	C.E. Lt.	58'						0.4		
962+60±	S.R. Rt.									Crown Route 58
973+32	P.E. Lt.	28'						0.5		
988+00	P.E. Lt.			36'				4.2		
989+00	M.X-Over									Crown
1008+07	to									
1016+20	O.R. Lt.			42'				8.2	15	See Sheet #24 Pipe at Sta 1008+30
1011+50	O.R. Lt.			42'					13	See Sheet #24
1013+75	to									
1016+15	P.E. Rt.		28'					2.4		Pipe at Sta 1015+70
1016+00	O.R. Lt.			44'						
1016+20	S.R. Lt.		42'					1.0		
1016+30	P.E. Rt.							0.6		Crown
1023+60	P.E. Rt.	28'						0.4		
1028+50	P.E. Lt.		30'					0.5		
1043+40	M.X-Over									Crown
1043+40	to									
1047+40	O.R. Rt.						60'	4.5		
1045+100	F.E. Rt.	28'						0.3		Off Outer Road Rt.
1047+40	P.E. Rt.				40'			0.5	17	Off Outer Road Rt. See Sheet # 24
1055+90	F.E. Rt.				50'			1.2		
1060+95	P.E. Lt.				40'			0.6		
1066+75	C.E. Rt.									Crown
1066+75	C.E. Lt.									"
1071+50	C.E. Lt.		60'					0.6		
1081+25	to									
1077+73	O.R. Lt.							7.0		Crown
1083+60	S.R. Lt.			64'				0.7		
1093+70	to									
1097+50	O.R. Rt.							3.7		Crown
1097+20	M.X-Over									"
1097+20	S.R. Lt.				62'			1.1		
1097+20	P.E. Rt.				30'			0.7		
1106+20	P.E. Rt.					40'		0.9		
1113+20	P.E. Lt.		70'					3.5	59	See Sheet # 24 Pipe at Sta 1115+32.5
1113+20	M.X-Over									Crown
1124+00	to	26'								Off P.E. Lt. 1126+60
1126+50	P.E. Lt.	28'						2.6		" " " " "
1126+60	F.E. Lt.	28'						0.9		
1126+60	F.E. Rt.	28'						0.5		
1137+00	F.E. Lt.						40'	1.2		120' Lt.
1146+54	P.E. Rt.				44'			4.6		180' Rt.
1151+04	P.E. Lt.		38'					0.5		
1151+04	S.R. Rt.				40'			1.1		
1153+60	C.E. Rt.	38'						0.6		
1155+95	C.E. Rt.	38'						0.6		
1164+40	P.E. Lt.	28'						0.5		150' Lt. Off S.R.
1164+67	S.R. Lt.				60'			1.5		
1164+67	S.R. Rt.					52'		3.0		
1066+75	M.X-Over									Crown
TOTALS		356'	268'	228'	366'	92'	100'	61.1	104	

MOVABLE BARRICADES

Station	Location	No.	Remarks	
1112+00	Rte 58	1	See Order Record #	11
1148+25	Rte 58	1	" " "	"
1169+	WBL	2	" " "	9
1070+	WBL	1	" " "	11
6+	WBL	1	" " "	9
	TOTAL	6		

GENERAL SUMMARY

FINAL PLANS

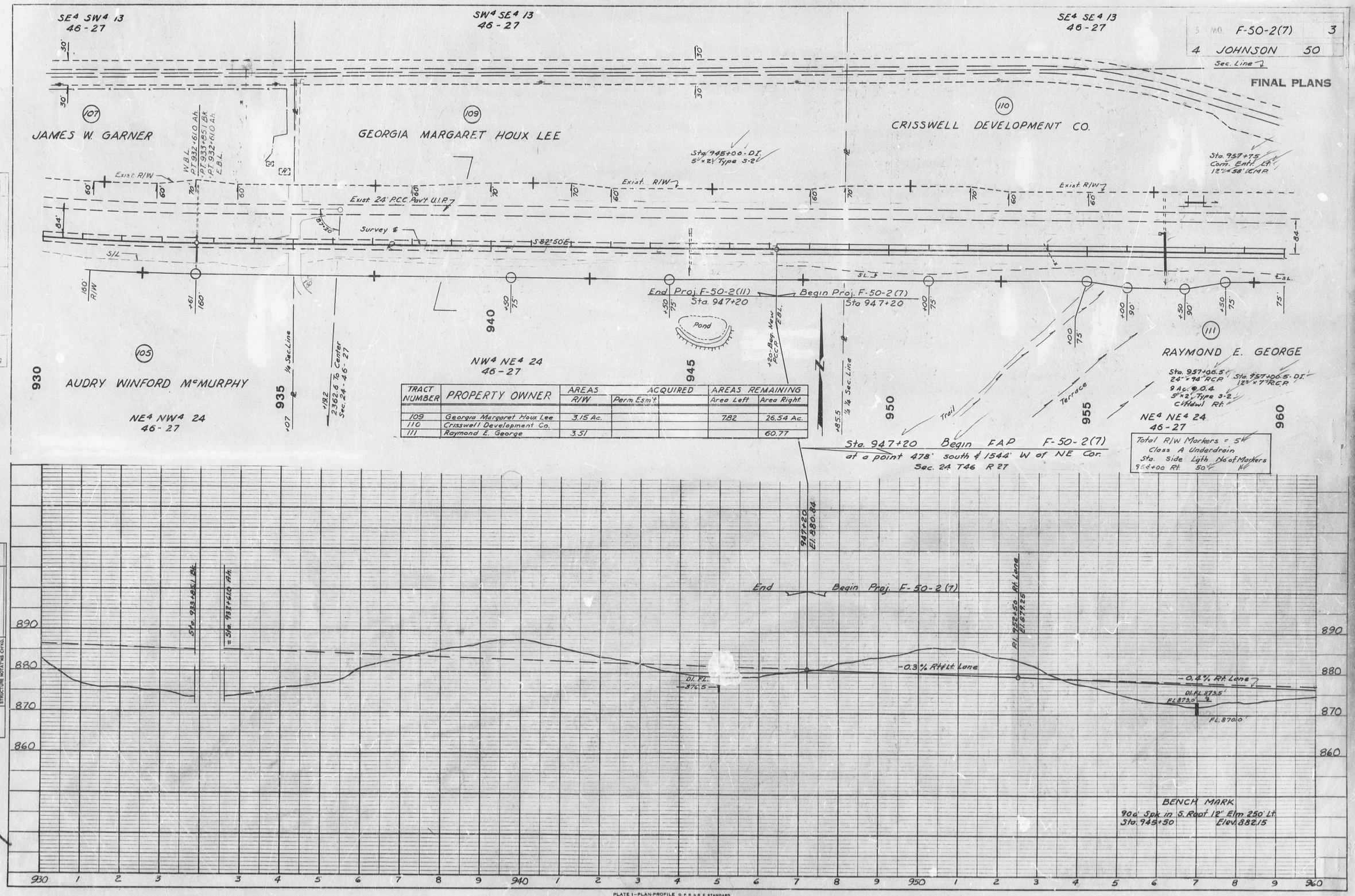
ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY
	BRIDGE AT STA. 1143+54.00 (A-1042)			
52005	Steel Piles In Place (10")	Lin.Ft.	843	
53023	Class B Concrete	Cu.Yd.	73.4	
53034	Class B1 Concrete	Cu.Yd.	157.1	
54000	Reinforcing Steel	Lb.	57430	
55011	Painting	Ton	40.3	
55101	Fabricated Structural Carbon Steel	Lb.	81600	
56001	Bridge Rail (Single Tube Type)	Lin.Ft.	258	
	BRIDGE AT STA. 1177+15.10 (A-1043)			
50014	Class 1 Excavation For Structures	Cu.Yd.	248.5	
50024	Class 2 Excavation For Structures	Cu.Yd.	72.0	
52005	Steel Piles In Place (10")	Lin.Ft.	1125	
53023	Class B Concrete	Cu.Yd.	147.3	
53034	Class B1 Concrete	Cu.Yd.	300.0	
54000	Reinforcing Steel	Lb.	114,390	
55011	Painting	Ton	109.1	
55201	Fabricated Structual Carbon Steel	Lb.	219,310	
56001	Bridge Rail (Single Tube Type)	Lin.Ft.	342	
	CONTINGENT ITEM			
	Boulder Excavation	Cu.Yd.	89.0	

Prepared By _____ Date _____ 19__

Checked in Dist. Office By _____ Date _____ 19__

Checked in Central Office By M.P. Stanton Date _____ 19__

Revised By _____ Date _____ 19__



TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm Esm't		AREAS REMAINING Area Left	Area Right
109	Georgia Margaret Houx Lee	3.15 Ac.			7.82	26.54 Ac.
110	Crisswell Development Co.					
111	Raymond E. George	3.51				60.77

PLATE 1—PLAN-PROFILE O.P.R.&R.E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET NO.
MO.	F-50-2(7)		4
COUNTY		ROUTE	SEC.
JOHNSON		50	

FINAL PLANS

SE4 SE4 13 46-27 — SW4 SW4 18 46-26 — SE4 SW4 18 46-26 — SW4 SE4 18 46-26

960 — 965 — 970 — 975 — 980 — 985 — 990

Sec. Line — 1/4 Sec. Line

(110) CRISSWELL DEVELOPMENT CO.

(111) RAYMOND E. GEORGE

(112) MARY ALICE REICHLE ET AL

The NE Cor. of Sec. 24 T46-R27 is 478 Ft. Left of Sta. 962+60.1 & E.B.L. @ 0°02' R/A.

(113) NORMAN WAGONER

(114) AUDRY McMURPHY

(115) RAY SWISHER

Pond

Sta. 989+00 P.E. Lt. 18"ø 86 CMP

Sta. 973+32 P.E. Lt. 12"ø 28 CMP

Sta. 962+60.1 Med. 1X-over Lt. 18"ø 122' RCP Schdul. Lt.

Existing R/W — Old Pvt. — R/W — 24' Conc. Pvt. - U.I.P. as W.B. Lane — Sec. Line — Var. F.B. Ditch-Med.

Survey ℄ E.B. Lane — S87°36'E — S87°30'E

962+60.1 Rte 50 = 1418+37.1 Rte 58

Sta. 962+60.1 S.R.-Rt. (Rte 58) No Pipe

Sta. 963+18.3 18"ø 76' RCP. 12"x9" RCP

Sta. 963+26 C.D.I.

3 Ac. @ 0.5-C-Hwl. Rt. 3"x2" Type S-2 D.I.

Sta. 973+60.1 P.C.

Sta. 973+00.1 P.T.

Sta. 982+26.7 Survey ℄

Total R/W Markers = 20
Class A Underdrains
Sta. Side Lgth No. Mark
984+50 Rt. 50' 1

Sta. 987+00 Med. 1X-Over Lt. No Pipe

Sta. 989+00 26"x 110' RCP Skew 40° L.A. 5'x 2'-2" Type S-2 C-Hdwl. Lt.

Pvd. Ditch — 8' F.B. Ditch — Pvd. Ditch

Type S2 DI

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm. Esm't		AREAS REMAINING Area Left	Area Right
112	Mary Alice Reichle et al	0.50 Ac.			81.55	
113	Norman Wagoner	8.08				227.44
114	Audrey McMurphy	3.65			73.96	

Curve Data.
P.I. 974+30.1
Δ-0°14' Rt.
D-0°10'
T-70.0'
L-140.0'
R-343775 Ch.
SE-0
Lt-0

1415

NE4 NE4 24 46-27 — NW4 NW4 19 46-26 — NE4 NW4 19 46-26 — NW4 NE4 19 46-26

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, NOTE BOOK, NO., DATE, BY, R/C OR MAY CHECKED

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, S. M.'S NOTED, STRUCTURE NO(TATION CHKD.), DATE, BY

VC 300 K 500

Rte 58 Sta. 962+60.1 = Sta. 1418+37.1 Rte 58

Rt. Long Pl. 1+50 875.25

Lt. Long Pl. 1+50 876.25

Fl. 872.0 — Fl. 871.0 — DI. R2 V3.0

-0.3% — +0.3% Lt. — L+0.3% Rt. — +0.1%

Pl. +23.25 El. 878.48

VC 300 K 600 SSD 843

Pl. 976+13.49 Lt. Long El. 879.10

Pl. +36.52 Rt. Long El. 878.41

VC 870 K 281 SSD 625

-3.0% Rt. Long — -8.0% Lt. Long

Fl. 884.0 — DI. Fl. 835.0

BENCH MARKS

a. NE. Cor. N. Hdwl. Culv. 118' Lt. Sta. 967+84 Elev. 875.61

100d Spk. S. Root 12" Cedar 136' Lt. Sta. 984+65 Elev. 867.56

880 870 860 850 840 830 820

960 1 2 3 4 5 6 7 8 9 970 1 2 3 4 5 6 7 8 9 980 1 2 3 4 5 6 7 8 9 990

PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD

U. S. BLUE PRINT PAPER CO.—CHICAGO

4

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	F-50-2(7)	5
COUNTY NO.	COUNTY	MILES	LOC.
4	JOHNSON	50	

ROUTE 58

FINAL PLANS

NE4NE4
24-46-27

SE4SE4
13-46-27

RAYMOND E. GEORGE (111)

CRISWELL DEVELOPMENT CO. (110)

NORMAN WAGONER (113)

MARY ALICE REICHLE ET AL (112)

NW4NW4
19-46-26

SW4SW4
18-46-26

1405 1410 1415 960 965

1/16 Sec. Line

Section Line

Range Line

R27W

R26W

℄ Rte. 58

℄ Co. Rd. 2

℄ Survey Rte. 50

Exist. R/W

40' R/W

N2°11'E

962+60.1 Rte. 50
= 1418+37.1 Rte. 58

1415+50
Beg. PCC Pavt

Total R/W Markers = 4

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	GRADES CHECKED		
NO.	R/W MARKERS CHECKED		
	RT. OF WAY CHECKED		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	GRADES CHECKED		
NO.	R/W MARKERS		
	STRUCTURE ROTATING CH'KD.		

880 870 860 850

1405 6 7 8 9 1410 1 2 3 4 1415 6 7 8 9

PLATE 1—PLAN-PROFILE C. P. R. & R. E. STANDARD

U. S. BLUE PRINT PAPER CO.—CHICAGO

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT No. & SEC.	TYPICAL YEAR	SHEET NO.
5	MO.	F-50-2(7)		6
FIRST NO. 4	COUNTY JOHNSON		ROUTE 50	SEC.

FINAL PLANS

T. REED
MAXSON

(118)

AUDRY McMURPHY (114)

JAMES O. COCHRAN (115)

RAY SWISHER (115)

HARLEY E. HYATT ET AL (116)

WILLIAM C. TUCKER (117)

SW¼ SE¼ 18-46-26

SE¼ SE¼ 18-46-26

SW¼ SW¼ 17-46-26

NW¼ NE¼ 19-46-26

NE¼ NE¼ 19-46-26

NW¼ NW¼ 20-46-26

Sec. Line

¼ ¼ Sec. Line

S87°36'E

Survey ℄

℄ 18 CR - 20 Aggr. Surf.

24' Resurf. Pvt.

Var. F.6 Median Dit.

Pipe Line

Panhandle Eastern

Sec. Line Dit.

Perm. Esm't Drain

Perm. Esm't. Drain.

Sec. Line

Sta. 998+50
18"x118" RCP.
5k 30° RA
5'x2" Type S-2
1-C-Hdwl. Rt.

Sta. 1003+00 R Lane
5k 30° R A
36"x194" RCP.
25 Ac. @ 0.6
2-C-Hdwls.

Sta. 1006+30 O R Lt
18"x42" CMP
6 Ac. 0.5

Sta. 1006+95.0 5k 19°R.A.
48"x192" RCP
78 Ac. @ 0.5
5'x2" Type S-1
2-C-Hdwls.

Sta. 1006+66-DI
18"x12" RCP.

Sta. 1008+30 O R Lt
18"x42" CMP
6 Ac. 0.5

Sta. 1011+50 O R Lt
18"x42" CMP
5 Ac @ 0.5

Sta. 1015+00 O R Lt
18"x42" CMP
5 Ac @ 0.5

Sta. 1015+76 P.E. Rt
15"x28" CMP
5 Ac. @ 0.4

Sta. 1016+20
S. Rd. Lt
15"x42" CMP

Sta. 1016+30
Med. X-Over Lt
18"x41' RCP
2-S. Hdwls

Sta. 1016+30
P.E. Rt
No Pipe

Sta. 1018+06.2
24"x113' RCP
5 Ac @ 0.6
¼ of Ty. S-C
Hdwl. Rt.

Sta. 1019+06-DI
12"x5' RCP

Proj. COST-50 (18)
Sta. 1019+08 W&L
24"x23' RCP. Extn.
C-Hdwl Lt.

Total R/W Markers = 20
Class A Underdrains

Sta.	Side	Lgth	No. of Markers
1006+30	Lt	53'	1
1006+95	Rt	53'	1
Total		100'	2

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm. Esm't.		AREAS REMAINING Area Left	Area Right
115	Ray Swisher	2.44			197.24	
116	Harley E. Hyatt et al.	8.87	0.21			229.30
115a	James O. Cochran	0.89	0.10		9.11	

PROFILE

Gr. Profile

-3.0% 6.8 L

-3.0% 1.82

Dl. FL. 806.0'

FL. 801.0'

FL. 795.5

Dl. FL. 794.2'

FL. 791.0'

Fl. 785.83 W&L
El. 791.13

Fl. 787.50 F&L
El. 790.88

V.C. 600
K 150

Dl. FL. 787.0'

FL. 785.0

FL. 782.0'

Lt. Lane

+1.0 %

Rt. Lane

Dl. FL. 798.0'
FL. 796.0'

Fl. 796.2'

BENCH MARKS

a on S. Hdwl. S.W. Cor. Pipe Culvt 45' Rt.
Sta. 1003+20 Elev 794.55

R.R. Spike in N. Root 16" Elm 90 Rt.
Sta. 1017+30 Elev 797.58

990 995 1000 1005 1010 1015 1020

840 830 820 810 800 790 780

PLATE 1—PLAN-PROFILE · O. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

5	MO. F-50-2(7)		7
4	JOHNSON	50	

EUGENE V. FRYHOFF (120)

FINAL PLANS

SW4 SW4 17-46-26

SE4 SW4 17-46-26

SW4 SE4 17-46-26

NW4 NW4 20-46-26

NE4 NW4 20-46-26

NW4 NE4 Sec. 7, Ty. 3-1 20-46-26

Sta. 1028+50 F.E. Lt. 15"⌀ 30' CMP.

Sta. 1028+50 Med. X-Over Lt. 18"⌀ 61' RCP 2-S. Hdwls.

Proj. C051-52 (10) Sta. 1030+95 P.E. Lt. WBL 15"⌀ 28' CMP.

Total R/W Markers = 15
Class A Underdrains

Sta.	Side	Lgth	No of Markers
1046+82	Rt.	50	1
1046+00	to		
1038+96	Lt.	996	1
1048+25	Lt.	50	1
Total		1096'	3

Proj. C051-50 (10) Sta. 1043+08 WBL 3'-2" x 11" RC. Box Extn. Std. 58.30

Sta. 1043+40 Med. X-Over Rt. No Pipe

105-10"⌀ 30' RCP Fl. 3'-2.8" Conc. Bar. U.I.P.

Sta. 1047+35.16 ~ Beg. PCC Pvt. WBL

Perm. Esm't Drain

6" U Drain

T. REED MAXSON (118a)

WILLIAM C. TUCKER (117)

T. REED MAXSON (118b)

Sec. Line

¼ ¼ Sec. Line

SL. 24" Resurf. Put U.I.P.

Survey Line

S87°36'E

S87°23'E

Terrace

82" Underground Missile Cable

Pontiac Eastern Pipeline

Cable

P&T Conc. Cylinder

8'F.B.D. Pvmt.

10' Pave

10'F.B.D. Pvmt.

32'F.B.D. Pvmt.

Sta. 1021+96 P.C.

Sta. 1023+96 P.T.

Sta. 1023+60 P.E. Rt. 12"⌀ 28' CMP.

Sta. 1043+40 D. R/W Rt. 48"⌀ 60' CMP.

Sta. 1043+04.5 30"⌀ 75' RCP 5-0.36 R.A. 20 Ac. @ 0.5 Sec. Ty. S-2 C. Hdwl. Sta. 1042+96 Dt. 1 12"⌀ 7' RCP

Sta. 1045+00 P.E. Rt. 18"⌀ F.O.R. 12"⌀ 28' CMP.

Sta. 1047+40 P.E. Rt. 24"⌀ 40' CMP.

Sta. 1046+32 Rt. Lane 6'W 5'H 19.5' R.C. Box 1/4 Sec. 23 Ac. @ 0.5 Sec. 36 Ty. 30 R.A.

Sta. 1046+46 Dt. 12"⌀ 10' RCP

CURVE DATA
P.I. 1022+44.6
Δ 0°13' Rt.
D 0°10'
T 65.0
L 130.0
R 34,377.5' Ch.
S.E. 0.00
Lt. 0.00

TRACT NUMBER	PROPERTY OWNER	AREAS R/W	ACQUIRED Perm. Esm't		AREAS REMAINING Area Left	Area Right
117	William C. Tucker	5.26 Ac.				194.71
118a	T. Reed Maxson	2.82			127.19	
118b	T. Reed Maxson	4.22				69.01

PLAN: SURVEYED, PLOTTED, DRAWN, CHECKED, QUANTITIES CHECKED, ALIGNMENT CHECKED, PT. OF BAT CHECKED, NOTE BOOK, NO.

PROFILE: SURVEYED, PLOTTED, DRAWN, CHECKED, QUANTITIES CHECKED, NOTE BOOK, NO., *TRUCTURE NOTATING CHKD.

DATE, BY

+1.0% Gr. Profile EBL

El. 820.57

FBL

WBL

V.C. 1000' K. 286 55D 633

-7.5%

Gr. Profile EBL

V.C. 600' K. 240

El. 782.00

El. 783.13

El. 782.00

2.0%

FBL

WBL

Pt. 783.7

Fl. 783.0

Dt. Fl. 782.4

Dt. Fl. Rt. 4.0

Pt. 783.0

Pt. 782.0

Pt. 749.0

BENCH MARKS
100d Spike in S. Root 24" Elm 144' Lt. Sta. 1039+05 Elev. 792.59
□ on SW. Cor. 3' Hdwl. Box Culv. 45° Rt. Sta. 1047+05 Elev. 755.22

800 790 780 770 760 750

1020 1 2 3 4 5 6 7 8 9 1030 1 2 3 4 5 6 7 8 9 1040 1 2 3 4 5 6 7 8 9 1050

PLATE 1—PLAN-PROFILE C. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm. Esm't.	Temp. Esm't.	AREAS REMAINING Area Left	Area Right
120	Eugene V. Fryhoff	2.44	0.11		47.76	
122	Skyhaven Inc. & Modern Tree Ser. Inc	0.90			10.38	
123	Ace Wrecking & Excavating	4.04				35.03
123a	Modern Tree Service Inc.	4.25			98.10	

5	MO.	F-50-2(7)	8
4	JOHNSON	50	

MODERN TREE SERVICE INC. FINAL PLANS

SW4 SE4 17-46-26 (120) EUGENE V. FRYHOFF

SE4 SE4 17-46-26

SW4 SW4 16-46-26 (123a)

CURVE DATA
P.I.-1070+76.5
Δ - 1°31' Lt.
D - 0°10'
T - 465.0'
L - 930.0'
R - 34,377.5 Ch.
SE 0.00
Lt 0.00

Sta. 1059+75 - Lt. 42¼ 68' RCP Pond Drain

Pond

Sta. 1060+95 P.E. Lt. 24¼ 40' CMP

¼ ¼ Sec. Line

SKYHAVEN INC.

Sta. 1066+75 Conn. Entr. Rt. No Pipe Type S Curb

Sta. 1066+75 Med. X-Over No Pipe

POT. 1066+41.5 Rt. Lane
AC. 1068+41.5 & Median
41.5 / 105

℄ SW-NE Runway El. 986.5

SKYHAVEN INC. & MODERN TREE SERVICE INC. (122) Motel

Comm. Pool Comm.

Sec. Line

Sta. 1071+50 Conn. Entr. Lt. 15¼ 60' CMP

℄ NW-SE Runway 18/36

Trail

Hangar

Sec. Line

160' R/W

24' Conc. Pavt

FBD

SL

CI-A-U drain Via FBD

S 87°23' E Survey ℄

10' FBD

110' R/W

120' R/W

130' R/W

Sta. 1055+99 F.E. Rt. 24¼ 50' CMP

Sta. 1055+60 - DI. 12¼ 8' R.C.P.

Sta. 1055+15 Rt Lane 48" x 194" R.C.P. 80 Ac. @ 0.5 Sk. / 30' L.A. 5'+2½' Type S-2 C-Nd. Lt. B-Hd. Rt.

(118b) NW4 NE4 20-46-26 T. REED MAXSON

(123) NE4 NE4 20-46-26 ACE WRECKING & EXCAVATING

Sta. 1066+75 Conn. Entr. Rt. No Pipe Type S Curb.

Sec. Line

Sta. 1074+77 22¼ 163' R.C.P. 5'+2' Type S-2 B-Hdw Rt. C-Hdw Lt. Sta. 1074+70 - DI. 12¼ 6' R.C.P.

(124) NW4 NW4 21-46-26 ROBERT A. BRAUNINGER

Total R/W Markers = 13

PLAN: SURVEYED / PLOTTED / CHECKED / CARD CHECKED / S. M. A. NOTED / STRUCTURE NOTATNS CHKD. — NOTE BOOK — SHEET NO. — RT. OF WAY CHECKED — DATE — BY

PROFILE: SURVEYED / PLOTTED / CHECKED / CARD CHECKED / S. M. A. NOTED / STRUCTURE NOTATNS CHKD. — NOTE BOOK — SHEET NO. — DATE — BY

V.C. 600
K. 266 Rt.
K. 250 Lt.

+2.25 % EBL

+2.80 % WBL

PI 1060+38 El. 760.00 EBL

PI 1060+38 El. 758.95 WBL

FL 766.6 DI. "C" 764.0

FL 752.0

V.C. 900
K. 277 Rt.
SSD 629
K. 265 Lt.

PI 1073+08 Rt & Lt. Lane El. 794.27

Rt & Lt Lane -1.0 %

FL 780.5

DI. FL 776.0

FL 770.0

BANCH MARKS

□ on S.W. Cor. Drop Inlet 40' Lt. Sta. 1055+50 Elev. 765.61

□ on S.W. Cor. Apron Swimming Pool 125' Lt. Sta. 1068+72 Elev. 787.51

1050 1 2 3 4 5 6 7 8 9 1060 1 2 3 4 5 6 7 8 9 1070 1 2 3 4 5 6 7 8 9 1080

790 780 770 760 750

PLATE 1—PLAN-PROFILE C. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

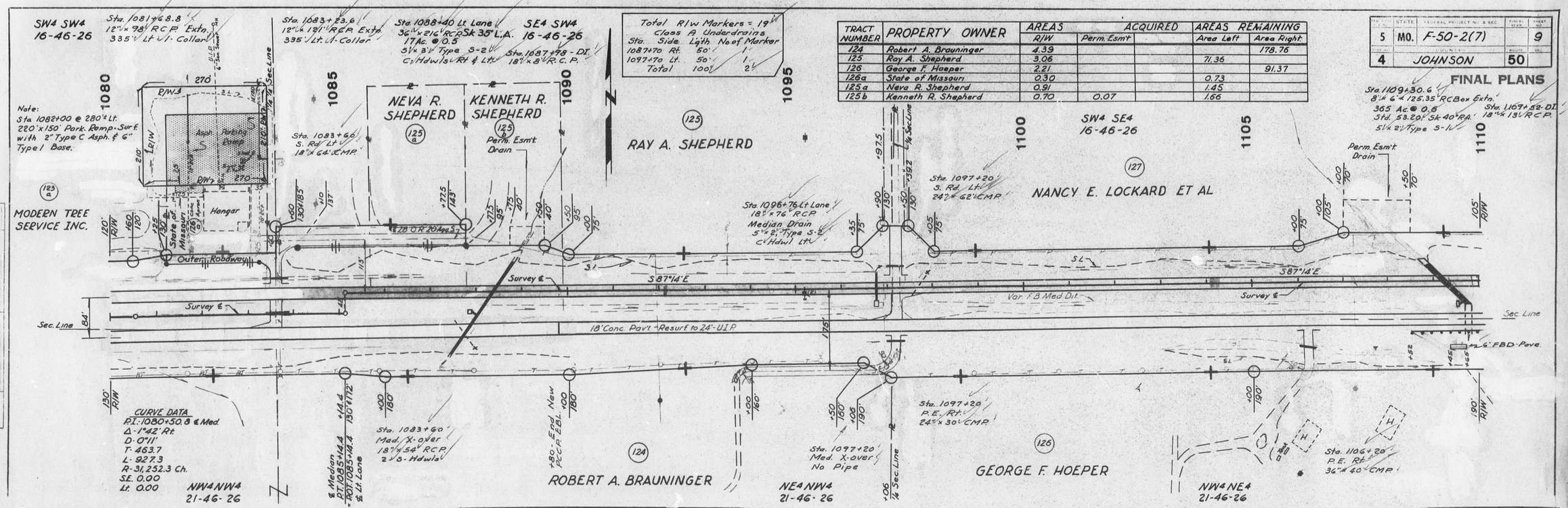
FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	F-50-2(7)		9
DIST. NO.		COUNTY	ROUTE	SEC.
4		JOHNSON	50	

FINAL PLANS

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm. Esm't		AREAS REMAINING Area Left	Area Right
124	Robert A. Brauninger	4.39				178.76
125	Ray A. Shepherd	3.06			71.36	
126	George F. Hoeper	2.21				91.37
126a	State of Missouri	0.30			0.73	
125a	Neva R. Shepherd	0.91			1.45	
125b	Kenneth R. Shepherd	0.70	0.07		1.66	

Total R/W Markers = 19
Class A Underdrains

Sta.	Side	Lgth	No of Marker
1087+70	Rt.	50'	1
1097+70	Lt.	50'	1
Total		100'	2



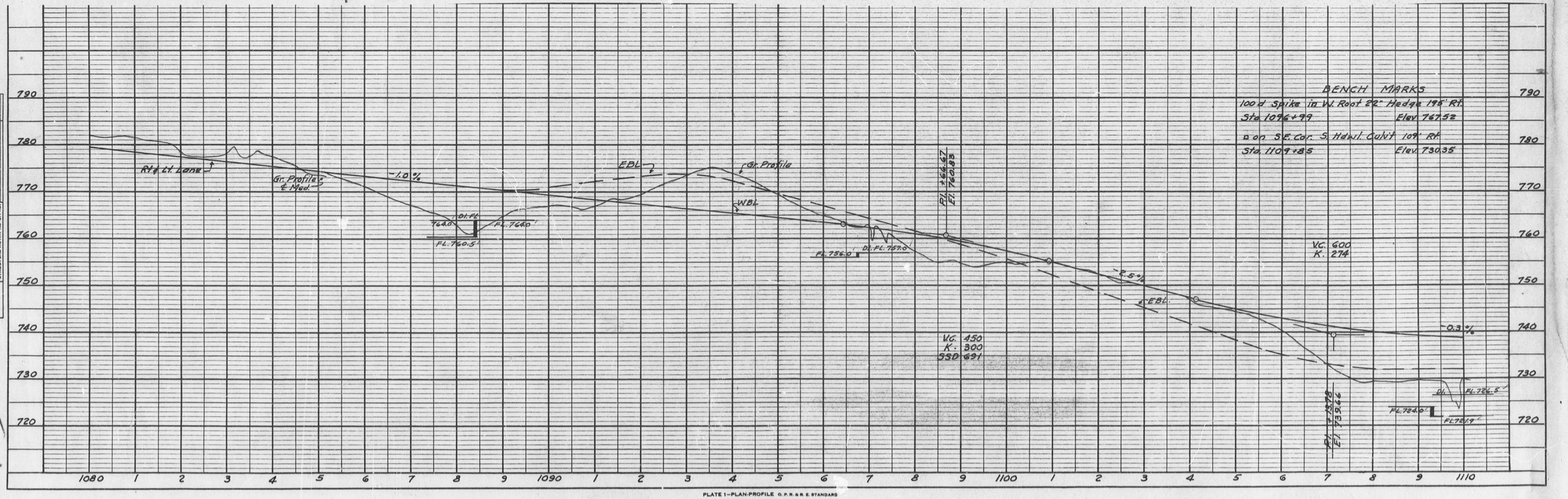
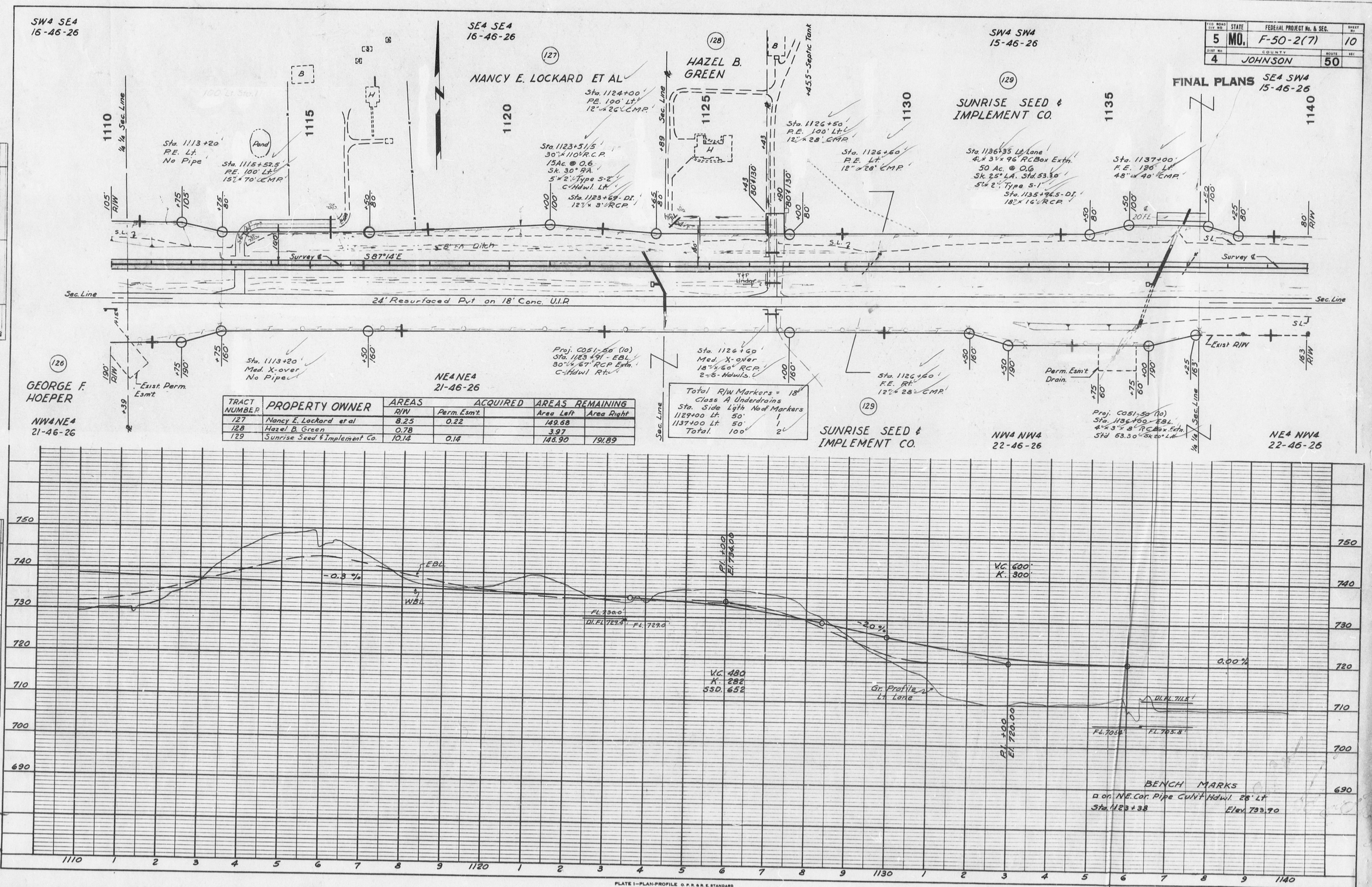


PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

13

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F-50-2(7)	10
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

FINAL PLANS



TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm. Esm't.		AREAS REMAINING Area Left	Area Right
127	Nancy E. Lockard et al	8.25	0.22		149.68	
128	Hazel B. Green	0.78			3.97	
129	Sunrise Seed & Implement Co.	10.14	0.14		146.90	191.89

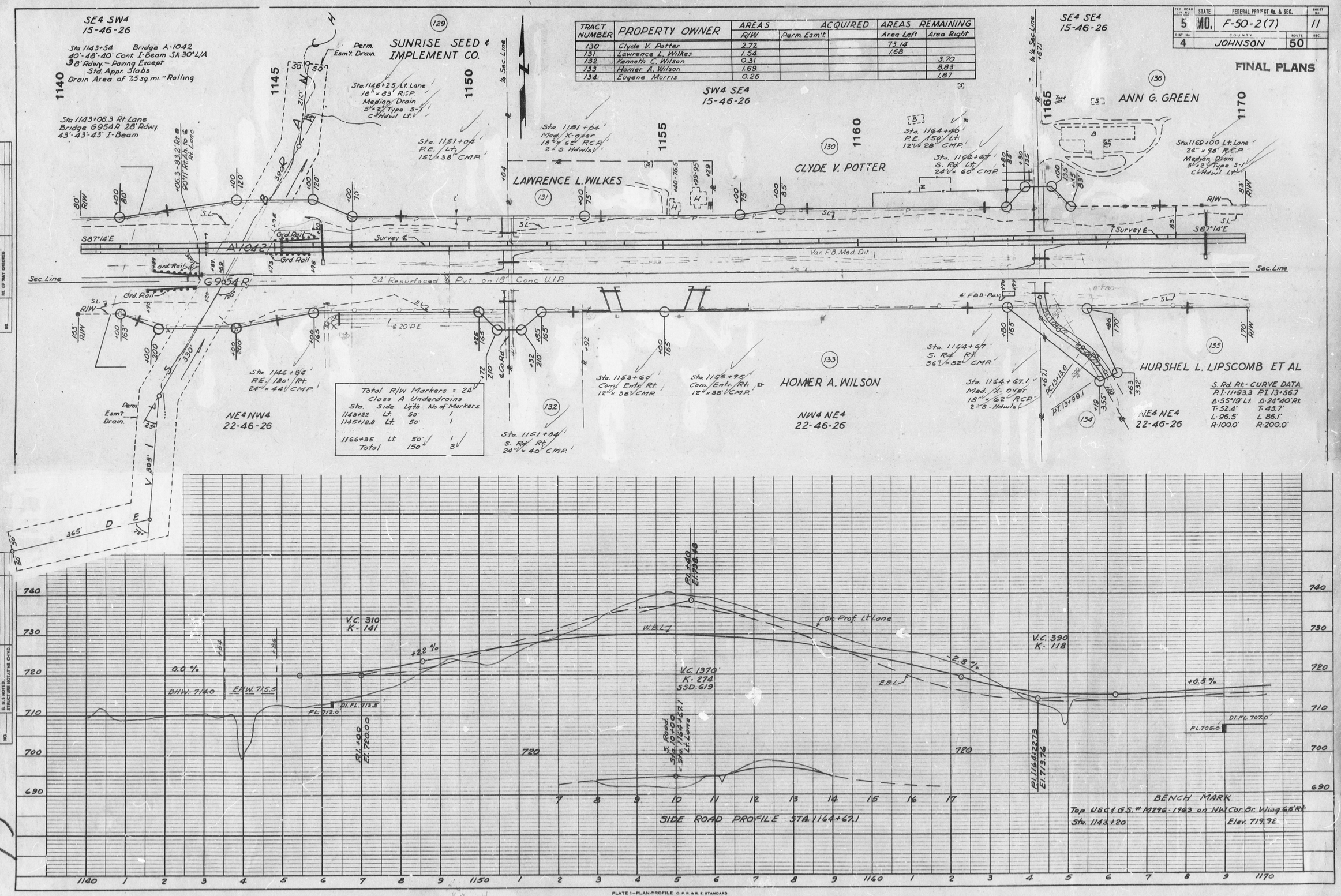
PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

14

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F-50-2(7)	11
DIST. NO.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

FINAL PLANS

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm. Esm't		AREAS REMAINING Area Left	Area Right
130	Clyde V. Potter	2.72			73.14	
131	Lawrence L. Wilkes	1.54			1.68	
132	Kenneth C. Wilson	0.31				3.70
133	Homer A. Wilson	1.69				8.83
134	Eugene Morris	0.26				1.87



Total R/W Markers = 24
Class A Underdrains

Sta.	Side	Lgth	No of Markers
1143+22	Lt.	50'	1
1145+18.8	Lt.	50'	1
1166+35	Lt.	50'	1
Total		150'	3

S. Rd. Rt. - CURVE DATA

P.I. 11+93.3	P.I. 13+56.7
Δ-55°19' Lt.	Δ-24°40' Rt.
T-52.4'	T-43.7'
L-96.5'	L-86.1'
R-100.0'	R-200.0'

PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

15

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F-50-2(7)	12
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

FINAL PLANS

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	AREAS ACQUIRED Perm. Esm't.	AREAS ACQUIRED	AREAS REMAINING Area Left	AREAS REMAINING Area Right
135	Hurshel L. Lipscomb et al	1.69				34.80
136	Ann G. Green	0.07			34.63	
137	Charles J. Prill				149.59	

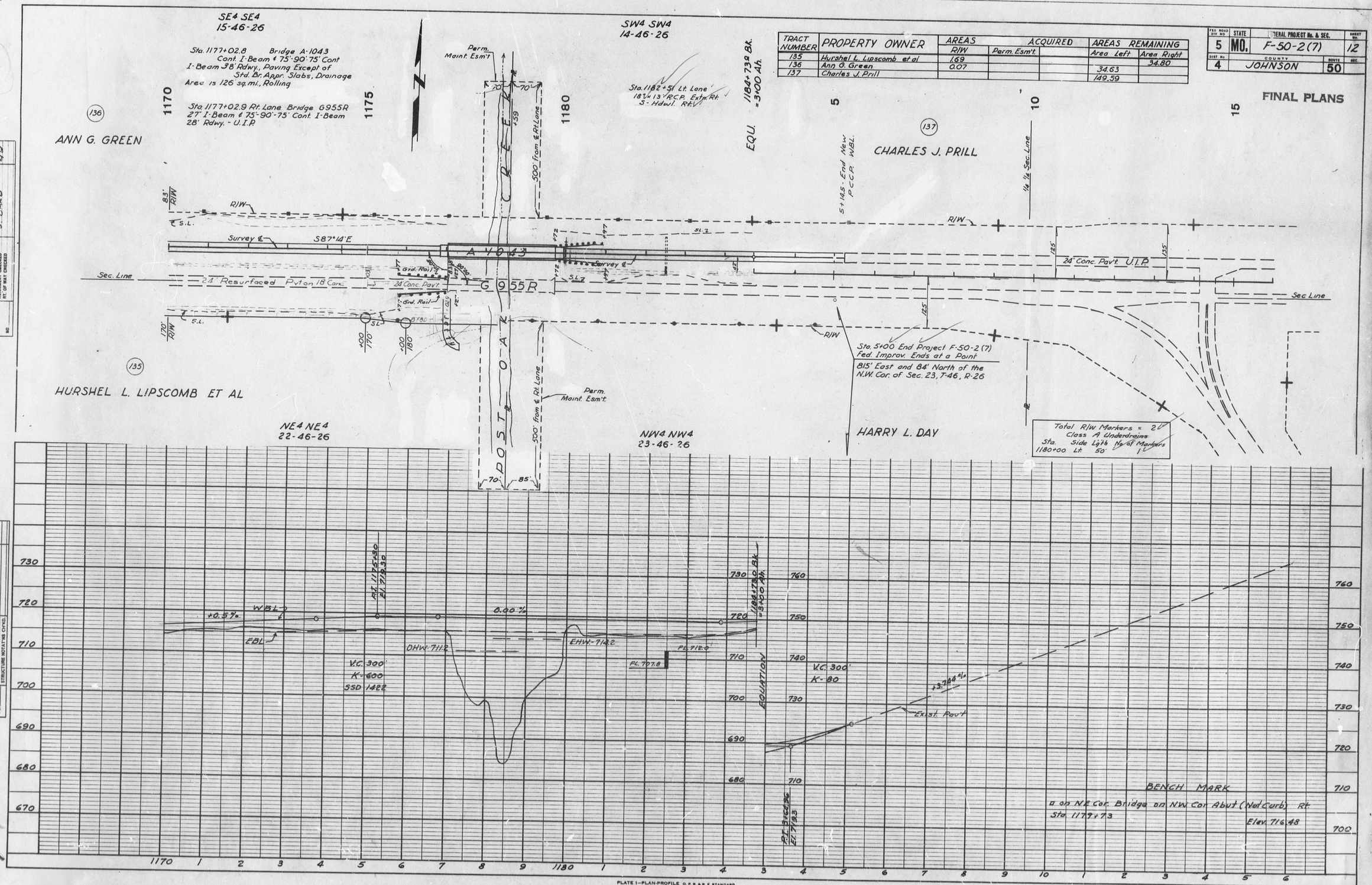
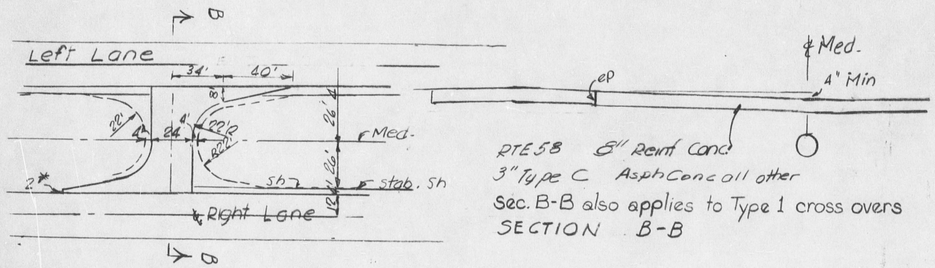


PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

16

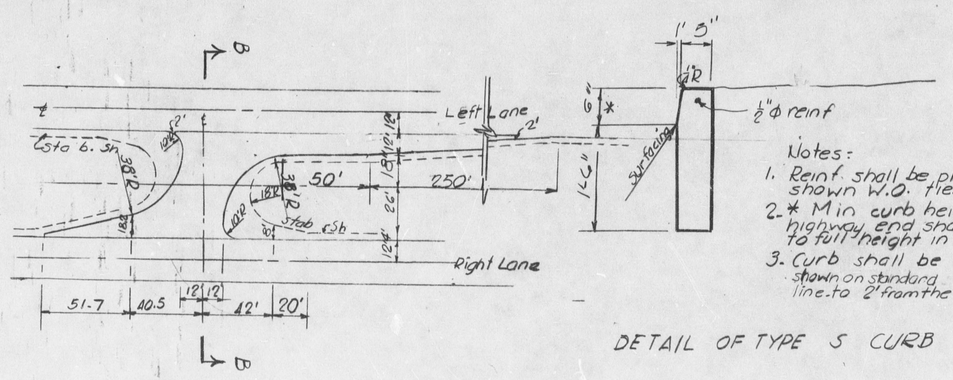
FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F-50-2(7)	14
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

FINAL PLANS



1. Surfacing shall be 8" Rein (Rte. 58), All others 3" Type C A.C.
2. *Typical when adjoining U.I.P. Pvt
3. Use 12" Type I Base with 3" A.C. Surf. for X-over for T. By Pass

TYPE 2 CROSS OVER

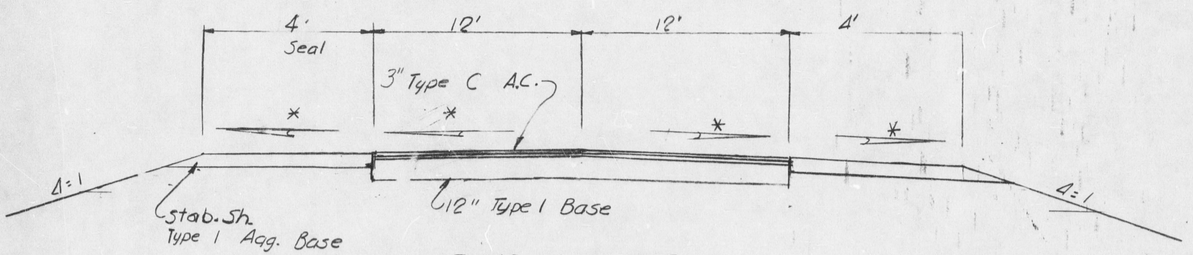


Notes:
1. Reinf. shall be placed in approx. position shown W.O. ties. (Incl in price bid for curb)
2. * Min curb height at beginning on highway end shall be 2". Curb shall Taper to full height in 5'
3. Curb shall be built on the surfacing line as shown on standard drawing 21.51 from the shoulder line to 2' from the right of way line as shown.

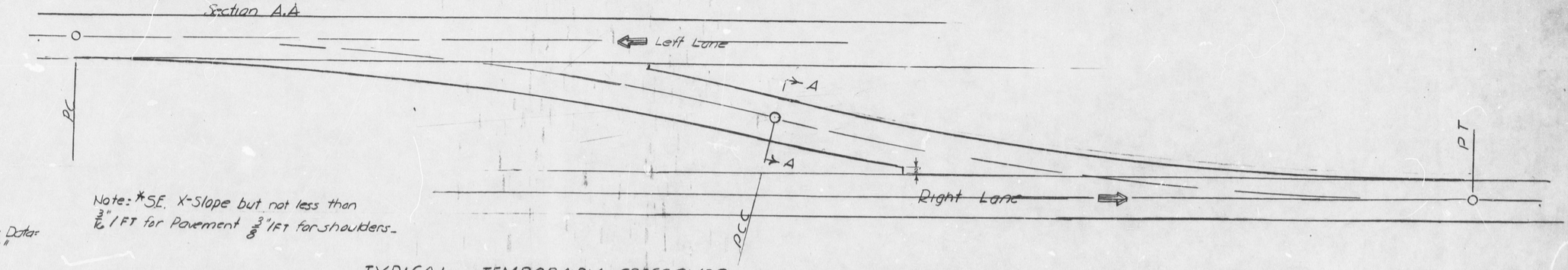
DETAIL OF TYPE S CURB

TYPE 6 CROSS OVER (RTE 58)

TYPICAL CROSSOVER DETAILS



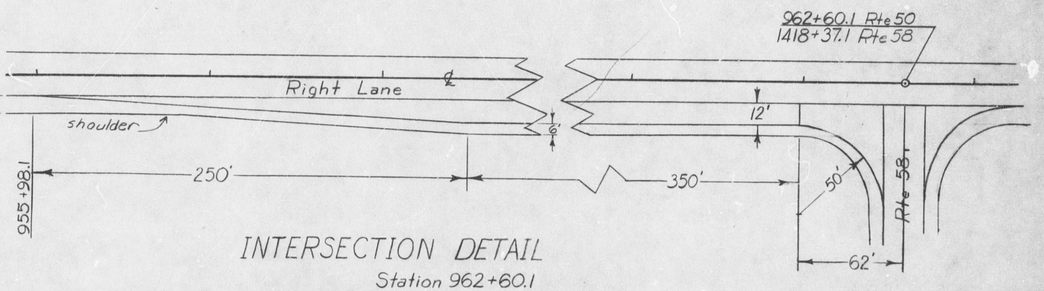
SECTION TEMP. CROSS OVER



Note: *S.E. X-Slope but not less than 5/16" / FT for Pavement 3/8" / FT for shoulders.

Cross-Over Curve Data:
Δ 18°-02'-15"
D 3°
T 201.39
L 401.25
R 1910.08
SE .03'/FT

TYPICAL TEMPORARY CROSSOVER
Typical Sta 950+00
Sta 1167+50



INTERSECTION DETAIL
Station 962+60.1

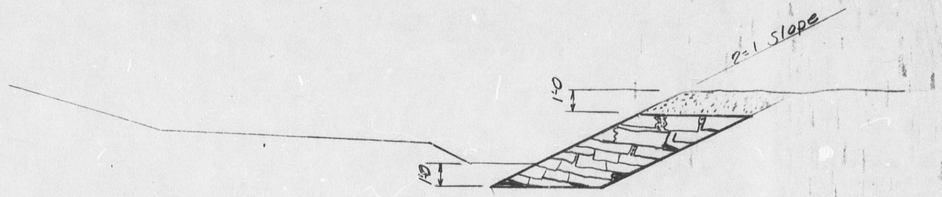
SPECIAL SHEET NO 1

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

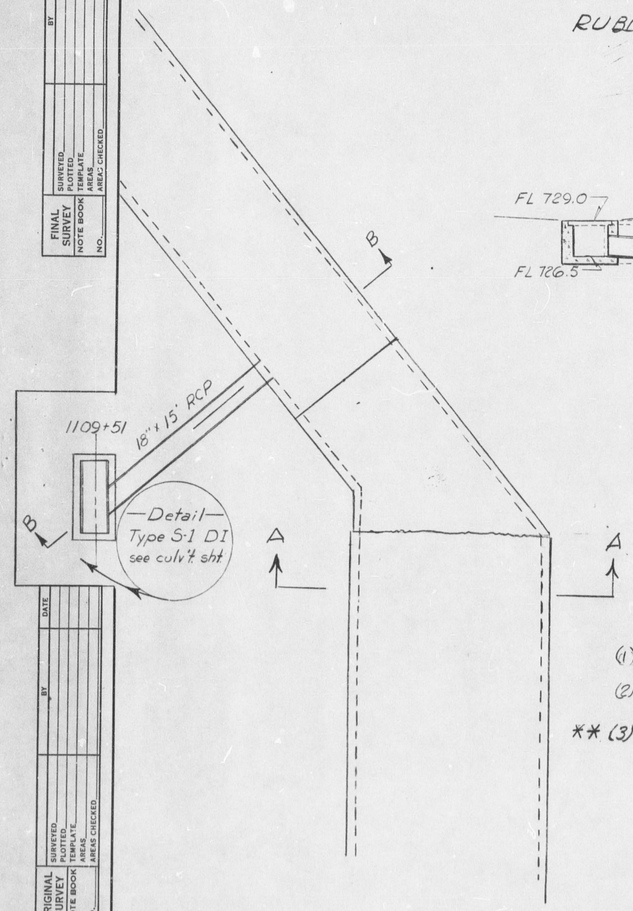
ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

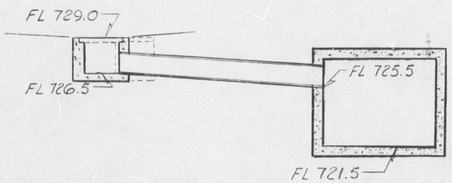
FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F-50-2 (7)	15
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

FINAL PLANS

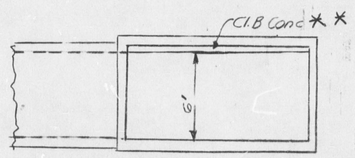


RUBBLE DEPOSIT DETAIL Right Sta. 1003+ ∉ 1051+





SECTION B-B



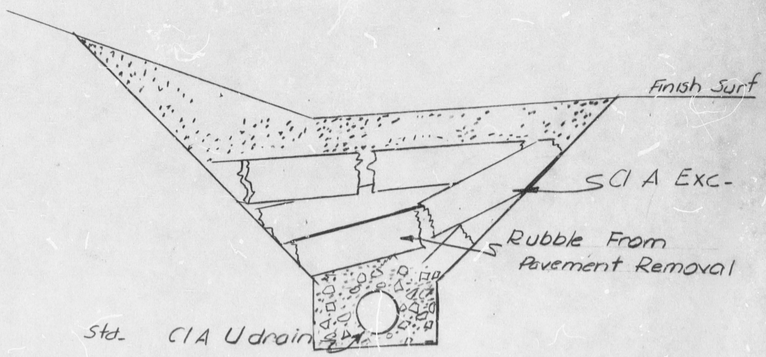
SECTION A-A

(1) Remove headwall from exist. 13' x 6.5' culv.

(2) Bend exist reinf. steel into walls of new culv. a min of 20 bar diameters

** (3) Build C1.B Conc wall 1' thick over 6' box to close.

DETAIL OF CULVERT EXTENSION STA 1109 + 30.6



PARALLEL UNDERDRAIN LEFT STA. 1046 - 1056

SPECIAL SHEET NO. 2

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

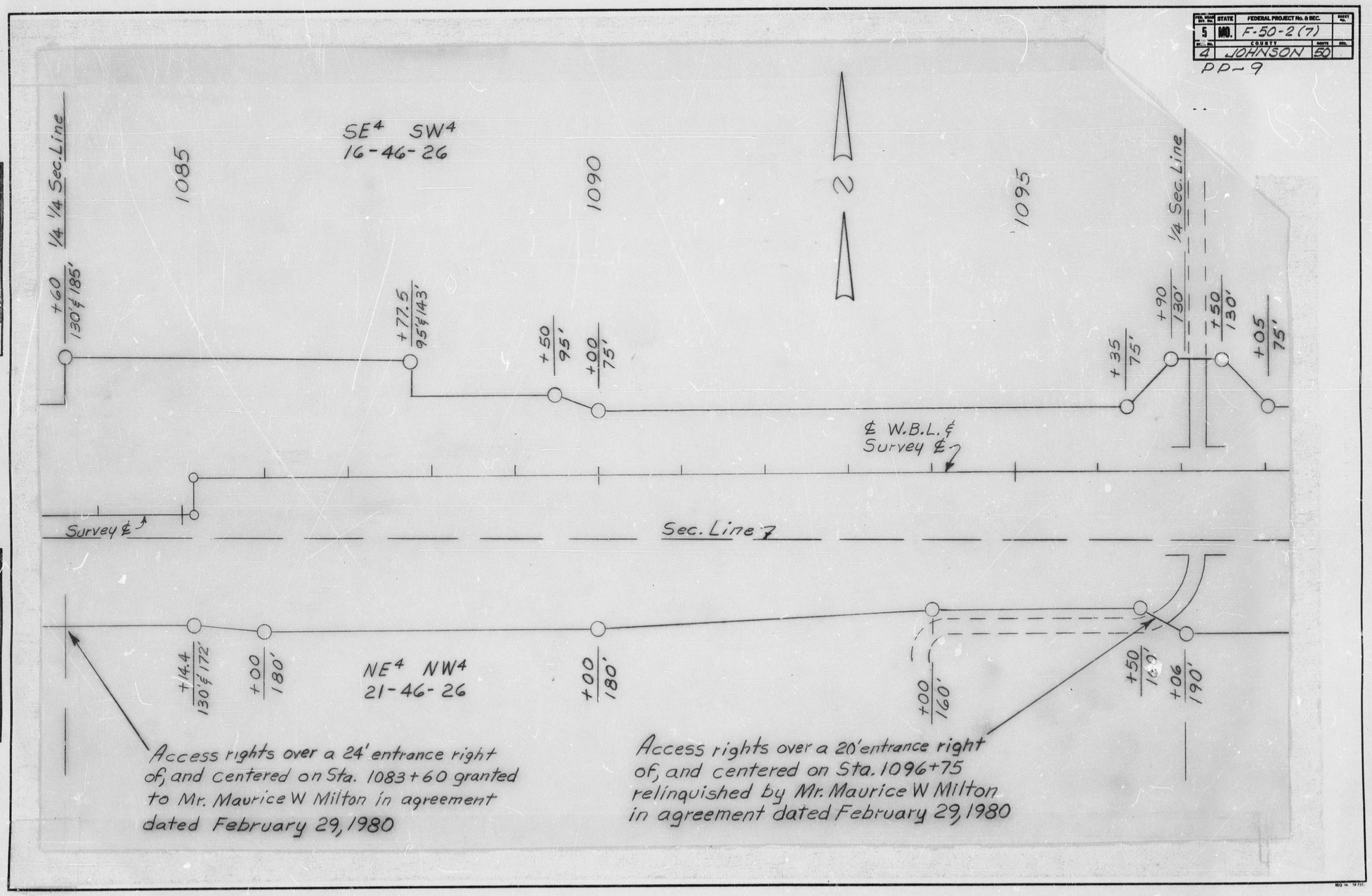
18

LIST OF STANDARD PLANS

PROJ.	SHEET
F-50-2(7)	16
CO. JOHNSON	RTE. 50

21.40		4-64	86.00	2 OF 5	12-67		
21.51		9-1-65	86.00	3 OF 5	12-67		
21.55		5-1-66	86.00	4 OF 5	12-67		
21.95	1 OF 3	11-67	86.00	5 OF 5	11-2-67		
21.95	2 OF 3	9-1-67	87.00		6-64		
21.95	3 OF 3	9-67	87.10		1-1-65		
21.96		12-1-67	87.20		11-1-67		
23.10		1-1-61	89.00		8-67		
43.10		6-1-67					
48.10		3-1-67					
48.12		2-1-65					
48.30		3-1-67					
53.20	1 OF 3	9-15-61					
53.20	2 OF 3	9-15-61					
53.20	3 OF 3	9-13-61					
53.24		10-6-61					
53.30		10-6-61					
53.35		1-2-63					
53.40		1-1-67					
53.41		1-1-67					
54.00		12-1-67					
61.00		6-1-64					
80.50		3-1-62					
82.00		1-1-64					
84.01		11-1-63					
84.03		6-1-61					
86.00	1 OF 5	12-67					

19



FED. ROAD DIV. NO. 5
STATE MO.
FEDERAL PROJECT No. & SEC. F-50-2(7)
COUNTY JOHNSON
ROUTE 50
SHEET NO.
PP-9
SE4 SW4
16-46-26
1085
1090
1095
1/4 1/4 Sec. Line
1/4 Sec. Line
+60 130' & 185'
+77.5 95' & 143'
+50 95'
+00 75'
+35 75'
+90 130'
+50 130'
+05 75'
℄ W.B.L. & Survey ℄
Survey ℄
Sec. Line
+14.4 130' & 172'
+00 180'
NE4 NW4
21-46-26
+00 180'
+00 160'
+50 160'
+06 190'
Access rights over a 24' entrance right of, and centered on Sta. 1083+60 granted to Mr. Maurice W Milton in agreement dated February 29, 1980
Access rights over a 20' entrance right of, and centered on Sta. 1096+75 relinquished by Mr. Maurice W Milton in agreement dated February 29, 1980
FINAL SURVEY
ORIGINAL SURVEY

426

DIST.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	F-50-2(7)	
DIST. DIV.	COUNTY		SHEET NO.
4	JOHNSON	50	

PD-4

SW¼ SW¼ 18
46-26

Transferred To G. E. Tickemyer and Hazel V. Tickemyer By Quitclaim Deed Dated Aug. 20, 1981

Range 27 W
Range 26 W

Sec. Line

℄ Co. Rd.

℄ Old 50 Hwy.

60' R/W

+20.1 215'

+00.1 215'

15' Wide

Easement (Missouri Public Service Co.)

Easement (Public Water Supply District No. 1)

20'

15'

+25 144'

Guard Rail

EQUA. Sta. 967+66.2 (Old 50 Hwy.) = 84' Lt. Sta. 970+71.6 (E.B.L. 50 Hwy.)

144'

℄ W.B.L.

Sec. Line

964+00 144' R/W

960

965

970

℄ Survey E.B.L. (U.S. 50 Hwy.)

℄ Rte. 58

Sta. 962+60.1 (E.B.L. 50 Hwy.) =
Sta. 1418+37.1 Rte. 58

NW¼ NW¼ 19
46-26

JOHNSON COUNTY
ROUTE 50
PROJ. F-50-2(7)
SHEET No. 4

15

990

12 TO 1

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

JOHNSON COUNTY

COUNTY
JOHNSON
STATE ROUTE NO.
50
PROJECT NO.
F-50-2(7)

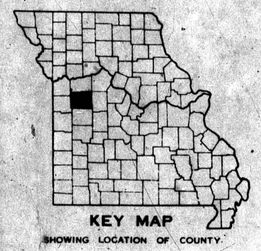
FINAL PLANS

INDEX OF SHEETS

TITLE SHEET	1
TYPICAL SECTIONS (3 Sheet)	2
SUMMARY (/ Sheet)	2-A
PLAN-PROFILE & B SHEETS	3-12
REFERENCE POINTS	13
SPECIAL SHEETS	14-15
LIGHTING	
SIGNALS	
SIGNING	
CULVERT SECTIONS	16-21
BRIDGE PLANS	22-40
STANDARDS	36 Sheets
CROSS SECTIONS	1-59

DESIGN DESIGNATION

A.D.T. (1967) = 1070
A.D.T. (1987) = 7960
D.H.V. (1967) = 870
D = 55%
T = 4%
V = 60 m.p.h.



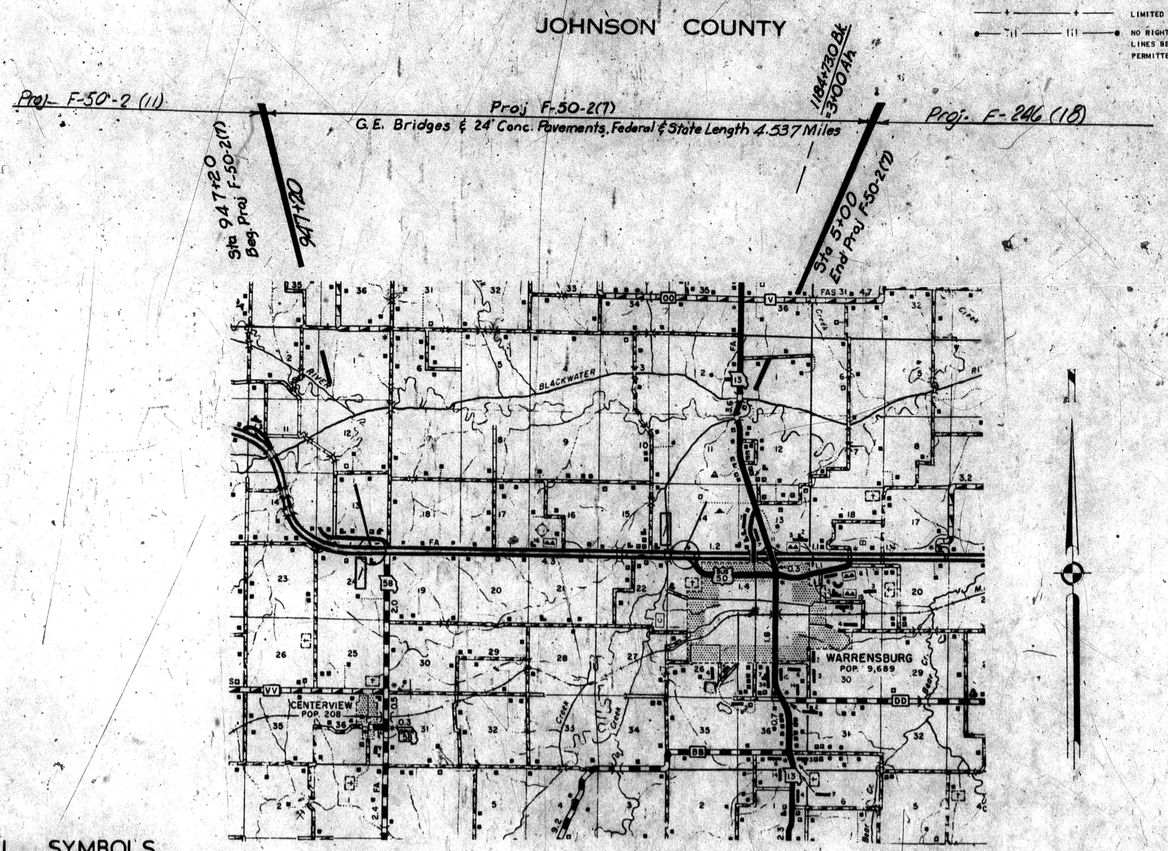
KEY MAP
SHOWING LOCATION OF COUNTY

LIMITED ACCESS HIGHWAY

This shall be a limited access highway between Station 935+07 and Station 5+00. Except at locations and as otherwise specifically shown on these plans, no abutter's rights in, or of direct access to, from, or across the highway or its right of way shall attach or belong to any property abutting on said section of highway, or to any person merely because of ownership of such abutting property. There shall be the usual right of access over any location either (1) shown on these plans as a property entrance (P.E.), field entrance (F.E.), or private underpass, or (2) where and when any such entrance, underpass, or an open public highway is being maintained by the governmental agency having authority therefor. Wherever an adjacent outer-roadway is so shown or maintained, there shall be the usual right of direct access between the abutting property and such outer-roadway to which access is not specifically prohibited by the special symbol denoting "No Right of Access" as shown on the plans, and along it to and from the nearest lane of the thruway or a public highway.

LEGEND

- BEGINNING AND ENDING OF LIMITED ACCESS
- LIMITED ACCESS
- NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.



CONVENTIONAL SYMBOLS

- STATE LINE
- COUNTY LINE
- CITY LIMITS
- TOWNSHIP OR RANGE LINE
- OTHER LAND SURVEY LINES
- FENCE LINE
- GUARD RAIL
- PROPERTY LINE
- RIGHT OF WAY LINE
- RIGHT OF WAY MARKER
- RAILROAD
- SURVEY CENTER-LINE
- CULVERT
- OVERHEAD TELEPHONE NEW
- OVERHEAD TELEPHONE EXIST.
- DITCH
- BLOCK
- EXISTING BUILDINGS & STRUCTURES
- GROUND LINE
- GRADE LINE
- OVERHEAD POWER-EXIST.
- OVERHEAD POWER-NEW
- UNDERGROUND GAS-NEW
- UNDERGROUND WATER-EXIST.

TITLE SHEET LEGEND

- INTERCHANGE
- GRADE SEPARATION
- CONSTRUCTION IDENTIFICATION SIGNS

SCALE OF TITLE SHEET
1 .5 0 5 MILES

STATE OF MISSOURI
M. J. SNIDER
NUMBER E-623
REGISTERED PROFESSIONAL ENGINEER

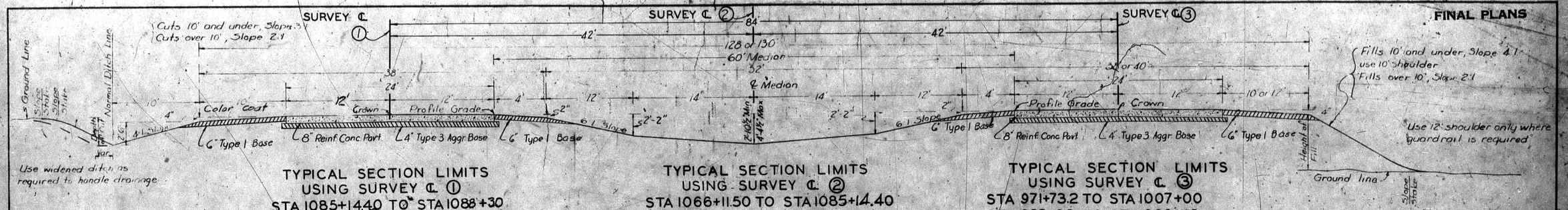
SUBMITTED BY DATE

CHIEF ENGINEER
MISSOURI STATE HIGHWAY COMMISSION
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

DIVISION ENGINEER DATE

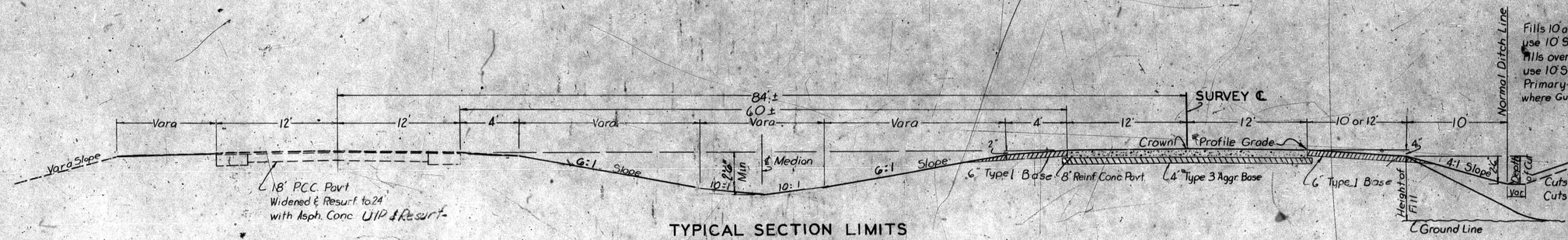
FINAL PLANS



TYPICAL SECTION LIMITS
USING SURVEY ℄ ①
STA 1085+14.40 TO STA 1088+30

TYPICAL SECTION LIMITS
USING SURVEY ℄ ②
STA 1066+11.50 TO STA 1085+14.40

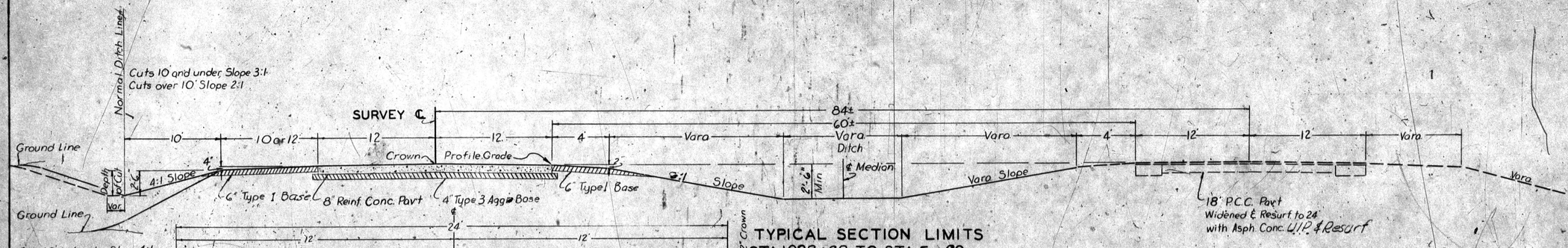
TYPICAL SECTION LIMITS
USING SURVEY ℄ ③
STA 971+73.2 TO STA 1007+00
STA 1053+00 TO STA 1066+11.5



18' P.C.C. Pavt
Widened & Resurf to 24'
with Asph. Conc. U/P & Resurf.

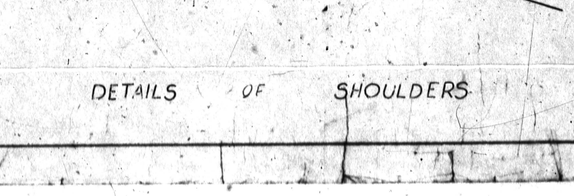
Note
From Sta 950+00 to Sta 971+73.2
exist left lane is 24' P.C.C. Pavt

TYPICAL SECTION LIMITS
STA 947+20 TO STA 971+73.2
STA 1007+00 TO STA 1053+00



DETAILS OF TYPICAL PAVEMENT SECTION

TYPICAL SECTION LIMITS
STA 1088+30 TO STA 5+00



DETAILS OF SHOULDERS

GENERAL NOTES:

At locations where exist pvt. is to be used in place and resurfaced and shouldered see proj. C0 57-50 (10)

For details of superelevation and widening of horizontal curves, undergrading, rounding, all pavement appurtenances, drainage items, etc. see other drawings.

In transitioning from an cut or fill to another use a 25' transition beginning at a point 25' back along that which would normally be the flatter slope and ending the transition at the actual point where the steeper slope is required. If the actual limits required a steeper slope is less than 25' in length, do not change to the steeper slope.

All information shown on these typical sections is for the purpose of indicating general design and construction details and cost of roadway widths, slopes and depths and type of ditches, undergraded cuts and other features shall conform to the details shown on plan and profile and cross-section sheets, or as directed by the Engineer.

For standard crown see following drawing.

MISSOURI STATE HIGHWAY COMMISSION

PRIMARY SYSTEM

TYPICAL SECTIONS

FOR

2-24 FT. PAVEMENTS

ON

128-130 FT. ROADBEDS WITH 60 FT. MEDIAN

ROUTE 50 PROJ. OR SEC. F-50-2(7) COUNTY JOHNSON

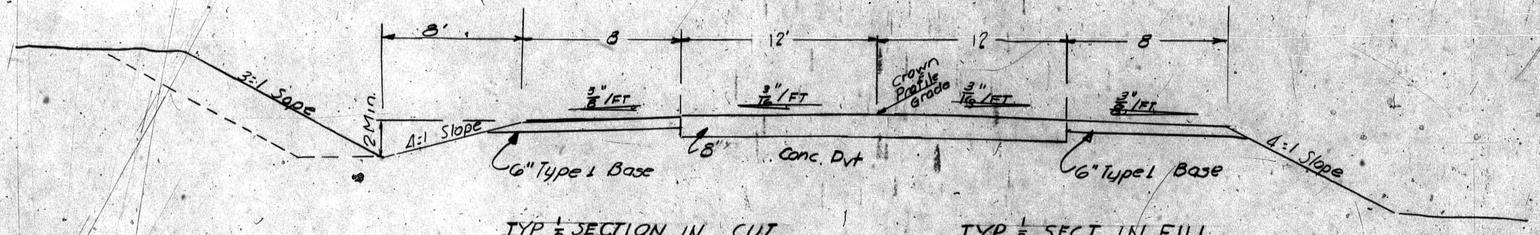
APPROVED J. C. Lewis
ENGR. SURVEYS & PLANS

APPROVED [illegible]
CHIEF ENGINEER

Temp Conn

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F 50-2 (7)	2
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

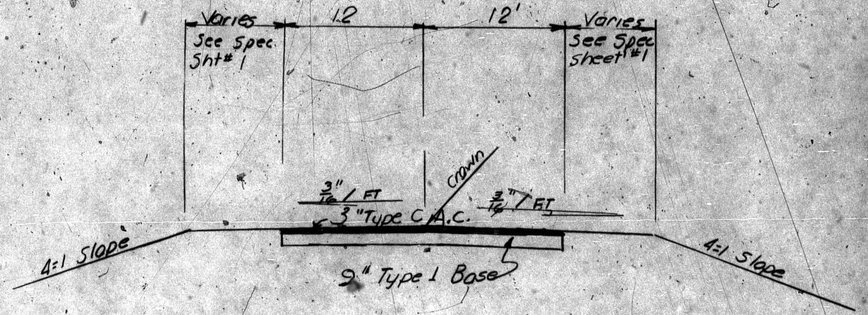
FINAL PLANS



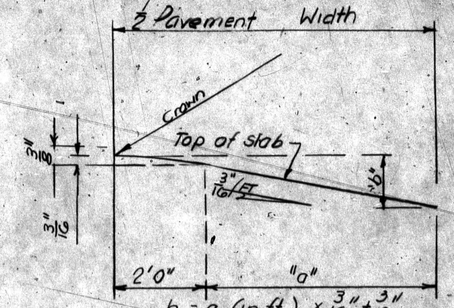
TYP 1/2 SECTION IN CUT

TYP 1/2 SECT IN FILL

TYPICAL SECTION ROUTE 58



PERM. MEDIAN CROSS-OVER



$b = a\ (\text{in ft}) \times \frac{3}{16}'' + \frac{3}{16}''$

STANDARD CROWN

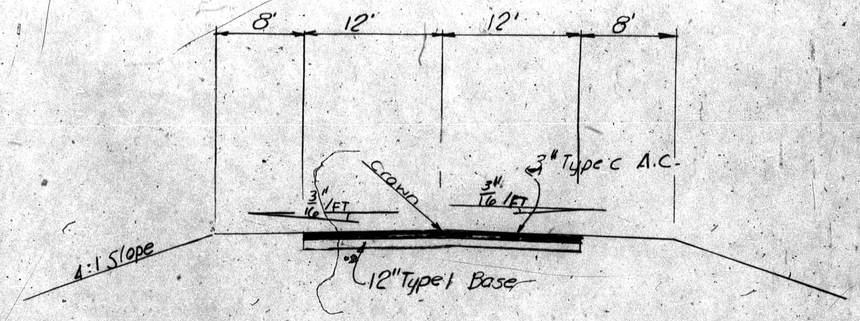
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

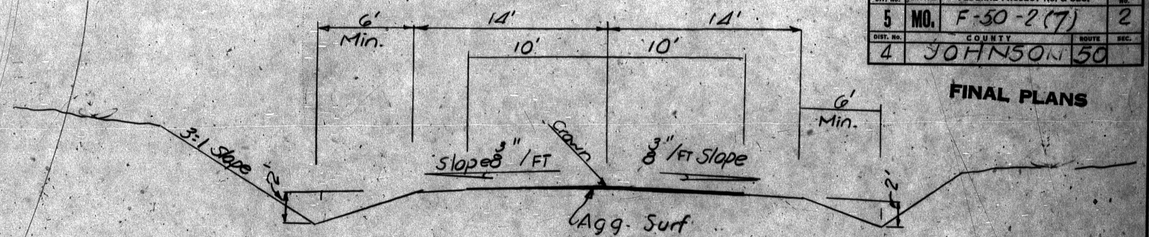
3

FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F-50-2(7)	2
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

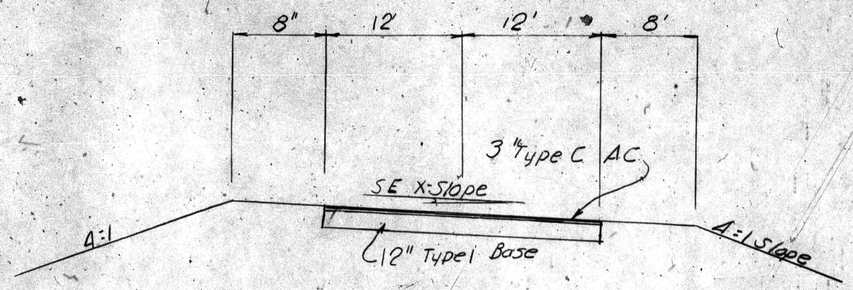
FINAL PLANS



ON TANGENT



TYPICAL SECTION ON TANGENT

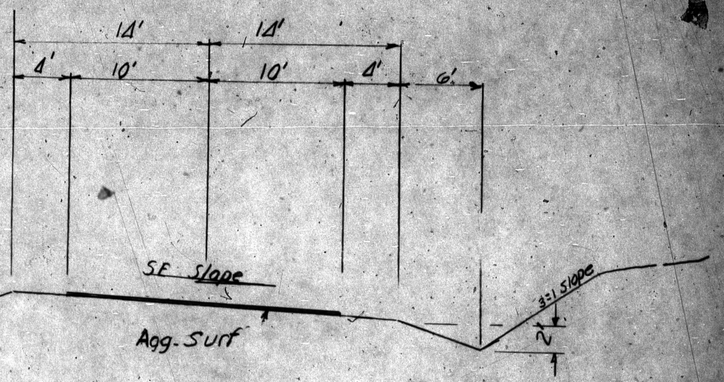


CURVE

TYPICAL SECTION TEMP CONNECTION @ 1072 ±

TEMP BY PASS Rte 58 TERMINAL

(For Handling Traffic during construction)



Typ ½ Section in fill Typ ½ Section in cut

TYPICAL SECTION ON CURVE

TYPICAL SECTION SIDE ROADS & OUTER ROADWAYS

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREA		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED	KW	87
NOTE BOOK	TEMPLATE		
NO.	AREA		
	AREAS CHECKED		

S & P - 2AS

FINAL PLANS

LOCATION FROM RTE. 58, EASTERLY TO WARRENSBURG

TYPE G.E. CULVERTS, BRIDGES 2-24' CONC. PVMT'S. SEP. BY MEDIAN ON PART & 1-24' CONC. PVMT. ON PART (2ND STAGE OF 2-24' CONC. PVMTS)

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 1 of 2

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	F-50-2(7)		2A	
DIST. No.	COUNTY		ROUTE	SEC. No.	
4	JOHNSON		50		

EXCAVATION

Station	Location	Class A	Class C	C.Comp.	Fill Comp.	MG.1	Overhaul	Remarks
947+20	EBL							
1072+00	"	114,068	2950	17,782	84,556		1,095,541	See Sheet # 27
971+73	WBL							
972+92	"	314		152	187			See Sheet #27
986+12	"	28,352	1771	1318	24,466			" " "
998+32	"	14,018	1744	1246	13,316			" " "
1005+83	"	5,389		954	4,915			" " "
1009+00	"	3,191		353	1,199			" " "
1034+00	"							
1057+46	"	13,006		1,028	9827		5,001	See Sheet #27
1063+05	"	4,070		676	3,197			" " "
1072+00	"	2,912		1,797	1,717			" " "
1081+60	"	4,096		889	2,764			See Sheet #28
1072+00	EBL							
1083+41	"	11,818		1,567	9148			See Sheet #28
1088+21	"	1,878		537	1336			" " "
1090+00	"	352		171	287			" " "
1081+60	WBL							
1142+23	"	81,479		10,060	59,998		267,883	See Sheet #28
1155+57	"	14,433		1,315	11,300			" " "
5+00	"	30,608		2,437	19,796		39,564	" " "
Sub-Totals		329,990	6465	42,314	247,999		1,407,995	
Rounding		3630						
Entrances						61.1		
TOTALS		333,620	6465	42,314	247,999	61.1	1,407,995	

LENGTH OF PROJECT

End of Project	Station	5+00	
Beginning of Project	Station	947+20	
Apparent Length		-94,220	Feet
Equations and Exceptions: Sta. 1184+73.08 Ah. = 3+00.0 Ah.			
Total Corrections		+118,173	Feet
Net Length of Project		23,953	Feet
State Length =		4.537	Miles
Federal Length =		4.537	Miles

BOX CULVERTS

Station	Location	Std.	Size	Skew	Length	Cl.B	Reinf.	Cl.3	Fill	W/W Slope	Remarks
1026+82	℄	53.20	6'x6'	30°RA	135.5	1161	12,080	484	4±6	2:1	See Sheet #23
1109+30	℄	53.20	8'x6'	40°RA	125.35	1168	12,690	430	10	2:1	See Sheet #25
1136+35	℄	53.30	4'x3'	25°LA	96'	33.8	4,220	174	11	2:1	
				TOTALS		266.7	28990	1088			

CROSS ROAD PIPE CULVERTS (Class III R.C.P.)

Station	12"	18"	24"	30"	36"	42"	48"	Type	Cl.B	Reinf.	Cl.3	Grates & Bar Plates	Pipe Collars	Remarks
957+00			94'					C-Hdwl.Rt	1.3'	120'	15'			
957+00	7'													
960+60		119'						S-Hdwl.Lt	2.2	90		330		Lay 124' Auth 119'
963+46		76'						C-Hdwl.Rt	0.8	60	1.5			
963+26	9'													
983+00			110'					C-Hdwl.Lt	1.8	180	103			Skew 40° L/A
998+50		117'						C-Hdwl.Rt	1.1	80	50			Skew 30° R/A
1003+00					194			2-C-Hdwls.	5.9	480	234			" "
1006+65		12'												
1006+95							190'	2-C-Hdwls.	8.8	620	299			Skew 19° R/A Lay 186' See Sheet #23 Auth 170'
1016+30		61'						2-S-Hdwls.	4.4	180		660		
1019+06			113'					C-Hdwl.Rt	1.3	120	46			
1019+16	5'													
1028+50		61'						2-S-Hdwls.	4.4	180		660		
1042+96	7'													
1043+04				95'				C-Hdwl.Rt	1.8	150	57			Skew 0°20°R/A
1046+45	10'													
1055+15							194'	C-Hdwl.Lt & S-Hdwl.Rt	8.8	610	44			Skew 30° L/A
1055+50	8'													
1059+75						68'					85			Pond Drain See Sheet #24
1074+70	6'													
1074+77			163'					S-Hdwl.Rt & C-Hdwl.Lt	2.3	220	73			
1081+68	38'												1	Collar 335' Lt.
1083+23	121'												1	" " "
1083+60		53'						2-S-Hdwls.	4.4	180		660		Lay 54' Auth 53'
1087+98		8'												
1088+40					216'			2-C-Hdwls.	6.4	510	177			Skew 35° L/A
1096+76		76'						C-Hdwl.Lt	0.8	60	70			
1109+52		13'												
1123+51				110'				C-Hdwl.Lt	2.3	200	90		1	Skew 30° R/A Collar Removed on Cost-Sheet
1123+69	3'													
1126+60		60'						2-S-Hdwls.	4.4	180		660		
1135+96		16'												
1146+25		83'						C-Hdwl.Lt	0.8	60	8			
1151+04		62'						2-S-Hdwls.	4.4	180		660		
1164+67		62'						2-S-Hdwls.	4.4	180		660		
1169+00			98					C-Hdwl.Lt	1.3	120	126			
1182+51		13'						S-Hdwl.Rt	2.2	90	4	330		
TOTALS	27	892	578	205	410	68	384		76.3	4850	1496	4620	3	

MISCELLANEOUS ITEMS

Sheet No.	Clearing	Grubbing	Cl.A U.D.	R/W Mark.	Dr. Mark.	Mow & Brush	Seeding	Sodding	Remarks
3	6	4	50	5	1	116,440	116,440		
4	35	33	50	20	1	322,200	322,200	32,512	See Sheet #20
5	0	0	0	4	0	62,300	62,300		
6	96	87	100	20	2	445,781	445,781	45,153	See Sheet #20
7	80	44	1096	15	3	280,601	280,601	33,855	" " "
8	64	46	0	13	0	429,197	429,197	30,891	" " " #21
9	50	39	100	19	2	384,310	384,310	17,526	" " "
10	53	51	100	18	2	361,376	361,376	15,940	" " "
11	66	47	150	24	3	319,407	319,407	16,248	" " "
12	78	63	50	2	1	126,430	126,430	30,844	" " #22
TOTALS	528	414	1696	140	15	2848042	2848042	222,969	
PAY	6.1 Ac.	4.8 Ac.	1696	140	15	65.4 Ac.	65.4 Ac.	24,771 SY.	

DROP INLETS

Station	Location	Type	Size	"D"	Cl.B	Reinf.	Cl.3	Grates & Bearing Pls.	Openings	Remarks
945+00	Med.	S-2	5'x2'	2'-0"	1.7	80	4	330	1-18"	See Sheet #23
957+00	"	"	5'x2'	1'-6"	1.5	80	2	330	1-12"	
963+26	"	"	5'x2'	1'-6"	1.5	80	4	330	1-12"	
989+00	"	"	5'x2'	2'-6"	1.9	100	8	330	1-24"	
998+50	"	"	5'x2'	2'-6"	2.0	100	1	330	1-18"	
1006+65	"	S-1	5'x2'	2'-6"	1.9	100	9	330	1-18"	
1019+16	"	S-2	5'x2'	1'-6"	1.5	80	6	330	1-12"	
1042+96	"	"	5'x2'	1'-6"	1.5	80	3	330	1-12"	
1046+45	"	S-1	5'x2'	2'-6"	1.9	100	6	330	1-12"	
1055+50	"	S-2	5'x2'	2'-0"	1.8	80	2	330	1-12"	
1074+70	"	"	5'x2'	2'-0"	1.8	80	7	330	1-12"	
1087+98	"	"	5'x3'	2'-6"	2.3	120	6	600	1-18"	
1096+76	"	"	5'x2'	2'-6"	2.0	100	7	330	1-18"	
1109+52	"	S-1	5'x2'	2'-6"	1.9	100	9	330	1-18"	
1123+69	"	S-2	5'x2'	1'-6"	1.5	80	4	330	1-12"	
1135+96	"	S-1	5'x2'	3'-6"	2.3	120	12	330	1-18"	
1146+25	"	"	5'x2'	3'-0"	2.1	100	7	330	1-18"	
1169+00	"	"	5'x2'	3'-0"	2.0	100	14	330	1-24"	
			TOTALS		33.1	1680	103	6210	

APPROACH SLAB FOR BRIDGES

Station	to	Station	S.Y.	Remarks
1143+23		1143+54	130.8	West End Br. A-1042
1144+86		1145+16	130.8	East End Br. A-1042
1176+95		1177+15	84.4	West End Br. A-1043
1179+73		1179+93	84.4	East End Br. A-1043
		TOTALS	430.4	

CULVERTS (CMP)

Station	Location	15"	Cl.3	Remarks
1145+62	℄	68'	20	Route 58 Temp. By-Pass See Sheet # 23
1148+75	℄	60'		Route 58 Temp. X-Over
TOTALS		128'	20	

GENERAL SUMMARY

FINAL PLANS

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY
20008	Clearing	Acre	6.1	
20108	Grubbing	Acre	4.8	
21004	Class A Excavation	Cu.Yd.	333,620	
21024	Class C Excavation	Cu.Yd.	6465	
21204	Compacting Embankment	Cu.Yd.	247,999	
21214	Compacting in Cuts	Cu.Yd.	42,314	
21309	Overhaul (Station)	Sta.Yd.	1,407,995	
21507	Water	100 Gal	0	
21801A	Machine Grading Class I	Sta.	61.1	
24200	Removal of (37) Miscellaneous Items	L.Sum	94	
24203	Removal of Rigid Pavement	Sq.Yd.	17861	
31015	Type 1 Aggregate for Base	Ton	28,762	
31035	Type 3 Aggregate for Base	Ton	22,968	
31162	Processing Type 1 Aggregate (6")	Mile	5.85	
31163	Processing Type 1 Aggregate (6")	Sq.Yd.	7696	
31193	Processing Type 1 Aggregate (9")	Sq.Yd.	2943	
31103	Processing Type 1 Aggregate (12")	Sq.Yd.	4841	
31342	Processing Type 3 Aggregate (4")	Mile	5.95	
31343	Processing Type 3 Aggregate (4")	Sq.Yd.	0	
35045	Crushed Stone (B)	Ton	1109	
35402	Salvaged Surfacing	Cu.Yd.	691	
37007	Primer (MC-0)	Gal.	22,750	
43035	Type C Asphaltic Concrete	Ton	1919	
44317	Bituminous Material (MC-5)	Gal.	0	
44035	Cover Aggregate (Grade 6)	Ton	0	
48283	Concrete Pavement (8" Reinf.)	Sq.Yd.	8600.7	
48303	Approach Slab for Bridges	Sq.Yd.	430.4	
50034	Class 3 Excavation for Structures	Cu.Yd.	2813	
53021	Class B Concrete (Culverts)	Cu.Yd.	266.7	
53022	Class B Concrete (Miscellaneous)	Cu.Yd.	109.4	
54000	Reinforcing Steel	Lb.	35,520	
60115	15" Corrugated Metal Pipe Culvert	Lin.Ft.	128	
60118	18" Corrugated Metal Pipe Culvert	Lin.Ft.	0	
61312	12" Class III R.C.P. Culvert	Lin.Ft.	274	
61318	18" Class III R.C.P. Culvert	Lin.Ft.	892	
61324	24" Class III R.C.P. Culvert	Lin.Ft.	578	
61330	30" Class III R.C.P. Culvert	Lin.Ft.	205	
61336	36" Class III R.C.P. Culvert	Lin.Ft.	410	
61342	42" Class III R.C.P. Culvert	Lin.Ft.	68	
61348	48" Class III R.C.P. Culvert	Lin.Ft.	384	
67012	12" Pipe Culvert (Group II)	Lin.Ft.	356	
67015	15" Pipe Culvert (Group II)	Lin.Ft.	268	
67018	18" Pipe Culvert (Group II)	Lin.Ft.	228	
67024	24" Pipe Culvert (Group II)	Lin.Ft.	366	
67036	36" Pipe Culvert (Group II)	Lin.Ft.	92	
67048	48" Pipe Culvert (Group II)	Lin.Ft.	100	
80500	Pipe Collar	Each	3	
82000	Class A Underdrains	Lin.Ft.	1696	
84000	Concrete Curb (Type S)	Lin.Ft.	870	
84400	Paved Ditch	Sq.Yd.	858.2	
86006	Guard Rail, Type A (Steel) (6'-3" Spacing)	Lin.Ft.	513	
86010	Terminal Section	Each	5	
86017	Bridge Anchor Section	Each	6	
87020	Movable Barricades	Each	6	
87100	Construction Signs	L.Sum	1	
88000	Right-of-Way Markers	Each	140	
88020	Drain Markers	Each	16	
89000	Grates and Bearing Plates	Lb.	10830	
90120	Type 2 Mulch	Acre	65.4	
90121	Asphalt Emulsion	Gal.	13880	
90200	Sodding	Sq.Yd.	24,774	
90400	Seeding	Acre	65.4	
99003	Field Laboratories	L.Sum	1	

CONTINGENT ITEMS

Furnishing Type 2 Rock Blanket	Cu.Yd.	631
Placing Type 2 Rock Blanket	Cu.Yd.	631
Special Guard Rail Posts	Each	2
Temporary Surfacing	Ton	113
Compacted Samples	Each	3
Placing State Owned Pipe (24")	Lin.Ft.	40
Deficient Pavement	L.Sum	$185.52

Project Accepted June 5, 1970 Prepared By R.A. Watkins Date June 5 1970 Checked in Dist. Office By ____ Date ____ 19__ Checked in Central Office By [illegible] Date 7-10 1970 Revised By ____ Date ____ 19__

S & P - 2AS

FINAL PLANS

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 2 of 2

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	F-502(7)		2A	
DIST. No.	COUNTY			ROUTE	SEC. No.
4	JOHNSON			50	

LOCATION FROM RTE. 58, EASTERLY TO WARRENSBURG

TYPE G.F. CULVS, BRIDGES, 2-24' CONC. PVMTS SEP. BY MEDIAN ON PART & 1-24' CONC. PVMT ON PART (2ND STAGE OF 2-24' CONC. PVMTS)

REMOVAL OF MISCELLANEOUS ITEMS

Removal of (97) Miscellaneous Items as per original plans with the addition and deletion of the following items.

Station	Location	Description	Add	Delete
949+50	Median	12" Temporary X-Over Drain		1
957+00±	"	24" RCP Hdwl.	1	
962+	"	116' X-Over Pipe		1
977+50	WBL	X-Road Pipe	1	
984+25	65' Lt.	F.E. Pipe	1	
1023+25	Rt.	3'X100'± Concrete Walk	1	
1024+50	Rt.	Water Hydrant		1
1049+60	Lt.	12" x 50' CMP	1	
1060+70	Lt.	24" x 40' CMP	1	
1072+20±	Lt.	Concrete Well Cover		1
1072+21	Lt.	5'X153' Concrete Walk		1
1093+50	Rt.	12" x 38' CMP	1	
1108+50	Rt.	15" x 38' CMP	1	
1144+40	Rt.	Guard Rail 25' end 125'		1
1179+72±	Rt.	" " " "		1
		TOTALS	6	9

97 (Plan) minus 3 = 94/97 of 1 Lump Sum

PAY 94/97

GUARD RAIL TYPE A

Station	to	Station	Location	Lin.Ft.	Term. Sect	Br.Anc. Sect	Spec. Post	Remarks
965+63		966+38	140' Lt.	75.0				Across 06 Pvmts
1108+52		1110+15	Rt.	137.5	1		2	Across Culvert
1141+73		1135+98	Rt.	75.0	1	1		End of Br. # A-1042
1142+95		1146+20	Lt.	75.0	1	1		" " "
1179+72±		1180+97	Lt.	75.0	1	1		" " A-1043
1179+72		1180+97	Rt.	75.0	1	1		" " "
		TOTALS		512.5	5	4	2	
		PAY		513	5	4	2	

PAVED DITCH

Station	to	Station	Location	S.Y.	Width	Depth	Remarks
989+15		989+53	Lt.	31.3	2'-6"	1'	See Sheet #19
989+50		992+00	Rt.	253.9	2'	1'	" " "
1006+39		1006+56	Lt.	34.1	6'	1'-1.5'	" " "
1008+30			Lt.	23.2	2'	1'	" " "
1046+52		1048+00	Rt.	428.7	10.5'	2'	" " "
1109+45		1109+65	Rt.	35.8	6'	1'	" " "
1163+70		1163+97	Rt.	25.2	4'	1'	" " "
		TOTALS		858.2			

8" REINF. CONCRETE PAVEMENT

Corrected Plan Quantity 85611.85 S.Y. Original plan quantities did not check. See Sheet #15

Authorized Addition 396.0 S.Y. See Sheet #15

TOTAL 86007.85 S.Y.

DEFICIENT PAVEMENT

Deduct 4185.52 See Sheet #18

PLACING STATE FURNISHED PIPE

Sta.	Location	24"	Remarks
1060+25	PE Lt.	40'	Relaid Pipe
	TOTAL	40'	

TYPE 2 ROCK BLANKET

Station	Location	Furnish	Place	Remarks
1179+699	Spill Fill	631 C.Y.	631 C.Y.	See Sheet #13
TOTALS		631 C.Y.	631 C.Y.	

CONCRETE CURB (TYPE S)

Station	Location	Lin.Ft.	Remarks
1066+75	105' Lt.	240'	See Sheet #16
1064+75	74' Rt.	92'	" " #16
1153+60 & 1156+95	164' Rt.	538'	" " #16
TOTALS		870' Lin.Ft.	

RIGID PAVEMET REMOVAL

TOTAL 1786 S.Y. See Sheet #17

12" TYPE 1 PROCESSING

Temp. By-pass & Temp Conn. 484 S.Y. See Sheet #14

9" TYPE 1 PROCESSING

Med. X-Overs & Comm. Ent. 2943 S.Y. See Sheet #14

6" TYPE 1 PROCESSING

C.E., P.E. & Parking Pamp 7696 S.Y. See Sheet #14

4" TYPE 3 PROCESSING

Plan Quantity 5.92 Miles

Authorized Addition 0.03 Miles See Sheet #15

TOTAL 5.95 Miles

LENGTH OF PROJECT

End of Project	Station	
Beginning of Project	Station	
Apparent Length		Feet
Equations and Exceptions:		
Total Corrections		Feet
Net Length of Project		Feet
State Length =		Miles
Federal Length =		Miles

ENTRANCES (GROUP II)

Station	Location	12"	15"	18"	24"	36"	48"	MGI	C/3	Remarks
957+75	C.E. Lt.	58'					0.4			
962+60±	S.R.R.A.									Crown Route 58
973+32	P.E. Lt.	28'					0.5			
989+00	P.E. Lt.			36"			4.2			
989+00	M.X-Over									Crown
1008+07	to									
1016+20	O.R.Lt.			42"			8.2	15		See Sheet #24 Pipe at Sta 1008+90
1011+50	O.R.Lt.			42"					13	See Sheet # 24
1013+75	to									
1016+15	P.E.Rt.		28"				2.1			Pipe at Sta 1015+70
1016+00	O.R.Lt.				44"					
1016+20	S.R.Lt.		42"				1.0			
1016+30	P.E.Rt.						0.6			Crown
1023+60	P.E.Rt.	28'					0.4			
1028+50	F.E. Lt.		30'				0.5			
1043+40	M.X-Over									Crown
1043+40	to									
1047+40	O.R.Rt.					60'	4.5			
1045+00	F.E. Rt.	28'					0.3			Off Outer Road Rt. See Sheet # 22
1047+40	P.E. Rt.				40"		0.5	17		
1055+90	F.E. Rt.				30"		1.2			
1060+95	P.E. Lt.				40"		0.6			
1066+75	C.E. Rt.									Crown
1066+75	C.E. Lt.									"
1071+50	C.E. Lt.		60'				0.6			
1081+25	to									
1081+72	O.R.Lt.						7.0			Crown
1083+60	S.R.Lt.			66'			0.7			
1093+70	to									
1097+50	O.R.Rt.						3.7			Crown
1097+20	M.X-Over									"
1097+20	S.R.Lt.				62"		1.1			
1097+20	P.E. Rt.				30"		0.7			
1106+20	P.E. Rt.					40"	0.9			
1113+20	P.E. Lt.		70'				3.5	59		See Sheet # 32 Pipe at Sta 1115+32
1113+20	M.X-Over									Crown
1128+00	to	26'								Off P.E. Lt. 1126+60
1126+50	P.E. Lt.	28'					2.6			" " " "
1126+60	P.E. Lt.	28'					0.9			
1126+60	F.E. Rt.	28'					0.5			
1137+00	F.E. Lt.					40'	1.2			120' Lt.
1146+54	P.E. Rt.				44"		4.6			180' Rt.
1151+04	P.E. Lt.		38'				0.5			
1151+04	S.R. Rt.				40"		1.1			
1153+60	C.E. Rt.	38'					0.6			
1155+95	C.E. Rt.	38'					0.6			
1162+40	P.E. Lt.	28'					0.5			130' Lt Off S.R.
1164+67	S.R. Lt.				60"		1.5			
1164+67	S.R. Rt.					32"	3.0			
1066+75	M.X-Over									Crown
TOTALS		356'	268'	228'	366'	92'	100'	61'	104'	

MOVABLE BARRICADES

Station	Location	No.	Remarks
1212+00	Rte 58	1	See Order Record # 11
1218+25	Rte 58	1	" " " "
1169+	WBL	2	" " " " 9
1070+	WBL	1	" " " " 11
5+	WBL	1	" " " " 9
TOTAL		6	

GENERAL SUMMARY

FINAL PLANS

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY
	BRIDGE AT STA. 1143+54.00 (A-1042)			
52005	Steel Piles In Place (10")	Lin.Ft.	843	
53023	Class B Concrete	Cu.Yd.	73.4	
53034	Class B1 Concrete	Cu.Yd.	157.1	
54000	Reinforcing Steel	Lb.	57430	
55011	Painting	Ton	40.3	
55101	Fabricated Structural Carbon Steel	Lb.	81600	
56001	Bridge Rail (Single Tube Type)	Lin.Ft.	258	
	BRIDGE AT STA. 1177+15.10 (A-1043)			
50014	Class 1 Excavation For Structures	Cu.Yd.	248.5	
50024	Class 2 Excavation For Structures	Cu.Yd.	72.0	
52005	Steel Piles In Place (10")	Lin.Ft.	1125	
53023	Class B Concrete	Cu.Yd.	147.3	
53034	Class B1 Concrete	Cu.Yd.	300.0	
54000	Reinforcing Steel	Lb.	114,390	
55011	Painting	Ton	109.1	
55201	Fabricated Structural Carbon Steel	Lb.	219,310	
56001	Bridge Rail (Single Tube Type)	Lin.Ft.	342	
	CONTINGENT ITEM			
	Boulder Excavation	Cu.Yd.	89.0	

Prepared By _____ Date _____ 19__ Checked in Dist. Office By _____ Date _____ 19__ Checked in Central Office By M. J. Hector Date 7-1- 19 50 Revised By _____ Date _____ 19__

5 MO. F-50-2(7) 3
4 JOHNSON 50

FINAL PLANS

SE¼ SW¼ 13 46-27 | SW¼ SE¼ 13 46-27 | SE¼ SE¼ 13 46-27

Sec. Line

(107) JAMES W. GARNER

(109) GEORGIA MARGARET HOUX LEE

(110) CRISSWELL DEVELOPMENT CO.

(105) AUDRY WINFORD McMURPHY

(111) RAYMOND E. GEORGE

W.B.L. PT 932+61.0 Ah. PT 933+85.1 Bk. PT 932+61.0 Ah. E.B.L.

Exist. R/W

Exist 24' P.C.C. Pav't U.I.P.

Survey ℄

S 82°50' E

Sta 948+00 - D.I. 5" x 2" Type S-2

Sta 937+75 Com. Ent. Crv. 12°24'58" C.M.R.

End Proj. F-50-2(11) Sta. 947+20

Begin Proj. F-50-2(7) Sta 947+20

Pond

+20 Beg. New P.C.C. P. E.B.L.

Sta 937+06.5 24" x 94' R.C.P.

Sta 937+06.5 - D.I. 12" x 7' R.C.P.

9 Ac. @ 0.4 5" x 2" Type S-2 Cliffdell Rt.

Trail

Terrace

NW¼ NE¼ 24 46-27

NE¼ NW¼ 24 46-27

NE¼ NE¼ 24 46-27

¼ Sec. Line

1182 2362.6 To Center Sec. 24-46-27

Sta. 947+20 Begin FAP F-50-2(7) at a point 478' south & 1544' W of NE Cor. Sec. 24 T46 R27

Total R/W Markers = 54
Class A Underdrain
Sta. Side Ligth No. of Markers
984+00 Rt. 50

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm Esm't		AREAS REMAINING Area Left	Area Right
109	Georgia Margaret Houx Lee	3.15 Ac.			7.82	26.54 Ac.
110	Crisswell Development Co.					
111	Raymond E. George	3.51				60.77

PLAN: SURVEYED, PLOTTED, DESIGN CHECKED, R/W STAKED, R/W CHECKED, NOTE BOOK, NO.

PROFILE: SURVEYED, PLOTTED, DESIGN CHECKED, R/W STAKED, NOTE BOOK, NO., STRUCTURE NO. & TYPE, CHKD.

BY DATE

930 940 945 950 955 960

890 880 870 860

Sta. 925+80.95 = 926+00 Ahd.

Sta. 926+00 Ahd. = 926+19.26 Bk.

End Begin Proj. F-50-2(7)

21 886.24

947+20

PI. 952+50 Rt. Lane 21 877.25

-0.3% Rt. & Lt. Lane

-0.4% Rt. Lane

DI. PI. 876.5

DI. PI. 873.5

FL 873.0

FL 870.0

BENCH MARK
90d Spk in S. Roof 12" Elm 250' Lt.
Sta. 945+50 Elev. 882.15

PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	F-50-2(7)		4
DIST. NO.	COUNTY		ROUTE	SEC.
4	JOHNSON		50	

FINAL PLANS

SE4 SE4 13 46-27 — SW4 SW4 18 46-26 — SE4 SW4 18 46-26 — SW4 SW4 18 46-26 — NE4 NE4 24 46-27 — NW4 NW4 19 46-26 — NE4 NW4 19 46-26 — NW4 NE4 19 46-26

960 965 970 975 980 985 990

Sec. Line — ¼ Sec. Line

(110) CRISSWELL DEVELOPMENT CO.

(111) RAYMOND E. GEORGE

(112) MARY ALICE REICHLE ET AL

The NE cor. of Sec. 24 T46-R27 is 478 Ft. Left of Sta. 962+60.1 & E.B.L. @ 0°02' R/A.

(113) NORMAN WAGONER

(114) AUDRY McMURPHY

(115) RAY SWISHER

1415

Sta. 962+60.1 Rte 50 = 1418+37.1 Rte 58

Sta. 962+60.1 S.R.-Rt. (Rte 58) No Pipe

Sta. 963+18.3 18"ø-76'RCP

Sta. 962+26.0 I.D. 12"x7"RCP

3 Ag @ 0.5-C-H.-I Rt. 5½"x2½" Type S-24

Sta. 973+32 P.E. Lt. 12"+28' CMP

Sta. 987+00 P.E. Lt. 18"ø-86' CMP

Sta. 987+00 Med./X-Over Lt. No Pipe

Sta. 989+00 24"ø-110'RCP Skew 40° L.A. 5½"x2½" Type 3-E C-Hdwl. Lt.

Total R/W Markers = 20
Class A Underdrains

Sta.	Side	Ft.	No.	Mark
984+50	Rt.	50	1	

Curve Data
P.I. 974+30.1
Δ-0°14' Rt.
D-0°10'
T-70.0'
L-140.0'
R-34377.5 Ch.
SE-0
Lt-0

Pond — Pond — Pond Ditch — 8'E.B. Ditch — Pvd Ditch

Existing R/W — Old Pavt. — 24' Conc. Pavt.-U.I.P. as W.B. Lane — Survey & E.B. Lane — Var. F.B. Ditch-Med.

Type S2 DI — Type S2 DI

S 87°36'E

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	AREAS ACQUIRED Perm. Esm't.	AREAS ACQUIRED Temp. Esm't.	AREAS REMAINING Area Left	AREAS REMAINING Area Right
112	Mary Alice Reichle et al	0.50 Ac.			81.55	
113	Norman Wagoner	8.08				227.44
114	Audrey McMurphy	3.65			73.96	

PROFILE

VC 300
K 500
PVI Sta 965+25.0
Elev 875.25
Grade Change 1.5%
Length of Curve 300'
Sta 962+75.0
Elev 871.25

-0.3%
+0.3% Lt.
L +0.3% Rt.
+0.1%
-3.0% Rt. Lane
-3.0% Lt. Lane

VC 800
K 600
550.849

VC 870
K 281
550.625

DIFF 3.0'
Fl. 871.0'
Fl. 875.0'

Fl. 875.25
Fl. 877.25
Fl. 877.25
Fl. 875.25

DENCH MARKS

Q NE. Cor. N. Hdwl. Culv. 11'8" Lt.
Sta. 967+84 Elev. 875.61

100d Spk. S. Root 12" Cedar 1.36' Lt.
Sta. 964+65 Elev. 867.36

HFL 885.0'
FL 864.0'

880 870 860 850 840 830 820

960 1 2 3 4 5 6 7 8 9 970 1 2 3 4 5 6 7 8 9 980 1 2 3 4 5 6 7 8 9 990

PLATE I—PLAN-PROFILE C. P. R. & R. E. STANDARD

U. S. BLUE PRINT PAPER CO.—CHICAGO

FAS, FAU, or Rte. No.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F-50-2(7)	5
DIST No.	COUNTY	ROUTE	SEC
4	JOHNSON	50	

ROUTE 58

FINAL PLANS

NE4NE4
24-46-27

SE4SE4
13-46-27

RAYMOND E. GEORGE (111)

CRISSWELL DEVELOPMENT CO. (110)

MARY ALICE REICHLE ET AL (112)

NORMAN WAGONER (113)

NW4NW4
19-46-26

SW4SW4
18-46-26

Total R/W Markers = 4

1405 | 1410 | 1415

960 | 965

¼¼ Sec Line | ¼¼ Sec Line | ¼¼ Sec Line

Exist R/W ? | Exist R/W | Exist R/W

℄ Rte. 58 | N2°11E | ℄ Survey Rte. 50 ?

℄ Co. Rd. ? | Section Line ? | Range Line ? R27W / R26W

962+60.1 Rte. 50
= 1418+37.1 Rte. 58

1415+50
Beg. PCC Pavt

Sign | Pavt | Gas | Exist R/W | 8 Co. Rd. ?

+50 90 | +50 75 | +25 75 | +00 60 | +50 40 | +00 60 | +50 40 | +00 60 | +50 40 | +00 75 | +00 60 | +25 144 | +20.1 215 | +00.1 215 | +00 144

40' R/W | 40' R/W | 40' R/W | 40' R/W | 40' R/W | 40' R/W | 40' R/W | 40' R/W

84' | 60' | 60' | 60' | 60' | 60' | 60' | 60' | 60' | 60' | 60' | 60' | 60' | 60' | 60' | 60' | 60'

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
STRUCTURE ROTATING CHKD.
BY
DATE

880 | 870 | 860 | 850

1405 6 7 8 9 1410 1 2 3 4 1415 6 7 8 9

PLATE I—PLAN-PROFILE O. P. R. & B. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.
MO.	F-50-2(7)		6
COUNTY		ROUTE NO.	
JOHNSON		50	

FINAL PLANS

AUDRY McMURPHY (114)

SW¼ SE¼ 18-46-26

JAMES O. COCHRAN (115 a)

SE¼ SE¼ 18-46-26

RAY SWISHER (115)

SW¼ SW¼ 17-46-26

T. REED MAXSON (116)

WILLIAM C. TUCKER (117)

HARLEY E. HYATT ET AL (116)

NW¼ NE¼ 19-46-26

NE¼ NE¼ 19-46-26

NW¼ NW¼ 20-46-26

990 995 1000 1005 1010 1015 1020

14 ¼ Section Line

Sec. Line

Survey ℄

℄ FBD

Perm. Esm't Drain

24' Resuet Pvt.

Val. F.B. Median Dr.

387°-36' E

S87-36E

Sta. 998+30 18"×118' RCP 5k 30° R.A.

Sta. 1003+00 R Lane 5k 30° R.A. 36"×194 RCP 2.5 Ac @ 0.6 2 V.C. Hdwls

Sta. 1005+85.0 5k 19° R.A. 48"×192' RCP 7.8 Ac @ 0.5 5'×5' Type S-3 2 V.C. Hdwls

Sta. 1006+64.01 18"×12' RCP

Sta. 1008+30 0 Rt. 18"×42' CMP 0.4 Ac. 0.5

Sta. 1011+50 0 Rt. 18"×42' CMP 3 Ac @ 0.5

Sta. 1016+00 0 Rt. 18"×44' CMP 3 Ac @ 0.5

Sta. 1016+30 S. Rd. Lt. 18"×42' CMP

Sta. 1016+30 Med. X-Over Lt. 18"×41' RCP 2 - 18° Hdwls

Sta. 1015+76 - PERP. 12"×28' CMP 3 Ac @ 0.4

Sta. 1016+30 Med. X-Over Lt. 24"×42' RCP 2 - 18° Hdwls

Sta. 1018+06 L 24"×18' RCP 3 Ac @ 0.6 5'×5' T. S-C 2 Hdwl. Hd.

Sta. 10 Proj. - DI 18"×3' RCP

Proj. CO 81-52 (7) Sta. 1019+08 Rt. 24"×42' RCP, Elbs. 2 - Hdwl. Hd.

Total R/W Markers = 20
Class A Subdivisions

Sta.	Side	Lgth.	No. of Markers
1006+30	Lt.	50'	1
1026+75	Rt.	50'	1
Total		100'	2

TRACT NUMBER	PROPERTY OWNER	AREAS R/W	AREAS ACQUIRED Perm. Esm't.		AREAS REMAINING Area Left	Area Right
115	Ray Swisher	2.44			197.24	
116	Harley E. Hyatt et al.	8.87	0.21			229.90
115 a	James O. Cochran	0.89	0.10		9.11	

PROFILE — SURVEYED / PLOTTED / CHECKED / NOTE BOOK / NO. / R.B.'s NOTED / STRUCTURE NO(TYPE CYPE) / BY / DATE

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.B.'s NOTED / BY / DATE

Gr. Profile

-3.0 % Grd.

-5.0 % Grd.

V.C. 600 K 150

Gr. Pt. 806.0

Fl. 801.0

Gr. Pt. 796.0

Fl. 791.0

Gr. Pt. 785.0

Fl. 780.0

Fl. 780.0

Fl. 780

5	MO. F-50-2(7)		7
4	JOHNSON	50	

EUGENE V. FRYHOFF (120)

FINAL PLANS

SW4 SW4 17-46-26

Sta. 1028+80 P.E. Lt. 15"ø 36° CMP.

Sta. 1028+50 Med. X-Over Lt. 18"ø RCP 2-S. Hdwls.

Proj. CO51-5(10) Sta. 1030+75 P.E. Lt. 15"ø 28° CMP.

SE4 SW4 17-46-26

Total R/W Markers = 15
Class A Underdrains

Sta.	Side	Lgth.	No. of Markers
1026+32	Rt.	50	1
1026+00	to		
1035+96	Lt. &	996	
1046+26	Lt.	50	1
Total		1076	3

Proj. CO51-5(10) Sta. 1043+68 WBL 3"x2"x11' R.C. Box Extn. Std. 981.30

SW4 SE4 17-46-26

Sta. 1043+40 Med. X-Over Lt. No Pipe

105-30"x30' RCPA 3121.61 Conc. Box U/P

Perm. Esmt. Drain

Sta. 1047+15.16 Beg. PCC Ramp WBL

6" U Drain

8' F.B.D. Pond

10' Pave.

Sta. 1043+40 Q Rd. Rt. 48"ø 40° CMP.

Sta. 1043+04.5 30"ø 75' RCP Sk. 0-26 RA 20 Ac. @ 0.5 Sec. Ty. S-2 C. Haul Rt. Sta. 1042+96 Dr. 12"ø 7' RCP

Sta. 1045+00 P.E. Lt. 12"ø 28° CMP.

Sta. 1047+40 P.E. Rt. 24"ø 30° CMP.

Sta. 1046+32 Rt. Lane Cut 5'-6" R.C. Box 1 229 Ac. @ 0.5 Sk. 30° RA

Sta. 1046+32 Dr. 12"ø 10' R.C.P.

T. REED MAXSON (118)

NW4 NE4 Sec. Ty. S. R. 20-46-26

Sta. 1022+44.6 Δ 013° Rt. D 0°10' T 65.0 L 130.0 R 34,377.5' Ch. S.E. 0.00 Lt 0.00

Sta. 1023+80 P.E. Rt. 12"ø 28° CMP.

T. REED MAXSON (118)

WILLIAM C. TUCKER (117)

Terrace

8" Underground Missile Cable

¼ ¼ Sec. Line

Sec. Line

S87°36'E

S87°23'E

24' Resurf. Pvt. U/P

Survey Line

Pumpline

Eastern Pipeline

Cable

Fence

Pvt. Road

Pvt. Drive

8' F.B.D. Pond

Pvt. Pond

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm. Esm't.		AREAS REMAINING Area Left	Area Right
117	William C. Tucker	9.26 Ac.				194.71
118a	T. Reed Maxson	2.82			127.19	
118b	T. Reed Maxson	4.22				69.01

NW4 NW4 20-46-26

NE4 NW4 20-46-26

SW4 NE4 20-46-26

NW4 NE4 20-46-26

BENCH MARKS

100d Spike in S. Root 24" Elm 144 Lt. Sta. 1030+05 Elev. 792.39

"I" on SW. Cor. S. Hdwl. Box Culv. 43' Rt. Sta. 1047+05 Elev. 755.26

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / R.C.'S NOTED / STRUCTURE NOTES (TYPE, CHKD.) / NOTE BOOK / NO. / BY / DATE

PLATE I - PLAN-PROFILE - O.P.R.R.A.B. STANDARD

U.S. HIGHWAY 218 (NEW) (OLD) (BYPASS)

STATE	HIGHWAY PROJECT NO. & REF.	FINAL PLANS	SHEET NO.
5	MO. F-50-2(7).		8
4	JOHNSON	SHEETS	50

FINAL PLANS

TRACT NUMBER	PROPERTY OWNER	AREAS R/W.	ACQUIRED Perm. Esm't.		AREAS REMAINING Area Left	Area Right
120	Eugene V. Fryhoff	2.44	0.11		47.76	
122	Skyhaven Inc. & Modern Tree Ser. Inc.	0.90			10.38	
123	Ace Wrecking & Excavating	4.04				35.03
123a	Modern Tree Service Inc.	4.25			98.10	

SW¼ SE¼ 17-46-26 (120) EUGENE V. FRYHOFF

SE¼ SE¼ 17-46-26

SW¼ SW¼ 16-46-26 (123a) MODERN TREE SERVICE INC.

CURVE DATA
P.I.-1070+76.5
Δ- 1°33' Lt.
D- 0°10'
T- 465.0'
L- 930.0'
R- 34,377.5 Ch.
SE 0.00
Lt 0.00

Sta. 1059+75 - Lt. 42¼" x 62' RCP Pond Drain

Sta. 1060+55 P.E. Lt. 24"¼ 40' CMP

Sta. 1066+25 Conc. Entr. Rt. No Pipe Type 'S' Curb

Sta. 1066+75 Mod. X-Over No Pipe

Sta. 1071+50 Conc. Entr. Rt. 15"¼ 60' CMP

SKYHAVEN INC. & MODERN TREE SERVICE INC. Motel

SW-NE Runway

Pvt. 1066+11.5 Rt. Lane +11.5 & Median +14.5 +47.4 105

Pvt. 1075+41.5

Hangar

Sec. Line

Survey ℄

S87°23'E

Sta. 1056+90 F.E. Rt. 24"¼ 50' CMP

Sta. 1056+60 - DI. 12"¼ x 8"¼ R.C.P.

Sta. 1055+13 Rt. Lane 48"¼ x 194' R.C.P. 80 Ac. @ 0.5 Sk. 30' L.A. 5-#4 Type 'S' Conc. Lt. & Rt. Rf.

ACE WRECKING & EXCAVATING

NW¼ NE¼ 20-46-26 T. REED MAXSON

NE¼ NE¼ 20-46-26

Sta. 1066+75 Com. Entr. Rt. No Pipe Type 'S' Curb.

Sta. 1074+77 24"¼ 163' R.C.P. 8'-4" x Type 'S' 8 Widw Rt. & Mdwlt. Sta. 1074+76 - DI. 12"¼ C.R.C.P.

NW¼ NW¼ 21-46-26 ROBERT A. BRAUNINGER

Total R/w Markers = 13

Pl. 100 E.B.L. El. 760.00

Pl. W.B.L. El. 760.00

V.C. 600 K. 266 Rt. K. 250 Lt.

+2.25 % E.B.L.

+2.40 % W.B.L.

Fl. 766.0 DI. Fl. 764.0 Fl. 758.0

Pl. 1+83.08 Rt. & Lt. Curb El. 794.77

V.C. 900 K. 277 Rt. SSD 689 K. 265 Lt.

Pvt. 1+13.08 -1.0 %

Fl. 782.4 DI. Fl. 779.4 Fl. 779.0

BENCH MARKS
a on S.W. Cor. Drop Inlet 40' Lt. Sta. 1055+30 Elev. 765.61
b on S.W. Cor. Apron Swimming Pool 125' Lt. Sta. 1068+72 Elev. 787.51

PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

REV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	F-50-2(7)		9
FED. NO.	ROUTE SYSTEM	ROUTE	SEC.	
4	JOHNSON	50		

FINAL PLANS

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm. Esm't		AREAS REMAINING Area Left	Area Right
124	Robert A. Brauninger	4.39				178.76
125	Ray A. Shepherd	3.08			71.36	
126	George F. Hooper	2.21				91.37
126a	State of Missouri	0.30			0.73	
125a	Neva R. Shepherd	0.91			1.45	
125b	Kenneth R. Shepherd	0.70	0.07		1.66	

Total R/w Markers = 19
Class A Underdrains
Sta. Side Lgth No of Marker
1087+70 Rt. 50' 1
1097+70 Lt. 50' 1
Total 100' 2

SW¼ SW¼ 16-46-26

Sta. 1081+68.8 12"ϕ 98' R.C.P. Extn. 335'± Lt. of ℄ Collar

Sta. 1083+23.6 12"ϕ 191'± R.C.P. Extn. 395'± Lt. of ℄ Collar

Sta. 1088+40 Lt. Lane 36"ϕ 216' R.C.P. Sk. 38' L.A. 17 Ac. @ 0.5 5¼ 3'± Type S-2 C.I. Hdwls. Rt. & Lt. Sta. 1087+78 - DI. 18"ϕ 8'± R.C.P.

SE¼ SW¼ 16-46-26

Note: Sta. 1082+00 ℄ 280'± Lt. 220'×150' Pork. Ramp. Surf. with 2" Type C Asph. & 6" Type V Base.

MODERN TREE SERVICE INC.

NEVA R. SHEPHERD (125a)

KENNETH R. SHEPHERD (125b) Perm. Esm't Drain.

RAY A. SHEPHERD (125)

NANCY E. LOCKARD ET AL (127)

SW¼ SE¼ 16-46-26

Sta. 1096+76 Lt. Lane 18"×76' R.C.P. Median Drain 5"×2'± Type S-2 C.I. Hdwl. Lt.

Sta. 1097+20 S. Rd. Lt. 24'×62' C.M.P.

Sta. 1094+30.6 8'×6'×125.35' R.C. Box Extn. 365 Ac. @ 0.8 5 Yd. 58.20' Sk. 40' R.A. 5¼ 2'± Type S-IV

Sta. 1103+58 18"ϕ 13'± R.C.P.

Perm. Esm't Drain

Hangar

Outer Roadway

Survey ℄

S 87°14' E

Var. F.B. Med. Dit.

18' Conc. Pavt. Resurf to 24'-U.I.P.

Sec. Line

4" F.B.D. Pave.

CURVE DATA
P.I. 1080+30.8 ℄ Med.
Δ - 1°42' Rt.
D - 0°11'
T - 163.7
L - 327.3
R - 31,252.3 Ch.
SE. 0.00
Lt. 0.00

NW¼ NW¼ 21-46-26

℄ Median P.T. 1085+44.4 ℄ Lt. Lane P.T. 1085+44.4 ℄ Lt. Lane

Sta. 1083+60 Med. X-over 18"×54' R.C.P. 2 I.D.-Hdwls.

Sta. 1084+80 ℄ End New R.C.A.P.

ROBERT A. BRAUNINGER (124)

NE¼ NW¼ 21-46-26

Sta. 1097+20 Med. X-over No Pipe

Sta. 1097+20 P.E. Rt. 24'×30' C.M.P.

GEORGE F. HOOPER (126)

NW¼ NE¼ 21-46-26

Sta. 1106+28 P.E. Rt. 36"×40' C.M.P.

Sec. Line

Total Length of Project 2,800'

PLAN — SURVEYED — PLOTTED — NOTE BOOK — NO. — DATE — BY — CHECKED — R/W MARKERS SET — R/W NOTED — STRUCTURE ROTATIONS CHKD.

PROFILE — SURVEYED — PLOTTED — NOTE BOOK — NO. — DATE — BY — CHECKED — R/W MARKERS SET — R/W NOTED — STRUCTURE ROTATIONS CHKD.

BENCH MARKS
100 d. Spike in W. Root 82' Hedge 19' Rt.
Sta. 1076+99 Elev. 767.52
Bolt on S.E. Cor. S. Head Wall 10' Rt.
Sta. 1109+85 Elev. 730.35

Rtg. Lt. Lane ℄

Gr. Profile & Neat

1.0%

EBL ℄

Gr. Profile

WBL

Dr. Fl. 760.0

Fl. 760.5

Fl. 760.0

Dr. Fl. 769.0

Fl. 756.0

Fl. 766.27
Fl. 766.35

VC. 450
K. 300
930.421

R 5%

EBL

VC. 600
K. 274

0.3%

Dr. Fl. 726.5

Fl. 726.0

Fl. 726.17

Sta. 1100+00 Elev. 729.29

13

PLATE 1—PLAN-PROFILE O.P.R.D.W.E. STANDARDS
U. S. BLUE PRINT PAPER CO.—CHICAGO

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F-50-2(7)	10
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

FINAL PLANS

SW4 SE4 16-46-26 | SE4 SE4 16-46-26 | SW4 SW4 15-46-26 | SE4 SW4 15-46-26

(127) NANCY E. LOCKARD ET AL

(128) HAZEL B. GREEN

(129) SUNRISE SEED & IMPLEMENT CO.

(128) GEORGE F. HOEPER

NW4 NE4 21-46-26 | NE4 NE4 21-46-26 | NW4 NW4 22-46-26 | NE4 NW4 22-46-26

1110 | 1115 | 1120 | 1125 | 1130 | 1135 | 1140 — ¼ ¼ Sec. Line

Sta. 1113+20 P.C. Lt. No Pipe

Pond

Sta. 1115+52.5 P.E. 100' Lt. 15"ø 70' CMP

Sta. 1123+51.5 30"x 11" CR.P. 15 Ac. @ 0.6 Sk. 30° RA. 5'x 2' Type S-2 C-Hdwl. Lt.

Sta. 1123+69 - DI. 12'x 3' RCP.

Sta. 1124+00 P.E. 100' Lt. 12"ø 26' CMP

+455 - Septic Tank

Sta. 1126+50 P.E. 100' Lt. 12"ø 28' CMP

Sta. 1126+60 P.E. Lt. 12"ø 28' CMP

Sta. 1136+35 Lt. Lane 4 @ 3'x 9' RC Box Extn. 50 Ac. @ 0.6 Sk. 25° LA. Std 53.30 5'x 2' Type S-1

Sta. 1135+96.5 - DI. 18"x 16' RCP.

Sta. 1137+00 P.E. 120' Lt. 48"ø 40' CMP.

Sta. 1113+20 Med. X-over No Pipe

Exist. Perm. Esm't

Proj. C051-50 (10) Sta. 1123 Lt. - EBL 30"x 47" RCP. Extn. C-Hdwl. Rt.

Sta. 1126+60 Med. X-oter. 18"x 60" RCP. 2-6-Hdwls. Lt.

Sta. 1126+60 F.E. Rt. 12"ø 28' CMP

Perm. Esm't Drain.

Proj. C051-50 (10) Sta. 1136+60 - EBL 4'x 3'x 8' RC Box Extn. Std 53.30 Sk. 0° L.A.

Survey ℄ S 87°14' E

S.L. 1

S.L. 2

S.L.

Sec. Line

24' Resurfaced Pvt on 18' Conc. U.I.R.

8" FA Ditch

T.T.P. Under ℄

Exist. R/W

Z

20' FL

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm. Esm't		AREAS REMAINING Area Left	Area Right
127	Nancy E. Lockard et al	8.25	0.22		149.68	
128	Hazel B. Green	0.78			3.97	
129	Sunrise Seed & Implement Co.	10.14	0.14		146.90	191.89

Total R/W Markers = 18
Class A Underdrains

Sta.	Side	Ligth	Nod Markers
1129+00	Lt.	50'	1
1137+00	Lt.	50'	1
Total		100'	2

PROFILE — SURVEYED, PLOTTED, ALIGNMENT CHECKED, GRADES CHECKED, R.R.'S NOTED, STRUCTURE NO'S & TYPE CHKD., NOTE BOOK, NO., BY, DATE

750 | 740 | 730 | 720 | 710 | 700 | 690

-0.3 %

EBL

WBL

Fl. 730.0

DI. Fl. 727.8

Fl. 729.0

Pl. +00 El. 734.00

V.C. 480 K. 282 330. 652

-2.0 %

Gr. Profile of Lt. Lane

V.C. 600' K. 300'

0.00 %

Pl. +00 El. 720.00

DI. El. 711.8'

Fl. 705.8'

Fl. 705.8'

BENCH MARKS

□ on N.E. Cor. Pipe Cul. Hdwl. 28' Lt. Sta. 1123+38 Elev. 733.70

1110 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1120 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1130 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1140

PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD

U. S. BLUE PRINT PAPER CO.—CHICAGO

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F-50-2(7)	11
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

FINAL PLANS

TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm. Esm't		AREAS REMAINING Area Left	Area Right
130	Clyde V. Potter	2.72			73.14	
131	Lawrence L. Wilkes	1.54			1.68	
132	Kenneth C. Wilson	0.31				3.70
133	Homer A. Wilson	1.69				8.83
134	Eugene Morris	0.26				1.87

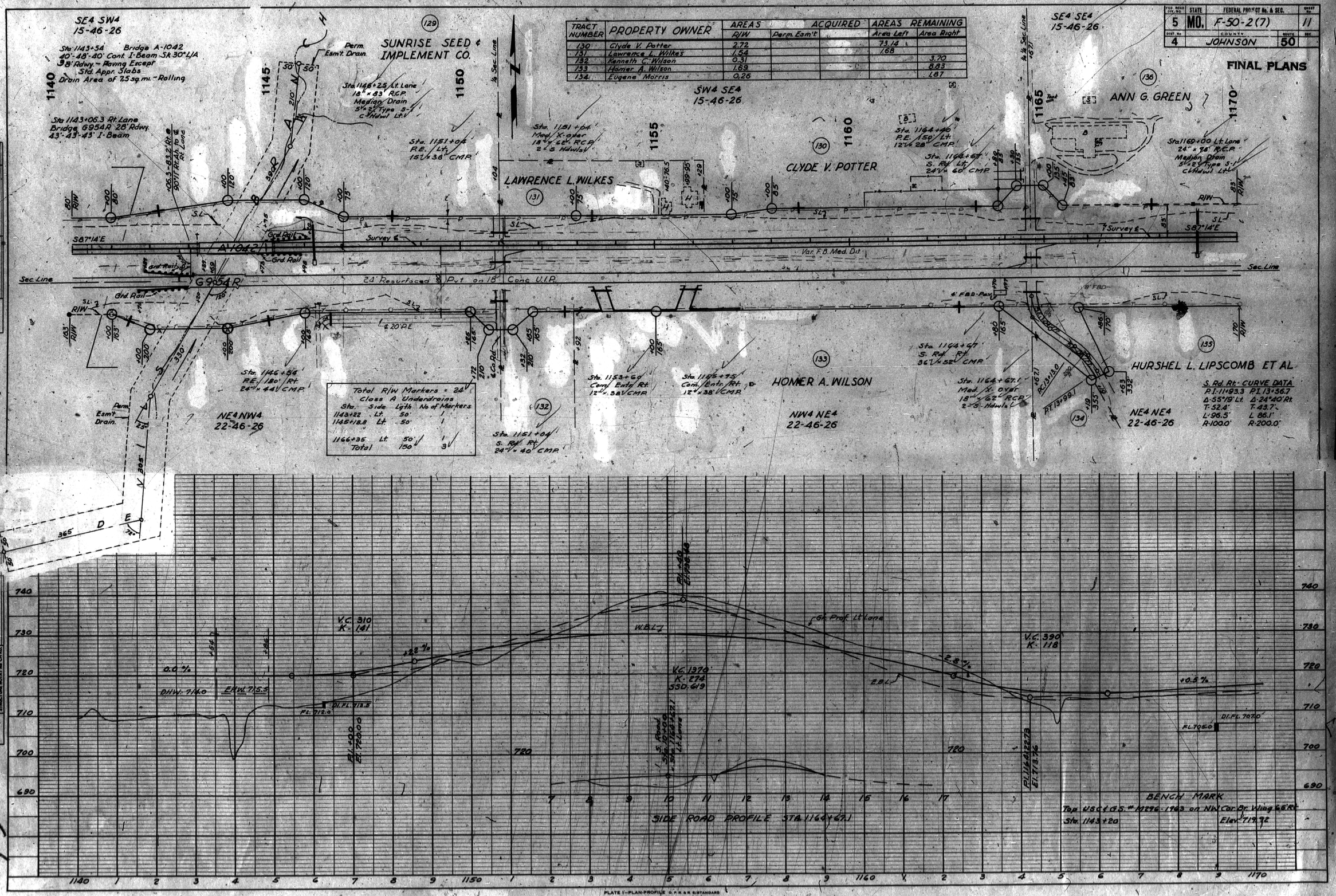
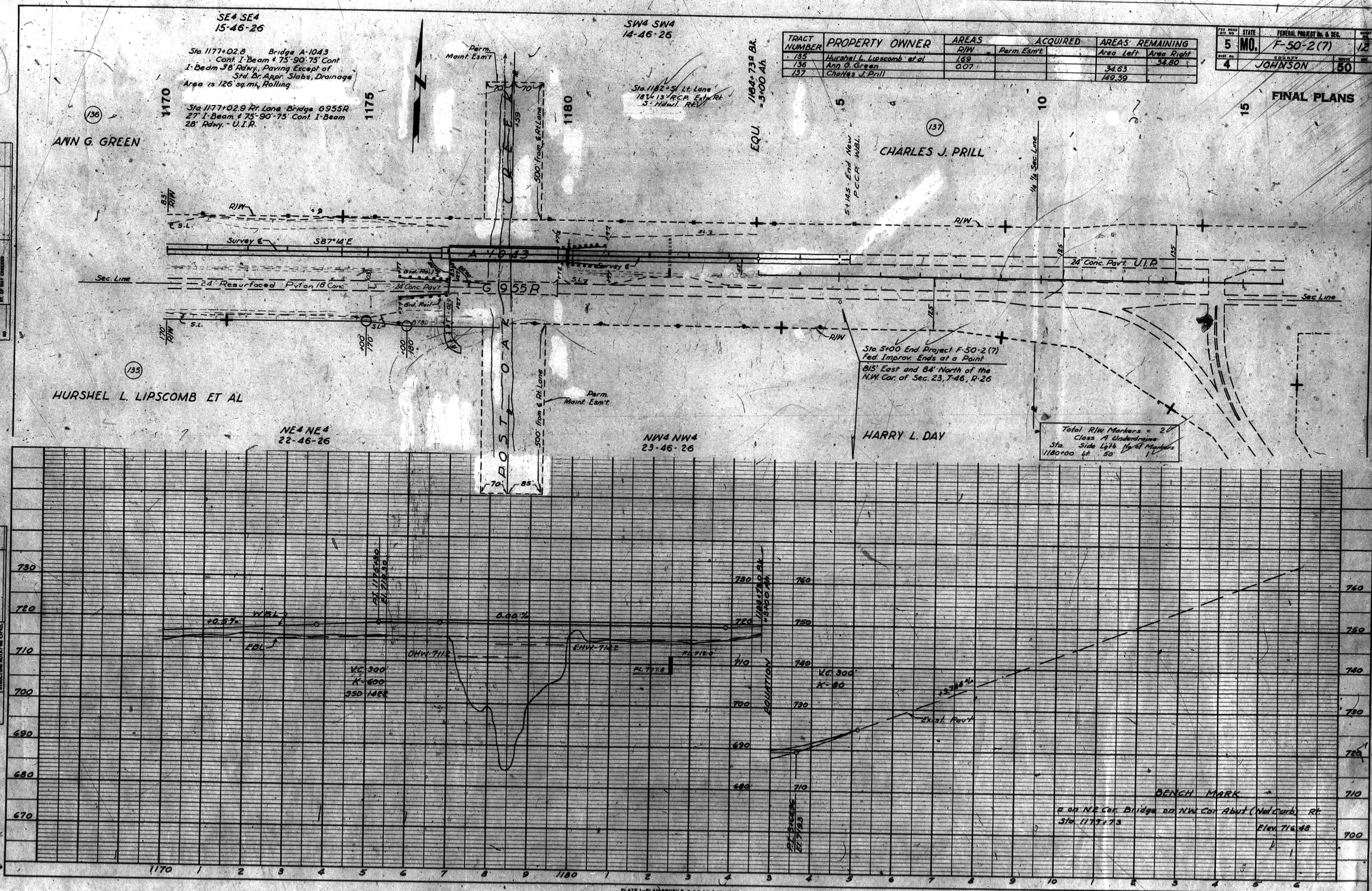


PLATE I—PLAN-PROFILE O.P.R.&R.R. STANDARD
U. S. BLUE PRINT PAPER CO.—CHICAGO

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	F-50-2(7)	12
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

FINAL PLANS

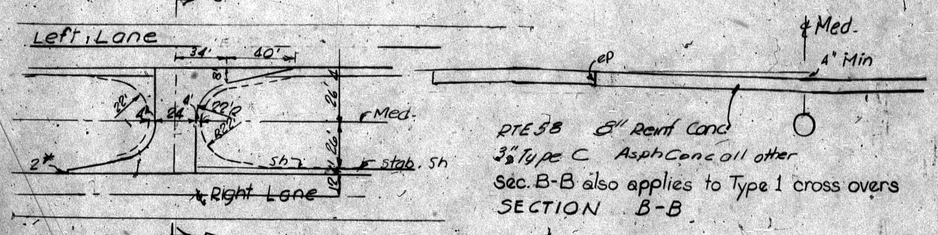
TRACT NUMBER	PROPERTY OWNER	AREAS ACQUIRED R/W	Perm. Esm't		AREAS REMAINING Area Left	Area Right
135	Hurshel L. Lipscomb et al	1.69				34.80
136	Ann G. Green	0.07			34.63	
137	Charles J. Prill				149.59	



16

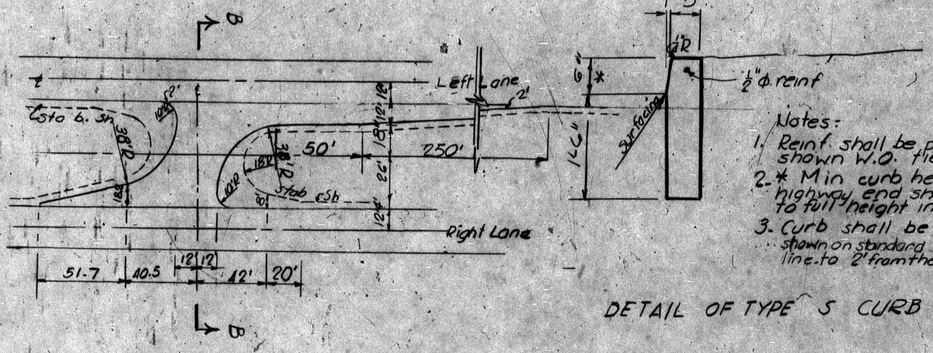
FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	F-50-2(7)	14
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

FINAL PLANS



1. Surfacing shall be 8" Rein (Rte 58), All others 3" Type C A.C.
2. *Typical when adjoining U.I.P. Pvt
3. Use 12" Type 1 Base with 3" A.C. Surf. for X-over for T. By Pass

TYPE 2 CROSS OVER

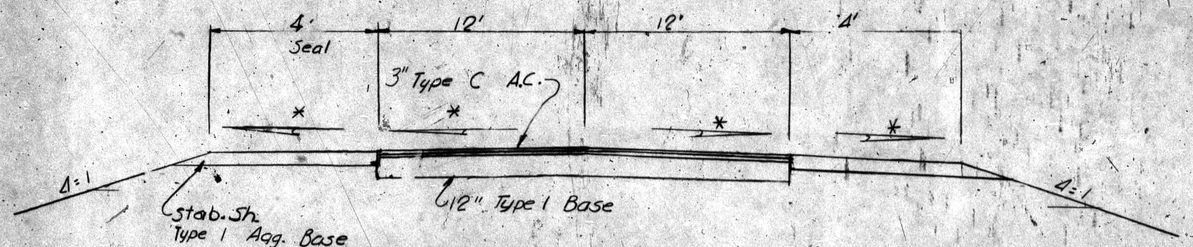


Notes:
1. Reinf shall be placed in approx. position shown W.O. ties. (Incl in price bid for curb)
2. * Min curb height at beginning on highway end shall be 6". Curb shall Taper to full height in 5'.
3. Curb shall be built on the surfacing line as shown on standard drawing 21.51 from the shoulder line to 2' from the right of way line as shown.

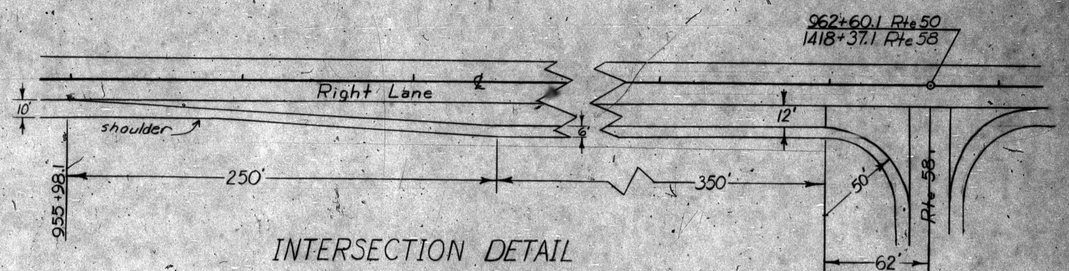
DETAIL OF TYPE S CURB

TYPE 1 @ CROSS OVER (RTE 58)

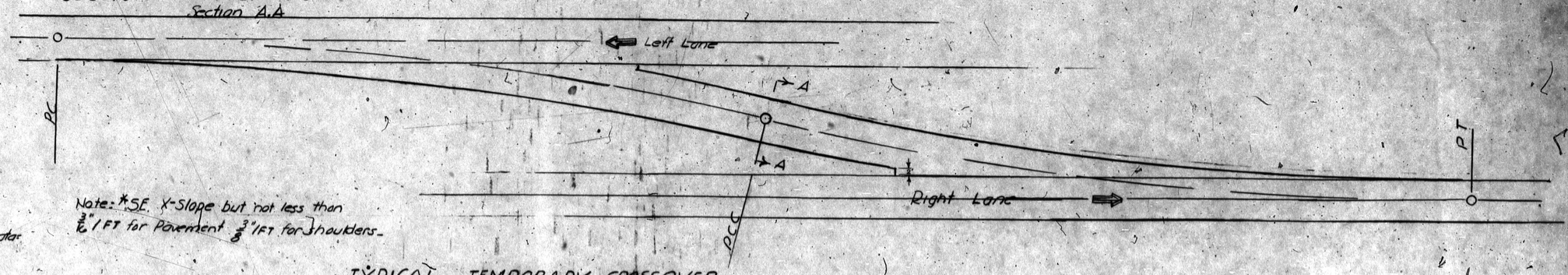
TYPICAL CROSSOVER DETAILS



SECTION TEMP. CROSS OVER
Section A.A



INTERSECTION DETAIL
Station 962+60.1



Note: *SE. X-slope but not less than ⅝"/FT for Pavement ¾"/FT for Shoulders.

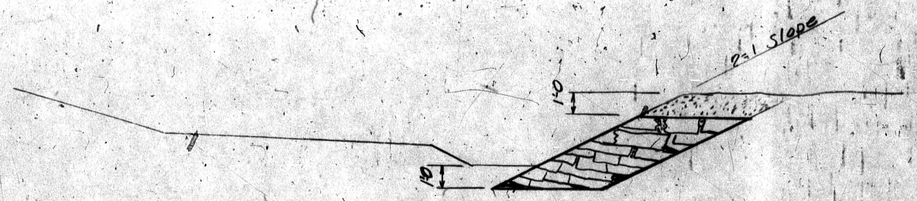
Cross-Over Curve Data:
Δ 18°-02'-15"
D 3°
T 201.89
L 401.25
R 1910.08
SE .03'/FT

TYPICAL TEMPORARY CROSSOVER
Typical Sta 950+00
Sta 1167+50

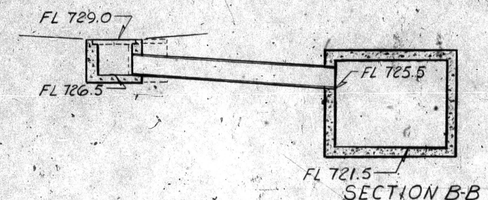
SPECIAL SHEET NO 1

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	F-50-2 (7)	15
DIST. No.	COUNTY	ROUTE	SEC.
4	JOHNSON	50	

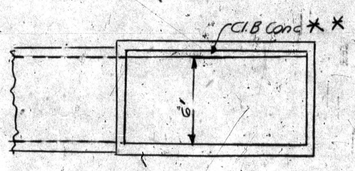
FINAL PLANS



RUBBLE DEPOSIT DETAIL Right, Sta. 1003+ & 1051+



SECTION B-B

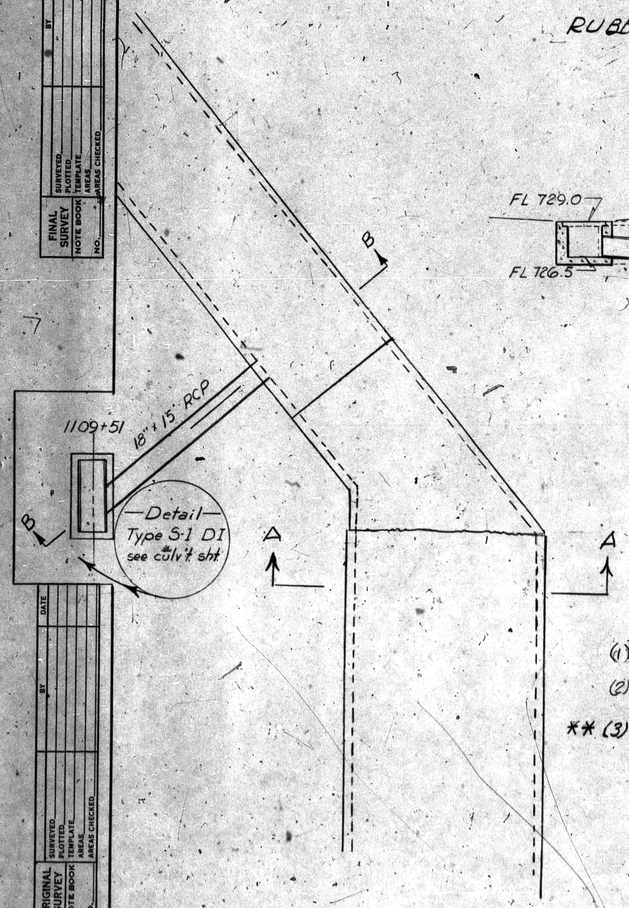


SECTION A-A

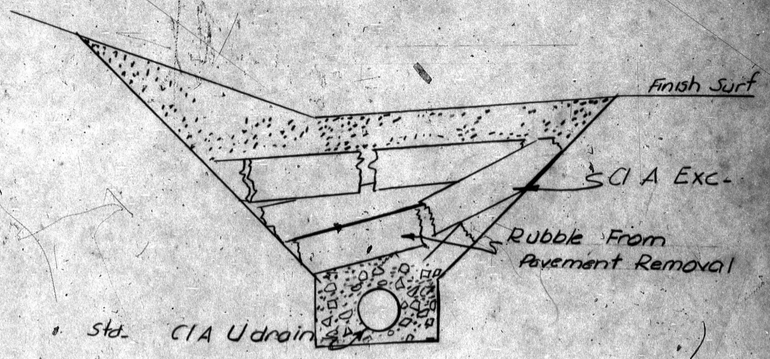
(1) Remove headwall from exist. 13' × 6.5' culv.

(2) Bend exist reinf steel into walls of new culv. a min of 20 bar diameters

** (3) Build C1.B Conc. wall 1' thick over 6' box to close.



DETAIL OF CULVERT EXTENSION STA 1109 + 30.6



PARALLEL UNDERDRAIN LEFT STA. 1046 - 1056

SPECIAL SHEET NO. 2

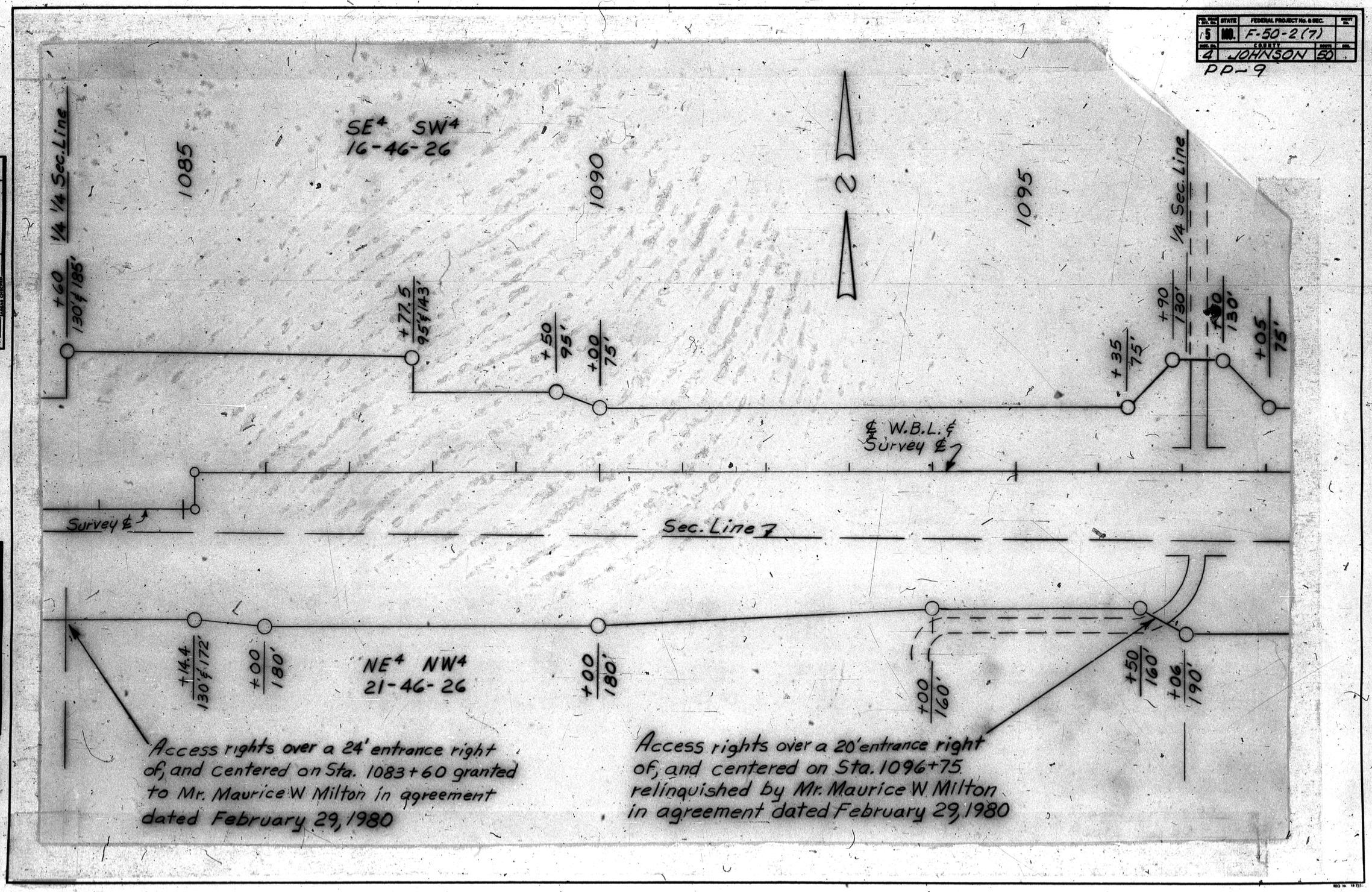
FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

LIST OF STANDARD PLANS

PROJ.	SHEET
F-50-2(7)	16
CO. JOHNSON	RTE. 50

21.40		4-64
21.51		9-1-65
21.55		5-1-66
21.95	1 OF 3	11-67
21.95	2 OF 3	9-1-67
21.95	3 OF 3	9-67
21.96		12-1-67
23.10		1-1-61
43.10		6-1-67
48.10		3-1-67
48.12		2-1-65
48.30		3-1-67
53.20	1 OF 3	9-15-61
53.20	2 OF 3	9-15-61
53.20	3 OF 3	9-13-61
53.24		10-6-61
53.30		10-6-61
53.35		1-2-63
53.40		1-1-67
53.41		1-1-67
54.00		12-1-67
61.00		6-1-64
80.50		3-1-62
82.00		1-1-64
84.01		11-1-63
84.03		6-1-61
86.00	1 OF 5	12-67
86.00	2 OF 5	12-67
86.00	3 OF 5	12-67
86.00	4 OF 5	12-67
86.00	5 OF 5	11-2-67
87.00		6-64
87.10		1-1-65
87.20		11-1-67
89.00		8-67



FEDERAL PROJECT No. & SEC.
STATE
MO.
F-50-2(7)
COUNTY
JOHNSON
50
4
PP-9
SE4 SW4
16-46-26
1085
1090
1095
1/4 1/4 Sec. Line
1/4 Sec. Line
+60
130' & 185'
+77.5
95' & 143'
+50
95'
+00
75'
+35
75'
+90
130'
+00
130'
+05
75'
℄ W.B.L. & Survey ℄
Survey ℄
Sec. Line
+14.4
130' & 172'
+00
180'
NE4 NW4
21-46-26
+00
180'
+00
160'
+50
160'
+06
190'
Access rights over a 24' entrance right of, and centered on Sta. 1083+60 granted to Mr. Maurice W Milton in agreement dated February 29, 1980
Access rights over a 20' entrance right of, and centered on Sta. 1096+75 relinquished by Mr. Maurice W. Milton in agreement dated February 29, 1980

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