ROAD CONTRACT NO. R-8471

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-74(52)		1	184

INDEX

SHEET NO.	DESIGNATION	B.P.R. APPROVAL	DATE ADOPTED "A" OR LATEST REVISION "R"
	TITLE SHEET		
	STD. DIV. LANE (INTERSTATE)		
	STD. DIV. LANE (INTERSTATE)		
	STD. DIV. LANE (INTERSTATE)		
2	STD. CROSS SECTION, E-II-TR		
	STD. CROSS SECTION,	NONE	R-6-6-67
	STD. CROSS SECTION,		
3-4	TYPICAL CROSS SECTION		
	STD. 8 INCH RAMP SECTION		
	STD. 10 INCH RAMP SECTION		
5	PLAT MAN. FOR DESIGN DEPARTMENT		
6	STD. PAVEMENT JOINTS SHEET "A"		
7-18	PLAN AND PROFILE	NONE	A-MAY 1967
19	SUBSURFACE DRAINAGE		
19	TABLE OF QUANTITIES FOR APPROACHES		
20	TABLE OF QUANTITIES		
21	STRUCTURE DATA		
22	ESTIMATE OF QUANTITIES		
23	ESTIMATE OF QUANTITIES		
24	MISCELLANEOUS STANDARDS, SHEET "MA"		
25	MISCELLANEOUS STANDARDS, SHEET "MB"	NONE	R-8-23-67
26	MISCELLANEOUS STANDARDS, SHEET "MC"	NONE	R-8-25-67
27	MISCELLANEOUS STANDARDS, SHEET "MCI"	10-5-66	R-9-6-66
28	MISCELLANEOUS STANDARDS, SHEET "MD"	NONE	R-8-25-67
29	MISCELLANEOUS STANDARDS, SHEET "MDI"	2-8-66	R-10-18-65
30	MISCELLANEOUS STANDARDS, SHEET "ME"	4-28-66	R-4-4-66
31	MISCELLANEOUS STANDARDS, SHEET "MEI"	2-8-66	A-JULY 1965
32	MISCELLANEOUS STANDARDS, SHEET "MEA"	9-7-66	R-8-11-61
33	MISCELLANEOUS STANDARDS, SHEET "MH"	NONE	A-MAY 1967
34	MISCELLANEOUS STANDARDS, SHEET "MHI"	2-8-66	R-10-18-65
35	MISCELLANEOUS STANDARDS, SHEET "MI"	NONE	R-1-4-67
36	MISCELLANEOUS STANDARDS, SHEET "MI-1"	2-8-66	A-JULY 1966
37	MISCELLANEOUS STANDARDS, SHEET "MN"	NONE	R-8-25-67
38	MISCELLANEOUS STANDARDS, SHEET "MP"	8-15-66	R-8-25-67
39	MISCELLANEOUS STANDARDS, SHEET "MP"	3-29-67	R-2-27-67
40	MISCELLANEOUS STANDARDS, SHEET "S"	1-15-67	R-7-27-67
41	MISCELLANEOUS STANDARDS, SHEET "S-1"	8-21-67	R-5-3-67
42	MISCELLANEOUS STANDARDS, SHEET "MS-2"	3-7-63	R-1-15-63
43	MISCELLANEOUS STANDARDS, SHEET "MS-3"	3-22-66	A-JUNE 1966
44	MISCELLANEOUS STANDARDS, SHEET "MO-2"	NONE	A-OCTOBER 1967
45	GUARD RAIL GR-2	2-8-66	R-10-18-66
46	GUARD RAIL GR-2	NONE	R-8-25-67
47	GUARD RAIL GR-4	NONE	R-8-25-67
48	ALUMINUM GUARD RAIL DETAILS GR-6	NONE	R-8-25-67
49	STEEL TUBE GUARD RAIL DETAILS GR-6	NONE	R-8-25-67
50	STD. DETOUR SIGNS, SHEET 1	NONE	R-4-25-67
51	STD. DETOUR SIGNS, SHEET 2	NONE	A-DEC. 1966
52	STD. DETOUR SIGNS, SHEET 3	NONE	R-4-25-67
53	STD. DETOUR SIGNS, SHEET 3A	NONE	A-DEC. 1966
54	STD. DETOUR SIGNS, SHEET 5	NONE	A-DEC. 1966
55	SPECIAL SIGNS	NONE	A-DEC. 1966
56	CONSTRUCTION IDENTIFICATION SIGN, SHEET 1	NONE	A-DEC. 1966
57	BRIDGE STANDARD, BR-1	NONE	R-6-15-67
58	BRIDGE STANDARD, BR-2	NONE	A-JAN. 1967
59	BRIDGE STANDARD, BR-3	NONE	A-JAN. 1967
60	BRIDGE STANDARD, BR-4	NONE	A-JAN. 1967
61	BRIDGE STANDARD, C1	NONE	A-JAN. 1967
62	BRIDGE STANDARD, D	NONE	R-1-25-67
63	BRIDGE STANDARD, R2A	2-10-67	R-11-1-65
64	BRIDGE STANDARD, S1	8-10-66	R-6-5-66
65-184	CROSS SECTIONS	NONE	R-2-10-67

REVISIONS		
SHEET NO.	DATE	REVISED
5,7 & 8	4-10-68	R/W REVISION
9	5-3-68	R/W REVISION
7-8-9-10 & 11	10-24-68	R/W REVISION

INDEX FOR RIGHT-OF-WAY PLANS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	TYPICAL CROSS SECTIONS
4	PLAT NO. 1
5-9	PLAN & PROFILE
10-11	SUPER ELEVATION TRANSITION
12-16	SPECIAL DETAILS
17	APPROACH TABLE

STATE HIGHWAY DEPARTMENT OF INDIANA.
STANDARD SPECIFICATIONS DATED 1969
TO BE USED WITH THESE PLANS.

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
PROJECT NO. F-74 (50) P.E. (51) R/W (52) CONST.

BEGINNING AT A POINT, IN WABASH TOWNSHIP, 65.00 FEET NORTHERLY OF U.S. NO. 52, A DISTANCE OF 2086.72 FEET NORTHERLY AND 3260.55 FEET WESTERLY FROM THE SOUTHWEST CORNER OF SECTION 9, T-23-N, R-4-W, FAIRFIELD TOWNSHIP, THENCE RUNNING IN A EASTERLY AND IN A SOUTHEASTERLY DIRECTION A DISTANCE OF 8634.81 FEET MORE OR LESS TO A POINT ON U.S. NO. 52, IN FAIRFIELD TOWNSHIP, SAID POINT BEING 66.10 FEET SOUTHWESTERLY OF U.S. NO. 52 A DISTANCE OF 727.43 FEET SOUTHERLY AND 4637.07 FEET SOUTHEASTERLY FROM THE SOUTHWEST CORNER OF SECTION 9, T-23-N, R-4-W, FAIRFIELD TOWNSHIP, ALL IN TIPPECANOE COUNTY, INDIANA.

GROSS LENGTH:- 1.635 MI.
NET LENGTH:- 1.272 MI.

SCALES:-
PLAN { LONG:- 1" = 100', 50'; TRANS:- 1" = 100', 50' }
PROFILE { HORIZ:- 1" = 100', 50'; VERT:- 1" = 10' }

MAX. GRADE 6.00%

LEGEND

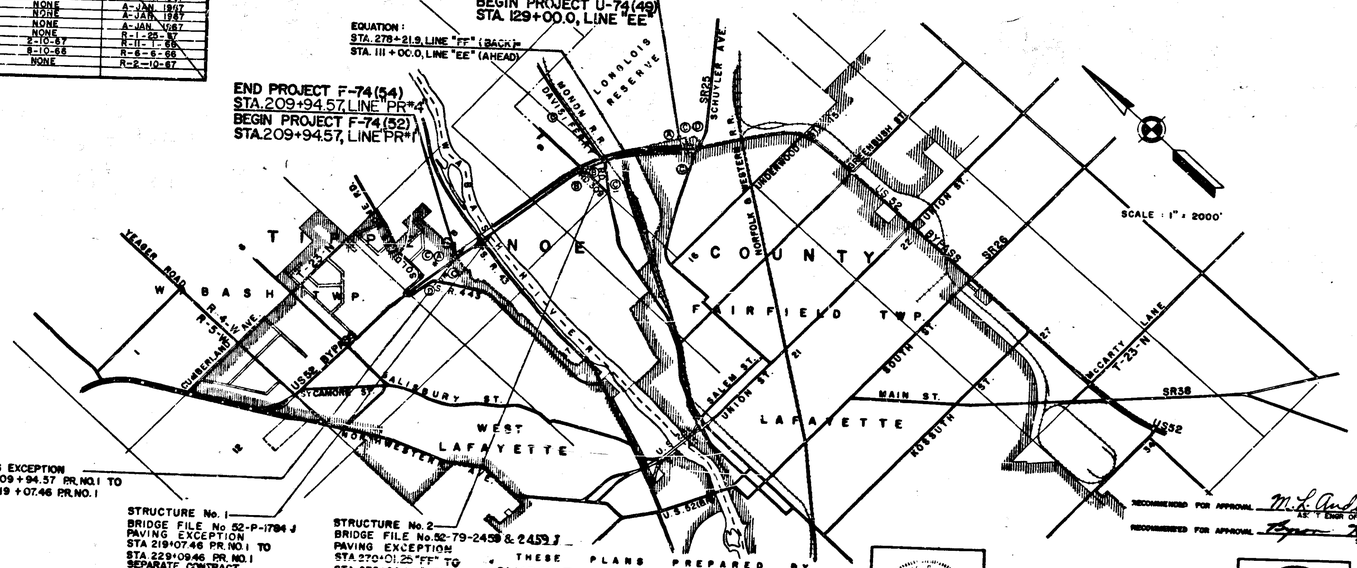
Ⓐ STD. BARRICADE TYPE "A"
Ⓑ STD. BARRICADE TYPE "B"
Ⓒ CONSTRUCTION SIGN TYPE "A"
Ⓓ CONSTRUCTION IDENTIFICATION SIGN

DESIGN DATA		
A.D.T. (1967)	28800	V.P.D.
A.D.T. (1967) PROJECTED	32650	V.P.D.
D.H.V. (1985)	2600	V.P.H.
DIRECTIONAL DISTRIBUTION	50	%
TRUCKS AOT & DHV	8	%
DESIGN SPEED	40	M.P.H.
ACCESS CONTROL		PARTIAL

STRUCTURE No. 1
BRIDGE FILE No. 52-P-1784-J
PAVING EXCEPTION
STA. 219+07.46 TO STA. 229+09.46 (LEFT LANE) PR. NO. 1
SEPARATE CONTRACT

STRUCTURE No. 2
BRIDGE FILE No. 52-79-2459J
PAVING EXCEPTION
STA. 270+01.25 TO STA. 275+26.50 (LEFT LANE) LINE "FF"

NOTE: R/W AS SHOWN ON THESE PLANS INCLUDES THE REQUIRED R/W FOR THE STRUCTURES OVER THE WABASH RIVER AND OVER THE MONON RAILROAD.



THESE PLANS PREPARED BY
CLYDE E. WILLIAMS & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS
SOUTH BEND INDIANAPOLIS
CERTIFIED Charles R. Hoskins DATE 4-10-68

APPROVED 5-22-68
CHIEF ENGINEER - INDIANA STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL M. L. Anderson ASS'T ENGR. OF PLANS AND SPECIFICATIONS DATE: 5-9-68
RECOMMENDED FOR APPROVAL Byron E. Jarrel SQUAD CHIEF DATE: 5-8-68

RECOMMENDED FOR APPROVAL 5 13 68
ENGINEER OF PLANS AND SPECIFICATIONS
INDIANA STATE HIGHWAY COMMISSION

FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION:
APPROVED
DIVISION ENGINEER DATE

ROAD FILE:-

November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-74(52)	FF	1	184	

UTILITIES

SEE SHEET NO. 7 FOR UTILITIES

REVISIONS

SHEET NO.	DATE	REVISED
SEE SHEET NO. 1 FOR REVISIONS		

GENERAL NOTES

**	Standard divided lane sections for Federal Aid **PRIMARY** Projects **R-12-3-68** as shown on Sheet No. **2** to be used on this project. **Except a 13'-0" cut ditch shall be used.**
	Standard ramp section ______ to be used on this project. Pavement thickness shall be ____".
	Standard single lane pavement sections ______ as shown on Sheet No.____ to be used on this project.
**	A 10" R.C. Pavement shall be used.
**	**Standard Sheet "A", May 1967 for Reinf. Conc. Mesh as shown on Sheet No. 6 to be used on this project.**
**	Typical cross-section as shown on Sheets No. **3 & 4** to be used on this project.
**	Standards under dates as listed in the Index on this Sheet to be used on this project.
**	Grade line as shown on profile represents top of finished surface.
**	All Ditches of 1% grade and over shall be sodded except where ditch is in rock cut or where Paved Side Ditch is to be constructed.
**	Sodding shall be placed as shown on Standard and Typical Cross-Sections and on Miscellaneous Standard Sheet "MB"
**	All Earth Shoulders, Median Area, Cut, and Fill slopes shall be plain or mulched seeded except where sodding is specified.
**	Overhaul and Added Haul Quantities as shown in the Balances are for information only.
	Excavation Quantities as shown include estimated excavation for Public and Private Approaches. See Table on Sheet No.
	The final Cross-Sections of the "Grading Contract" shall be the original cross-sections of the "Paving Contract" except that partial or complete cross-sections shall be taken if necessary to determine the actual quantities of Excavation.
**	Paper Relocation is to be cross-sectioned by the Project Engineer before construction.
	Where existing surface is located outside the Limits of new construction between Sta.______ and Sta.______ the contractor will be required to remove the present roadway surface and base as directed by the Engineer.
	Quantities for Pipe Culvert Headwalls are based on using Standard Headwalls for retaining 2:1 or 3:1 slopes, and Private Drive Headwalls for retaining 4:1 or flatter slopes.
**	For "Kinds of Pipe" permitted for each size and classification as shown on the Structure Data Sheet, see Miscellaneous Standard Sheet "MP". **Structure lengths shown in Structure Notes do not include Connections.**
	Such part of existing downspout drains that are disturbed by replacing the curb shall be replaced and connected as directed by the Engineer. Payment for this work shall be included in the Contract unit price for ______ Curb."
**	The minimum grade for **Under** Drains shall be 0.20%. Where the profile grade is less than 0.20%, special grades for **Under** Drains shall be established by the Engineer.
**	The Contractor must accept the plan quantities of Subbase as given on the Estimate of Quantities Sheet. **(1)**
**	**County Road Davis Ferry shall have 4" "Edge Lines" and "Skip Center Line"** [illegible] **and "Yellow Barrier Lines" shall be placed as shown on plans.**
**	All Limited Access R/W (L.A. R/W) **not to be fenced.**
**	Curves shall be Superelevated according to the Standards of ______ (Except Special "Super-Transitions" shall be detailed on Sheet No. **12 & 13**).
**	A Keyway Joint is to be constructed on Median side of each pavement.
**	Contraction Joints shall be placed at all manholes within pavement limits.
**	Contraction Joints shall be placed at the beginning and end of all radii, at street and alley intersections.
**	When Guard Rail Type "A" is called for on this project the Contractor shall use the Steel Beam section only.
**	When Guard Rail Type "B" is called for on this project the Contractor shall have the option of using either the Steel Beam Section, the Semi Ellipse Aluminum Tubular Section or the Steel Tubular Section.
	When Guard Rail Type "C" is called for on this project the Contractor shall have the option of using either the Steel Beam Section, the Semi Ellipse Aluminum Tubular Section or the Steel Tubular Section.
**	When Guard Rail Type "D" is called for on this project the Contractor shall have the option of using either the Steel Beam Section, or the Semi Ellipse Aluminum Tubular Section.
	When Guard Rail Type "E" is called for on this project the Contractor shall have the option of using either the Steel Beam Section, the Semi Ellipse Aluminum Tubular Section or the Steel Tubular Section.
	When Guard Rail Type "F" is called for on this project the Contractor shall have the option of using either the Steel Beam Section, the Semi Ellipse Aluminum Tubular Section or the Steel Tubular Section.
**	When Guard Rail Type "G" is called for on this project the Contractor shall have the option of using either, the Semi Ellipse Aluminum Tubular Section or the Steel Tubular Section.
	When Guard Rail Type "H" is called for on this project the Contractor shall have the option of using either, the Semi Ellipse Aluminum Tubular Section or the Steel Tubular Section.
	Wherever reference is made, on the design plans to Subbase Type I or II or Subbase Type III, this reference is to be interpreted as "Subbase" and the materials required will conform to the "Supplemental Specification for Subbase".
**	**Special Ditches on the right are plotted 10' below datum on Plan & Profile Sheets except as noted.**
**	**Special Median and Center Ditches are plotted 10' above datum on P.&P. Sheets except as noted.**
**	**All ditches on this project shall be 3' bottom except where specified.**
**	**Sodding quantities shown on summary sheet include Underdrain outlet sodding not shown on P.&P. Sheets.**
**	**Culvert Pipe End Sections shall be used on Structures of 36" diameter and smaller.**
**	**Base and Surface construction depth thickness for private and commercial drives to be as shown on Table of Quantities for Approaches, Sheet No. 20.**
**	(1) subject to the conditions as set out in 304.07 of the Standard Specifications.
**	The quantity "Crown Vetch Seeding", shown on the Estimate of Quantities Sheet is to be used at those locations where the slopes are 2:1 or steeper or in an area requiring sand cut or sand fills or as directed by the Engineer.

** REPRESENTS GENERAL NOTES REQUIRED

R/W INDEX

SHEET NO.	DESIGNATION
	SEE SHEET NO. 1 FOR R/W INDEX

INDEX

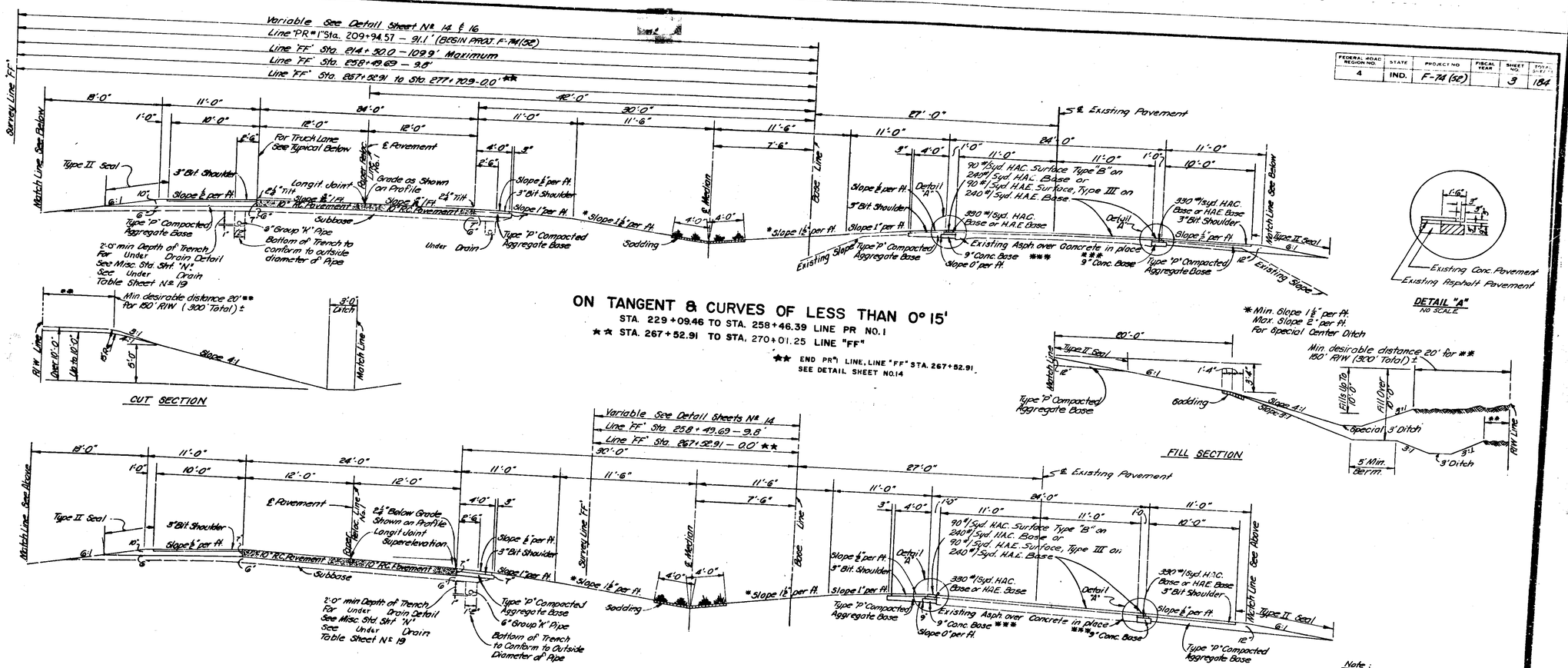
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	F-74 (52)		1-A	184

SHEET NO.	DESIGNATION	B.P.R. APPROVAL	DATE ADOPTED "A" or LATEST REVISION "R"
1	TITLE SHEET		
1-A	INFORMATION SHEET		
2	ST'D DIV. LANE (I.S.H.C.)		
	ST'D DIV. LANE ( )	2-26-69	R-12-3-68
	ST'D DIV. LANE ( )		
	ST'D SINGLE LANE PAVEMENT SECTIONS		
3,4	TYPICAL CROSS SECTION		
	ST'D RAMP SECTION		
5	PLAT NO. 1		
	ST'D CONT. REINF. CONC. PAV'T. SHEET "CRC-A"		
	ST'D CONT. REINF. CONC. PAV'T. SHEET "CRC-B"		
6	ST'D PAVEMENT JOINTS SHEET "A"		
	FLAT NO.		
7-11	PLAN AND PROFILE	2-6-70	R-11-3-69
12-19	DETAILS		
20	TABLE OF QUANTITIES		
21	STRUCTURE DATA		
	DEMOLITION PORTION ITEMS		
22,23	ESTIMATE OF QUANTITIES		
24	MISCELLANEOUS STANDARDS, SHEET "MA"		
	MISCELLANEOUS STANDARDS, SHEET "MA-1"	6-27-69	R-4-1-69
	MISCELLANEOUS STANDARDS, SHEET "MA-2"		
25	MISCELLANEOUS STANDARDS, SHEET "MB"		
25A	MISCELLANEOUS STANDARDS, SHEET "MB-1"	1-26-70	R-12-1-69
26	MISCELLANEOUS STANDARDS, SHEET "MB-2"		
26A	MISCELLANEOUS STANDARDS, SHEET "MC"	4-21-69	R-10-15-68
27	MISCELLANEOUS STANDARDS, SHEET "MC-1"	*	R-9-18-69
27A	MISCELLANEOUS STANDARDS, SHEET "MD"	*	R-9-18-69
28	MISCELLANEOUS STANDARDS, SHEET "MD-1"	6-30-70	R-4-1-70
	MISCELLANEOUS STANDARDS, SHEET "MD-2"	6-30-70	R-4-1-70
	MISCELLANEOUS STANDARDS, SHEET "MD-3"	2-8-66	R-10-18-65
29	MISCELLANEOUS STANDARDS, SHEET "ME"		
29A	MISCELLANEOUS STANDARDS, SHEET "ME-1"	8-6-69	R-6-19-69
	MISCELLANEOUS STANDARDS, SHEET "ME-2"		
30	MISCELLANEOUS STANDARDS, SHEET "MG"	11-5-69	R-10-1-69
30A	MISCELLANEOUS STANDARDS, SHEET "MH"		
31	MISCELLANEOUS STANDARDS, SHEET "MH-2"	2-8-66	R-10-18-65
31A	MISCELLANEOUS STANDARDS, SHEET "MI"	6-23-69	R-4-1-69
	MISCELLANEOUS STANDARDS, SHEET "MI-1"	6-25-69	R-4-1-69
32	MISCELLANEOUS STANDARDS, SHEET "MJ"	6-18-69	R-4-1-69
33	MISCELLANEOUS STANDARDS, SHEET "MJ-1"		
33A	MISCELLANEOUS STANDARDS, SHEET "MN"	3-23-70	R-12-1-69
34	MISCELLANEOUS STANDARDS, SHEET "MN-1"	5-26-70	R-4-1-70
35	MISCELLANEOUS STANDARDS, SHEET [illegible]	5-26-70	R-4-1-70
	MISCELLANEOUS STANDARDS, SHEET "MP-1"	6-30-70	R-4-1-70
	MISCELLANEOUS STANDARDS, SHEET "MR"	4-9-70	R-2-2-70
	MISCELLANEOUS STANDARDS, SHEET "MS"		
36	MISCELLANEOUS STANDARDS, SHEET "MS-1"		
37	MISCELLANEOUS STANDARDS, SHEET "MT"		
	MISCELLANEOUS STANDARDS, SHEET "MT-1"	6-13-69	R-4-1-69
	MISCELLANEOUS STANDARDS, SHEET "MT-A"	1-20-70	R-9-2-69
38	MISCELLANEOUS STANDARDS, SHEET "MT-1B"		
39	MISCELLANEOUS STANDARDS, SHEET "MT-3"		
40	MISCELLANEOUS STANDARDS, SHEET "MT-6B"	1-21-70	R-12-1-69
	MISCELLANEOUS STANDARDS, SHEET "MT-7"	*	R-4-1-69
	MISCELLANEOUS STANDARDS, SHEET "MV"	1-21-70	A-11-1969
	MISCELLANEOUS STANDARDS, SHEET "MV-1"		
	MISCELLANEOUS STANDARDS, SHEET "MV-2"		
	MISCELLANEOUS STANDARDS, SHEET "MV-3"		
	MISCELLANEOUS STANDARDS, SHEET "MV-4"		
41	ST'D TR. CONN. FOR EXTENSION		
	ST'D R.C. BOX CULV.	1-26-60	A-5-1934
	ST'D R.C. BOX CULV. SK. END & WING DET. SK.		
	ST'D R.C. BOX CULV. SK. END & WING DET. SK.		
	ST'D R.C. CULV. W.O.F.		
	ST'D R.C. CULV. O.F.		
	ST'D R.C. CULV. W.O. SK.		
	ST'D R.C. CULV. O.F. SK.		
42	GUARD RAIL SHEET GR-1	*	R-7-1-70
43	GUARD RAIL SHEET GR-2	*	R-7-1-70
44	GUARD RAIL SHEET GR-3	*	R-7-1-70
	STEEL BEAM GUARD RAIL SHEET GR-3		
	ALUMINUM BEAM GUARD RAIL SHEET GR-3A		
45	GUARD RAIL SHEET GR-4	*	R-6-1-70
46	[illegible] DETAILS SHEET GR-5		R-2-2-70
47	[illegible] DETAILS SHEET GR-6		R-2-2-70
48	[illegible] SHEET GR 8		R-2-2-70
49	GUARD RAIL SHEET GR 9		R-2-2-70
50	GUARD RAIL SHEET GR 10	*	R-2-2-70
51	[illegible]	10-29-69	R-10-1-69
52	[illegible] SHEET 2	11-4-69	R-10-1-69
53	ST'D [illegible] SHEET 3	*	R-7-1-70
53A	[illegible] SHEET 3A	9-8-69	R-4-1-69
54	[illegible] SHEET 5	9-8-69	R-4-1-69
55	[illegible]		R-4-1-70
56	[illegible] ON SIGNS	6-27-69	R-4-1-69
57	BRIDGE STANDARD C1	6-30-70	R-5-15-70
58	BRIDGE STANDARD D	8-25-69	R-6-10-69
59	BRIDGE STANDARD BR1	*	R-2-2-70
60	BRIDGE STANDARD BR2	*	R-2-2-70
61	BRIDGE STANDARD BR3	*	R-2-2-70
62	BRIDGE STANDARD BR4	*	R-2-2-70
63	BRIDGE STANDARD R2A	9-30-69	R-8-20-69
64	BRIDGE STANDARD S1		R-5-1-70
65-184			

* B.P.R. APPROVAL PENDING

MAY, 1957

FEDERAL ROAD REGION NO.	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	F-74 (52)		3	184



TYPICAL CROSS SECTIONS

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

SUBMITTED FOR APPROVAL 5-13-68

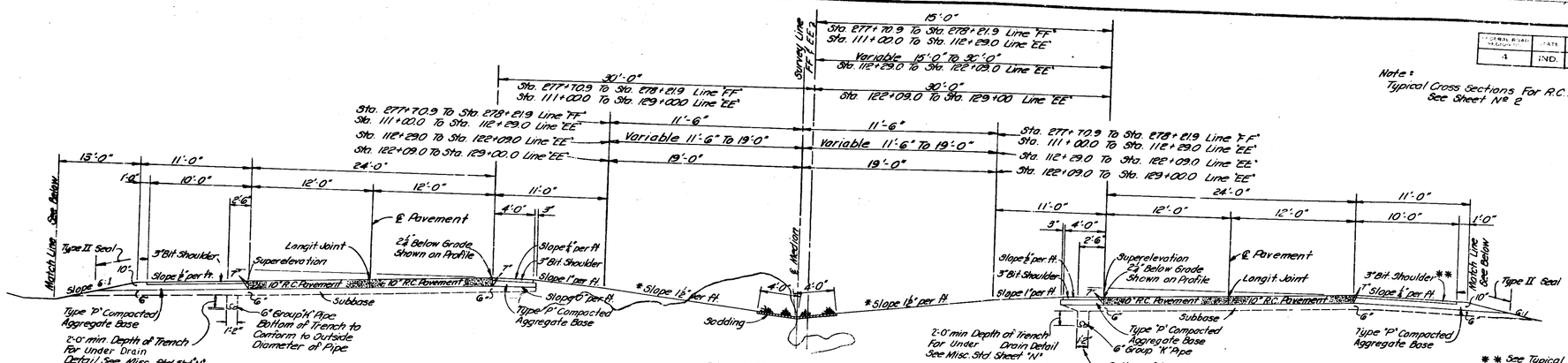
W. H. Behrens

SEPTEMBER 1963

F-74 (52) "FF" 3 184

FEDERAL ROAD REGION	STATE	PROJECT NO.	FEDERAL GRANT	SHEET NO.	TOTAL SHEETS
4	IND.	F-74 (52)		4	184

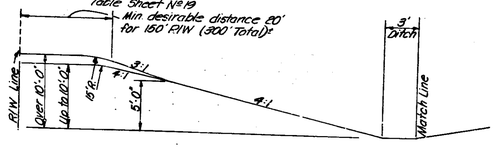
Note:
Typical Cross Sections For R.C. Pavement
See Sheet No 2



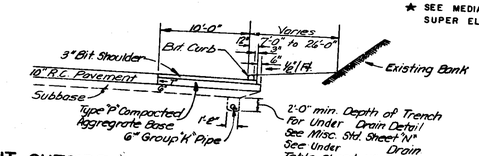
ON CURVES OF 0° 15' AND OVER★

STA. 275+26.5 TO STA. 278+21.9 LINE "FF"
STA. 111+00.0 TO STA. 129+00.0 LINE "EE"
SCALE: 3/16"=1'

★ SEE MEDIAN TRANSITION, SHEET NO. 15 AND SUPER ELEVATION TRANSITION, SHEET NO. 13

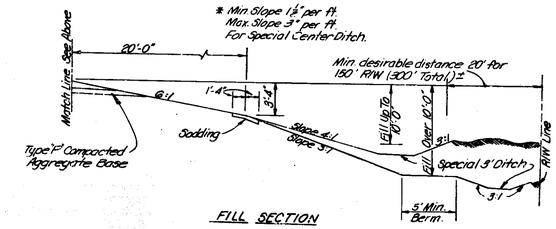


CUT SECTION

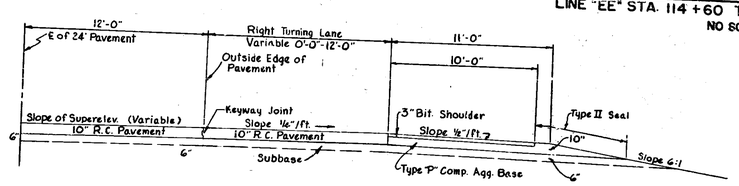


RIGHT OUTSIDE SHOULDER EAST BOUND LANE

LINE "EE" STA. 114+60 TO STA. 121+25
NO SCALE

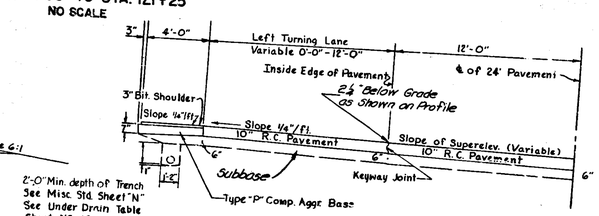


FILL SECTION



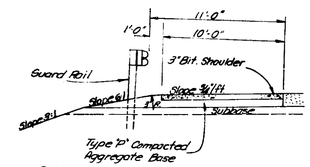
RIGHT TURNING LANE

ON CURVES OF 0°15' AND OVER
DRIVES STA. 263+50 LT.
SCALE: 1/4"=1'



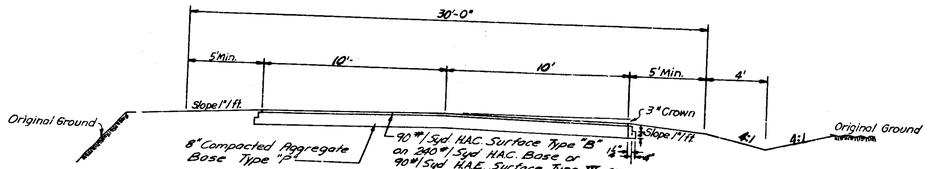
LEFT TURNING LANE

ON CURVES OF 0° [illegible] OVER
9 Th. STRE[illegible]
"S-5-FF"
SCALE: 1/4"=1'



GUARD RAIL DETAIL WITHOUT CURB

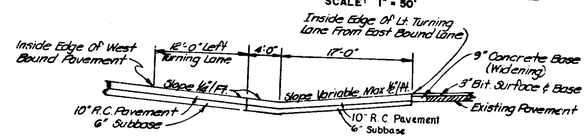
SCALE: 1" = 50'



TYPICAL SECTION-DAVIS FERRY ROAD

STA. 45+00 TO STA. 52+50 *
SCALE: 1/4"=1'

* For Super Elevation Transition Sta. 47+39.51 to Sta. 52+47.5 See Sheet No. 12



PUBLIC ROAD CROSSOVER

9 Th. STREET - "S-5-FF"
SCALE: 1/8"=1'

TYPICAL CROSS SECTIONS

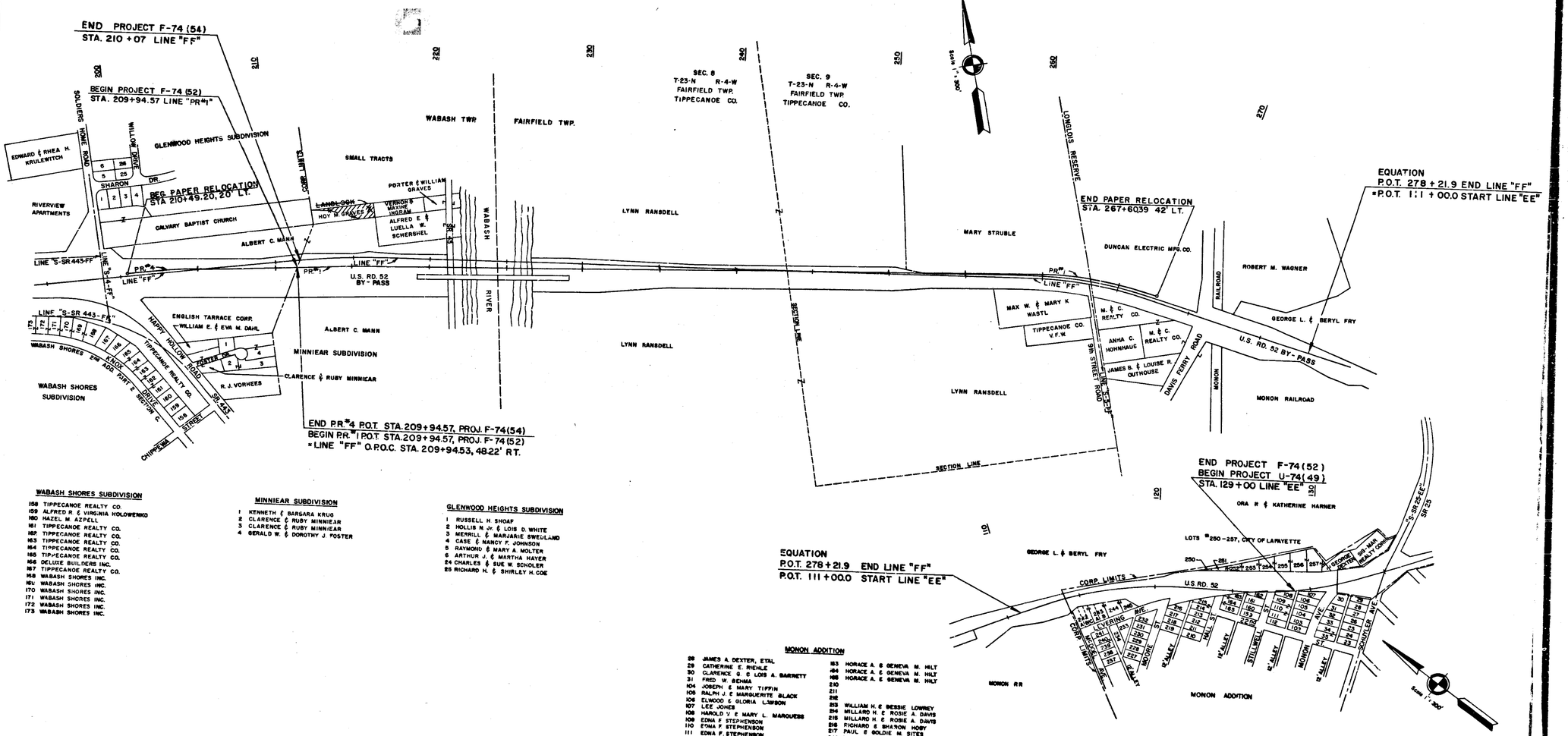
SCALE: AS SHOWN

SUBMITTED FOR APPROVAL 5-13-68
W A Behrens

SEPTEMBER 1963

F-74 (52) "FF" 4 184

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	F-74(52)		5	184



WABASH SHORES SUBDIVISION

158 TIPPECANOE REALTY CO.
159 ALFRED R. & VIRGINIA HOLOWENKO
160 HAZEL M. AZPELL
161 TIPPECANOE REALTY CO.
162 TIPPECANOE REALTY CO.
163 TIPPECANOE REALTY CO.
164 TIPPECANOE REALTY CO.
165 TIPPECANOE REALTY CO.
166 DELUXE BUILDERS INC.
167 TIPPECANOE REALTY CO.
168 WABASH SHORES INC.
169 WABASH SHORES INC.
170 WABASH SHORES INC.
171 WABASH SHORES INC.
172 WABASH SHORES INC.
173 WABASH SHORES INC.

MINNIEAR SUBDIVISION

1 KENNETH & BARBARA KRUG
2 CLARENCE & RUBY MINNIEAR
3 CLARENCE & RUBY MINNIEAR
4 GERALD W. & DOROTHY J. FOSTER

GLENWOOD HEIGHTS SUBDIVISION

1 RUSSELL H. SHOAF
2 HOLLIS N. Jr. & LOIS D. WHITE
3 MERRILL & MARJARIE SWEDLAND
4 CASE & NANCY F. JOHNSON
5 RAYMOND & MARY A. MOLTER
6 ARTHUR J. & MARTHA HAYER
24 CHARLES & SUE W. SCHOLER
25 RICHARD H. & SHIRLEY H. COE

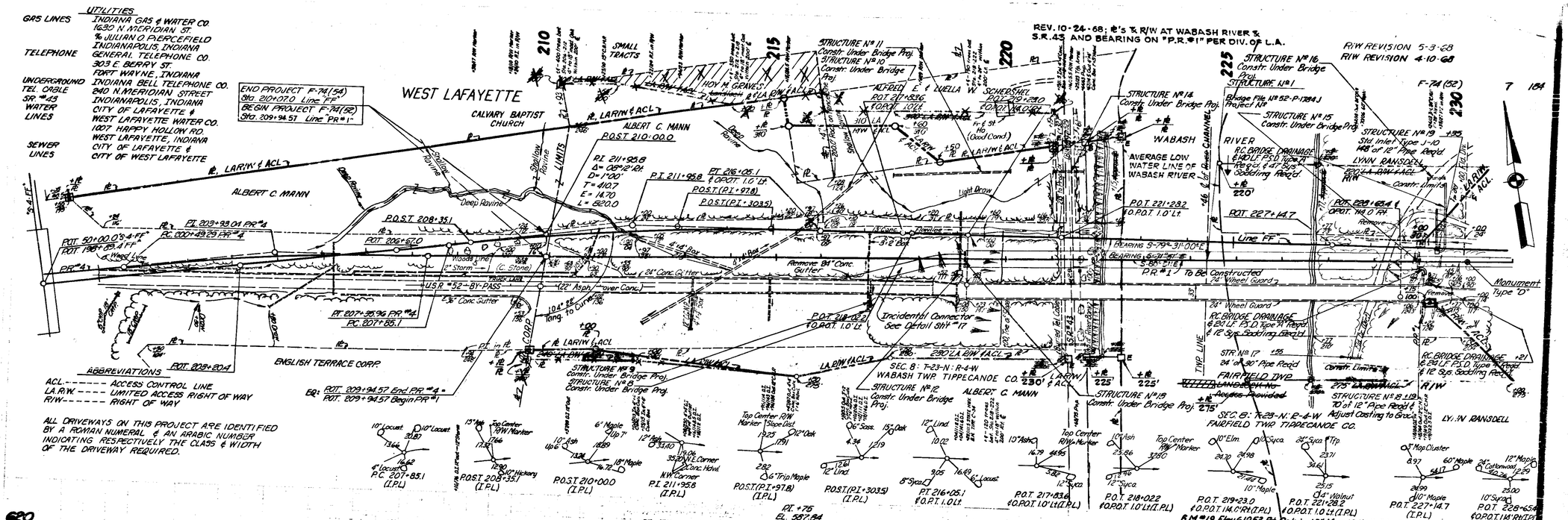
MONON ADDITION

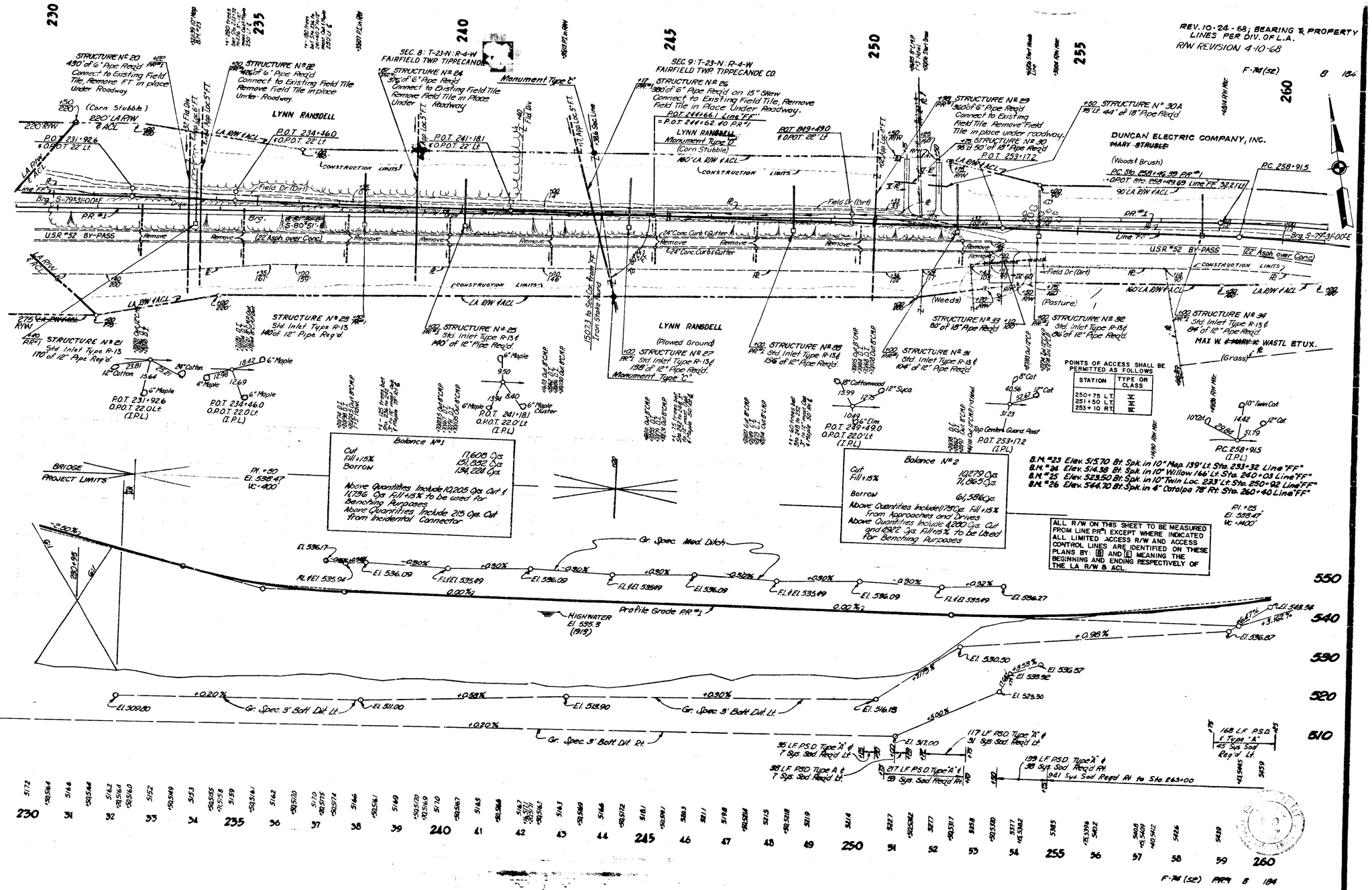
28 JAMES A. DEXTER, ETAL
29 CATHERINE E. RIEHLE
30 CLARENCE G. & LOIS A. BARNETT
31 FRED W. BEHMA
104 JOSEPH & MARY TIFFIN
105 RALPH J. & MARGUERITE BLACK
106 ELWOOD & GLORIA LAWSON
107 LEE JONES
108 HAROLD V. & MARY L. MARQUESS
109 EDNA F. STEPHENSON
110 EDNA F. STEPHENSON
111 EDNA F. STEPHENSON
159
160 GERALD W. & ROSE M. DAVIS
161 GEORGE W. & ANTOINETTE BURROUGHS
162 WILLIAM C. & SILVIA DAVIS
163 HORACE A. & GENEVA M. HILT
164 HORACE A. & GENEVA M. HILT
165 HORACE A. & GENEVA M. HILT
210
211
212
213 WILLIAM H. & BESSIE LOWREY
214 MILLARD H. & ROSIE A. DAVIS
215 MILLARD H. & ROSIE A. DAVIS
216 RICHARD & SHARON HOBY
217 PAUL & GOLDIE M. SITES
242-A EDGAR H. & VIVIAN L. NEAL
242-B JERRY E. MURENT
242-C MERL A. & NORMA J. HOWARD
243-A MERL A. & NORMA J. HOWARD
243-B ELIZABETH & SETH CARAHOFF
244 ELIZABETH & SETH CARAHOFF
245 ELIZABETH & SETH CARAHOFF

PLAT #1 FOR DESIGN DEPT

CLYDE E. WILLIAMS & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS
SOUTH BEND — INDIANAPOLIS

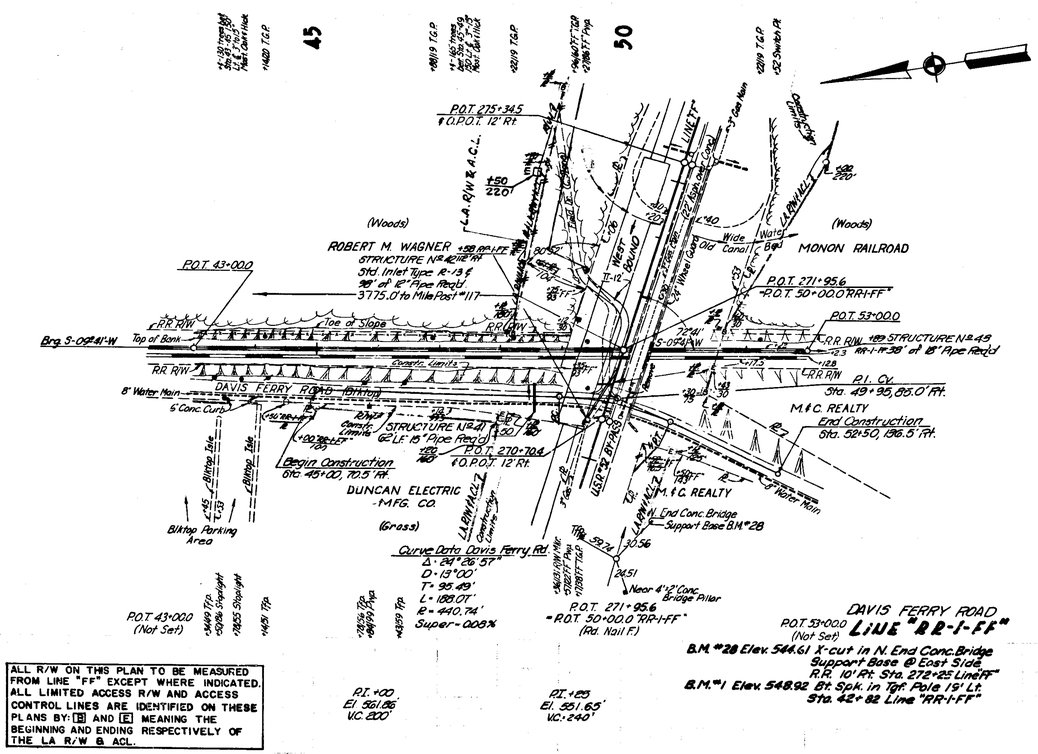
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-74(52)	FF	5	184	


UTILITIES
GAS LINES INDIANA GAS & WATER CO. 1630 N. MERIDIAN ST. % JULIAN O. PIERCEFIELD INDIANAPOLIS, INDIANA
TELEPHONE GENERAL TELEPHONE CO. 303 E. BERRY ST. FORT WAYNE, INDIANA
UNDERGROUND TEL. CABLE INDIANA BELL TELEPHONE CO. 240 N. MERIDIAN STREET INDIANAPOLIS, INDIANA
WATER LINES CITY OF LAFAYETTE & WEST LAFAYETTE WATER CO. 1007 HAPPY HOLLOW RD. WEST LAFAYETTE, INDIANA
SEWER LINES CITY OF LAFAYETTE & CITY OF WEST LAFAYETTE
END PROJECT F-74(54) Sta. 210+07.0 Line "FF"
BEGIN PROJECT F-74(52) Sta. 209+94.57 Line "PR #1"
WEST LAFAYETTE
CALVARY BAPTIST CHURCH
ALBERT C. MANN
ENGLISH TERRACE CORP.
SMALL TRACTS
WABASH RIVER
AVERAGE LOW WATER LINE OF WABASH RIVER
FAIRFIELD TWP.
LYNN RANSDELL
REV. 10-24-68; ℄'s & R/W AT WABASH RIVER & S.R. 43 AND BEARING ON "P.R. #1" PER DIV. OF L.A.
R/W REVISION 5-3-68
R/W REVISION 4-10-68
ABBREVIATIONS
ACL ------ ACCESS CONTROL LINE
LA R/W ---- LIMITED ACCESS RIGHT OF WAY
R/W ------ RIGHT OF WAY
ALL DRIVEWAYS ON THIS PROJECT ARE IDENTIFIED BY A ROMAN NUMERAL & AN ARABIC NUMBER INDICATING RESPECTIVELY THE CLASS & WIDTH OF THE DRIVEWAY REQUIRED.
GENERAL NOTES:
1. STD. SHEET 'A', MAY 1967 FOR REINF. CONCRETE MESH AS SHOWN ON SHEET Nº 6 TO BE USED ON THIS PROJECT.
2. TYPICAL CROSS-SECTION AS SHOWN ON SHEETS Nº 9 & 14 TO BE USED ON THIS PROJECT.
3. INDIANA STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS DATED 1963 TO BE USED WITH THESE PLANS.
4. STANDARDS UNDER DATES AS LISTED IN THE INDEX ON THE TITLE SHEET TO BE USED ON THIS PROJECT.
5. GRADE LINE AS SHOWN ON PROFILE REPRESENTS TOP OF FINISHED SURFACE.
6. ALL DITCHES OF 1% GRADE AND OVER SHALL BE SODDED EXCEPT WHERE PAVED SIDE DITCH IS TO BE CONSTRUCTED.
7. SPECIAL DITCHES ON THE RIGHT ARE PLOTTED 10' BELOW DATUM ON PLAN & PROFILE SHEETS EXCEPT AS NOTED.
8. SPECIAL MEDIAN AND CENTER DITCH GRADES ARE PLOTTED 10' ABOVE DATUM ON PLAN & PROFILE SHEETS EXCEPT WHERE NOTED.
9. ALL DITCHES ON THIS PROJECT SHALL BE 3' BOTTOM EXCEPT WHERE SPECIFIED.
10. SODDING SHALL BE PLACED AS SHOWN ON STD. & TYPICAL X-SECTIONS & ON MISCELL STD. SHEET "NB"
11. SODDING QUANTITIES SHOWN ON SUMMARY SHEET INCLUDE SUBGRADE DRAIN OUTLET SODDING NOT SHOWN ON PLAN & PROFILE SHEETS.
12. ALL EARTH SHOULDERS, CUT & FILL SLOPES SHALL BE MULCHED SEEDED EXCEPT WHERE SODDING IS SPECIFIED.
13. OVERHAUL AND ADDED HAUL QUANTITIES AS SHOWN IN THE BALANCES ARE FOR INFORMATION ONLY. (SEE SPECIAL PROVISION)
14. EXCAVATION QUANTITIES AS SHOWN INCLUDE ESTIMATED EXCAVATION FOR PUBLIC AND PRIVATE APPROACHES. (SEE TABLE ON SHEET Nº 19)
15. CULVERT PIPE END SECTIONS SHALL BE USED ON STRUCTURES OF 36" DIA. AND SMALLER.
16. FOR KINDS OF PIPE PERMITTED FOR EACH SIZE AND CLASSIFICATION AS SHOWN ON THE STRUCTURE DATA SHEET, SEE MISC. STANDARD SHEET Nº3 STRUCTURE LENGTHS SHOWN IN STRUCTURE NOTES DO NOT INCLUDE CONNECTIONS.
17. THE MINIMUM GRADE FOR SUBSURFACE DRAINS SHALL BE 0.20% WHERE THE PROFILE GRADE IS LESS THAN 0.20%. SPECIAL GRADES FOR SUBSURFACE DRAINS SHALL BE ESTABLISHED BY THE ENGINEER.
18. THE CONTRACTOR MUST ACCEPT THE PLAN QUANTITIES OF SUBBASE AS GIVEN ON THE ESTIMATE OF QUANTITIES SHEET. (SEE SPECIAL PROVISIONS)
19. ALL LIMITED ACCESS R/W (L.A. R/W) NOT TO BE FENCED.
20. ON THE TYPICAL SECTIONS, (URBAN) REFERS TO A CURBED SECTION & (RURAL) REFER TO A NON-CURBED SECTION.
21. CONTRACTION JOINTS SHALL BE PLACED AT ALL MANHOLES WITHIN PAVEMENT LIMITS.
22. ALL CURVES SHALL BE SUPERELEVATED IN ACCORDANCE WITH TRANSITION DIAGRAMS, SHOWN ON SHEET Nºs 12 & 18
23. BASE & SURFACE CONSTRUCTION DEPTH THICKNESS, FOR PRIVATE & COMMERCIAL DRIVES, TO BE AS SHOWN ON TABLE OF QUANTITIES FOR APPROACHES, SHEET Nº 20
24. WHERE EXISTING SURFACE IS LOCATED OUTSIDE THE LIMITS OF NEW CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO REMOVE THE PRESENT ROADWAY SURFACE AND BASE AS INDICATED ON THE PLANS & AS DIRECTED BY THE ENGINEER.
25. A KEYWAY JOINT IS TO BE CONSTRUCTED ON MEDIAN SIDE OF EACH PAVEMENT.
26. CONTRACTION JOINTS SHALL BE PLACED AT THE BEGINNING & END OF ALL RADII, AT STREET & ALLEY INTERSECTIONS.
27. WHEN GUARD RAIL TYPE 'B' IS CALLED FOR ON THIS PROJ. THE CONTRACTOR SHALL HAVE THE OPTION OF USING EITHER THE STEEL BEAM SECT., THE SEMI-ELLIPSE ALUM. TUBULAR SECT. OR THE STEEL TUBULAR STEEL.
28. WHEN GUARD RAIL TYPE 'D' IS CALLED FOR ON THIS PROJECT THE CONTRACTOR SHALL THE OPTION OF USING EITHER THE STEEL BEAM SECT. OR THE SEMI-ELLIPSE ALUMINUM TUBULAR SECTION.
29. WHEN GUARD RAIL TYPE 'E' IS CALLED FOR ON THIS PROJECT THE CONTRACTOR SHALL HAVE THE OPTION OF USING EITHER THE SEMI-ELLIPSE ALUM. TUBULAR SECTION OR THE STEEL TUBULAR SECTION.
30. FOUR INCH (4") WHITE EDGE LINES & A WHITE SKID CENTERLINE SHALL BE PLACED ON DAVIS FERRY ROAD AS SET OUT IN THE SPECIAL PROVISIONS.
ALL R/W ON THIS SHEET TO BE MEASURED FROM LINE PR #1 EXCEPT WHERE INDICATED. ALL LIMITED ACCESS R/W AND ACCESS CONTROL LINES ARE IDENTIFIED ON THESE PLANS BY: B AND E MEANING THE BEGINNING AND ENDING RESPECTIVELY OF THE L.A. R/W & ACL.
GRADING FROM THE BEGINNING OF THE PROJECT TO STA. 215+60 WILL BE CONSTRUCTED UNDER PROJECT F-74(54). GRADING WITHIN THE LIMITS OF THE BRIDGE CONTRACT & GRADING FOR THE INCIDENTAL CROSSOVER WEST OF THE RIVER WILL BE CONSTRUCTED UNDER THE BRIDGE PROJECT. No PERMANENT CONSTRUCTION OR GRADING, WITH THE EXCEPTION OF THE FINISHED GRADING OF THE INCIDENTAL CROSSOVER, WILL BE PERFORMED WEST OF THE RIVER UNDER THIS PROJECT. (SEE SPECIAL PROVISIONS)
Profile of Existing Pavement in Place
Profile Grade PR #1
BRIDGE PROJECT LIMITS
Highwater Elev. 533.3 (1913)
PAVING EXCEPTION PAVED UNDER PROJECT F-74(54)
530 L.F. Guard Rail Type B Reqd on Outside Shoulder of Temp. Connector (See Typical Section Sheet 17)
50 Tons Dumped Rip Rap Reqd At Outlet End of Ditch
Gr. Spec. 9" Bott. Dit. Rt. (Plotted 10' Above Datum)
B.M. #19 Elev. 619.53 Bt. Spk. in 10" Map. 184' Rt. Sta. 210+40 Line "FF"
B.M. #21 Elev. 525.56 Bt. Spk. in 18" Walnut 206' Rt. Sta. 221+30 Line "FF" (West Bank of Wabash River)
B.M. #22 Elev. 519.25 Bt. Spk. in 10" Cottonwood 156' Rt. Sta. 228+00 Line "FF"
F-74 (52) PR #1 7 184


REV. 10-24-68; BEARING & PROPERTY LINES PER DIV. OF L.A.
R/W REVISION 4-10-68
F-74 (52) 8 184
SEC. 8: T-23-N: R-4-W
FAIRFIELD TWP TIPPECANOE
SEC. 9: T-23-N: R-4-W
FAIRFIELD TWP TIPPECANOE CO.
LYNN RANSDELL
DUNCAN ELECTRIC COMPANY, INC.
MARY STRUBLE
STRUCTURE No. 20
STRUCTURE No. 22
STRUCTURE No. 24
STRUCTURE No. 26
STRUCTURE No. 29
STRUCTURE No. 30A
STRUCTURE No. 21
STRUCTURE No. 23
STRUCTURE No. 25
STRUCTURE No. 27
STRUCTURE No. 28
STRUCTURE No. 31
STRUCTURE No. 32
STRUCTURE No. 33
STRUCTURE No. 34
U.S.R. #52 BY-PASS
(22 Asph. over Conc.)
CONSTRUCTION LIMITS
L.A. R/W & ACL
Field Dr. (Dirt)
Monument Type "C"
(Corn Stubble)
(Plowed Ground)
(Weeds & Brush)
(Weeds)
(Pasture)
(Grass)
MAX W WASTL ETUX.
POINTS OF ACCESS SHALL BE PERMITTED AS FOLLOWS
STATION | TYPE OR CLASS
250+75 LT | RR
251+50 LT | RR
253+10 RT | RR
Balance No. 1
Cut 17,608 Cys.
Fill +15% 151,832 Cys.
Borrow 134,224 Cys.
Above Quantities Include 10,205 Cys. Cut & 11,736 Cys. Fill +15% to be used for Benching Approaches
Above Quantities Include 215 Cys. Cut from Incidental Connector
Balance No. 2
Cut 10,279 Cys.
Fill +15% 71,865 Cys.
Borrow 61,586 Cys.
Above Quantities Include 1,730 Cys. Fill +15% from Approaches and Drives
Above Quantities Include 4,200 Cys. Cut and 4,922 Cys. Fill +15% to be used for Benching Purposes
B.M. #23 Elev. 515.70 Bt. Spk. in 10" Map. 139' Lt. Sta. 233+32 Line "FF"
B.M. #24 Elev. 514.38 Bt. Spk. in 10" Willow 166' Lt. Sta. 240+03 Line "FF"
B.M. #25 Elev. 523.50 Bt. Spk. in 10" Twin Loc. 233' Lt. Sta. 250+92 Line "FF"
B.M. #26 Elev. 544.70 Bt. Spk. in 4" Catalpa 78' Rt. Sta. 260+40 Line "FF"
ALL R/W ON THIS SHEET TO BE MEASURED FROM LINE PR#1 EXCEPT WHERE INDICATED. ALL LIMITED ACCESS R/W AND ACCESS CONTROL LINES ARE IDENTIFIED ON THESE PLANS BY: B AND E MEANING THE BEGINNING AND ENDING RESPECTIVELY OF THE LA R/W & ACL.
BRIDGE PROJECT LIMITS
Gr. Spec. Med. Ditch
Profile Grade P.R. #1
HIGHWATER El. 595.3 (1913)
Gr. Spec. 3' Bott. Dit. Lt.
Gr. Spec. 3' Bott. Dit. Rt.
95 L.F. P.S.D. Type "A" & 7 Sys. Sod. Reqd. Lt.
95 L.F. P.S.D. Type A & 7 Sys. Sod. Reqd. Lt.
217 L.F. P.S.D. Type "A" & 39 Sys. Sod. Reqd. Rt.
117 L.F. P.S.D. Type "A" & 31 Sys. Sod. Reqd. Lt.
199 L.F. P.S.D. Type "A" & 38 Sys. Sod. Reqd. Rt.
941 Sys. Sod. Reqd. Rt. to Sta. 263+00
168 L.F. P.S.D. "A" Type "A" 45 Sys. Sod. Req'd. Lt.
F-74 (52) PR#1 8 184

FOR DETAILS STA. 259+00 TO STA. 268+00, SEE SHEET No. 14
SEE SHEET No. 11 FOR PLAN & PROFILE LINE "RR-1-FF" & "S-5-FF"
For Details of Temp. Cross
See Sheet No.
REV. 10-24-68; ℄ AND R/W ON LT. AT STA. 275 PER DIV. OF L.A.
F-74 (SE) 9 184
SEC. 9: T-23-N: R-4-W
FAIRFIELD TWP. TIPPECANOE CO.
MARY STRUBLE
DUNCAN ELECTRIC MFG. CO.
LONGLOIS RESERVE (Grass)
ROBERT M. WAGNER
GEORGE L. & BERYL FRY
M.&C. REALTY CO. (Weeds)
MAX W. & MARY K. WASTL
ANNA C. HOHNHAUS
MONON RAILROAD
LINE "FF"
Brg. S 79°31'00" E
PR #1
LINE "EE"
EAST BOUND
WEST BOUND
BY-PASS
PASSING
Monument Type "C"
Construction Limits
Remove
Gas Main
(22' Asph. over Conc)
(Weeds)
STRUCTURE No. 2
Structure To be Included in the Road Contract.
Bridge File No. 52-79-2459 J. (Westbound)
& Bridge File No. 52-79-2459 (Eastbound)
PAVEMENT REMOVAL
(STA. 269+72.25 To 270+34.75 "FF" = 153 Sys.)
(STA. 275+26.5 "FF" To 112+50 "EE" = 1088 Sys.)
PAVEMENT BREAKING
(STA. 112+50 To 113+50 "EE" = 844 Sys.)
POINTS OF ACCESS SHALL BE PERMITTED AS FOLLOWS
STATION | TYPE OR CLASS
262+90 LT. | II
263+04.4 RT. | ST. APPR.
263+50 LT. | IV
275+40 LT.* | V
* NO DIRECT ACCESS TO U.S. 52 ROADWAY
ALL R/W ON THIS SHEET TO BE MEASURED FROM LINE PR #1 OR "FF" EXCEPT WHERE INDICATED. ALL LIMITED ACCESS R/W AND ACCESS CONTROL LINES ARE IDENTIFIED ON THESE PLANS BY: ⊠ AND ⊡ MEANING THE BEGINNING AND ENDING RESPECTIVELY OF THE LA R/W & ACL.
B.M. #27 Elev. 547.65 Et. Spk. in 10" Ash 85' Rt. Sta. 260+40 Line "FF"
B.M. #28 Elev. 544.61 X-Cut in N. End Conc. Bridge Support Base East Side R.R. 10' Rt. Sta. 272+25 Line "FF"
STA. EQUATION
Eq. P.O.T. STA. 267+60.39 P.R. #1 Back
= O.P.O.T. STA. 267+52.91, 42' Lt. "FF" Ahead
See Detail Sheet No. 14
STA. EQUATION
Eq. P.O.T. STA. 278+21.9 Line "FF" Back
= P.O.T. STA. 111+00.0 Line "EE" Ahead
PROFILE GRADE P.R. #1
PROFILE GRADE LINE "FF"
PROFILE GRADE LINE "EE"
Profile Grade Line "FF"
Profile Grade Line "EE"
Gr. Spec. 3' Bott. Dit. Lt.
Gr. Spec. Med. Ditch
See Sheet No. 10 For Bit. Curb Reqd. Rt.
FOR TOPO AHEAD OF STA. 113+00 SEE FOLLOWING SHEET
F-74 (SE) PR #1 & FF EE 9 184

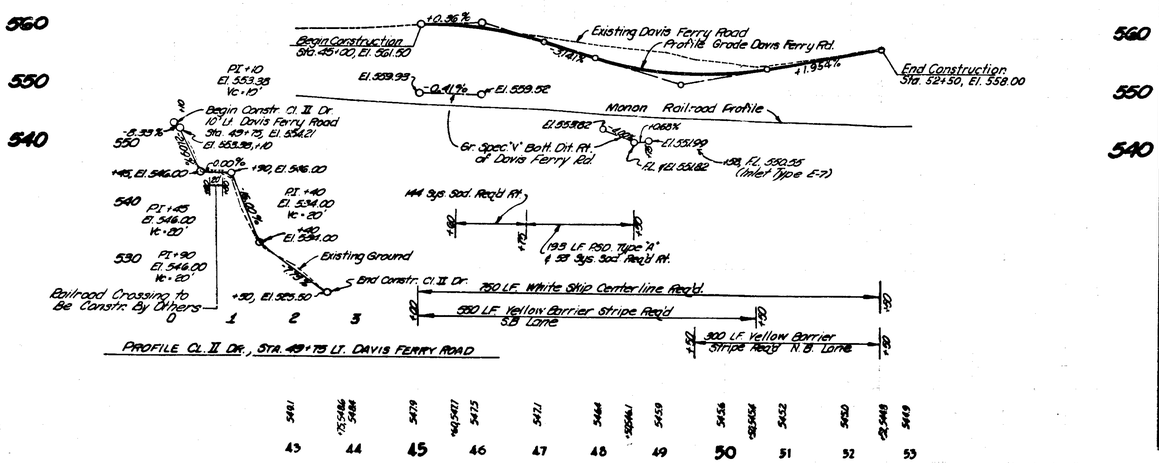
REV. 10-24-68; R/W PER DIV. OF L.
FEDERAL ROAD REGION NO. 4
STATE IND.
PROJECT NO. F-74 (52)
FISCAL YEAR
SHEET NO. 10
TOTAL SHEETS 184
GEORGE L. & BERYL FRY ETUX.
ORA PHILLIP HARNER ETUX.
Δ = 24°30' Rt.
D = 2°30'
T = 497.6
E = 53.40
L = 980.0
Construction Limits
STRUCTURE No. 51 Std. Inlet Type R-13 & 168' of 12" Pipe Reqd.
STRUCTURE No. 47 472' of 15" Pipe Reqd.
STRUCTURE No. 50 Std. Inlet Type S-14 & 4' of 12" Pipe Reqd.
STRUCTURE No. 49 Std. Inlet Type S-14 & 4' of 12" Pipe Reqd.
STRUCTURE No. 52 Std. Inlet Type S-14 & 4' of 12" Pipe Reqd.
STRUCTURE No. 53 Std. Inlet Type S-14 & 4' of 12" Pipe Reqd.
STRUCTURE No. 55 68' of 36" Pipe Reqd. Rt. & 195' of 36" Pipe Reqd. Lt. Reqd.
STRUCTURE No. 57 Std. Inlet Type F-7 Reqd. in Lt. Std. Ditch 180' of 18" Pipe Reqd.
SEE PROJECT U-74(48) R/W FOR RIGHT-OF-WAY ACQUISITION AHEAD
P.C. 125+52.05
CITY LIMITS
CITY OF LAFAYETTE
MONON ADDITION
END PROJECT F-74 (52) Sta. 129+00 Line EE
BEGIN PROJECT U-74 (48) Sta. 129+00 Line EE
Δ = 20°00' Lt.
D = 2°30'
L = 800'
T = 404.16'
E = 35.36'
P.O.C. 129+52.05
P.I. 117+28.0
P.I. 117+26.6
Between Sta. 116 to 119 there are approx. 375 trees mostly Ash & Elm within 100' Lt. ℄
Between Sta. 113 to 116 there are approx. 350 trees mostly Ash & Elm 3" to 8" within 100' Lt. ℄
Between Sta. 119 to 122 there are approx. 300 trees mostly Ash & Elm 3" to 12" within 100' Lt. ℄
Between Sta. 122 to 125 there are approx. 340 trees mostly Ash & Elm 3" to 12" within 150' Lt. of ℄
Between Sta. 125 to 128 there are approx. 310 trees mostly Ash & Elm 3" to 12" within 150' Lt. of ℄
Between Sta. 110 & 122 there are approx. 160 trees mostly Elm 3" to 10" within 150' Rt. ℄
Between Sta. 113 to 116 there are approx. 20 trees 3-6 Hackberry within 150' Rt. ℄
Between Sta. 116 & 119 there are 90 trees, mostly Elm 2" to 10" within 150' Rt. ℄
22' U.S. #52 (Asph. over Conc.)
Line "E.E."
LEVERING AVE.
ELIZABETH & SETH CARAHER
MERLA & NORMA HOWARD
JERRY L. & EDGARH. NURANTI
NATHAN L. NEAL
RICHARD E. & SHARON HOBY
PAUL & GOLDIE SITES
ROBERT G. BRUMMETT
MILLARD H. & ROSTIE DAVIS
HORACE A. & GENEVA M. HILT
GEORGE W. & ANTOINETTE BURROUGHS
GERALD W. & ROSIE M. DAVIS
WILLIAM H. & BESSIE LOWREY
HAROLD V. & MARY L. MARQUESS
LEDNA F. STEPHENSON
ELWOOD & GLORIA LAWSON
RALPH & MARGUERITE BLACK
MONON RAILWAY
CITY OF LAFAYETTE
Industrial Fence
Top of Bank
Top of Slope
Toe of Slope
Construction Limits
Temp. R/W For Bldg. Removal
NOTE: FOR PAVEMENT REMOVAL OF INCIDENTAL CONSTR. BUILT UNDER PROJ. U-74 (48) SEE DETAIL SHEET No. 17
ALL R/W ON THIS SHEET TO BE MEASURED FROM LINE "EE" EXCEPT WHERE INDICATED. ALL LIMITED ACCESS R/W AND ACCESS CONTROL LINES ARE IDENTIFIED ON THESE PLANS BY [B] AND [E] MEANING THE BEGINNING AND ENDING RESPECTIVELY OF THE L.A. R/W & ACL.
STRUCTURE No. 48 See Preceeding Sheet
STRUCTURE No. 54 Std. Inlet Type R-13 & 246' of 12" Pipe Reqd.
STRUCTURE No. 56 Std. Inlet Type R-13 & 78' of 12" Pipe Reqd.
STRUCTURE No. 58 Std. Manhole Type A-4 Reqd. on Existing 10" San. Sewer
Not Referenced.
P.O.C. 117+19.0 (I.P.L.)
P.I. 117+26.6 (I.P.L.)
P.O.S.T. P.I. +334.9 (I.P.L.)
P.T. 122+09.0 (Rd. Nail F.) = O.P.T. 12.0' Rt. (Rd. Nail F.)
P.C. 125+52.05 (I.P.L.)
P.O.C. 129+52.05 (I.P.L.)
P.I. 129+56.21 (I.P.L.)
Perm. ○ #3 Elev. 581.53 Bt. Spk. in Lamp Pole 262' Rt. Sta. 115+25
Perm. ○ #4 Elev. 534.58' "x" Cut in W. end Conc. Hdwl. 53' Rt. Sta. 116+21
Perm. ○ #5 Elev. 520.11 Bt. Spk. 8" Maple 92' Lt. Sta. 117+21
Perm. ○ #6 Elev. 583.45 "x" Cut in Rim on M.H. 184' Rt. Sta. 117+57
Perm. ○ #7 Elev. 520.99 Bt. Spk. 15" Twin Cottonwood 63' Lt. Sta. 120+03
Perm. ○ #8 Elev. 583.96 Bt. Spk. in Lamp Pole 127' Rt. Sta. 120+82
Perm. ○ #9 Elev. 575.56 Bt. Spk. in 8" Hackberry 50' Rt. Sta. 122+82
B.M. #1 Elev. 553.48 "x" Cut in West End Conc. Hdwl. 23' Rt. Sta. 122+46
B.M. #2 Elev. 553.48 "x" Cut in West End Conc. Hdwl. 23' Rt. Sta. 122+46
B.M. #3 Elev. 589.49 N.W. Cor. of Top Conc. Step 13' Rt. Sta. 128+53.
Balance No. #4
Cut 20,752 Cys
Fill +15% 277,942 Cys
Borrow 256,590 Cys
Above Quantities Include 4,943 Cys Cut and 5,600 Cys Fill +15% to be used for Benching Purposes
PROFILE OF TEMPORARY CONNECTOR CONSTRUCTED UNDER PROJ. U-74 (48)
℄ Profile Grade Line "EE"
Gr. Spec. 4" Bolt Dia. Lt. (Plotted 40' Above Datum)
Gr. Spec. 3" Bolt Dia. Rt.
Gr. 15" Sewer Rt.
Gr. 8" Sewer Rt.
Gr. 10" Sewer Rt.
Outlet 15" Sewer Ditch Rt. +30 El. 562.50
665 L.F. Bit. Curb Reqd. Rt.
36A Sys. Sodding Reqd. Lt.
999 Sys. Sod Reqd. Rt.
END PROJ. F-74 (52) CONSTR. STA. 129+00 LINE EE
PLATE 3 PLAN-PROFILE B.R.R. STANDARDS
November 6, 1961
PROJECT NO. F-74 (52)
LINE EE
SHEET NO. 10
TOTAL SHEETS 184
FILE



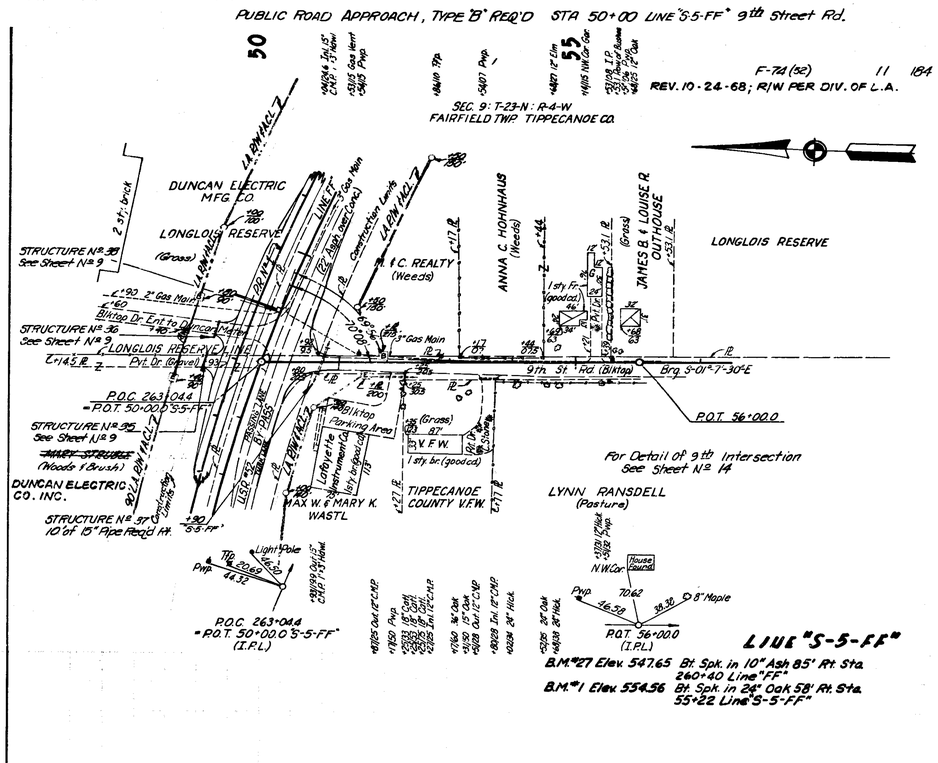
DAVIS FERRY ROAD
P.O.T. 53+00.0 (Not Set) LINE "RR-I-FF"

B.M. #28 Elev. 544.61 X-cut in N. End Conc. Bridge Support Base @ East Side
B.M. #1 Elev. 548.92 Bt. Spk. in Tpe. Pole 15' Lt. Sta. 42+82 Line "RR-I-FF"

ALL R/W ON THIS PLAN TO BE MEASURED FROM LINE "FF" EXCEPT WHERE INDICATED. ALL LIMITED ACCESS R/W AND ACCESS CONTROL LINES ARE IDENTIFIED ON THESE PLANS BY: [B] AND [E] MEANING THE BEGINNING AND ENDING RESPECTIVELY OF THE LA R/W & ACL.



PROFILE Cl. II DR., STA. 49+75 LT. DAVIS FERRY ROAD

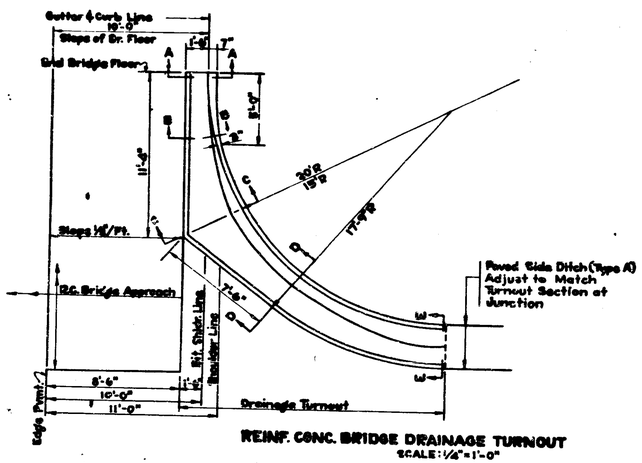


B.M. #27 Elev. 547.65 Bt. Spk. in 10" Ash 85' Rt. Sta. 260+40 Line "FF"
B.M. #1 Elev. 554.56 Bt. Spk. in 24" Oak 58' Rt. Sta. 55+22 Line "S-5-FF"

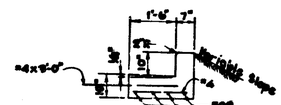
ALL R/W ON THIS PLAN TO BE MEASURED FROM LINE "FF" EXCEPT WHERE INDICATED. ALL LIMITED ACCESS R/W AND ACCESS CONTROL LINES ARE IDENTIFIED ON THESE PLANS BY: [B] AND [E] MEANING THE BEGINNING AND ENDING RESPECTIVELY OF THE LA R/W & ACL.

F-74 (52) 11 184
LINE "S-5-FF"
LINE "RR-I-FF"

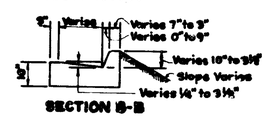
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-74 (52)		11-A	184



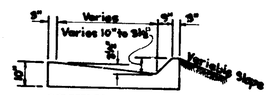
REINF. CONC. BRIDGE DRAINAGE TURNOUT
SCALE: 1/4"=1'-0"



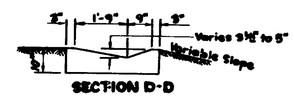
SECTION A-A



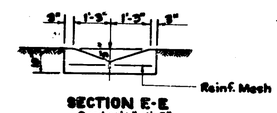
SECTION B-B



SECTION C-C
Scale: ½"=1'-0"

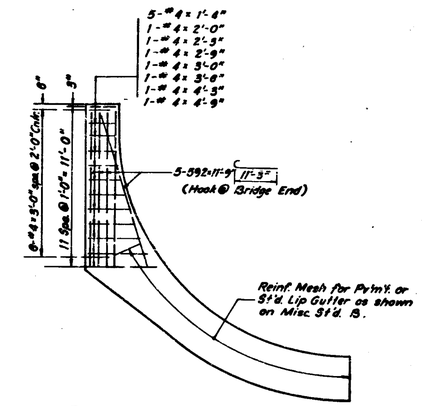


SECTION D-D



SECTION E-E
Scale: ½"=1'-0"

NOTE: Reinforced Concrete Bridge Drainage Turnout Will Be Measured and Paid for as 45 Lin. Ft. of Paved Side Ditch, Type "A", The Cost of Reinforcing Steel Including Dowels and Mesh to be Included in the Cost of the Reinforced Concrete Bridge Drainage Turnout.



REINFORCING PLAN

REINFORCED CONCRETE BRIDGE DRAINAGE TURNOUT

DETAILS

SCALE AS SHOWN

November 6, 1964

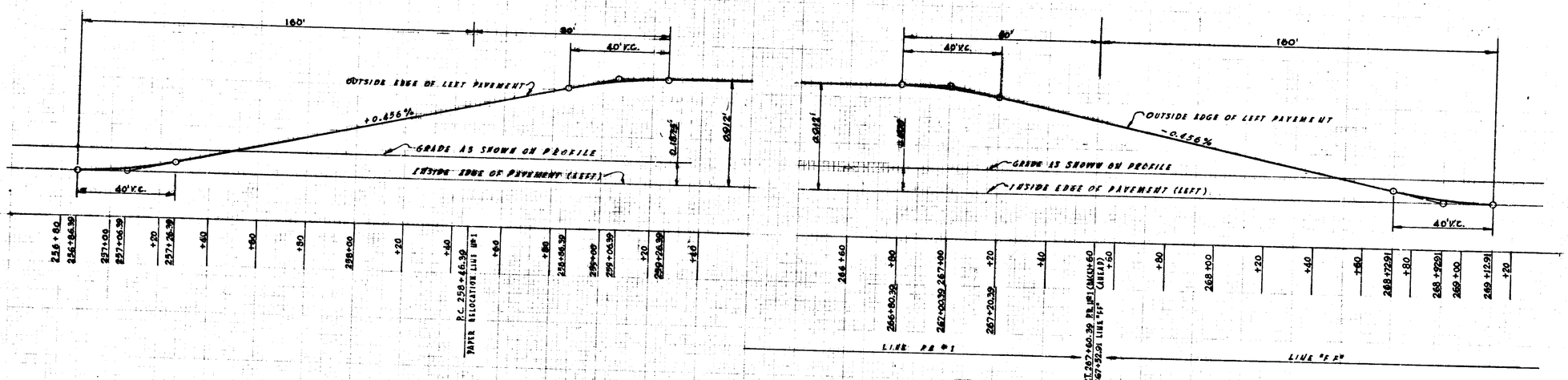
PROJECT NO	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-74 (52)		11-A	184	

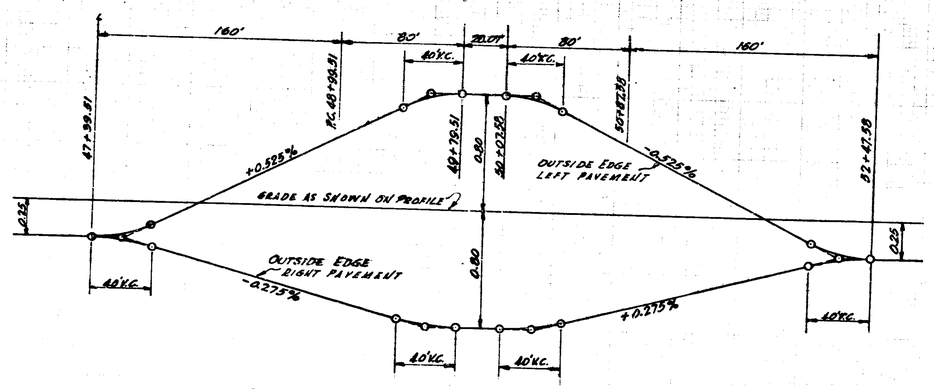
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IND.	F-74 (52)		12	184

SUPER-ELEVATION TRANSITION FOR 1° 57' 11" PAPER RELOCATION LINE No. 1 & LINE "E E" CURVE

WEST BOUND LANE (24' PAVEMENT)

SCALES: 1" = 20'-0" HORIZONTAL
1" = 0.40' VERTICAL
RATE OF SUPERELLEVATION = 0.038 FOOT PER FOOT
SPEED EQUALS 40 MILES PER HOUR
CURVE P.C. LINE PR.#1 STA. 256 + 46.39 TO P.T. LINE PR.#1 STA. 267 + 60.39





LINE	STATION	OUTSIDE EDGE LEFT PAVMT.
PR#1	256+80	+0.00
	256+86.39	+0.00
	257+00	+0.01
	257+06.39	+0.02
	257+20	+0.06
	257+26.39	+0.09
	257+40	+0.15
	257+60	+0.24
	257+80	+0.34
	258+00	+0.45
	258+20	+0.52
	258+40	+0.61
	258+46.39	+0.64
	258+60	+0.70
	258+80	+0.79
	258+86.39	+0.82
	259+00	+0.87
	259+06.39	+0.89
	259+20	+0.91
	259+26.39	+0.91
PR#1	259+40	+0.91

LINE	STATION	OUTSIDE EDGE LEFT PAVMT.
PR#1	266+80	+0.91
	266+80	+0.91
	266+80.39	+0.91
	267+00	+0.89
	267+00.39	+0.89
	267+20	+0.87
	267+20.39	+0.87
	267+40	+0.75
	267+60	+0.64
PR#1 "E E"	267+60.39	+0.64
	267+52.91	+0.64
	267+60	+0.61
	267+80	+0.51
	268+00	+0.42
	268+20	+0.35
	268+40	+0.24
	268+60	+0.15
	268+72.91	+0.09
	268+80	+0.06
	268+92.91	+0.02
	269+00	+0.01
	269+12.91	+0.00
"E E"	269+20	+0.00

DAVIS-FERRY-ROAD SUPER-ELEVATION TRANSITION

SCALES: 1" = 40'-0" HORIZONTAL
1" = 0.40' VERTICAL
RATE OF SUPERELLEVATION = 0.08 FOOT PER FOOT
SPEED EQUALS 40 MILES PER HOUR

RICHARD C. PRILL REGISTERED 9500 STATE OF INDIANA PROFESSIONAL ENGINEER

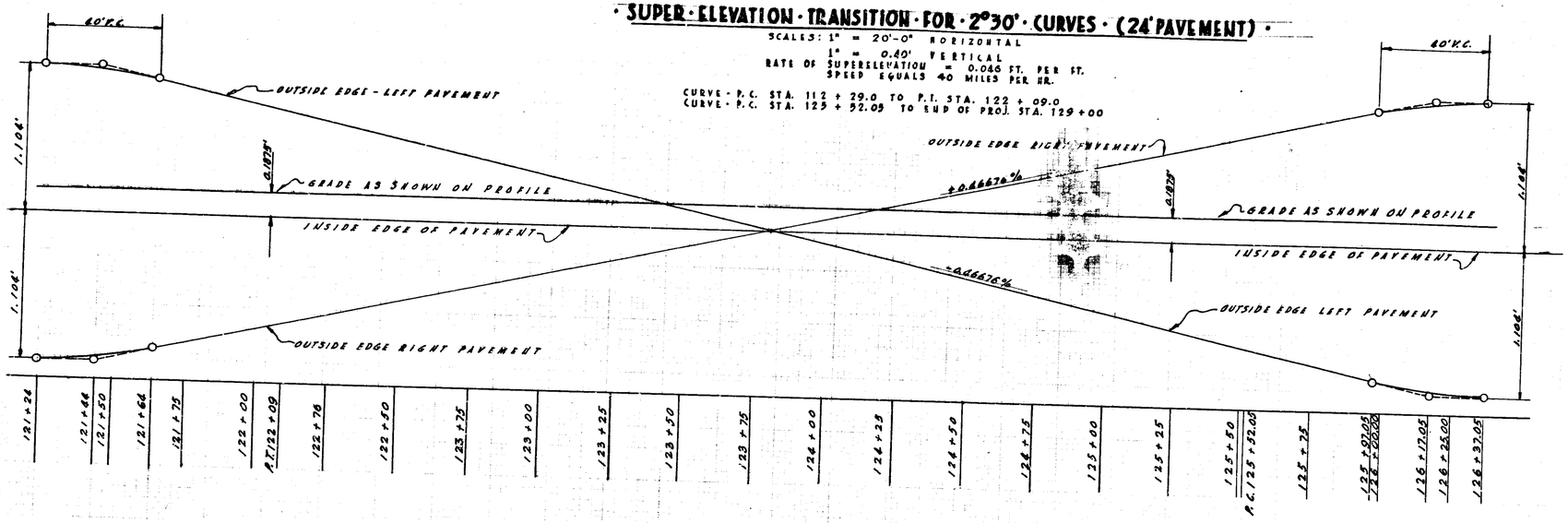
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-74(52)	PR#1 EE	12	184	

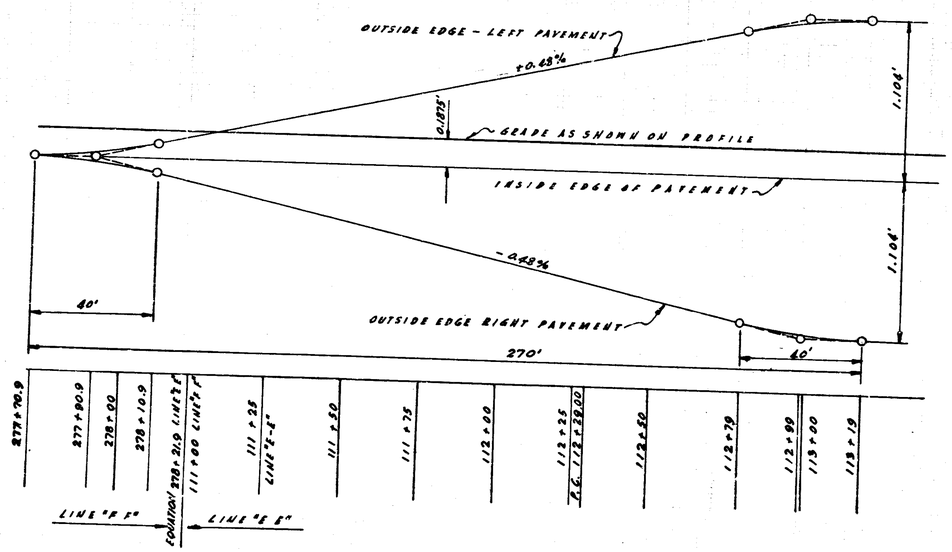
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IND.	F-74(52)		13	184

SUPER-ELEVATION-TRANSITION-FOR-2°30'-CURVES-(24' PAVEMENT)

SCALES: 1" = 20'-0" HORIZONTAL
1" = 0.40' VERTICAL
RATE OF SUPERELEVATION = 0.046 FT. PER FT.
SPEED EQUALS 40 MILES PER HR.

CURVE - P.C. STA. 112 + 29.0 TO P.I. STA. 122 + 09.0
CURVE - P.C. STA. 125 + 52.05 TO END OF PROJ. STA. 129 + 00



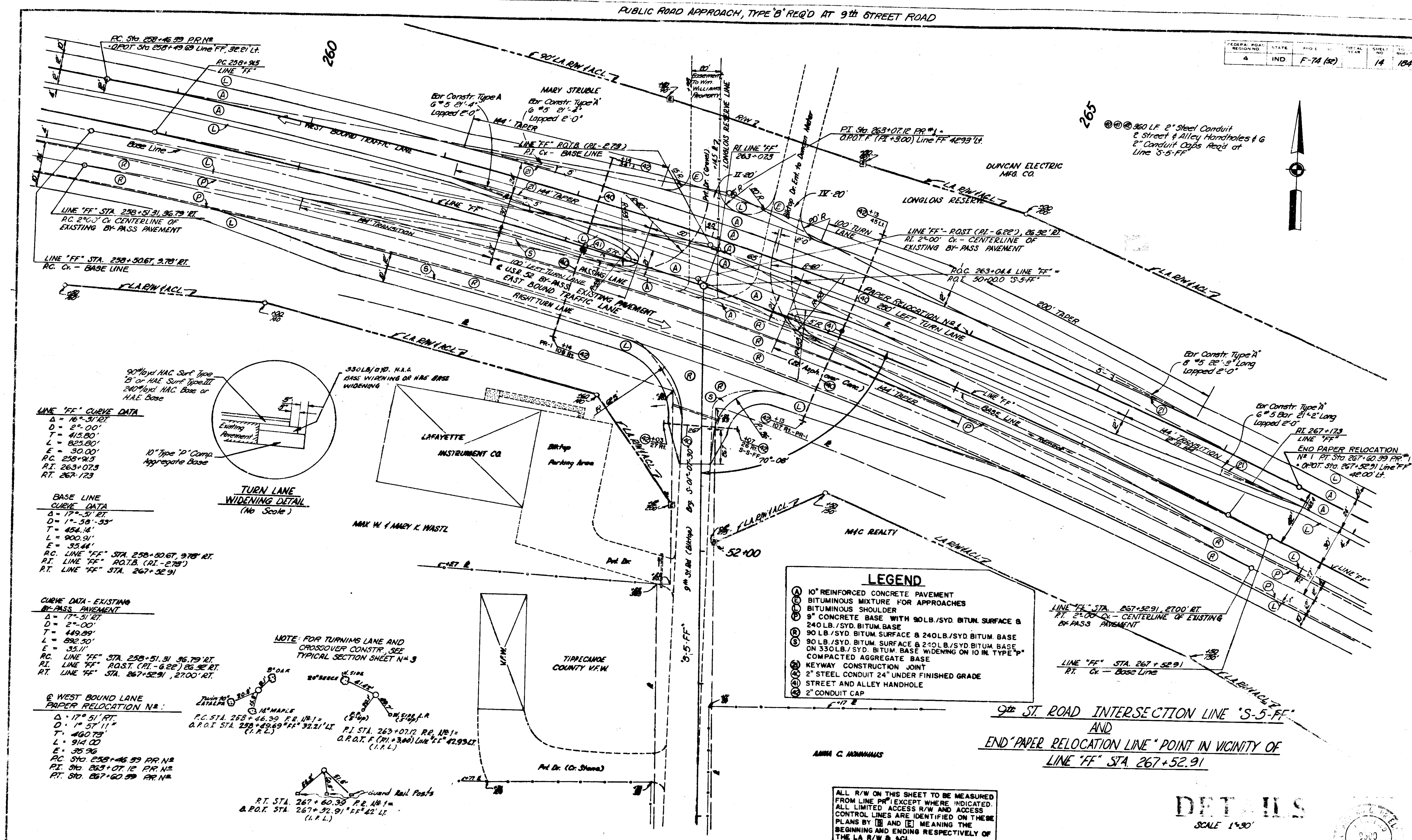


STATION	OUTSIDE EDGE RIGHT - PAVM'T.	OUTSIDE EDGE LEFT - PAVM'T.
277 + 70.9	0	0
277 + 90.9	-0.02	+0.02
278 + 00.0	-0.05	+0.05
278 + 10.9	-0.10	+0.10
EQ 278 + 21.9 111 + 00.0	-0.15	+0.15
111 + 25.0	-0.27	+0.27
+ 50.0	-0.39	+0.39
+ 75.0	-0.51	+0.51
112 + 00.0	-0.63	+0.63
+ 25.0	-0.75	+0.75
P.C. 112 + 29.0	-0.77	+0.77
+ 50.0	-0.87	+0.87
+ 75.0	-0.99	+0.99
+ 79.0	-1.01	+1.01
+ 99.0	-1.08	+1.08
113 + 00.0	-1.08	-1.08
+ 19.0	-1.10	-1.10

STATION	OUTSIDE EDGE RIGHT - PAVM'T.	OUTSIDE EDGE LEFT - PAVM'T.
121 + 24	- 1.10	+ 1.10
+ 44	- 1.08	+ 1.08
+ 50	- 1.06	+ 1.06
+ 64	- 1.01	+ 1.01
+ 75	- 0.96	+ 0.96
122 + 00	- 0.84	+ 0.84
P.T. 122 + 09	- 0.80	+ 0.80
+ 25	- 0.73	+ 0.73
+ 50	- 0.61	+ 0.61
+ 75	- 0.49	+ 0.49
123 + 00	- 0.38	+ 0.38
+ 25	- 0.26	+ 0.26
+ 50	- 0.14	+ 0.14
+ 75	- 0.03	+ 0.03
124 + 00	+ 0.09	- 0.09
+ 25	+ 0.21	- 0.21
+ 50	+ 0.32	- 0.32
+ 75	+ 0.44	- 0.44
125 + 00	+ 0.56	- 0.56
+ 25	+ 0.67	- 0.67
+ 50	+ 0.79	- 0.79
P.C. 125 + 52.05	+ 0.80	- 0.80
+ 75	+ 0.91	- 0.91
125 + 97.05	+ 1.01	- 1.01
126 + 00	+ 1.02	- 1.02
+ 17.05	+ 1.08	- 1.08
+ 25	+ 1.10	- 1.10
+ 37.05	+ 1.10	- 1.10

RICHARD C. BRITT
9500
STATE OF
PROFESSIONAL ENGINEER

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-74(52)	FF EE	13	184	



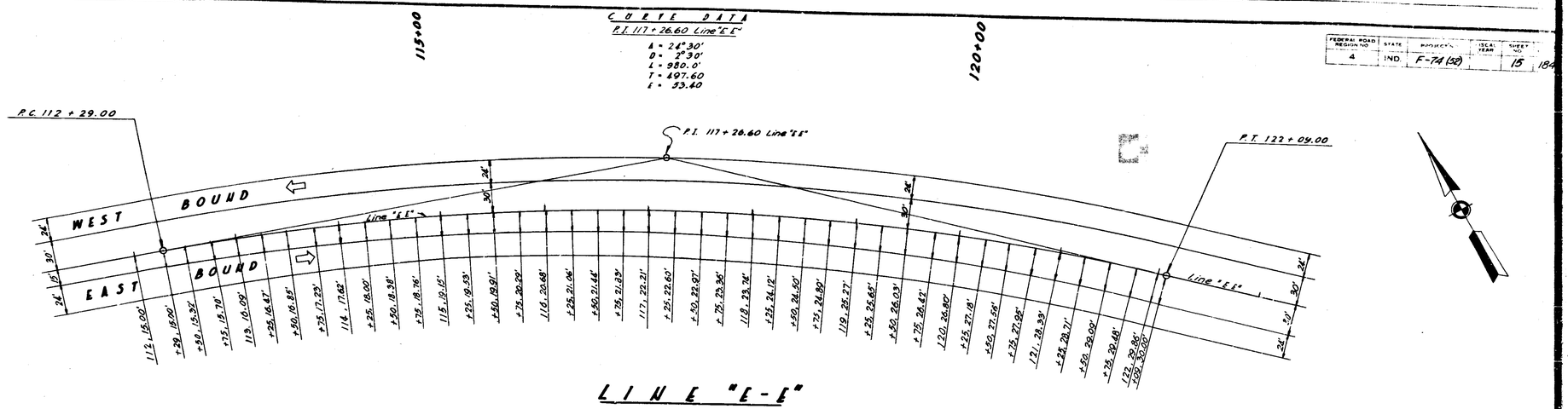
November 6, 1964

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO
4	IND.	F-74 (52)		15

184

CURVE DATA
P.I. 117 + 26.60 Line "E-E"

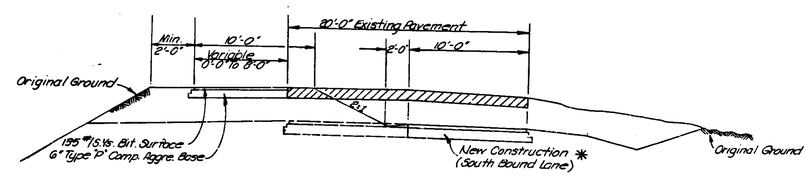
Δ = 24°30'
D = 2°30'
L = 980.0'
T = 497.60
E = 53.40



LINE "E-E"

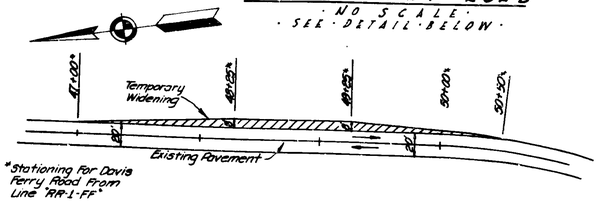
MEDIAN TRANSITION P.C. STA. 112 + 29.00 TO P.T. STA. 122 + 09.0

SCALE: 1" = 50'



* For Completed Typical Section New Construction See Sheet No 4

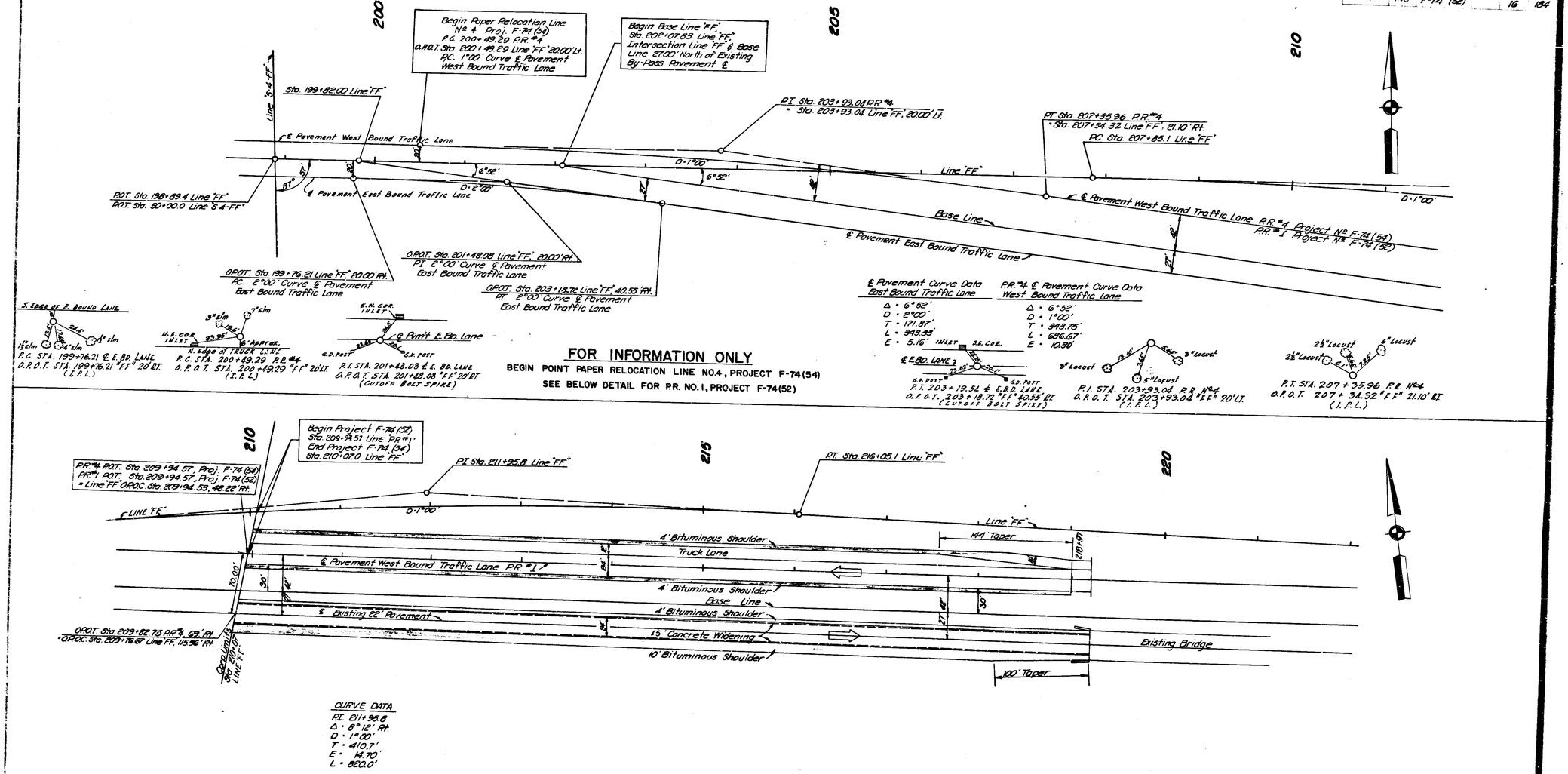
· TYPICAL · SECTION · TEMPORARY · WIDENING ·
· DAVIS · FERRY · ROAD ·
· NO SCALE ·
· SEE · DETAIL · BELOW ·



· DETAIL · TEMPORARY · WIDENING · FOR · MAINTAINING ·
· TRAFFIC · DAVIS · FERRY · ROAD ·
SCALE: 1" = 50'
· SEE · TYPICAL · ABOVE ·

DETAILS

FEDERAL AID REGION	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4.	IND	F-74 (52)		16	184



FOR INFORMATION ONLY

BEGIN POINT PAPER RELOCATION LINE NO. 4, PROJECT F-74(54)

SEE BELOW DETAIL FOR P.R. NO. 1, PROJECT F-74(52)

CURVE DATA
P.I. 211+95.8
Δ = 8°12' Rt.
D = 1°00'
T = 410.7'
E = 14.70'
L = 820.0'

PAPER RELOCATION LINE NO. 1 ALIGNMENT

TO BE BUILT UNDER PROJECT F-74 (54)

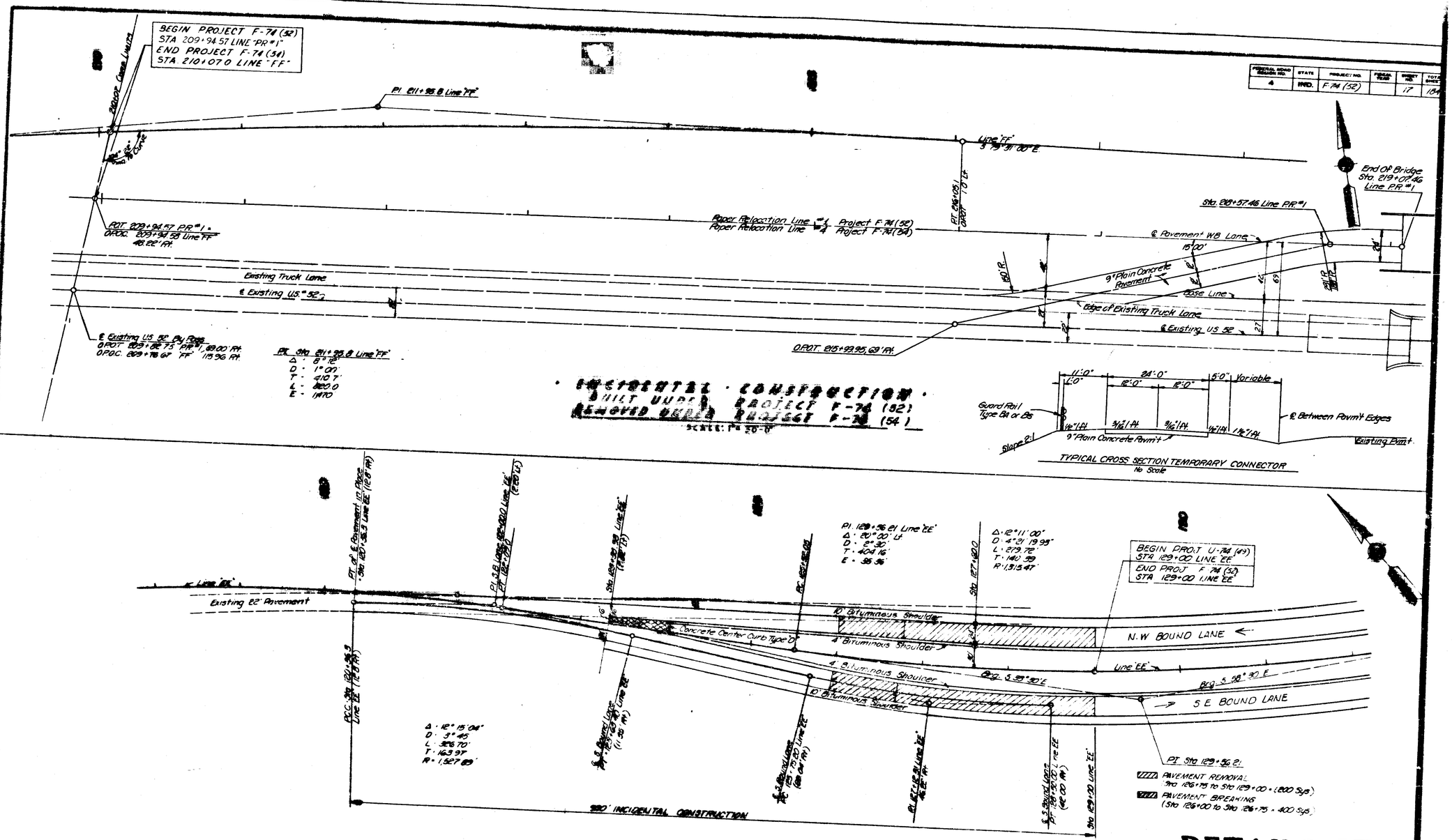
DETAILS

SCALE 1" = 50'

November 6, 1964

F-74 (52) FF 16 184

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-74 (52)		17	184



DETAILS

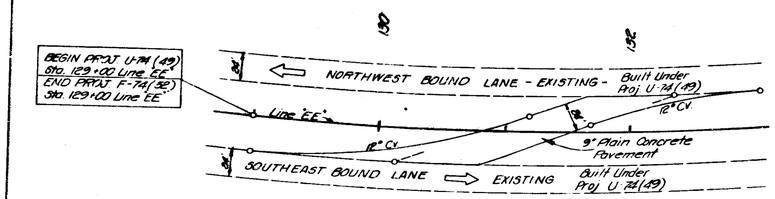
SCALE: 1" = 50'-0"

INCIDENTAL CONSTRUCTION
BUILT UNDER PROJECT U-74 (49)
REMOVED UNDER PROJECT F-74 (52)

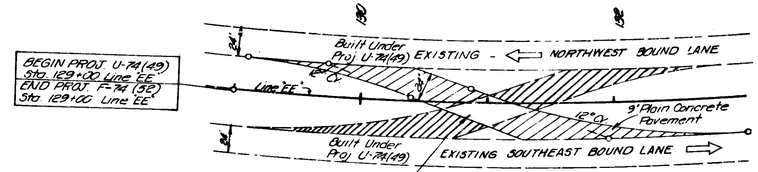
November 6, 1964

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-74 (52)	"FF"	17	184	

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-74(52)		18	184

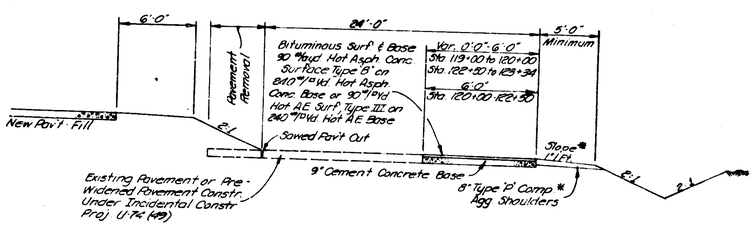


PHASE 'AA'
TEMPORARY CROSS-OVER TO MAINTAIN
TRAFFIC DURING CONSTR. OF NORTHWEST BOUND LANE



PHASE 'BB'
TEMPORARY CROSS-OVER TO MAINTAIN
TRAFFIC DURING CONSTR. SOUTHEAST BOUND LANE

Pavement Removal

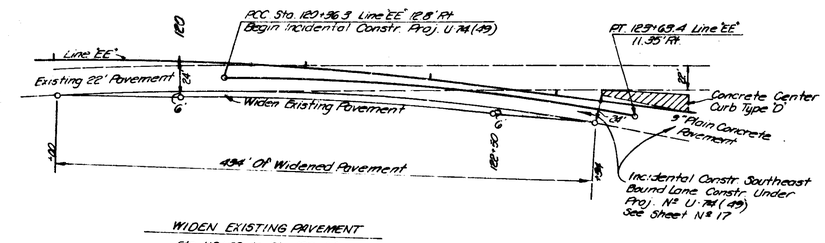


TYPICAL SECTION

WIDENING OF EXISTING & PRE-WIDENED PAVEMENT TO MAINTAIN TRAFFIC DURING CONSTRUCTION NORTHWEST BOUND LANE
Sta. 119+00 to Sta. 129+34 LINE 'EE'
SEE DETAIL ON THIS SHEET.

NO SCALE

* From Sta. 120+36 To Sta. 129+34 11'-0" Type 'D' Shoulder Previously Constr. Under Inclu. Constr. Proj. U-74 (49). Salvage Existing Shoulder For Proj. No. F-74(52) Incidental Construction.



WIDEN EXISTING PAVEMENT

Sta. 119+00 to Sta. 129+34
See Typical Section On This Sheet

INCIDENTAL CONSTRUCTION FOR MAINTENANCE OF TRAFFIC PROJECT NO. F-74(52) CONSTRUCTION

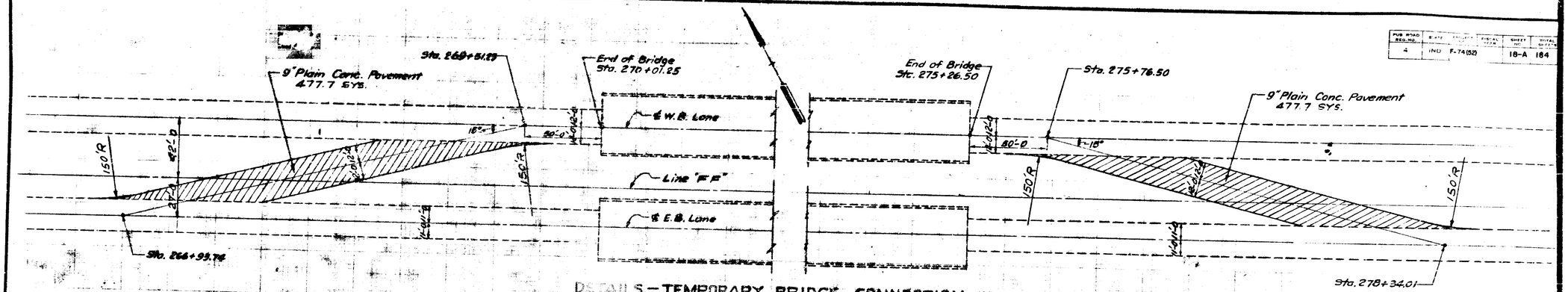
DETAILS

SCALE 1" = 50'

November 6, 1964

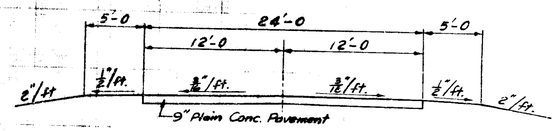
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-74(52)	4	18	184	

PUB. ROAD REG. NO.	STATE	PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	F-74(52)		18-A	184



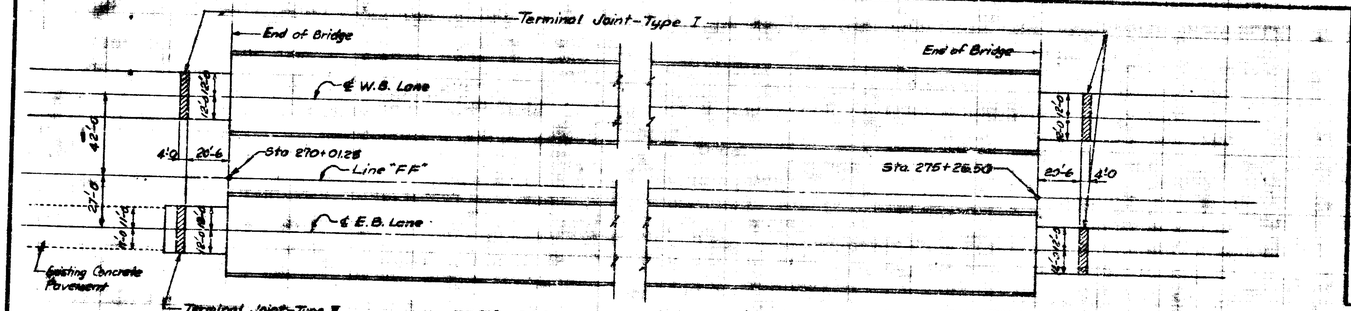
DETAILS — TEMPORARY BRIDGE CONNECTION

Scale: 1" = 30'-0"



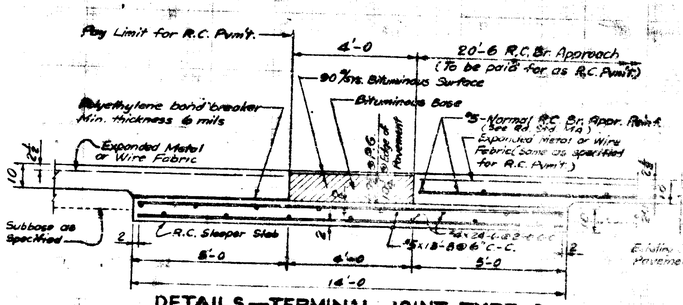
TYPICAL CROSS SECTION — TEMPORARY CONNECTION

Scale: 3/16" = 1'-0



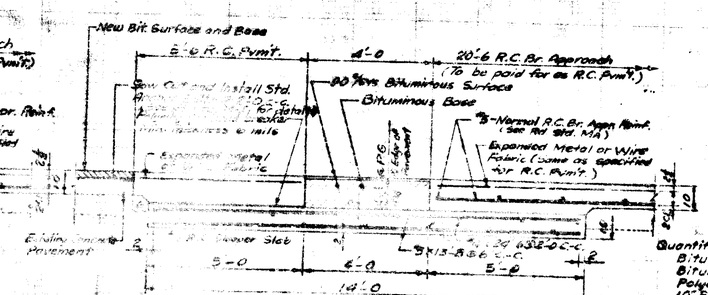
PLAN — TERMINAL JOINTS

Scale: 1" = 30'-0"



DETAILS — TERMINAL JOINT-TYPE I

Scale: 1/2" = 1'-0



DETAILS — TERMINAL JOINT-TYPE II

Scale: 1/2" = 1'-0

NOTES: Sleeper Slab and Bituminous Base shall extend 6" beyond the edge of pavement on both sides.
The cost of all materials in the 4' bituminous strip, the sleeper slab and steel therein, the polyethylene bond breaker, and in the case of the Type II Joint, the cost of the saw cut and furnishing and installing the Std. Anchor Bolts shall be included in the cost per lin ft for Terminal Joints.
The additional depth of 10" R.C. Pvmt. over the sleeper slab is to be paid for as nominal 10" R.C. Pvmt. The additional quantity of concrete is to be included in the square yard cost of 10" R.C. Pvmt.
90% Sys. Bituminous Surface to be H.A.C. Type B or H.A.E. Type II Surface.
Bituminous Base to be H.A.C. or H.A.E. Base.

Quantities in Terminal Joint-Type I

Bituminous Surface	0.48 Tons
Bituminous Base	6.4 Tons
Polyethylene Bond Breaker	123 Sq. Ft.
10" R.C. Pavement	38.9 Sq. Yds.
Reinforcing Steel	
80 - #5 x 13'-8	958 Lbs.
18 - #4 x 24'-6	

Quantities in Terminal Joint-Type II
Same as above except add:

Saw Cut	22 Lin. Ft.
Std. Anchor Bolts	12 Each

Note: Quantities as shown are for information only.

DETAILS

Scale: 1" = 1' approx.

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-74(52)	"F.F."	18-A	184	

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	F-74 (32)		19	184

UNDER DRAINS & SPECIAL GRADE TABLE

LINE	EASTBOUND OR WESTBOUND PAV.	LEFT OR RIGHT	STATION TO STATION	LENGTH OF GROUP "K" PIPE FT.	LENGTH OF GROUP F.B.C.C.M. PIPE FT.	CONNECTION REQUIRED 15" EA.	CONNECTION REQUIRED 45° EA.	CONNECTION REQUIRED 90° EA.	DELINEATOR POST EA.	SODDING REQ'D. SYS.	DRAINS AHEAD	DRAINS BACK	SPECIAL GRADES FROM STA.	SPECIAL GRADES FROM ELEV.	SPECIAL GRADES TO STA.	SPECIAL GRADES TO ELEV.	SPECIAL GRADES % OF GRADE	CONNECT TO STR. #	REMARKS
PR#1	W	RT.	229+25 TO 237+20	795	82	✓			1	2	✓								OUTLET LEFT
PR#1	W	RT.	237+25 TO 241+95	470	92	✓			1	2	✓		237+25	535.28	241+95	534.34	-0.2%		OUTLET LEFT
PR#1	W	RT.	242+00 TO 246+95	493	82	✓			1	2	✓		242+00	535.26	246+95	534.27	-0.2%		OUTLET LEFT
PR#1	W	RT.	247+00 TO 252+95	593	58		✓		1	2	✓		247+00	535.26	252+95	534.07	-0.2%		" "
PR#1	W	RT.	253+00 TO 261+95	893	58		✓		1	2		✓							OUTLET LEFT
PR#1	W	LT.	255+20 TO 257+55	435	40	✓			1	2		✓							
PR#1 FF	W	RT.	262+00 TO 270+70	870	90		✓		1	2		✓							OUTLET LT.
FF	W	LT.	267+55 TO 269+20	165	40		✓		1	2		✓							
PR#1 EE	W	RT.	272+40 TO 115+00	682	58			✓	1	2	✓		114+50	544.03	115+00	543.91	-0.2%		OUTLET LT.
EE	E	RT.	277+75 TO 113+25	266	54	✓			1	2	✓								
EE	W	RT.	118+05 TO 123+70	565	58			✓	1	2		✓							OUTLET LT.
EE	E	RT.	122+75 TO 123+70	95	30	✓			1	2		✓							
EE	E	LT.	129+90 TO 128+00	510	30	✓			1	2		✓							
EE	W	LT.	125+20 TO 129+00	380	40	✓			1	2		✓							
EE	E	RT.	114+60 TO 121+25	665	36	✓			1	2		✓							OUTLET @ STA. 114+30

TABLE OF QUANTITIES FOR APPROACHES

LOCATION	LINE	DESCRIPTION	GRADE LESS THAN 10% NOT SHOWN	DISTANCE BEYOND R/W LINE	EXCAVATION CUT C.Y.D.S.	EXCAVATION FILL C.Y.D.S.	LENGTH FT.	WIDTH FT.	RADII FT.	BITUMINOUS MIXTURE FOR APPROACHES S.YDS. LBS. PER S.Y.D. 110	220	330	TYPE "P" COMPACTED AGGREGATE BASE TONS 3"	5"	6"	10"	PRIVATE DRIVE PAVEMENT S.YDS. 6"	REINF. CONC. PAV'T. S.YDS.	INTEGRAL CONC. CURB L.F.	SUBBASE S.YDS.	TYPE II SEAL TON	TYPE "P" COMP. AGGR. SURFACE S.YDS. 6"	MIXTURE FOR BIT. SHOULDER TON	1" PREF. EXP. JT. WITH LOAD TRANSFER L.F.	BITUMINOUS SURFACE TON	BITUMINOUS BASE TON	BIT. MATERIAL APPLIED TACK TON	BIT. MATERIAL APPLIED PRIME TON	BIT. MATERIAL APPLIED SEAL TON	COVERING AGGREGATE TON	REMARKS
250+75 Lt.	PR#1	Class V			0	485	145	12	15.25																						
251+50 Lt.	PR#1	Class V			0	276	140	12	15.25																						
253+10 Rt.	PR#1	Class IV	13%		0	412	80	60	20.20			567		154																	
262+90 Lt.	PR#1	Class II			0	40	90	20	15.25			133	20													.19	.81				
263+50 Lt.	PR#1	Class IV			0	95	90	[illegible]	20.20			133		31												.02	.07				
49+75 Lt. Davis Ferry	PR-1-FF	Class II *			50	86	250	[illegible]	15.25						109											.02	.07				
50+00	S-5-FF	Public Rd. Appr. Type B			171	56	79	[illegible]	[illegible]							165					.21		24		* 22		.48	.03	4.09		
																									** 14	43	.16	.06			9th Street Road
TOTALS					221	1370						833	20	185	109	165					.21		24		36	43	.29	1.49	.03	4.09	

* RAILROAD CROSSING TO BE CONSTRUCTED BY OTHERS
* 135#/SYS BITUMINOUS SURFACE
** 90#/SYS BITUMINOUS SURFACE

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-74(52)		20	184

TABLE OF QUANTITIES

DETAIL	DESCRIPTION	LINE	STATION	EXCAVATION CUT C.YDS	EXCAVATION FILL C.YDS	LENGTH FT.	WIDTH FT.	RADI FT.	REINFORCED CONC. PAVEMENT (10") S.YDS	PLAIN CONCRETE PAVEMENT (9") S.YDS	PRIVATE DRIVE PAVEMENT (6") S.YDS	PLAIN CONCRETE PAVEMENT (6") S.YDS	BITUMINOUS SURFACE TONS	BITUMINOUS BASE TONS	REINFORCING STEEL FOR PAVEMENT LBS	REINFORCING STEEL FOR STRUCTURES LBS	TYPE "A" COMP. AGGREGATE BASE TONS	12" HAND LAID RIP RAP TONS	SUBBASE C.YDS	BIT. MATERIAL FOR TACK COAT TONS	BIT. MATERIAL FOR PRIME TONS	BIT. MATERIAL FOR SEAL TONS	COVERING AGGR. TONS	BITUMINOUS CURB L.F.	CONCRETE CURB REMOVAL L.F.	SURFACE REMOVAL S.YDS.	SPECIAL INTEGRAL CONCRETE CURB L.F.	CONCRETE CENTER CURB REMOVAL S.YDS	DUMP RIPRAP TON	GUARD RAIL TYPE As L.F.	CONTRACTION JOINT TYPE D-1 L.F.	TERMINAL JOINTS L.F.	1" PREFORMED JOINT FILLER L.F.	1/2" EXP. JT. TYPE IA L.F.	SETTLEMENT PLATES EA.	GUARD RAIL TYPE D L.F.	GUARD RAIL TYPE B L.F.	GUARD RAIL TYPE G L.F.	PAVED SIDE DITCH TYPE A C.F.	B L.F.	C L.F.	D L.F.	E L.F.	F L.F.	G L.F.	SODDING S.YDS	MIXTURE FOR BIT. SHOULDER TONS	CEMENT CONCRETE BASE (9") S.YDS	PAVEMENT REMOVAL S.YDS	PAVEMENT BREAKING S.YDS	BIT. MIXTURE FOR APPROACHES L.F. TON
MAIN LINE		"FF", FF, EE		54193	65,465				26,103	956			543	1522	7065		12,199	150	7,412	16.8	28.3	18.5	200.6	745					50	84	5,873	96			3 *	128.5		992	1846							13,012	3178	283	1244	244	
INCID. CONSTR. BEG				215	0					640																											350													
INCID. CONSTR. END				0	0					1,147			11	28			39			.16																															
DAVIS FERRY ROAD		"RR-1-FF"		2812	0								89	200			828			.56	2.74	.17	2.50																													
APPROACH TABLE				221	1370								36	43			479			.29	1.49	.24	4.09															193							197						
Undistributed																																																				
TOTALS				57,441	66,835				26,103	2,743			679	1793	7065		13,545	150	7,412	18	33	19	207.9	745					50	84	5,873	96			1												34					137
																													50	84	5,873	96			4	128.5	350	992	2039							13,209	3241	511	3,591	644	137

* To be located on north shoulder point of West Bound Lane at Sta. 230+00, Sta 239+00 & Sta. 247+00.

November 6, 1964

PROJECT NO	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-74(52)	"FF"	20	184	

STRUCTURE DATA

Federal Road Region No.	State	Project No.	Fiscal Year	Sheet No.	Total Sheets
4	IND.	F-74(52)		21	184

Structure Number	Station	Line Location	Group	Size Inch	Description	Length Feet	Skew	Cover	Flow Line Up Stream Elev.	Flow Line Down Stream Elev.	Concrete Class "D" Cu.Yds.	Method of Backfill	Culvert Pipe End Section Each	Steel	Aluminum	Velocity	Remarks	Plans on Sheet No.
1	224+08.46	PR#1			STRUCTURE NO 1												BRIDGE FILE No 32-P-1784 J SEPARATE CONTRACT PROJECT No	1
2	272+80.50	FF			STRUCTURE NO 2												BRIDGE FILE No 52-79-2459 J PROJECT No	1
8	217+00	PR#1																
9	217+08	PR#1	A	12													CONSTR. UNDER BRIDGE PROJECT	
10	216+00	P.R.#1	A	60													CONSTR. UNDER BRIDGE PROJECT	
11	219+00	PR#1	A	60													CONSTR. UNDER BRIDGE PROJECT	
12	218+90	PR#1		12	F.B.C.C.S. INLET TYPE R-13 REQ'D.												CONSTR. UNDER BRIDGE PROJECT	
13	219+10	P.R.#1		6	PERF. F.B.C.C.S.												CONSTR. UNDER BRIDGE PROJECT	
14	221+25	P.R.#1	A	66													CONSTR. UNDER BRIDGE PROJECT	
15	229+00	P.R.#1		6	PERF. F.B.C.C.S.												CONSTR. UNDER BRIDGE PROJECT	
16	229+30	P.R.#1	D	30													CONSTR. UNDER BRIDGE PROJECT	
17	227+55	P.R.#1	D	30		24		1.5	512.36	512.31		B	2	14	10		CONSTR. UNDER BRIDGE PROJECT (UNDER PRIVATE DRIVE)	
18	229+19 Rt.	P.R.#1		12	F.B.C.C.S. ADJUST CASTING TO GRADE	70		2.0				A	1	16			1-11° BEND REQ'D. REMOVE EXISTING PIPE IN PLACE	7 7
19	229+35	P.R.#1		12	F.B.C.C.S. STD. INLET TYPE J-10 REQ'D.	148		7.0	549.84	509.35		A	1	16			2-18° BEND REQ'D. 3-L. FT. OF P.S.D. TYPE "A" & 1-SQ. YD. OF SODDING REQ'D.	7 7
20	233+22	P.R.#1	L	6		430						A					REMOVE EXISTING F. TILE IN PLACE Within R/N CONNECT TO EXISTING F. TILE	8
21	233+40	P.R.#1		12	F.B.C.C.S. STD. INLET TYPE R-13 REQ'D.	170		4.0	539.82	510.20		A	1	16			2-18° BENDS REQ'D. 3-L. FT. OF P.S.D. TYPE "A" & 1-SQ. YD. OF SODDING REQ'D.	8
22	233+50	P.R.#1	L	6		426						A					REMOVE EXISTING F. TILE IN PLACE Within R/W CONNECT TO EXISTING F. TILE.	8
23	237+50	P.R.#1		12	F.B.C.C.S. STD. INLET TYPE R-13 REQ'D.	140		4.5	534.44	510.90		A	1	16			2-18° BENDS REQ'D. 12-L. FT. OF P.S.D. TYPE "A" & 4-SQ. YDS. OF SODDING REQ'D.	8
24	238+87	P.R.#1	L	6		376						A					REMOVE EXISTING F. TILE IN PLACE Within R/W CONNECT TO EXISTING F. TILE	8
25	240+00	P.R.#1		12	F.B.C.C.S. STD. INLET TYPE R-13 REQ'D.	140		4.5	533.99	512.25		A	1	16			2-18° BENDS REQ'D. 11-L. FT. OF P.S.D. TYPE "A" & 3-SQ. YDS. OF SODDING REQ'D.	8
26	243+17	P.R.#1	L	6		380						A					REMOVE EXISTING F. TILE IN PLACE Within R/W CONNECT TO EXISTING FIELD TILE	8
27	244+00	P.R.#1		12	F.B.C.C.S. STD. INLET TYPE R-13 REQ'D.	138		4.5	533.99	514.30		A	1	16			2-18° BENDS REQ'D. 5-L. FT. OF P.S.D. TYPE "A" & 2-SQ. YDS. OF SODDING REQ'D.	8
28	248+00	P.R.#1		12	F.B.C.C.S. STD. INLET TYPE R-13 REQ'D.	136		4.5	533.99	515.50		A	1	16			2-18° BENDS REQ'D. 6-L. FT. OF P.S.D. TYPE "A" & 2-SQ. YDS. OF SODDING REQ'D.	8
29	250+98	P.R.#1	L	6		360						A					REMOVE EXISTING F. TILE IN PLACE Within R/W CONNECT TO EXISTING F. TILE	8
30	250+75	P.R.#1	D	18		50		8	516.50	520.00		B	2	16	14		(UNDER PRIVATE DRIVE)	8
31	252+00	P.R.#1		12	F.B.C.C.S. STD. INLET TYPE R-13 REQ'D.	104		2.5	533.99	527.10		A	1	16			2-18° BENDS REQ'D. 5-L. FT. OF P.S.D. TYPE "A" & 2-SQ. YDS. OF SODDING REQ'D.	8
32	254+00	P.R.#1	A	12	STD. INLET TYPE R-13 REQ'D.	86		3.0	534.94	532.20		A	1	16				8
33	253+10	P.R.#1	D	18		80		1.5	529.50	525.50		B	2	16	14		(UNDER PRIVATE DRIVE)	8
34	258+00	P.R.#1	A	12	STD. INLET TYPE R-13 REQ'D.	84		3.0	538.32	535.95		A	1	16				8
35	263+05	P.R.#1	D	15		34		1.5	547.53	547.12		B	2	16	14		(UNDER PRIVATE DRIVE)	9
36	263+50	P.R.#1	D	15		50		1.5	548.20	547.79		B	2	16	14		(UNDER PRIVATE DRIVE)	9
37	50+90	S-5-FF		15	F.B.C.C.S.	10 Rt.		1.0	549.15	549.00		B	2	16			EXTEND EXISTING STR. RT.(UNDER CO.RD.)CULV. P.SEC., BOTH ENDS	11
38	264+00	P.R.#1	A	12	STD. INLET TYPE R-13 REQ'D.	84		3.5	550.63	549.00		A	1	16				9
39	267+00	P.R.#1	A	12	STD. INLET TYPE R-13 REQ'D.	102		4.5	558.77	552.60		A	1	16			CONSTRUCT MEDIAN DIKE	9
40	270+33	F.F.		6	PERF. F.B.C.C.S.	80						A		18			END BENT SUBSURFACE DRAIN @ BRIDGE CONN. TO STR. No 42	9
40A	270+00	FF		6	PERF. F.B.C.C.S.	80						A		18				
41	48+50	RR-1-FF	D	15		62		1.5	552.00	551.00		B	2	16	14			11
42	49+58, 112 Rt.	RR-1-FF	D	12	STD. INLET TYPE R-13 REQ'D.	98		1.5	550.55	546.00		A	1	16	16			11

Mo.A.T. 1/66

Structure Number	Station	Line Location	Group	Size Inch	Description	Length Feet	Skew	Cover	Flow Line Up Stream Elev.	Flow Line Down Stream Elev.	Concrete Class "D" Cu.Yds.	Method of Backfill	Culvert Pipe End Section Each	Steel	Aluminum	Velocity	Remarks	Plans on Sheet No.
43	49+89	DAVIS FERRY RD.	D	18		38		4	543.10	542.60		A	2	16	16		(UNDER PRIVATE DRIVE) CONSTR. INLET & OUTLET DITCH	11
44	275+28	FF		6	PERF. F.B.C.C.S.	84						A		18			END BENT SUBSURFACE DRAIN @ BR., CONN. TO STR. No 44A	9
44A	275+28	FF		6	PERF. F.B.C.C.S.	84						A						
~~45~~	~~275+50~~	~~FF~~		~~12~~	~~F.B.C.C.S. ADJUST CASTING TO GRADE~~	~~136~~		~~2.5~~				~~5~~	~~1~~	~~16~~			~~2-18 BENDS REQUIRED, 10 L. FT. OF P.S.D. TYPE "A" & 3 SQ. YDS. OF SODDING REQ'D., REMOVE EXISTING PIPE IN PLACE~~	~~9~~
46	112+50	EE		12	F.B.C.C.S. STD. INLET TYPE R-13 REQ'D.	166		5.0	545.02	518.15		A	1	16			2-18 BENDS REQUIRED 8 L. FT. OF P.S.D. TYPE TYPE "A" & 2 SQ. YDS. OF SODDING REQ'D. CONST. MEDIAN DIKE	9
47	114+30	EF	L	15		472		3.0	554.50	542.50		B	1				15" STORM SEWER; OUTLET END, STA. 114+30, 70' RT. PARALLEL TO LINE "EE" 64' RT. FROM STA. 114+60 TO STA. 119+50	10
48	114+50	EE		12	F.B.C.C.S. STD. INLET TYPE R-13 REQ'D.	160		4.0	543.26	517.60		A	1	16			2-18° BENDS REQ'D; 8 L. FT. OF P.S.D. TYPE "A" & 2 SQ. YDS. OF SODDING REQ'D.	9
49	114+66	EE	A	12	STD. INLET TYPE S-14 REQ'D.	4		2.5	543.37	543.00		A		16			CONNECT TO STR. No 47; 1-15" "T" REQ'D.	10
50	116+00	EE	A	12	STD. INLET TYPE S-14 REQ'D.	4		3.0	544.60	543.50		A		16			CONNECT TO STR. No 47; 1-15" "T" REQ'D.	10
51	116+50	EE		12	F.B.C.C.S. STD. INLET TYPE R-13 REQ'D.	168		4.5	544.60	515.15		A	1	16			2-18° BENDS REQ'D. 4 L. FT. OF P.S.D. TYPE "A" & 1 SQ. YD. OF SODDING REQ'D.	10
52	117+50	EE	A	12	STD. INLET TYPE S-14 REQ'D.	4		4.0	547.99	547.00		A		16			CONNECT TO STR. No 47; 1-15" "T" REQ'D.	10
53	119+50	EE	A	12	STD. INLET TYPE S-14 REQ'D.	4		3.0	555.50	554.50		A		16			CONNECT TO STR. No 47; 1-15" "L" REQ'D.	10
54	121+50	EE		12	F.B.C.C.S. STD. INLET TYPE R-13 REQ'D.	246		3.5	562.66	513.70		A	1	16			2-18° BENDS REQ'D. 3 L. FT. OF P.S.D. TYPE "A" & 1 SQ. YD. OF SODDING REQ'D. CONSTR. MEDIAN DIKE	10
55	122+33	EE	A	36		68' RT.		14.5	559.50	549.77		B	1	12			EXTEND EXISTING BOX CULVERT RT. WITH 36" PIPE	10
			A	36		198 LT.	30°	28.5	536.97	514.00		B	1	12			" " " " LT. " 36" "	
56	126+25	EE	A	12	STD. INLET TYPE R-13 REQ'D.	78		2.5	578.44	577.84		A		16			CONNECT TO STR. No 57	10
57	126+23	EE		18	F.B.C.C.S. STD. INLET TYPE F-7 REQ'D.	180		2.5	577.59	514.00		B	1	16			2-18° BENDS REQ'D. 7 L. FT. OF P.S.D. TYPE "A" & 2 SQ. YDS. OF SODDING REQ'D., CONSTRUCT DIKE IN LT. DITCH @ STA. 126+20, 78' LT.	10
58	128+42	EE			M.H. TYPE A-4 REQ'D.							B					CONSTRUCT M.H. OVER EXISTING 15" SANITARY SEWER 122' RT.	10
30A	251+50	PR#1	D	18		44		4	524.50	522.50		B	2	16	16		(UNDER PRIVATE DRIVE)	8

UNDISTRIBUTED QUANTITIES

Group	Size	Description	Length Feet
L	4"		400
L	6"		600
L	8"		600
L	10"		400
	4"	Draintile Class Standard	400
	6"	Draintile Class Standard	600
	8"	Draintile Class Standard	600
	10"	Draintile Class Standard	400

LEGEND FOR ABBREVIATIONS

- F.B.C.C.S/P.I -- FULLY BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT.
- F.B.C.C.A.A/P.I -- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT.
- F.B.C.C.S ------ FULLY BITUMINOUS COATED CORRUGATED STEEL.
- F.B.C.C.A.A ---- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY.
- C.S ------------ CORRUGATED STEEL.
- C.A.A ---------- CORRUGATED ALUMINUM ALLOY.
- S.P.S ---------- STRUCTURAL PLATE STEEL.
- F.B.C.C.S.A/P.I -- FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH WITH PAVED INVERT.
- F.B.C.C.A.A.A/P.I -- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH WITH PAVED INVERT.
- F.B.C.C.S.A ---- FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH.
- F.B.C.C.A.A.A -- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH.
- C.S.A ---------- CORRUGATED STEEL ARCH.
- C.A.A.A -------- CORRUGATED ALUMINUM ALLOY ARCH.
- S.P.S.A -------- STRUCTURAL PLATE STEEL ARCH.

JANUARY, 1966

Project No	Line	Sheet No	Total Sheets	File
F-74(52)	FF	21	184	

ESTIMATE OF QUANTITIES

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-74 (52)		22	184

GRADING

ITEM	UNIT	QUANTITY
REMOVE OF STRUCTURES AND OBSTRUCTIONS		
CLEARING R/W	L.S.	1
GRUBBING		
CLEARING AND GRUBBING		
HEDGE ROWS	STA.	
SCALPING	ACRE	
COMMON EXCAVATION	CYS.	57,441
ROCK EXCAVATION	CYS.	
UNCLASSIFIED EXCAVATION	CYS.	
WATERWAY EXCAVATION	CYS.	
CLASS "Y" EXCAVATION	CYS.	
"B" BORROW	CYS.	4231
"B" BORROW FOR STRUCTURE BACKFILL	CYS.	
BORROW	CYS.	512,691
LINEAR GRADING	CYS.	
SUBGRADE TREATMENT	M.G.	
WATER		
FILL SETTLEMENT PLATES	EA.	4
PEAT EXCAVATION 1 TO 15 FT.	CYS.	
PEAT EXCAVATION 15 TO 25 FT.	CYS.	
PEAT EXCAVATION 25 TO 35 FT.	CYS.	
SURCHARGE 1 TO 4 FT.	LFT.	
SURCHARGE 4 TO 8 FT.	LFT	
SURCHARGE 8 TO 12 FT.	LFT.	
SURCHARGE 12 TO 16 FT.	LFT.	
SURCHARGE 16 TO 20 FT.	LFT.	
SURCHARGE 20 TO 24 FT.	LFT.	
MACHINE OPERATION	HR.	
MACHINE AVAILABILITY	HR.	
DYNAMITE	LB.	
HOLE FOR TESTING OR FOR DYNAMITING 2 INCH	LFT.	
HOLE FOR TESTING OR FOR DYNAMITING 4 INCH	LFT.	
HOLE FOR TESTING OR FOR DYNAMITING 6 INCH	LFT.	
CONCRETE PAVEMENT BREAKING	SYS.	644
REMOVAL OF PAVEMENT (1)	SYS.	3591
TREE REMOVAL 6 INCH	EA.	
TREE REMOVAL 10 INCH	EA.	
TREE REMOVAL 18 INCH	EA.	
TREE REMOVAL 30 INCH	EA.	
TREE REMOVAL 48 INCH	EA	
TREE REMOVAL 60 INCH	EA.	
SALVAGED STOCKPILED SELECTED MATERIAL	CYS.	
STOCKPILED SELECTED MATERIAL	CYS.	
REMOVAL OF PRESENT STRUCTURE	EA.	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL( )	L.S.	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL( )	L.S.	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL( )	L.S.	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL( )	L.S.	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL( )	L.S.	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL( )	L.S.	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL( )	L.S.	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL( )	L.S.	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL( )	L.S.	

PAVEMENT

ITEM	UNIT	QUANTITY
REPAIRING	MILE	
WATER FOR RECONDITIONING	MG	
PORTLAND CEMENT CONCRETE FOR PATCHING	SYS.	
COMPACTED AGGREGATE FOR PATCHING	TON	
BITUMINOUS MIXTURE FOR PATCHING	TON	
WIDENING WITH BITUMINOUS MIXTURE	TON	371
WIDENING WITH CEMENT CONCRETE (9") (2)	SYS.	511
WIDENING WITH COMPACTED AGGREGATE	TON	
PORTLAND CEMENT CONCRETE BASE	SYS.	
TYPE "D" COMPACTED (3) AGGREGATE BASE (Size #53)	TON.	13,545
TYPE " " COMPACTED AGGREGATE SURFACE	TON	
TYPE " " COMPACTED AGGREGATE SHOULDER	TON	
PURE CALCIUM CHLORIDE	TON	
HOT ASPHALT EMULSION (AE) BASE	TON	
HOT ASPHALT EMULSION (AE) BINDER	TON	
HOT ASPHALT EMULSION (AE) SURFACE	TON	
HOT ASPHALT CONCRETE BASE	TON	
HOT ASPHALT CONCRETE BINDER	TON	
HOT ASPHALT CONCRETE SURFACE	TON	
BITUMINOUS COATED AGGREGATE BASE	TON	
BITUMINOUS COATED AGGREGATE BINDER	TON	
BITUMINOUS COATED AGGREGATE SURFACE	TON	
COLD MIXED BITUMINOUS BASE (DENSE GRADED)	TON	
COLD MIXED BITUMINOUS BASE (OPEN GRADED)	TON	
COLD MIXED BITUMINOUS BINDER	TON	
COLD MIXED BITUMINOUS SURFACE	TON	
BITUMINOUS BASE (5)	TON	1793
BITUMINOUS BINDER	TON	
BITUMINOUS SURFACE (4)	TON	679
BITUMINOUS MIXTURE FOR SHOULDERS	TON	3241
BITUMINOUS MIXTURE FOR APPROACHES	TON	137
DRILLED HOLES FOR UNDERSEAL	EA.	
ASPHALT MATERIAL FOR UNDERSEAL	TON	
BITUMINOUS CURING MATERIAL	TON	
FILLING CRACK AND JOINTS IN CONCRETE PAVEMENT OR BASE	TON	
SEALING CRACKS AND JOINTS IN BITUMINOUS PAVEMENT	TON	
BITUMINOUS MATERIAL FOR SEAL COAT (8)	TON	19
BITUMINOUS MATERIAL FOR PRIME COAT (6)	TON	33
BITUMINOUS MATERIAL FOR TACK COAT (7)	TON	18
COVER AGGREGATE (9)	TON	207
AGGREGATES FOR SHOULDER DRAINS	TON	

ITEM	UNIT	QUANTITY
SUBBASE	CYS.	7412
CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT ( )	SYS.	
CONCRETE PAVEMENT REINFORCED (10")	SYS.	26,103
CONCRETE PAVEMENT REINFORCED (")	SYS.	
CONCRETE PAVEMENT HIGH EARLY STRENGTH (")	SYS.	
CONCRETE PAVEMENT HIGH EARLY STRENGTH (")	SYS.	
CONCRETE PAVEMENT PLAIN (9") (10)	SYS.	2,743
CONCRETE PAVEMENT PLAIN (")	SYS	
CONCRETE PAVEMENT PLAIN H.E.S. (")	SYS.	
CONTRACTION JOINT, TYPE "D-1"	LFT.	5873
1/2 INCH PREFORMED JOINT MATERIAL	LFT.	
1 INCH PREFORMED JOINT MATERIAL	LFT.	
1 1/2 INCH PREFORMED JOINT MATERIAL	LFT.	
EXPANSION JOINT, PREFORMED WITH LOAD TRANSFER-1 INCH	LFT.	
REINFORCING STEEL FOR PAVEMENT	LB.	7065
ANCHOR BOLTS	EA.	
TERMINAL JOINTS	LFT.	144
CEMENT CONCRETE PAVEMENT FOR PRIVATE DRIVES		
CEMENT CONCRETE PAVEMENT FOR COMMERCIAL DRIVES		
CEMENT CONCRETE PAVEMENT FOR CROSSOVER		
PORTLAND CEMENT FOR CEMENT TREATED BASE	BBL	
WATER FOR CEMENT TREATED BASE	MG	
PROCESSING CEMENT TREATED BASE	CYS.	
IMPORTED MATERIAL FOR CEMENT TREATED BASE	CYS.	
SALVAGED ROAD MATERIAL FOR Includes for Maintaining Traffic	CYS.	
(1) Pavement Removal	SYS.	1147
(2) Cement Concrete Base (9")	SYS.	228
(3) Type "D" Comp. Aggregate Base	TON	106
(4) Bituminous Surface	TON	15
(5) Bituminous Base	TON	28
(6) Bitum. Material for Prime	TON	.29
(7) Bitum. Material for Tack	TON	.16
(8) Bitum. Material for Seal	TON	.17
(9) Cover Aggregate	TON	2.5
(10) Plain Concrete Pvm't. (9")	SYS.	187
(11) Tape for 4" Pvm't Stripe	LFT.	6700
(12) Tape for 6" Pvm't. Stripe	LFT.	700
(13) Tape for 12" Pvm't. Stripe	LFT.	5100
(14) Guard Rail Type "B"	LFT.	350
( ) INCLUDES FOR ROAD APPROACHES	TON	
( ) INCLUDES FOR FRONTAGE ROADS	TON	
( ) INCLUDES FOR PRIVATE DRIVES		
( ) INCLUDES FOR COMMERCIAL DRIVES		

MISCELLANEOUS

ITEM	UNIT	QUANTITY
GUARD RAIL, TYPE "A"	LFT.	54
GUARD RAIL, TYPE "B" (14)	LFT.	330
GUARD RAIL, TYPE "D"	LFT.	152.5
GUARD RAIL, TYPE "G"	LFT.	901
GUARD RAIL, TYPE	LFT.	
GUARD RAIL, TYPE	LFT.	
RESET GUARD RAIL	LFT.	
INCH FENCE, FARM FIELD	LFT.	
INCH FENCE, CHAIN LINK	LFT.	
FEET, BY INCH GATE FARM FIELD	EA.	
FEET BY INCH GATE CHAIN LINK	EA.	
RESETTING FENCE	LFT.	
CONCRETE SIDEWALK	SYS.	
BITUMINOUS SIDEWALK	TON	
BED COURSE MATERIAL	TON	
RECONSTRUCTED SIDEWALK	SYS.	
RE-LAID SIDEWALK	SYS.	
CURB, INTEGRAL		
CURB, INTEGRAL TYPE "B"	LFT.	
CURB, INTEGRAL TYPE "C"	LFT.	
CURB, CONCRETE	LFT.	
CURB, BITUMINOUS	LFT.	745
CURB AND GUTTER COMBINED	LFT.	
GUTTER, STANDARD LIP	LFT.	
GUTTER CONCRETE	LFT.	
RESET CURB	LFT.	
CENTER CURB, CONCRETE	LFT.	
CENTER CURB, CONCRETE TYPE " "	LFT.	
CENTER CURB, CONCRETE TYPE " "	SYS.	
CENTER CURB BITUMINOUS TYPE " "	LFT	
CENTER CURB, BITUMINOUS TYPE " "	SYS.	
PAVED SIDE DITCH, TYPE "A"	LFT.	2039
PAVED SIDE DITCH, TYPE " "	LFT.	
PAVED SIDE DITCH, TYPE " "	LFT.	
PAVED SIDE DITCH, TYPE " "	LFT.	
PAVED SIDE DITCH, TYPE " "	LFT.	
PAVED SIDE DITCH, TYPE " "	LFT.	
PAVED SIDE DITCH, TYPE " "	LFT.	
PAVED SIDE DITCH, TYPE " "	LFT.	
PAVED SIDE DITCH, TYPE " "	LFT.	
RIPRAP	SYS.	
DUMPED RIPRAP	TON	
REVETMENT RIPRAP	TON	
HAND-LAID RIPRAP, 6 INCH	SYS.	
HAND-LAID RIPRAP, 12 INCH	SYS.	
GROUTED RIPRAP, 6 INCH	SYS.	
GROUTED RIPRAP, 12 INCH	SYS.	
PLACING HAND-LAID RIPRAP 6"	SYS.	
PLACING HAND-LAID RIPRAP 12"	SYS.	150
PLACING GROUTED RIPRAP 6"	SYS.	
PLACING GROUTED RIPRAP 12"	SYS.	
PRECAST CONCRETE RIPRAP	SYS.	
SLOPEWALL	SYS.	
INCH CONCRETE SLOPEWALL	SYS.	

ITEM	UNIT	QUANTITY
CONCRETE HEADER, TYPE "A"	LFT.	
CONCRETE HEADER, TYPE "B"	LFT.	
CONCRETE HEADER, TYPE "C"	LFT.	
RECONSTRUCTED CONCRETE HEADER	LFT.	
RIGHT-OF-WAY MARKER	EA.	40
RESET RIGHT-OF-WAY MARKER	EA.	
MONUMENT TYPE "A"	EA.	
MONUMENT TYPE "B"	EA.	
MONUMENT TYPE "C"	EA.	7
MONUMENT TYPE "D"	EA.	3
RE-ESTABLISHED MONUMENT	EA.	
CASTING ADJUSTED TO GRADE	EA.	
MONUMENT		
BENCH-MARK POST	EA.	
RESET BENCH-MARK POST	EA.	
AGRICULTURAL LIMESTONE (1)	TON	31
FERTILIZER (2)	TON	24.5
MULCHING MATERIAL (3)	TON	122
SEED MIXTURES (36.9 Ac.)	LB.	6732
MULCHED SEEDING	SYS.	
TOP SOIL	CYS.	
SODDING	SYS.	13209
TEMP. SEED MIXTURES (24.3 Ac.)	LB.	2673
WATER	M.G.	364.5
CROWN VETCH SEEDING (0.98 Ac.)	LB.	98
TRAFFIC SIGNAL BASE FOUNDATION TYPE " "	EA.	
POLE BASE FOUNDATION TYPE " "	EA.	
STEEL PIPE (CONDUIT) (2")	LFT.	347
NON-METALLIC PIPE (CONDUIT)	LFT.	
HANDHOLE FOR STREET OR ALLEY	EA.	2
HANDHOLE FOR SIDEWALK	EA.	
(1) Includes for Temp. Seeding	TON	12.5
(2) Includes for Temp. Seeding	TON	9.7
(3) Includes for Temp. Seeding	TON	48.6
( ) Includes for		

ITEM	UNIT	QUANTITY

SIGNS AND MARKINGS

ITEM	UNIT	QUANTITY
MAINTAINING TRAFFIC	L.S.	1
STANDARD BARRICADE, TYPE "A"	EA.	2
STANDARD BARRICADE TYPE "B"	EA.	2
PERMANENT BARRICADE TYPE "A"	EA.	
PERMANENT BARRICADE TYPE "B"	EA.	
CONSTRUCTION SIGN, TYPE "A"	EA.	14
CONSTRUCTION SIGN TYPE "B"	EA.	6
STOP SIGN, TYPE R-1-A	EA.	
YIELD SIGN TYPE R-301	EA.	
CURVE SIGN, TYPE W-2AR	EA.	1
CURVE SIGN, TYPE W-2AL	EA.	1
REVERSE CURVE SIGN TYPE W-4AR	EA.	
REVERSE CURVE SIGN, TYPE W-4AL	EA.	
LARGE ARROW SIGN, TYPE 4-11A	EA.	
STOP AHEAD SIGN, TYPE W-13A	EA.	
FRONTAGE ROAD SIGN, TYPE M-26	EA.	
NO OUTLET SIGN, TYPE M-27	EA.	4
NO OUTLET DEAD END SIGN, TYPE M-29	EA.	
RAILROAD ADVANCE WARNING SIGN TYPE W-32A	EA.	
RAILROAD CROSSBUCK SIGN TYPE W-33	EA.	
PAINTED LINE (4") (*)	LFT.	3551
TEMPORARY PAVEMENT MARKING (TAPE) (4") (11)	LFT	6700
TEMPORARY PAVEMENT MARKING (TAPE) (6") (12)	LFT.	700
TEMPORARY PAVEMENT MARKING (TAPE) (12") (13)	LFT	5100
DELINEATOR WITH POST, TYPE "D-1" (")	EA.	
DELINEATOR WITH POST TYPE "D-2" ( )	EA.	
DELINEATOR WITH POST TYPE "D-3" ( )	EA.	
DELINEATOR POST	EA.	15
(*) INCLUDES FOR YELLOW BARRIER STRIPE	LFT.	1770

THE QUANTITIES SHOWN ON THIS SHEET INCLUDE THE FOLLOWING ITEMS TO MITIGATE RIGHT-OF-WAY DAMAGES

ITEM	UNIT	QUANTITY

FIELD OFFICE (ROAD) (500 SQ.FT.)	MO	17	
FIELD LABORATORY (120 SQ.FT.)	MO	10	
FIELD OFFICE (BRIDGE) (SQ.FT.)	MO.		
CONSTRUCTION ENGINEERING	L.S.		

APRIL 1969

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-74 (52)		22	184	

ESTIMATE OF QUANTITIES (CON'T.)

STRUCTURE SUMMARY

CIRCULAR PIPE: LINEAL FEET

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-74 (52)		23	184

KIND / SIZE	4"	6"	8"	10"	12"	12"	15"	15"	18"	18"	30"	36"
GAGE STEEL		18			16	16	16	16	16	16	14	12
GAGE ALUMINUM												
GAGE STRUCT. TOP & SIDES												
PLATES STEEL BOTTOM												
THICK. STRUCT. TOP & SIDES												
PLATES ALUM. BOTTOM												
GROUP "A"												
GROUP					450'							
GROUP											246	
GROUP "D"												
GROUP						98'	146		212		24	
GROUP												
GROUP												
GROUP												
GROUP "L"	*400	2572	*600	*400								
GROUP							872					
REINFORCED CONCRETE												
EXTRA STRENGTH REINF. CONC.												
HEAVY DUTY REINF. CONC.												
VITRIFIED CLAY CULVERT												
FULLY BITUM. COATED CORR. STEEL					1852		10		194			
FULLY BITUM. COATED CORR. STEEL WITH PAVED INVERT												
FULLY BITUMINOUS COATED PERFORATED CORR. STEEL		228										
DRAINTILE (CLASS STANDARD)	*400	*600	*600	*400								

* UNDISTRIBUTED

STRUCTURE SUMMARY (CON'T.)

PIPE ARCHES: LINEAL FEET

KIND / MIN AREA SQ. FT. *	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL
GAGE STRUCT. TOP & SIDES																							
PLATES STEEL BOTTOM																							
THICK. STRUCT. TOP & SIDES																							
PLATES ALUM. BOTTOM																							
GAGE																							
GROUP G-																							
GROUP G-																							
GROUP G-																							
GROUP H-																							
GROUP H-																							
GROUP H-																							
CORR. STEEL PIPE ARCH																							
STRUCT. PLATE STEEL PIPE ARCH																							
BIT. COAT. CORR. STEEL PIPE ARCH																							
BIT. COAT. CORR. STEEL PIPE ARCH WITH PAVED INVERT																							
REINF. ELLIPTICAL CONCRETE																							

(G) "SPAN" AND "RISE" WHEN OTHER THAN GROUP "G" OR GROUP "H" IS SPECIFIED.

PIPE: GROUP "K" FOR UNDERDRAIN	6"	12,000	LIN. FT.
PIPE: FULLY BIT. COATED NON PERFORATED CORR. STEEL (GAUGE 18) FOR UNDERDRAINS	6"	882	LIN. FT.
AGGREGATE FOR UNDERDRAIN		1082	CYS

AUTO DRAINAGE GATES		
SIZE	HEAD	EACH

CASTINGS ADJUSTED TO GRADE
EACH
1

REINF. CONCRETE SPRING BOXES
EACH

ITEM	UNIT	QUANTITY
CONCRETE CLASS "A" FOR STRUCTURES	CYS	
REINFORCING STEEL FOR STRUCTURES	LB	
CONCRETE CLASS "A" FOR INTEGRAL CURB WALK	CYS	
	CYS	

CASTINGS FURNISHED AND ADJUSTED TO GRADE		
TYPE " "		EACH
TYPE " "		EACH

INLETS	
TYPE	EACH
R-13	16
F-7	1
S-16	4
T-10	1

INLETS	
TYPE	EACH

CATCH BASINS	
TYPE	EACH

INLETS USING CASTING IN PLACE	
TYPE	EACH

CATCH BASINS USING CASTING IN PLACE	
TYPE	EACH

MANHOLES	
TYPE	EACH
A-9	1

PIPE CATCH BASINS	
SIZE	EACH

RECONSTRUCTED	
	LIN. FT.
MANHOLE	
CATCH BASIN	
INLET	

PIPE END SECTION			
SIZE	EACH	SIZE	EACH
12"	17	18"X11"	
15"	9	22"X13"	
18"	9	25"X16"	
24"		29"X18"	
30"	2	36"X22"	
36"	2	43"X27"	

M.A.T. 66

JANUARY, 1966

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-74 (52)		23	184	