

# RIGHT OF WAY PLANS

CODE NO. 1816

STATE OF INDIANA  
INDIANA DEPARTMENT OF HIGHWAYS

## PLAN AND PROFILE OF PROPOSED STATE HIGHWAY F - PROJECT NO. 132-4

(1) P.E.  
(1) R/W  
(1) CONST.  
(1) UTIL.

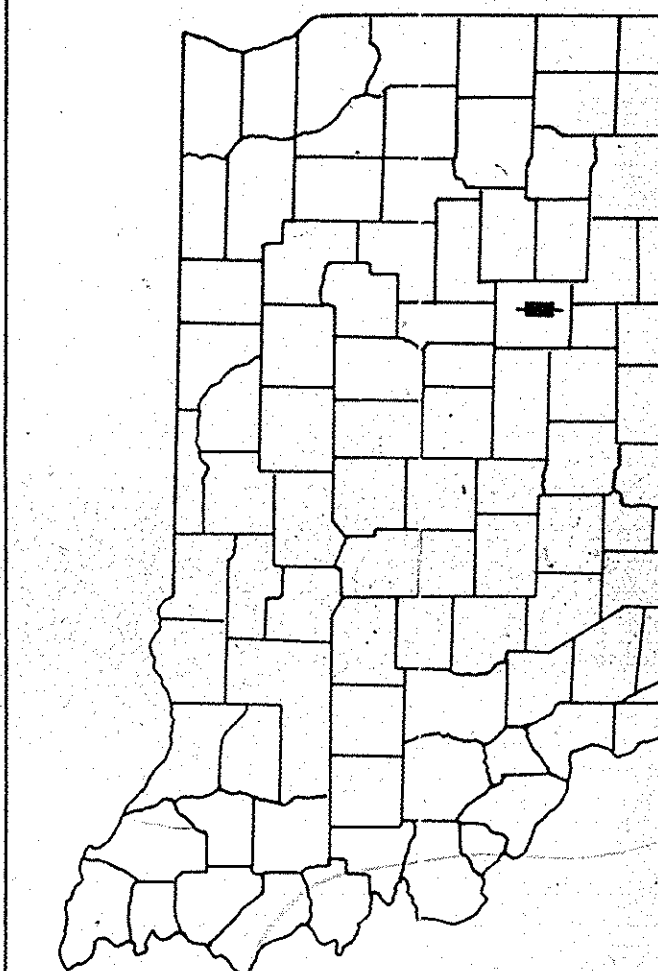
BEGINNING ON THE CENTER LINE OF 4TH STREET IN MARION 538.89 FEET EAST OF THE WEST LINE OF SECTION 5, T.24N., R.8E., AND RUNNING IN A SOUTHEASTERLY AND EASTERLY DIRECTION A DISTANCE OF 9609.18 FEET TO A POINT ON THE CENTER LINE OF STATE ROAD NO. 18, SAID POINT BEING 965.82 FEET WEST OF THE EAST LINE OF SECTION 4, T.24N., R.8E., ALL IN CENTER TWP, GRANT COUNTY.

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	1	35

DESIGN DATA	
A.D.T. (1981)	8,150 V.P.D.
A.D.T. (2001) PROJECTED	12,452 V.P.D.
D.H.V. (2001)	1,311 V.P.H.
DIRECTIONAL DISTRIBUTION	51%
TRUCKS	D.H.V. 7% A.D.T. 16%
DESIGN SPEED	*50 M.P.H. 60 M.P.H.
ACCESS CONTROL	PARTIAL

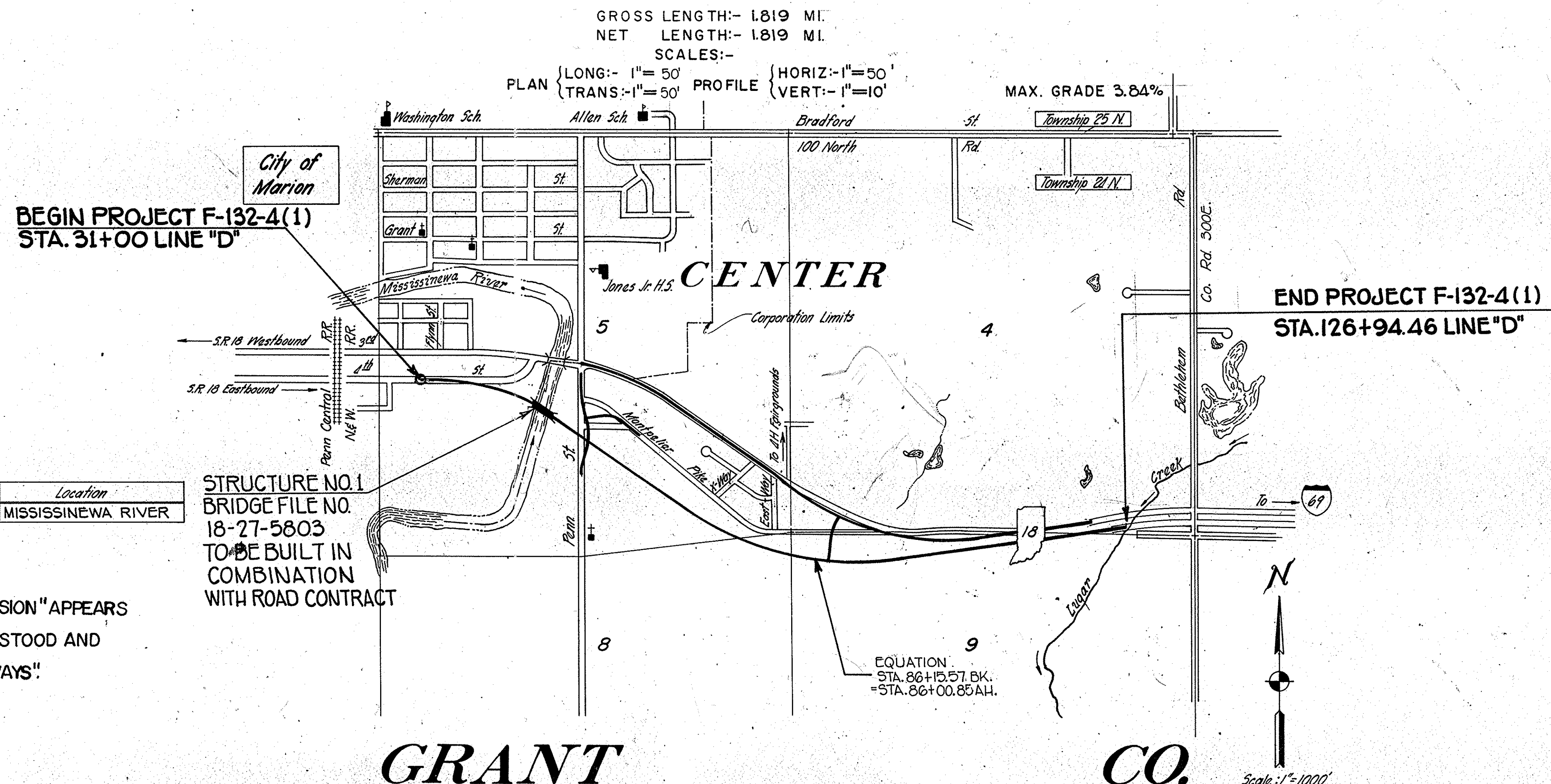
\* STA. 31+00 TO STA. 44+30.26 E. BOUND; STA. 51+40 TO STA. 61+00 W. BOUND



LOCATION OF SECTION INDICATED THUS

LEGEND

- (A) BARRICADE TYPE "A"
- (B) BARRICADE TYPE "B"
- (C) CONSTRUCTION SIGN TYPE "A"
- (D) CONSTRUCTION IDENTIFICATION SIGN
- (A) PERMANENT BARRICADE TYPE "A"



BRIDGE STRUCTURES

Struct. No.	Bridge File No.	Pavement Excavation	Location
1	18-27-5803	Sta. 44+09.95 to Sta. 47+91.47 D	MISSISSINAWA RIVER

STRUCTURE NO. 1  
BRIDGE FILE NO.  
18-27-5803  
TO BE BUILT IN  
COMBINATION  
WITH ROAD CONTRACT

**GENERAL NOTE:**  
WHEREVER THE TITLE "INDIANA STATE HIGHWAY COMMISSION" APPEARS UPON THESE PLANS, SUCH DESIGNATION SHALL BE UNDERSTOOD AND CONSTRUED TO MEAN "INDIANA DEPARTMENT OF HIGHWAYS".

RECOMMEND FOR APPROVAL \_\_\_\_\_  
SENIOR DESIGNER \_\_\_\_\_  
RECOMMENDED FOR APPROVAL \_\_\_\_\_  
ASSISTANT ENGINEER OF ROAD DESIGN \_\_\_\_\_  
RECOMMENDED FOR APPROVAL \_\_\_\_\_  
ENGINEER OF ROAD DESIGN, INDIANA DEPARTMENT OF HIGHWAYS \_\_\_\_\_  
APPROVED: *[Signature]*  
CHIEF ENGINEER INDIANA DEPARTMENT OF HIGHWAYS

PLANS PREPARED BY:  
AMERICAN CONSULTING ENGINEERS, INC.

RECOMMENDED FOR APPROVAL 12-16-81  
*[Signature]*  
CHIEF, DIVISION OF LAND ACQUISITION

CERTIFIED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

FEDERAL HIGHWAY ADMINISTRATION  
DEPARTMENT OF TRANSPORTATION

APPROVED \_\_\_\_\_  
DIVISION ADMINISTRATOR \_\_\_\_\_ DATE \_\_\_\_\_

INDIANA STATE HIGHWAY COMMISSION  
STANDARD SPECIFICATIONS DATED 1979  
TO BE USED WITH THESE PLANS

ROAD FILE: \_\_\_\_\_

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	D*DL	1	35	



## UTILITIES

GAS CENTRAL INDIANA GAS CO.  
MARION, INDIANA

TELEPHONE INDIANA BELL TELEPHONE CO., INC.  
240 N. MERIDIAN ST.  
INDIANAPOLIS, INDIANA

ELECTRIC INDIANA & MICHIGAN ELECTRIC CO.  
2101 SPY RUN AVE.  
FORT WAYNE, INDIANA

WATER MARION WATER WORKS  
MARION, INDIANA

## REVISIONS

SHEET NO.	DATE	REVISED
18, 22, 29 & 35	9-8-81	12 Sta 85+27.84 RL "DL"
10, 11, 30 & 34	11-17-81	12s Mississinewa River, R/W & Brg. Line "S-I-D"; Add 12s Parcel 25 & R/W Parcel 26A.
9 & 34	12-9-81	Edys Sweetser St. Add Sta. 33+04.91 Tan. Lt. "O"
17 & 34	12-12-81	R/W Labeling
3	1-5-82	AREA PARCEL 37A
3, 10, 20, 24, & 34	4-14-82	R/W REV. AND PARCEL 25 EXCESS LAND ELIMINATED
18 & 29	5-3-82	ADDED SIGNS & REV. BLDG. LOCATION
23	8-10-82	Correct location of Sweetser St. Edys to agree w/ Sheet 39
9 & 23	8-23-82	REV. DRIVE & R ON SWEETER STREET
3, 8, 20, 21, 24, 27 & 34	9-28-82	NAME CHANGE PARCEL 28
3, 8, 12, 20, 21, 24, 34 & 35	10-1-82	NAME CHANGE PARCELS 31 & 33
16, 21, 27 & 34	10-5-82	REV. C.L.T.F. @ STA. 51+11 TO 56+82 LT. "DL"
12	1-18-83	REV. F.F.T.F. TO C.L.T.F.
18, 28 & 31	1-31-83	WIDEN CLASS II DRIVE
16 & 27	2-11-83	CORRECTED LOCATION OF PL. ON PARCEL 3
3, 8, 12, 13, 18, 19, 22, 25, 29 & 35	2-16-83	NAME CHANGE PARCEL 37
9, 23 & 34	9-19-83	ADDED ACCESS OPENING

## R/W INDEX

SHEET NO.	DESIGNATION
1	TITLE SHEET
2	INDEX
3	PARCEL LISTING
4-7	TYPICAL CROSS SECTIONS
8	PLAT NO. 1
9-22	PLAN & PROFILE
23-29	DETAILS
30	BRIDGE SHEET-LEVEE ALIGNMENT
31	APPROACH TABLE
32-33	STRUCTURE DATA
34-35	PLAT NO. 3

## GENERAL NOTES

**	Standard divided lane sections for Federal Aid _____ Projects _____ as shown on Sheet No. _____ to be used on this project.
**	Standard ramp section _____ to be used on this project. Pavement thickness shall be _____ inches.
**	Standard single lane pavement sections _____ as shown on Sheet No. _____ to be used on this project.
**	A _____ inch _____ pavement shall be used.
**	Typical cross-section as shown on Sheets No. 4-1 to be used on this project.
**	Standards under dates as listed in the index on this sheet to be used on this project.
**	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 Station _____ and Station _____, the Contractor will be required to remove the present roadway surface and base as directed by the Engineer.
**	For Kinds of Pipe permitted for each size and classification as shown on the Structure Data Sheet, see Miscellaneous Standard Sheets "MP" and "MP-1."
**	Such part of existing downspout drains that are disturbed by either adding or 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 Contractor must accept the plan quantities of Subbase as given on the Estimate of Quantities Sheet subject to the conditions as set out in 304.07 of the Standard Specifications.
**	The minimum grade for Underdrains shall be 0.20%. Where the profile grade is less than 0.20% special grades for Underdrains shall be established by the Engineer.
**	County Road _____ shall have 4 "Edge Lines" and "Skip Center Lines" as set out in "Special Provisions" and "Yellow Barrier Lines" shall be placed as shown on plans.
**	All Limited Access R/W (L.A. RW) to be fenced with Chain Line Type Fence (C.L.T.F.) or Farm Field Type Fence (F.F.T.F.) as specified in the plans.
**	Curves shall be Super-elevated according to the Standards of _____ (Except Special "Super-Transitions" shall be detailed on Sheet No. _____).
**	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.
**	All Highway Drainage Structures 42" dia. and over _____ have been designed on the basis of a 10 year storm frequency. (Except Structure Numbers _____, which have been designed for a _____ year storm frequency.) The elevations of the design headwater for each culvert having a design flood of more than 500 cubic feet per second, are shown on the Plan-Profile Sheets at the culvert locations.
**	The quantity Crown-Vetch Seeding, shown on the Estimate of Quantities Sheet is to be used at those locations where the slopes are 3:1 or steeper or in an area requiring sand cut or sand fills or as directed by the Engineer.
**	The quantity of Peat Excavation as shown the plans has been estimated on the basis of theoretical cross-sections by using Method "A" where it applies and Method "B" where it applies.
**	Preformed Joint Material for Cross-overs, Drives, Road Approaches and Sidewalk will not be paid for directly, the cost thereof to be included in the contract unit price for the various items in the contract.
**	For Paved side ditch and Sodding Quantities see table on Sheet No. _____.
**	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 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.
**	The Engineer may Change the Type of Fence Shown on the Plans upon Receipt of Reasonable, Written Justification from the Property Owner.
**	Prior to extending existing pipe structures, headwall in place on extended end shall be removed.
**	Unless otherwise specified the contractor shall have the option of using either Hot Asphaltic Concrete (HAC) or Hot Asphaltic Emulsion (HAE) on all Bituminous items.
**	Movement of excavation is shown on Mass Haul Diagram on Sheet No. _____, with the entire project being one balance.

\*\* REPRESENTS GENERAL NOTES REQUIRED

## INDEX

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	2	35

SHEET NO.	DESIGNATION	F.H.W.A. APPROVAL	DATE ADOPTED AT LATEST REVISION
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8-23	PLAN AND PROFILE		
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38-39	STRUCTURE DATA		
40-41	AERIAL MOSAIC		
	ESTIMATE OF QUANTITIES		
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	ST'D. SINGLE LANE SECTION		
	ST'D. RAMP SECTION		
	ST'D. PAVEMENT JOINTS SHEET "A"		
	ST'D. PAVEMENT JOINTS SHEET "B"		
	MISCELLANEOUS STANDARDS, SHEET "MA"		
	MISCELLANEOUS STANDARDS, SHEET "MA-1"		
	MISCELLANEOUS STANDARDS, SHEET "MA-2"		
	MISCELLANEOUS STANDARDS, SHEET "MB"		
	MISCELLANEOUS STANDARDS, SHEET "MB-1"		
	MISCELLANEOUS STANDARDS, SHEET "MB-2"		
	MISCELLANEOUS STANDARDS, SHEET "MC"		
	MISCELLANEOUS STANDARDS, SHEET "MC-1"		
	MISCELLANEOUS STANDARDS, SHEET "MD"		
	MISCELLANEOUS STANDARDS, SHEET "MD-1"		
	MISCELLANEOUS STANDARDS, SHEET "MD-2"		
	MISCELLANEOUS STANDARDS, SHEET "MD-3"		
	MISCELLANEOUS STANDARDS, SHEET "MD-4"		
	MISCELLANEOUS STANDARDS, SHEET "ME"		
	MISCELLANEOUS STANDARDS, SHEET "ME-1"		
	MISCELLANEOUS STANDARDS, SHEET "ME-2"		
	MISCELLANEOUS STANDARDS, SHEET "MH"		
	MISCELLANEOUS STANDARDS, SHEET "MH-1"		
	MISCELLANEOUS STANDARDS, SHEET "MH-2"		
	MISCELLANEOUS STANDARDS, SHEET "MI"		
	MISCELLANEOUS STANDARDS, SHEET "MI-1"		
	MISCELLANEOUS STANDARDS, SHEET "MI-2"		
	MISCELLANEOUS STANDARDS, SHEET "MI-3"		
	MISCELLANEOUS STANDARDS, SHEET "MJ-1"		
	MISCELLANEOUS STANDARDS, SHEET "MJ-2"		
	MISCELLANEOUS STANDARDS, SHEET "MJ-3"		
	MISCELLANEOUS STANDARDS, SHEET "MN"		
	MISCELLANEOUS STANDARDS, SHEET "MP"		
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	ST'D. R.C. BOX CULV. SK END & WING DET. SK		
	ST'D. R.C. CULV. W. O. F.		
	ST'D. R.C. CULV. U. F.		
	ST'D. R.C. CULV. W. O. F. SK.		
	ST'D. R.C. CULV. U. F. SK.		
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	ST'D. DETOUR SIGNS, SHEET 3		
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	* F.H.W.A. APPROVAL PENDING		



ROAD SR10 COUNTY GRANT PROJECT F-132-4(1) L-7-A CODE 1816 DATE 12/31/81  
 PARCEL LISTING FOR LAND ACQUISITION INDIANA DEPARTMENT OF HIGHWAYS

PARCEL NUMBER	GRANTOR	CENTER LINE	FROM TO	PLAN	BRIDGE	TOTAL AREA	R/W EXISTING	NATURE OF TITLE ACQUIRED	RESIDUE AREA
1	MOSS, DAVID V.	DL REV	86	91	18+19+22	2.352AC	0.643AC	FS 1.709AC	
2	BURYING, ORAL GLEN EST.	DL	52	54	16+21+27	0.670AC		FS 0.670AC	
3	BENNER, LAWRENCE ET AL.	DL	54	58	19+21+27	1.900AC	0.544AC	FS 0.956AC	
4	BACKMEYER, DAVID ET UX.	DL	58	65	16+17+34	1.117AC		FS 1.117AC	
5	GRANT COL. 4H FAIR ASSOC	DL	59	80	17+34+35	39.898AC	3.194AC	FS 0.052AC	A= 36.574AC
5A		DL	70	71	17+34+35			FS 0.046AC	
5B		DL REV	71	72	0+18+34			FS 0.032AC	
5C		DL	59	60	16+17+28			TE 0.010AC	
5D		DL REV	60	61	18+28+35			TE 0.041AC	
6	TERNUME, S. O. ET UX.	DL	65	67	17+34	97.321SF		FS ACCESS RTS	A= 97.321SF
7	HERALD, THOMAS H. ET UX.	DL	67	69	17+34	43.131SF		FS ACCESS RTS	A= 43.131SF
8	MADDIX, CHARLES N. ET UX.	DL	69	71	17+34	43.393SF		FS 6.214SF	A= 37.145SF
9	PATTISON, JOHN D. ET UX.	DL	70	72	17+34	36.130SF		FS 3.450SF	A= 32.657SF
10	DEVINE, MARGARET S.	DL REV	72	73	17+34	37.111SF		FS 3.510SF	A= 33.601SF
11	MITTAN, MARION ET UX.	DL REV	73	74	17+34	33.074SF		FS 3.284SF	A= 29.390SF
12	ESTILL, DALE M. ET UX.	DL REV	75	77	17+18+35	28.046SF		FS 7.62SF	A= 27.304SF
13	NEVERSON, BILLY D.	DL REV	77	78	16+28+35	18.373SF		FS 270SF	A= 17.963SF
14	BARTLETT, ROSCOE ET UX.	DL REV	78	78	18+28+35	19.973SF		FS 1.423SF	A= 18.551SF
15	MANN, JAMES D.	DL REV	80	81	18+28+35	19.237AC	0.003AC	FS 0.014AC	A= 19.280AC
15A		DL REV	80	81	18+28+35			TE 0.022AC	
16	LEAS, WILLIAM A. ET UX.	DL REV	79	81	18+28+35	39.250SF		FS 1.379AC	A= 15.852SF
17	KRIEGBAUM FARM IMPL. CO.	DL REV	81	87	16+22+35	4.000AC	0.923AC	FS 1.279AC	A= 0.713AC B= 2.910AC
17A		SDREV	45	47	18+22+35			FS 0.075AC	
18	MARION COMM. SCHOOLS	DL	51	57	16+21+27	36.577AC	1.320AC	FS ACCESS RTS	A= 37.257AC
19	TEGGER, ALTA HME ET AL. SIDL	DL	74	74	20+21+27	1.793AC	0.121AC	FS 0.010AC	A= 1.662AC
20	LACE CO. TR. 1971 D	DL	33	34	9+23+34	1.051AC	0.106AC	FS 0.106AC	A= 0.837AC
21	STATE OF INDIANA	DL	33	36	9+23+34	2.323AC	0.323AC	IT 0.113AC	A= 1.887AC
22	SECTTOR, JULIAN V.	DL	35	37	9+23+34	1.269AC	0.127AC	FS 0.060AC	A= 1.082AC
23	ANACON, REALTY CORP.	DL	36	45	9+10+23	27.781AC	0.562AC	FS 4.642AC	A= 21.330AC B= 1.247AC
24	PLANK, LEON ET UX.	DL	36	39	9+23+34	5.660AC	1.874AC	FS ACCESS RTS	A= 3.786AC
25	MORFF, LESLIE D. ET UX. D	DL	41	51	10+20+34	3.943AC	0.325AC	FS 1.574AC	A= 1.468AC B= 0.316AC
25A		DL	45	51	10+20+34			TE 0.000AC	
26	WRI INCORPORATED	DL	45	54	10+20+34	30.400AC	0.860AC	FS 1.070AC	A= 28.304AC
26A		SIDL	59	64	10+20+34			FS 0.164AC	
27	FISCHER, MYRON J. ET UX. SIDL	DL	67	69	20+24+34	0.658AC	0.288AC	FS 0.350AC	
28	HANTORN, DANNY W. ET UX.	DL	66	74	20+24+34	1.248AC	0.328AC	FS 0.056AC	
29	CUMMINGS, R. P. 38 ET UX. SIDL	DL	51	52	20+21+34	0.225AC	0.048AC	FS 0.181AC	
30	MATTHEWS, DONALD ET AL. D	DL	54	72	11+12+26	40.179AC	1.636AC	FS 7.366AC	A= 7.340AC B= 23.827AC
30A		PRSD	5	6	20+21+34			FS 0.010AC	
31	HUTCHISON, MARY FRANCES SIDL	DL	67	68	20+21+28	0.459AC	0.239AC	FS 0.260AC	
32	MAYHARD, JOHN L. PRO	DL	73	74	12+34	3.825AC	0.134AC	FS 0.709AC	A= 0.980AC
33	STRONG, RAYMOND F. UX. PRO	DL	74	75	12+34	0.325AC	0.033AC	FS 0.069AC	A= 0.243AC
34	WAYNE, CHARLES PRO	DL	74	75	12+34	9.450AC	0.076AC	FS 0.043AC	A= 0.333AC
35	SMITH, EYRETT E. ET UX. PRO	DL	74	83	12+34	59.004AC	0.760AC	FS 2.759AC	A= 45.886AC B= 2.007AC C= 3.211AC D= 1.256AC
36	MEIR, JAMES A. ET UX. PRO	DL	75	78	12+34	1.292AC	0.097AC	FS 0.154AC	A= 0.659AC
36A		PRO	75	76	12+34			TE 0.093AC	
37	MATTHEWS, DONALD ET UX. PRO	DL	83	96	13+19+22	40.000AC	0.922AC	FS 8.945AC	A= 26.810AC B= 1.077AC C= 5.078AC
37A		DE REV	88	89	13+19+22			TE 0.013AC	
38	MARION MOTEL ASSOCIATES D	DL	30	35	9+23+34	6.500AC	0.583AC	FS 0.196AC	A= 5.741AC
39	COCHRAN, FOREST	DL	86	110	14+26+35	70.256AC	1.004AC	FS 0.070AC	A= 69.180AC
40	PARISH, JAMES E. ET AL. DL	DL	30	81	18+28+34	0.460AC	0.028AC	TE 0.028AC	A= 0.460AC

LIST OF EXCESS LANDS TO BE ACQUIRED AND A SEGREGATION BY PROJECTS OF RIGHT OF WAY AREAS AND EXCESS AND INTERESTING LANDS ARE PROJECTS HAVING DIFFERENT FEDERAL PARTICIPATING RATIOS

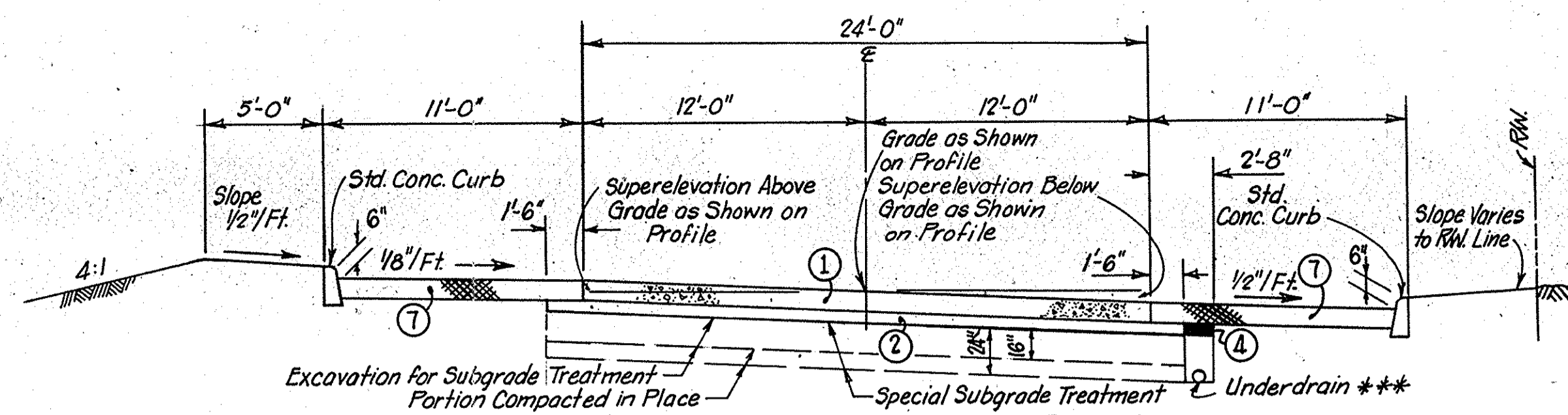
PARCEL NUMBER	TYPE OF LAND TO BE TAKEN	PROJECT ACQUIRED	PROJECT
1	EXCESS-P	0.139AC	PROJECT
2	EXCESS-P	0.130AC	PROJECT
32	EXCESS-P	0.130AC	PROJECT

REV 4-11-82 O.W. BEST  
 REV 2-16-87 S.G. STILES  
 REV 5-82 R2WILLIAMS

\* (ASTERISK) IN THE BRIDGE COLUMN INDICATES THE BRIDGE IS PARTIALLY OR COMPLETELY WITHIN THE LIMITS OF A BRIDGE PROJECT.  
 \* (ASTERISK) IN THE R/W, COLUMN INDICATES A BRIDGE TO BE REMOVED IS PARTIALLY OR COMPLETELY WITHIN THE R/W REQUIRED.  
 ACCESS RTS - ONLY ABUTTERS ACCESS RIGHTS TO BE ACQUIRED  
 IT IS TEMPORARY R/W  
 IT IS PERMANENT R/W  
 EXCESS-P - EXCESS LAND ACQUISITION UNDER TITLE 49, CODE OF FEDERAL REGULATIONS, SEC. 25.253(a)(1)(f), ELIGIBLE FOR FEDERAL AID

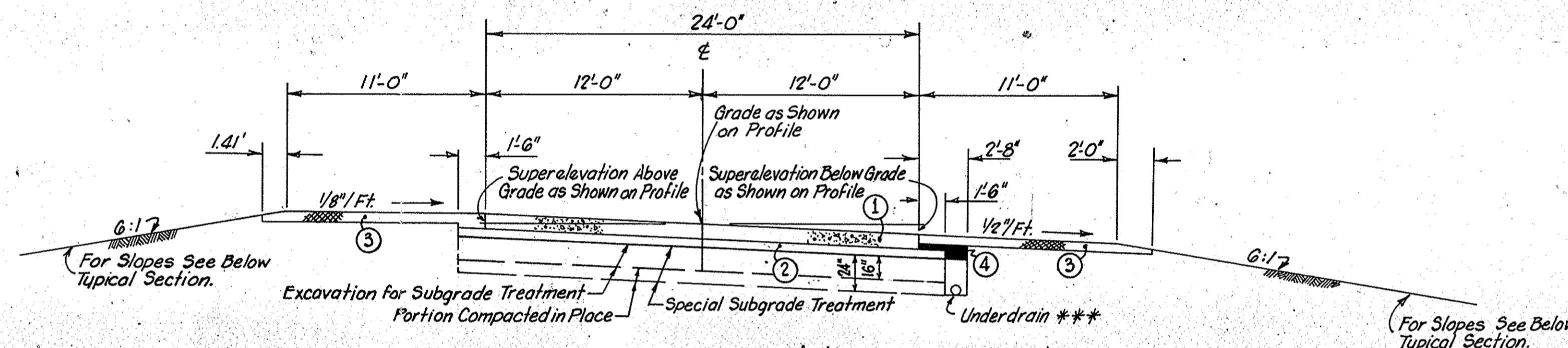


FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IND.	F-132-4(1)	1981	4	35



**TYPICAL SINGLE LANE SECTION  
WITH THICKENED SHOULDERS & CURBS**

STA. 31+00 LINE "D" TO STA. 38+35 LT. "D"  
STA. 36+26 RT. "D"



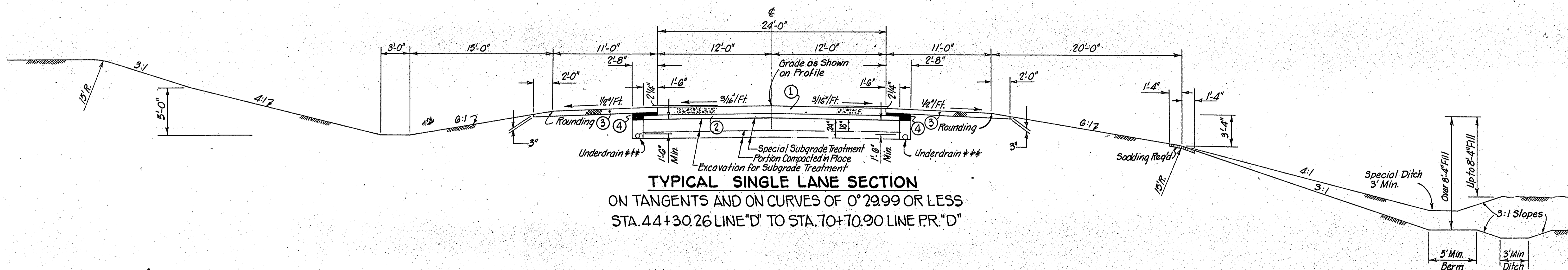
**TYPICAL SINGLE LANE SECTION  
ON CURVES TO RIGHT OF 30° OR MORE  
CURVES TO LEFT REVERSED**

STA. 38+35 LT. "D" TO STA. 44+30.26 LINE "D"  
STA. 36+26 RT. "D" TO STA. 70+70.90 LINE P.R. "D" TO STA. 86+03.08 LINE P.R. "D"

**LEGEND**

- ① 10" Plain Concrete Pavement
- ② 6" Subbase
- ③ 6.60#/Syd. Bituminous Base (Size #5D)
- ④ Open Graded Bituminous Base #5
- ⑤ 1100#/Syd. Bituminous Base (Size #5D)

\*\*\* For Details of Underdrains See Misc. Std. Sheet "M-N"



**TYPICAL SINGLE LANE SECTION  
ON TANGENTS AND ON CURVES OF 29.99° OR LESS**

**TYPICAL CROSS SECTIONS**

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

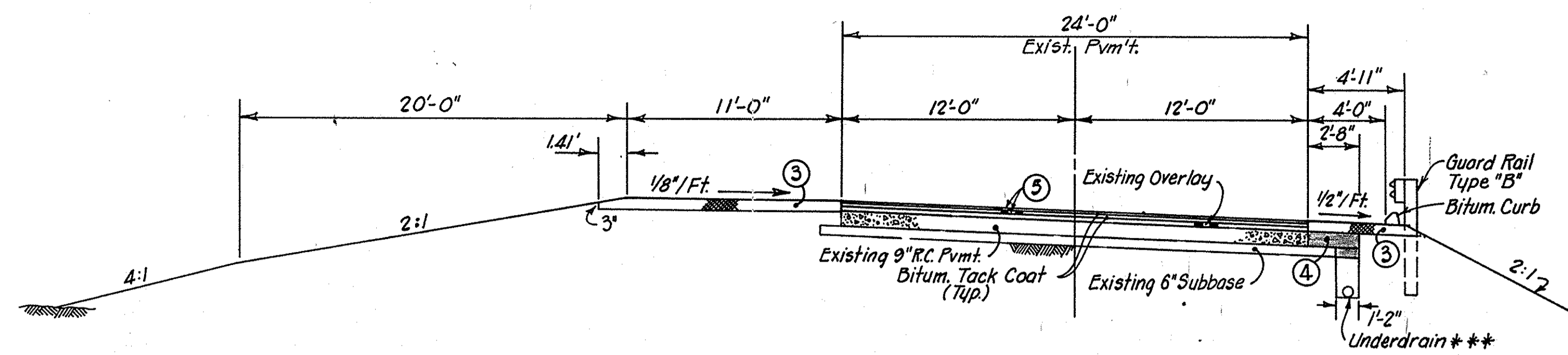
RECOMMENDED FOR APPROVAL \_\_\_\_\_

ENGINEER OF ROAD DESIGN INDIANA STATE HIGHWAY COMMISSION

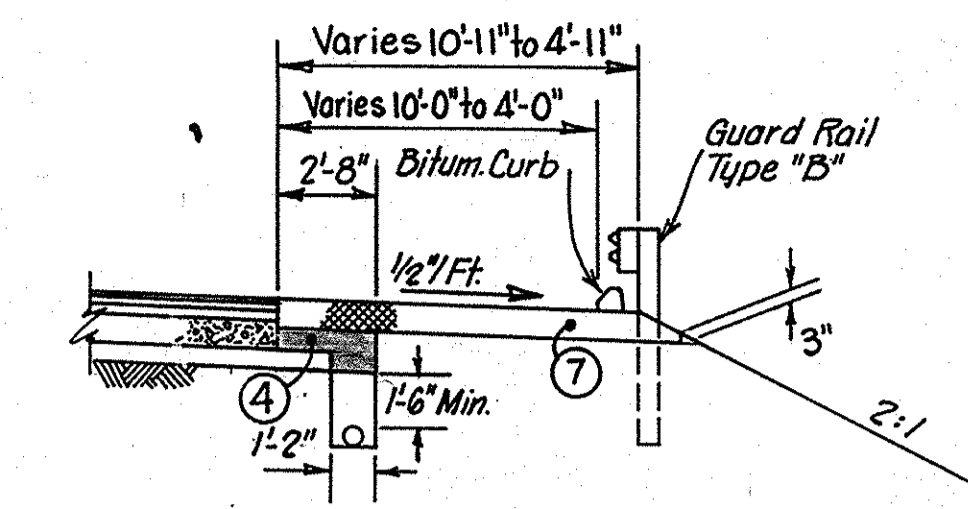
PROJECT NO.	LINE NO.	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	AS NOTED	4	35	



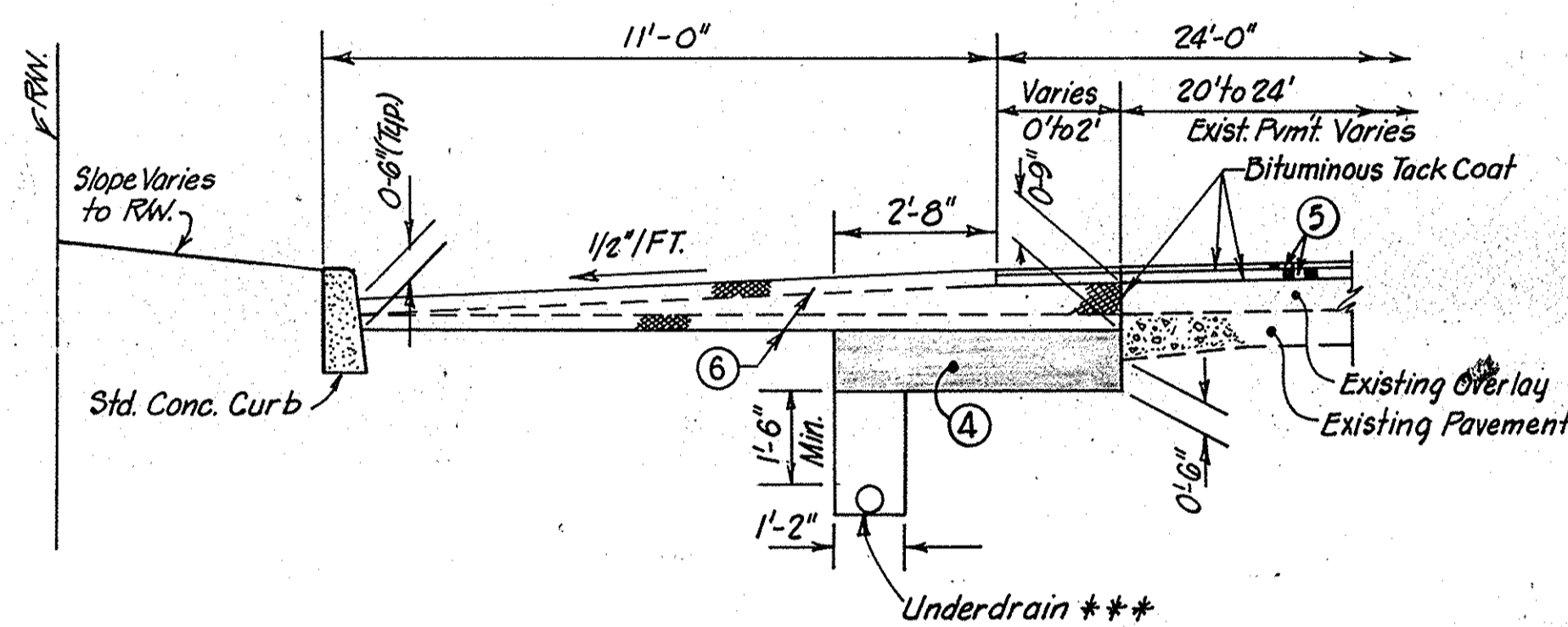
FEDERAL ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IND.	F-132-4(1)	1981	5	35



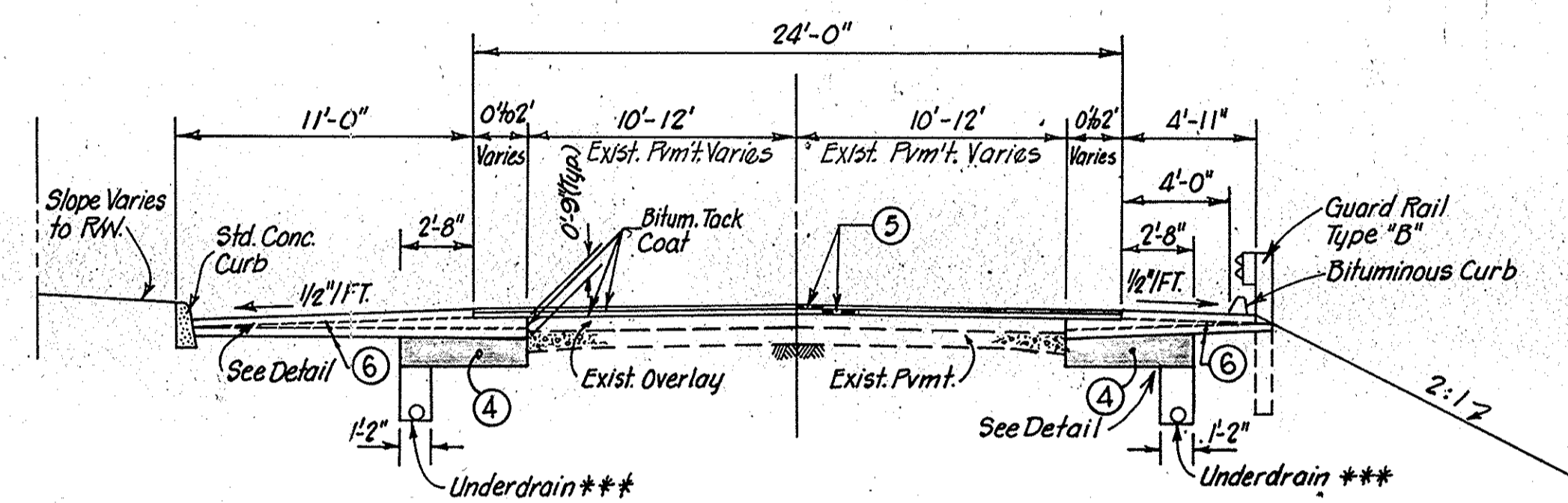
**TYPICAL WIDENING AND RESURFACE ON CURVE**  
 STA. 51+40 LINE "DL" TO STA. 60+67.37 LINE "DL"  
 SCALE: 3/16"=1'-0"



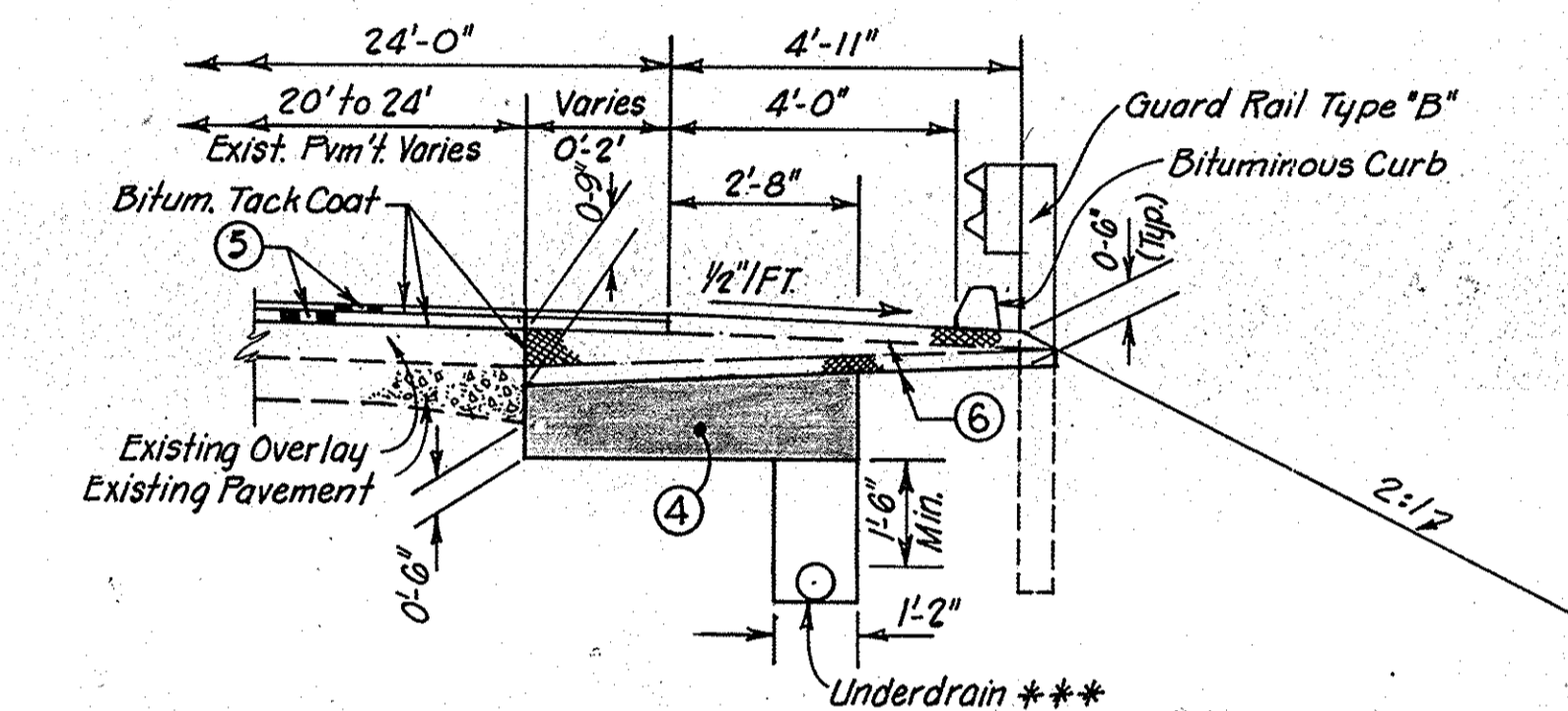
**TYPICAL THICKENED SHOULDER SECTION WITH GUARD RAIL RT.**  
 STA. 51+40 LINE "DL" TO STA. 54+65 LINE "DL"  
 SCALE: 3/16"=1'-0"



**LT. SHOULDER DETAIL**  
 SCALE: 3/8"=1'-0"



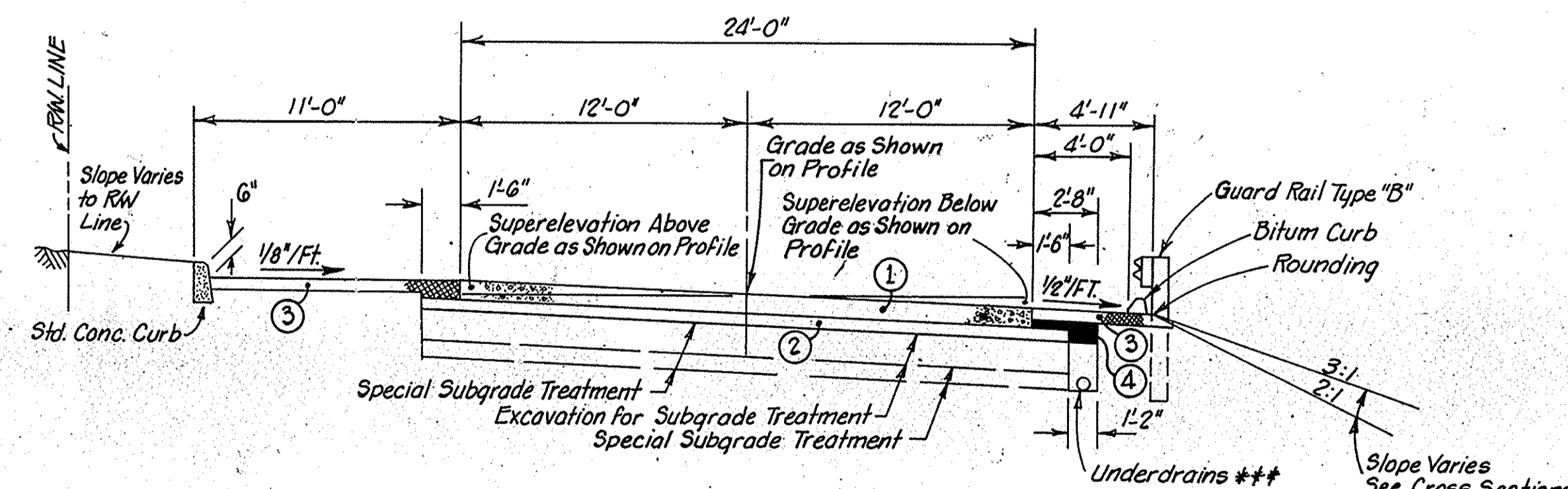
**TYPICAL WIDENING AND RESURFACE ON TANGENT**  
 STA. 60+67.37 LINE "DL" TO STA. 71+50 LINE "DL"  
 SCALE: 3/16"=1'-0"



**RT. SHOULDER DETAIL**  
 SCALE: 3/8"=1'-0"

**LEGEND**

- ① 10" Plain Concrete Pavement
  - ② 6" Subbase
  - ③ 660#/Sq. Yd. Bituminous Base (Size #5D)
  - ④ Open Graded Bituminous Base #5
  - ⑤ Bituminous Overlay  
 10 Lbs./Sq. Yd. Bituminous Surface Type II on  
 220 Lbs./Sq. Yd. Bituminous Binder No. 8 or No. 9
  - ⑥ Bituminous Mixture For Shoulders -  
 1320 Lbs./Sq. Yd. Maximum Bituminous  
 Base Size #5D With Type 2 Seal Coat
  - ⑦ 1100#/Sq. Yd. Bituminous Base (Size #5D).
- \*\*\* For Details of Underdrains See Misc. Std. Sheet MN.



**TYPICAL SINGLE LANE SECTION ON CURVE WITH CURB AND GUARD RAIL**  
 STA. 71+50 LINE "DL" TO STA. 82+00 LT LINE "DL" REV.  
 STA. 80+25 RT LINE "DL" REV.  
 SCALE: 3/16"=1'-0"

**TYPICAL CROSS SECTIONS**

SCALE: AS SHOWN

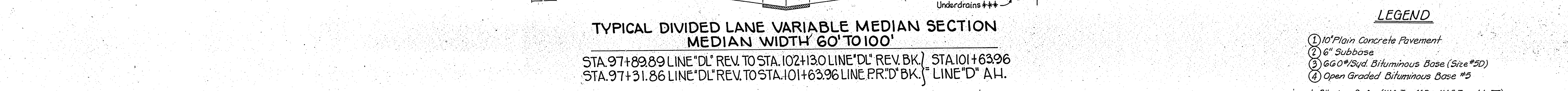
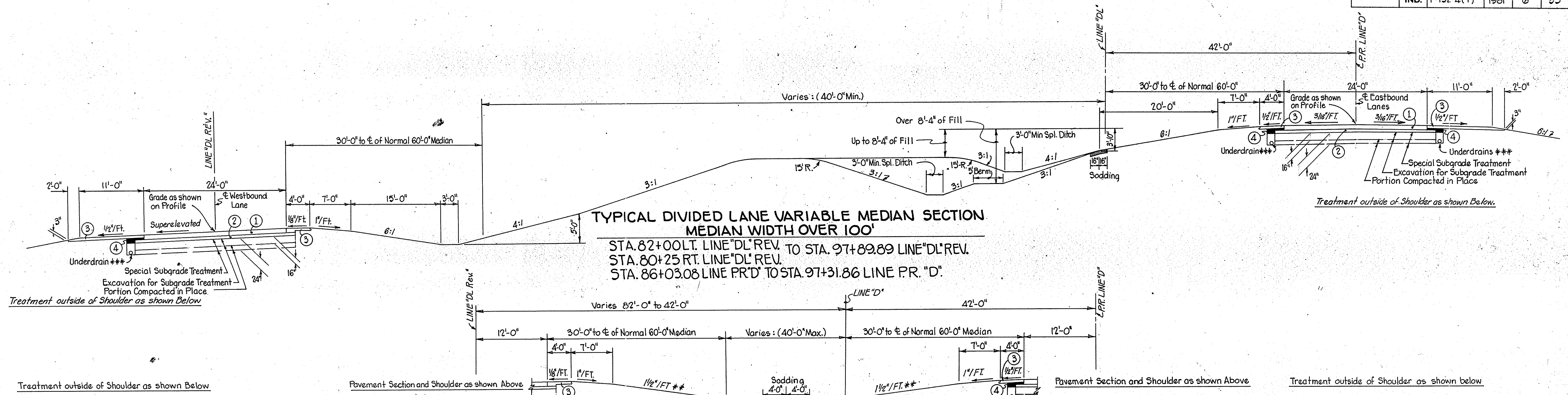
RECOMMENDED FOR APPROVAL \_\_\_\_\_

ENGINEER OF ROAD DESIGN INDIANA STATE HIGHWAY COMMISSION

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	AS NOTED	5	35	

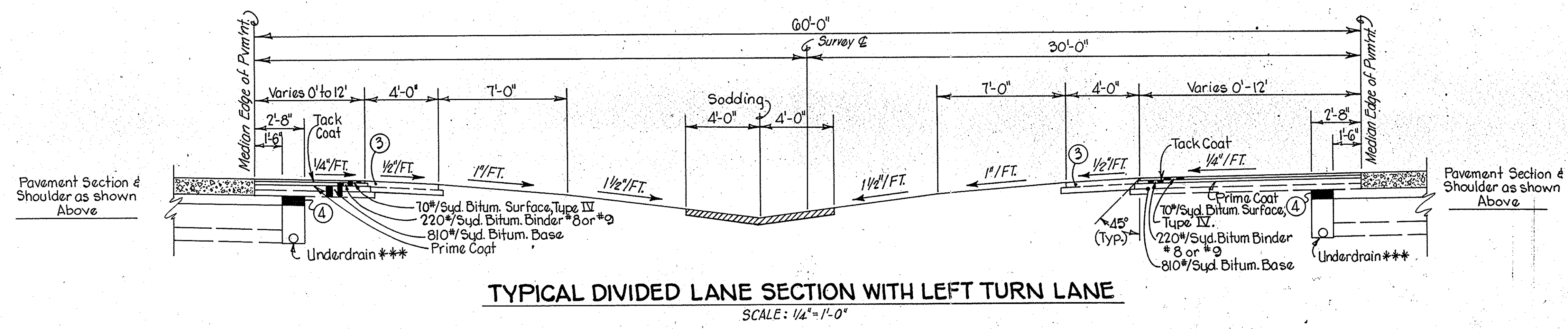
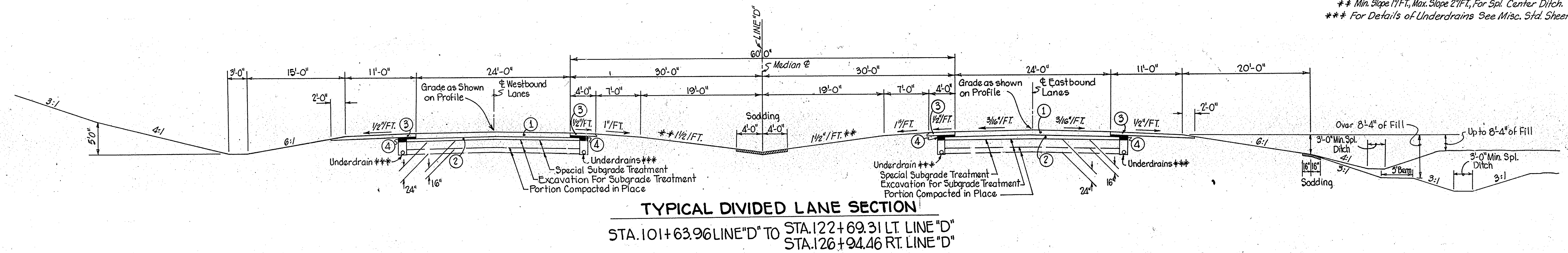


FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IND.	F-132-4(1)	1981	6	35



**LEGEND**

- ① 10" Plain Concrete Pavement
  - ② 6" Subbase
  - ③ 60#/Sqd. Bituminous Base (Size #5D)
  - ④ Open Graded Bituminous Base #5
- \* Bituminous Surfaces (HAC, Type 11B or HAE, Type 11-III)  
 \*\* Min. Slope 1 1/2" FT., Max. Slope 2 1/2" FT., For Spl. Center Ditch.  
 \*\*\* For Details of Underdrains See Misc. Std. Sheet "M-N"



**TYPICAL CROSS SECTIONS**

SCALE: 1/8" = 1'-0"

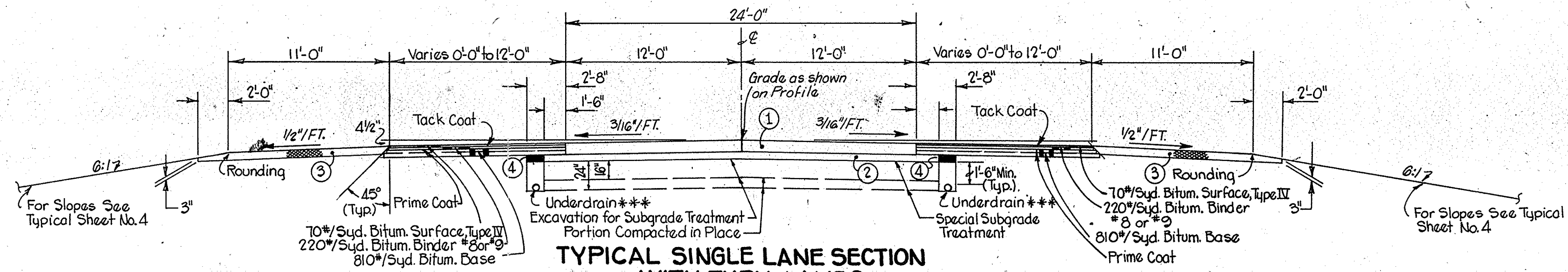
RECOMMENDED FOR APPROVAL \_\_\_\_\_

ENGINEER OF ROAD DESIGN - INDIANA STATE HIGHWAY COMMISSION

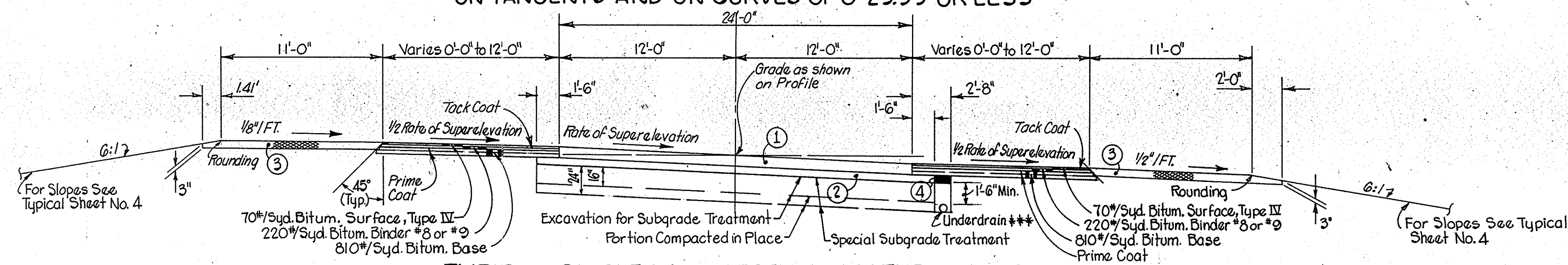
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	AS NOTED	6	35	



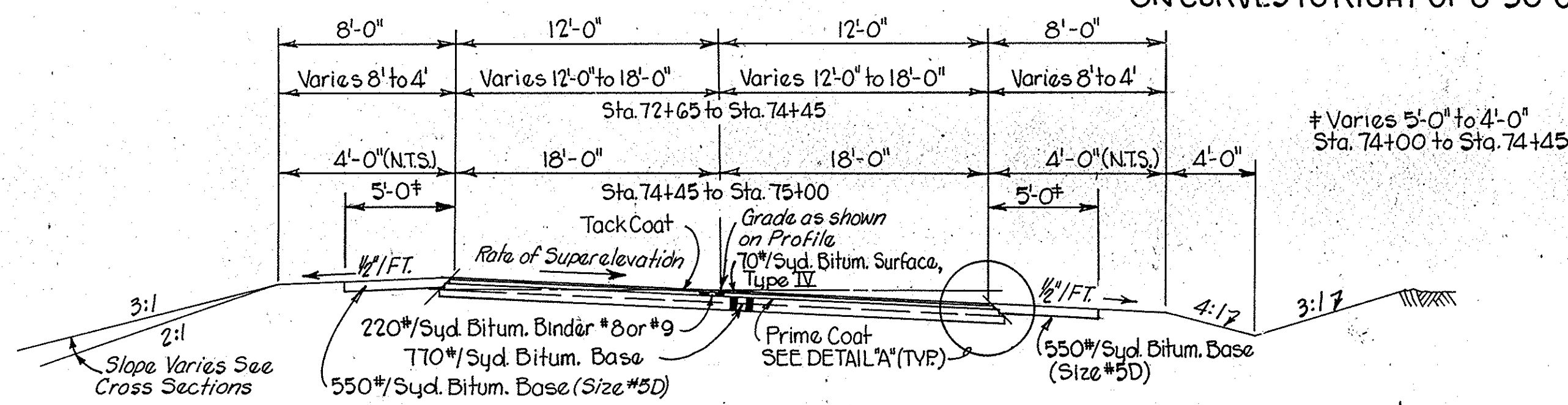
FEDERAL ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IND.	F-132-4(1)	1981	7	35



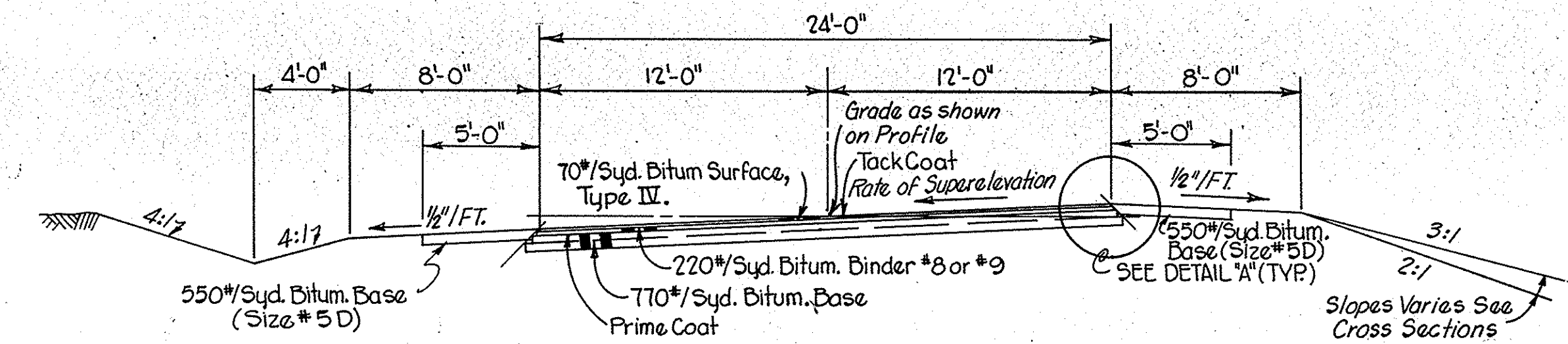
**TYPICAL SINGLE LANE SECTION WITH TURN LANES ON TANGENTS AND ON CURVES OF 0° 29.99' OR LESS**



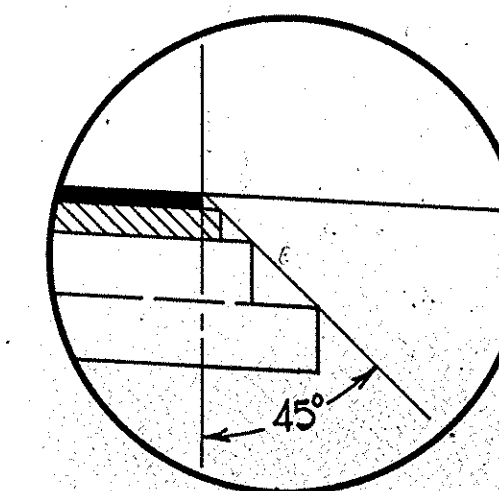
**TYPICAL SINGLE LANE SECTION WITH TURN LANES ON CURVES TO RIGHT OF 0° 30' OR MORE, CURVES TO LEFT REVERSED.**



**TYPICAL SECTION LINE "S-1-DL"**



**TYPICAL SECTION LINE "S-2-D" REV.**

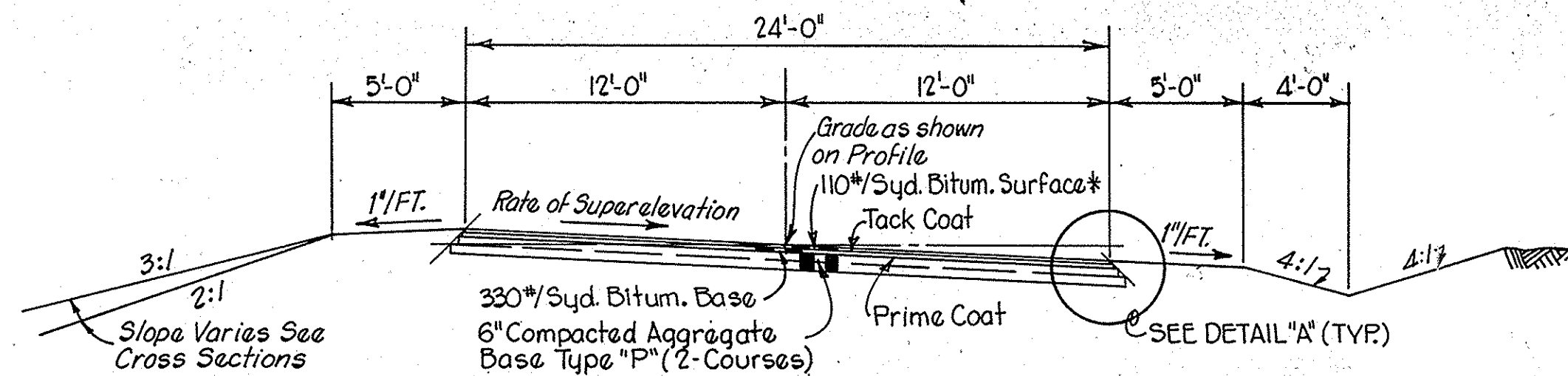


**DETAIL "A" NO SCALE**

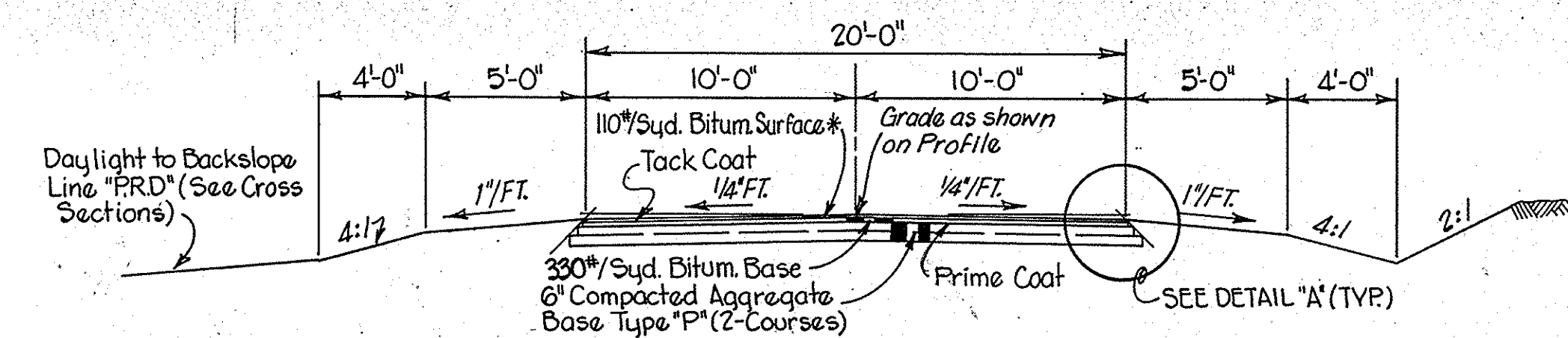
**LEGEND**

- ① 10" Plain Concrete Pavement
- ② 6" Subbase
- ③ 660#/Syd. Bituminous Base (Size #5D)
- ④ Open Graded Bituminous Base #5

\* Bituminous Surface (H.A.C., Type I or H.A.E., Type I-III)  
 \*\*\* For Details of Underdrains See Misc. Std. Sheet "M-N"



**TYPICAL SECTION LINE PR. S2 OF "S-1-DL"**



**TYPICAL SECTION LOCAL SERVICE ROAD NO. 1**

**TYPICAL CROSS SECTIONS**

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

RECOMMENDED FOR APPROVAL \_\_\_\_\_

ENGINEER OF ROAD DESIGN INDIANA STATE HIGHWAY COMMISSION

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	AS NOTED	7	35	

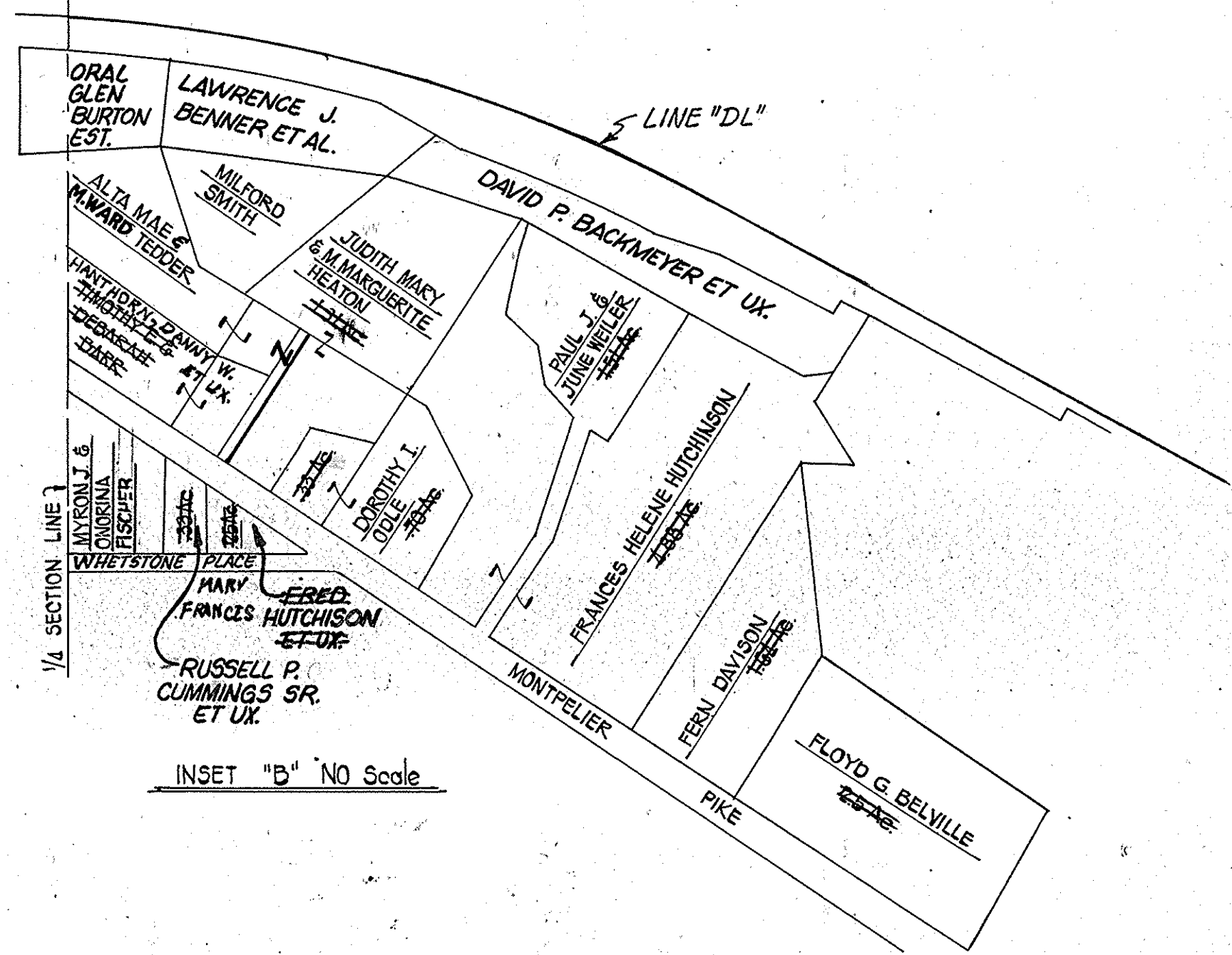
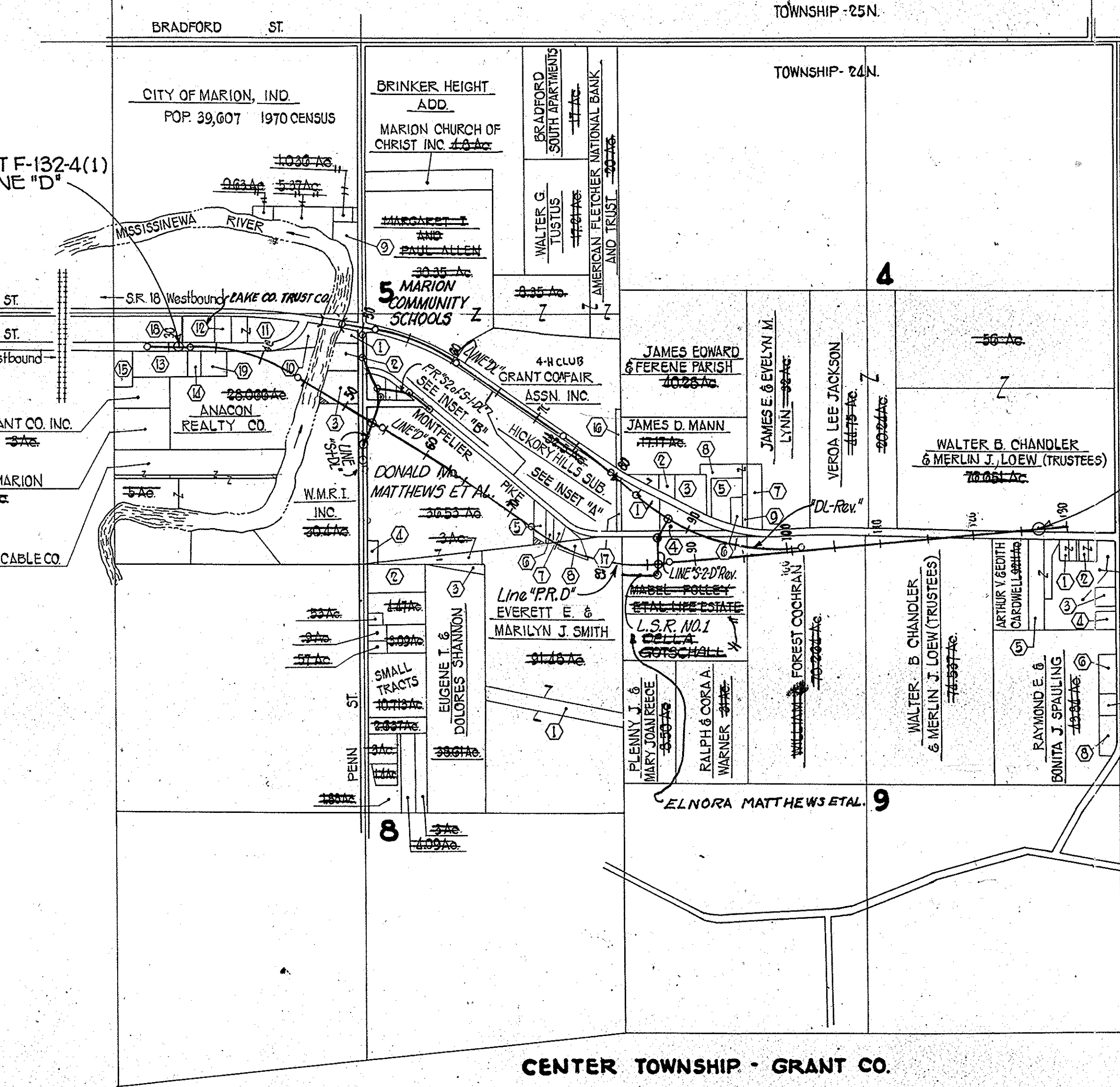


SECTION 5-T-24N-R-8E

- 1 PAUL & MARGARET I. ALLEN 1.00 Ac.
- 2 EDWARD W. & MARY E. DISKEY 3.00 Ac.
- 3 LESLIE DALE & HESTER WOLFF 3.00 Ac.
- 4 INDIANA NORTHERN UNIVERSITY, INC. 7.07 Ac.
- 5 JOHN L. MAYNARD 1.75 Ac.
- 6 RAYMOND STRONG ET UX. 0.5 Ac.
- 7 CHARLES WAYMIRE 9.175 Ac.
- 8 WAYNE W. & A. ELAINE HOFFMAN 0.80 Ac.
- 9 LEON & BARBARA SUE PLANK 5.30 Ac.
- 10 JULIAN V. SECTOR 1.150 Ac.
- 11 JACOB WEINBURG 2.30 Ac.
- 12 JOSEPH E. DOBIE 1.00 Ac.
- 13 U.S.A. (Post Office)
- 14 GRANT CO. FAIR ASSN. JAMES E. PARISH ET AL. 0.5 Ac.
- 15 DAVID P. & VIRGINIA BACKMEYER
- 16 LAKE CO. TRUST CO. MARION HOTEL ASSOCIATES 1.000 Ac.
- 17 GOVERNMENT STATE OF INDIANA 2.0 Ac.

SECTION 4-T-24N-R-8E

- 1 KRIEGBAUM FARM IMPLEMENT CO. 60 Ac.
- 2 KRIEGBAUM FARM EQUIPMENT CO. INC. 4.11 Ac.
- 3 DAVID V. & KAREN L. HOSS 1.50 Ac.
- 4 PHILIP W. & THELMA CULBER 1.0 Ac.
- 5 JAMES JR. & CAPTOLA J. SMITH 1.0 Ac.
- 6 LAURA CLOUSE 3.0 Ac.
- 7 LESLIE D. & HESTER WOLFF 2.8 Ac.
- 8 ALFONZO HALL 5.0 Ac.



INSET "D" NO Scale

END PROJECT F-132-4(1)  
STA. 126+94.46 LINE "D"

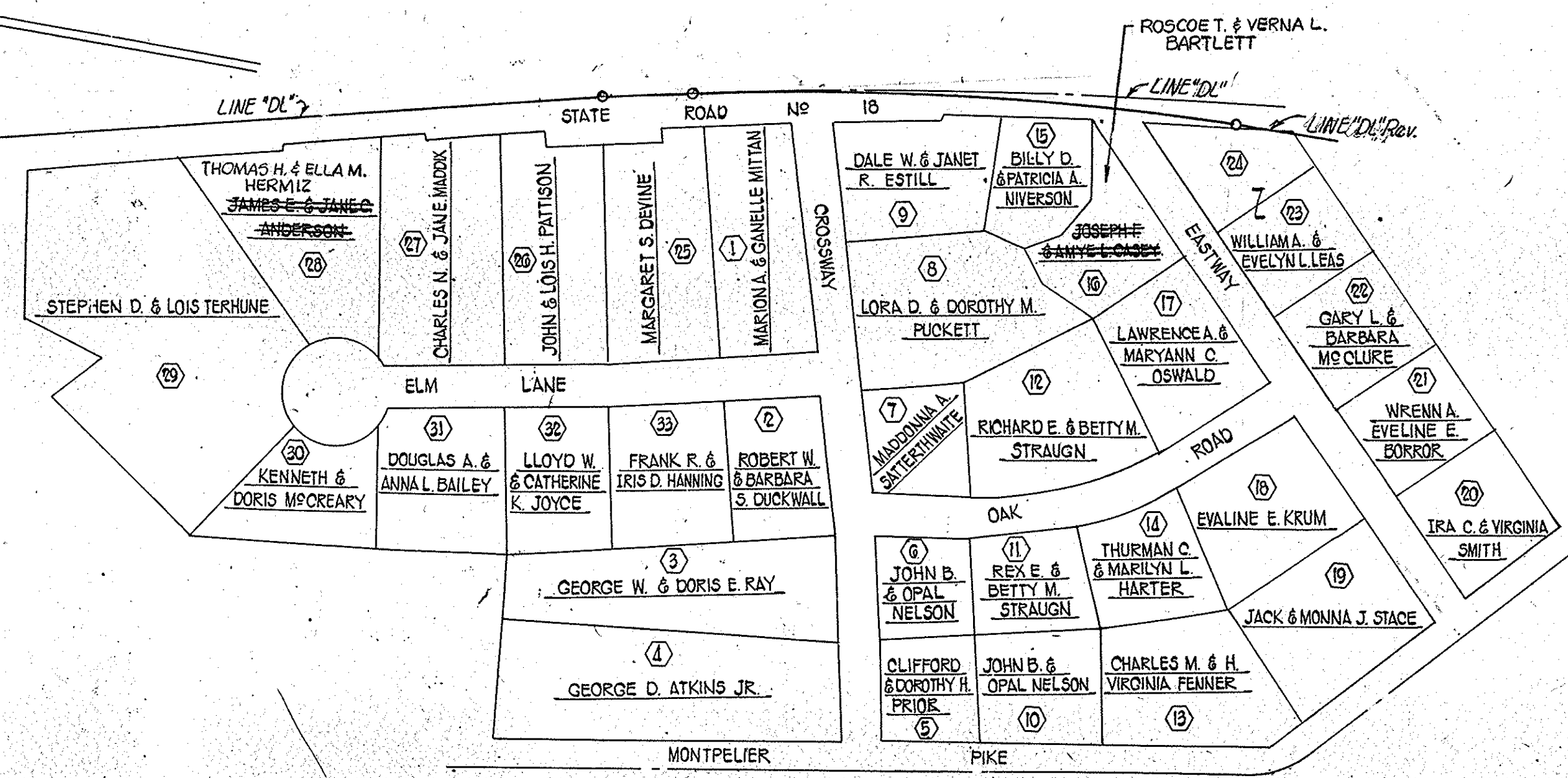
LANDLOCKED - NO ACCESS PROVIDED

SECTION 8-T-24N-R-8E

- 1 INDIANA & MICHIGAN ELECTRIC CO. 2.72 Ac.
- 2 PAUL E. & RUTH M. KING 5 Ac.
- 3 CHARLES WAYMIRE 30.25 Ac.
- 4 JAMES A. & HOLLY BETH WEIR 30.75 Ac.
- 5 JAMES A. & HOLLY BETH WIER 30.25 Ac.

SECTION 9-T-24N-R-8E

- 1 ROBERT E. & SHARON K. SHERMAN 0.500 Ac.
- 2 RUSSELL E. & JUNE A. TROYER 0.151 Ac.
- 3 SHIRLEY A. & JANET BISHOP 0.172 Ac.
- 4 PATRICK E. & MARGARET J. FOREMAN 1 Ac.
- 5 BILLIE JOE & RUTH JOAN HODGE 1 Ac.
- 6 ORA WILLIAM & GEORGIANA JONES 3.915 Ac.
- 7 HERBERT WILLIAM & LOIS BREWER 2 Ac.
- 8 HOMER WILLIAM & MYRTLE NEVA WAGONER 1 Ac.
- 9 DELMARE & FRANCES BARNES 1 Ac.



INSET "A" Scale: 1"=150'

PLAT NO.1 FOR  
DESIGN DEPT.

SHEET 1 OF 1  
Scale: 1"=1000'



I-MONUMENT TYPE "D" REQ'D AT P.I. 31+00 "D"

STREET APPROACH REQ'D STA. 34+61.17 W=40' L=29'

FOR INTERSECTION DETAILS SEE SHEET NO. 23

SP TYPE "B" PUB. RD. APPR. STA. 38+00 L=24 L=62 @ 110°

I-MONUMENT TYPE "B" REQ'D AT P.I. 38+50.13 "D"

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	9	35

BEGIN PROJECT F-132-4(1) STA. 31+00 LINE "D"

PLAN  
 A.H. MCCASLIN  
 American Consulting Eng. 12/79  
 No. 0023/L  
 STRUCTURE NOTATIONS CHECKED

- LEGEND**
- ⊕ BEGIN L.A. RW, A.C.L. & F.F.T.F.
  - ⊖ END L.A. RW, A.C.L. & F.F.T.F.
  - ⊗ BEGIN L.A. RW & A.C.L.
  - ⊙ END L.A. RW & A.C.L.
  - ⊠ STD. CONCRETE CURB

PROFILE  
 A.H. MCCASLIN  
 American Consulting Eng. 12/79  
 No. 0023/L  
 STRUCTURE NOTATIONS CHECKED

"ALL RW ON THIS SHEET TO BE AS SHOWN." LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED. ALL RW ON THIS SHEET DESCRIBED FROM LINE "D". POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS.

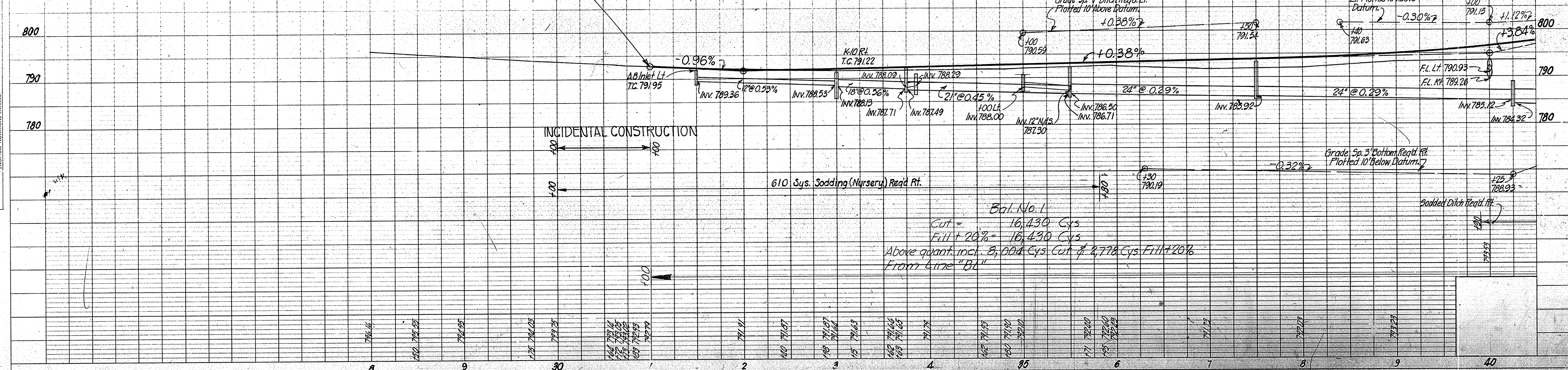
STA. 34+61.17 LINE "D"	STREET APPR.
STA. 38+00 LT. LINE "D"	SP TYPE "B" PUB. RD. APPR.
STA. 38+00 RT. LINE "D"	CLASS "I" DRIVE

BEGIN PROJECT F-132-4(1) STA. 31+00 LINE "D" ELEV. 792.79

PVI @ 100  
791.83  
V.C. = 200'

B.M. #1 "CR" Arrowhead @ Top of Fire Hyd. 24" Rf. Sta. 27+25.6 "D" Elev. 799.64  
B.M. #2 "CR" 1 Cut on N. Bolt @ Top Fire Hyd. 06" Rf. Sta. 35+08 "D" Elev. 798.75

PVI @ 100  
794.87  
V.C. = 400'



Bal. No. 1  
Cut = 16,430 Cys  
Fill + 20% = 16,430 Cys  
Above quant. incl. 8,004 Cys Cut & 8,778 Cys Fill + 20%  
From Line "B"

PLATE 1 - PLAN - PROFILE - R. R. STANDARD 1975

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	"D"	9	35	



REV. 4-14-82 R/W STA. 49+25 TO STA. 52+ (LTR. 4-13-82)  
ALSO ELIMINATED PARCEL 25 EXCESS LAND. O.W. BEST

REV. 11-17-81 Re MISSISSIPPI RIVER R/W & BRG. LINE "S-I-D"  
ADDED Re PARCEL 25 & R/W PARCEL 26A R.L. Willhite

I-MONUMENT TYPE "D" REQ'D  
AT POT. 52+77.79"D

FOR LINE "S-I-D" SEE  
SHEET NOS. 20 & 21

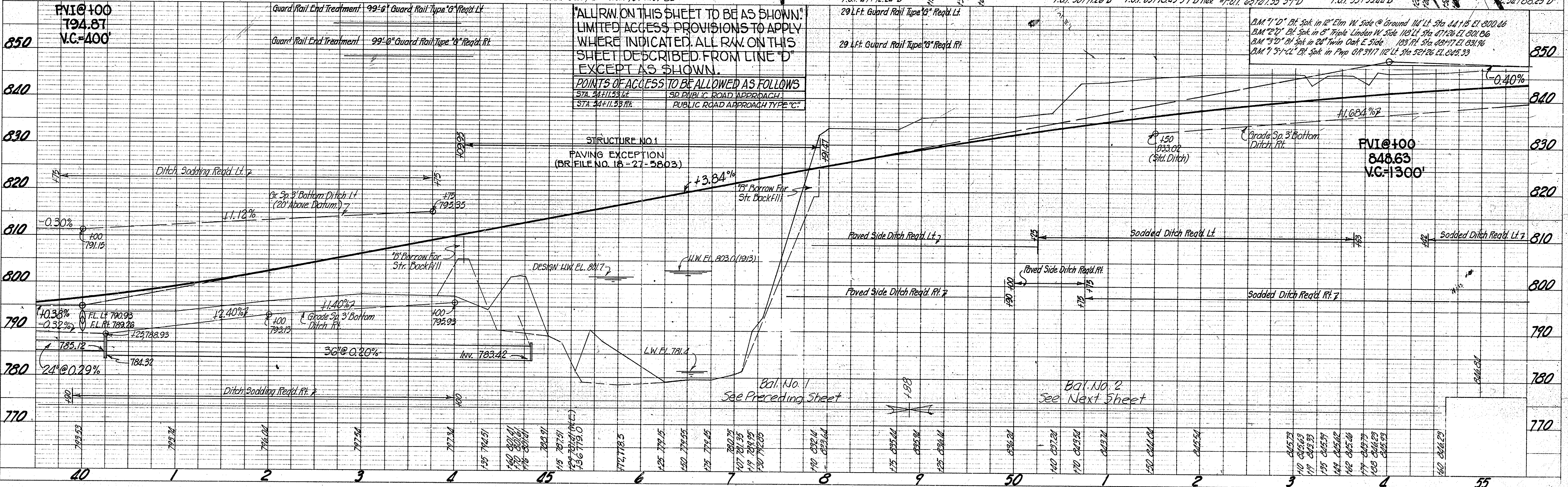
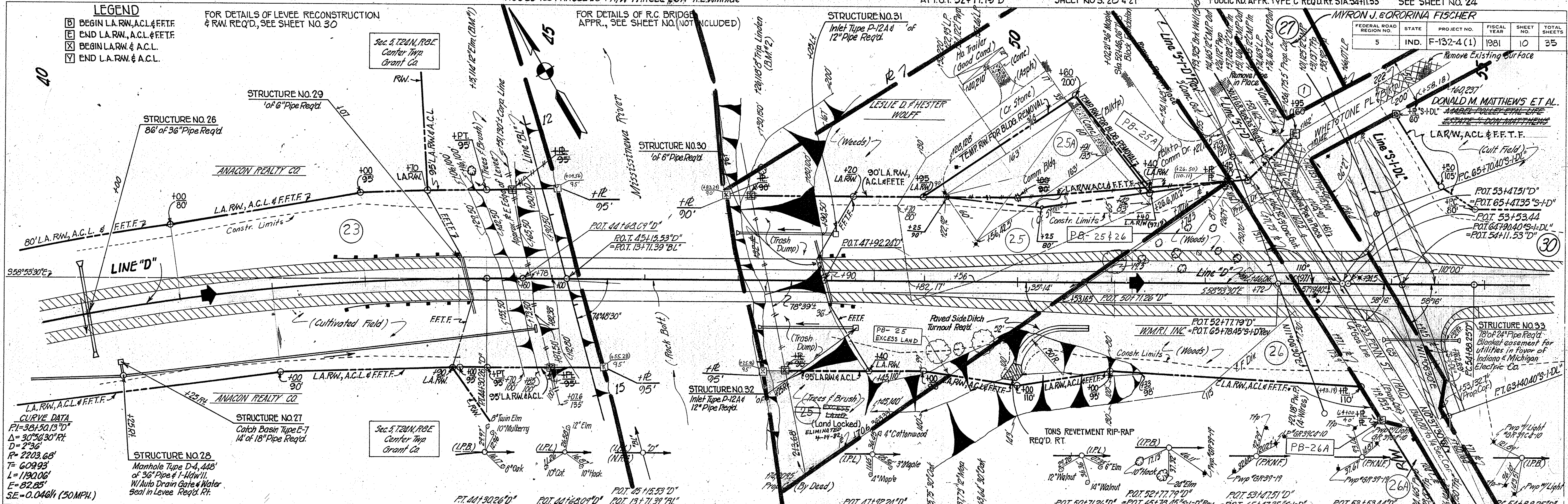
FOR INTERSECTION DETAILS  
SEE SHEET NO. 24

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	10	35

- LEGEND**
- BEGIN L.A. RW, A.C.L. & F.F.T.F.
  - ▭ END L.A. RW, A.C.L. & F.F.T.F.
  - ⊠ BEGIN L.A. RW & A.C.L.
  - ⊞ END L.A. RW & A.C.L.

FOR DETAILS OF LEVEE RECONSTRUCTION  
& RW REQ'D, SEE SHEET NO. 30

FOR DETAILS OF R.C. BRIDGE  
APPR., SEE SHEET NO. (NOT INCLUDED)



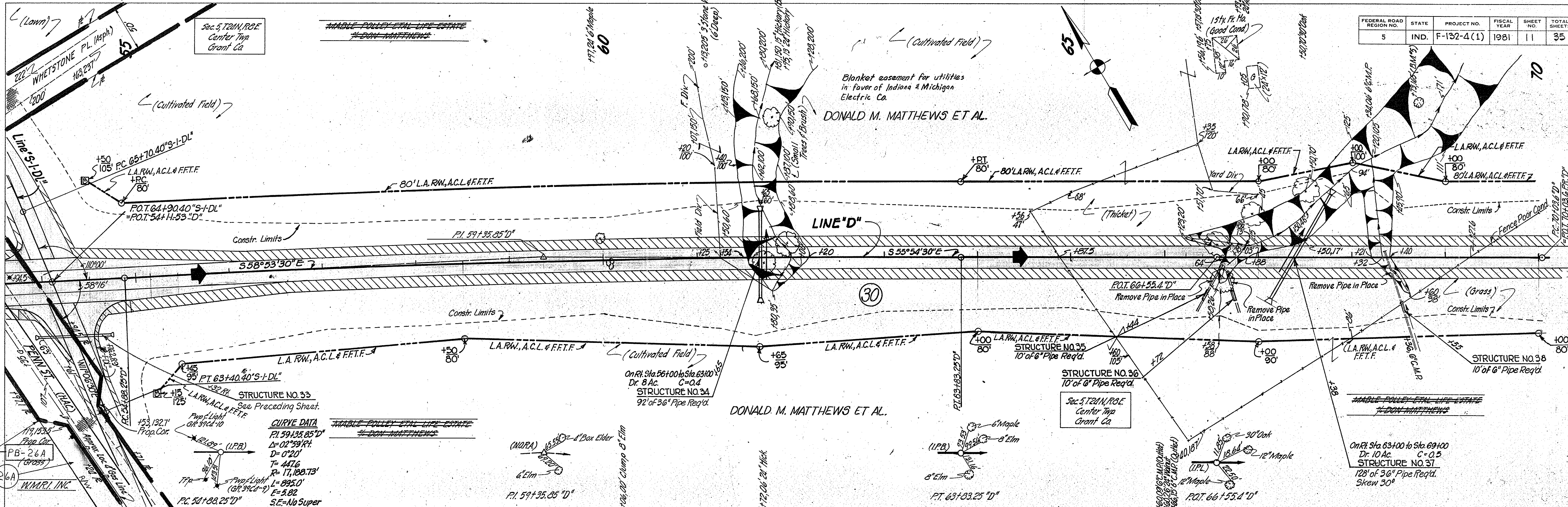
**"ALL RW. ON THIS SHEET TO BE AS SHOWN."  
LIMITED ACCESS PROVISIONS TO APPLY  
WHERE INDICATED. ALL RW. ON THIS  
SHEET DESCRIBED FROM LINE "D"  
EXCEPT AS SHOWN.**

**POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS**

**FVI@+100  
848.63  
V.C.=1300'**

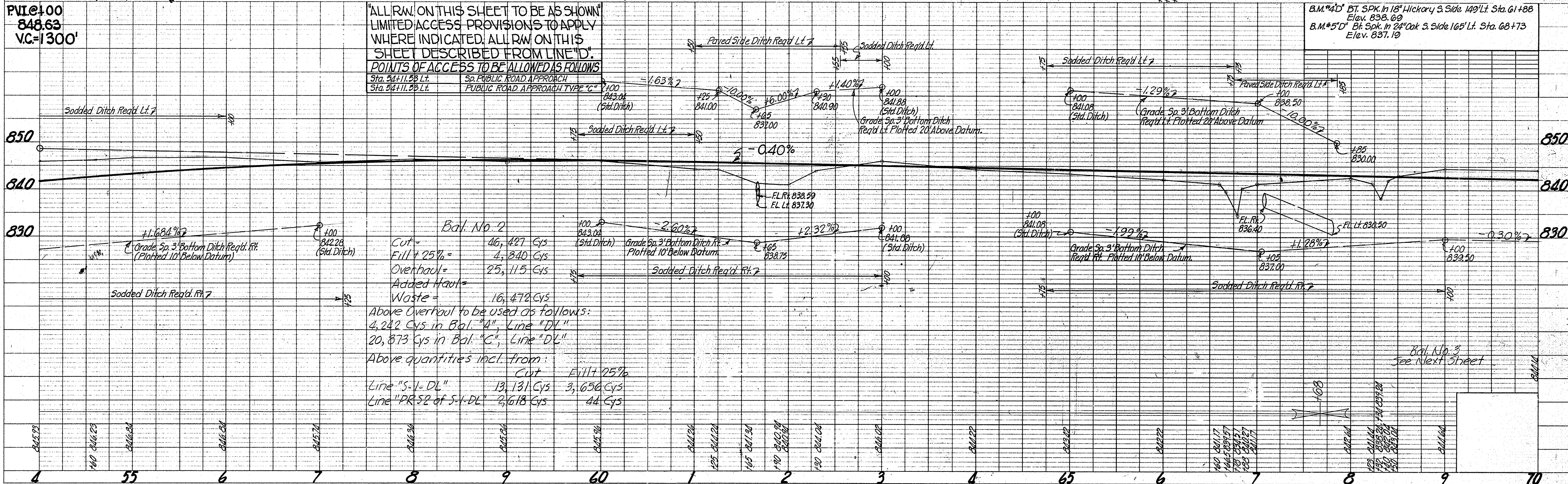


FEDERAL ROAD REGION	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	11	35



PLAN  
 SURVEYED BY: H.R. McCoslin  
 PLOTTED BY: H.R. McCoslin  
 CHECKED BY: B.A. NORD  
 DATE: 1-16-79  
 NOTE BOOK NO. 10207  
 STRUCTURE NOTATIONS CHECKED

PROFILE  
 SURVEYED BY: H.R. McCoslin  
 PLOTTED BY: H.R. McCoslin  
 CHECKED BY: B.A. NORD  
 DATE: 1-16-79  
 NOTE BOOK NO. 10207  
 STRUCTURE NOTATIONS CHECKED



ALL R.W. ON THIS SHEET TO BE AS SHOWN LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED. ALL R.W. ON THIS SHEET DESCRIBED FROM LINE "D". POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS

Sta. 54+11.58 Lt.	Sp. PUBLIC ROAD APPROACH
Sta. 54+11.58 Lt.	PUBLIC ROAD APPROACH TYPE "C"

Above Overhaul to be used as follows:  
 4,242 Cys in Bal. "A", Line "DL"  
 20,873 Cys in Bal. "C", Line "DL"  
 Above quantities incl. from:  
 Line "S-1-DL" 13,131 Cys 3,650 Cys  
 Line "PR-52 of S-1-DL" 2,618 Cys 44 Cys



I-MONUMENT TYPE "C" REQ'D AT P.C. 70+10.90 "PR.D"

I-MONUMENT TYPE "B" REQ'D AT P.O.C. 78+50 "PR.D"

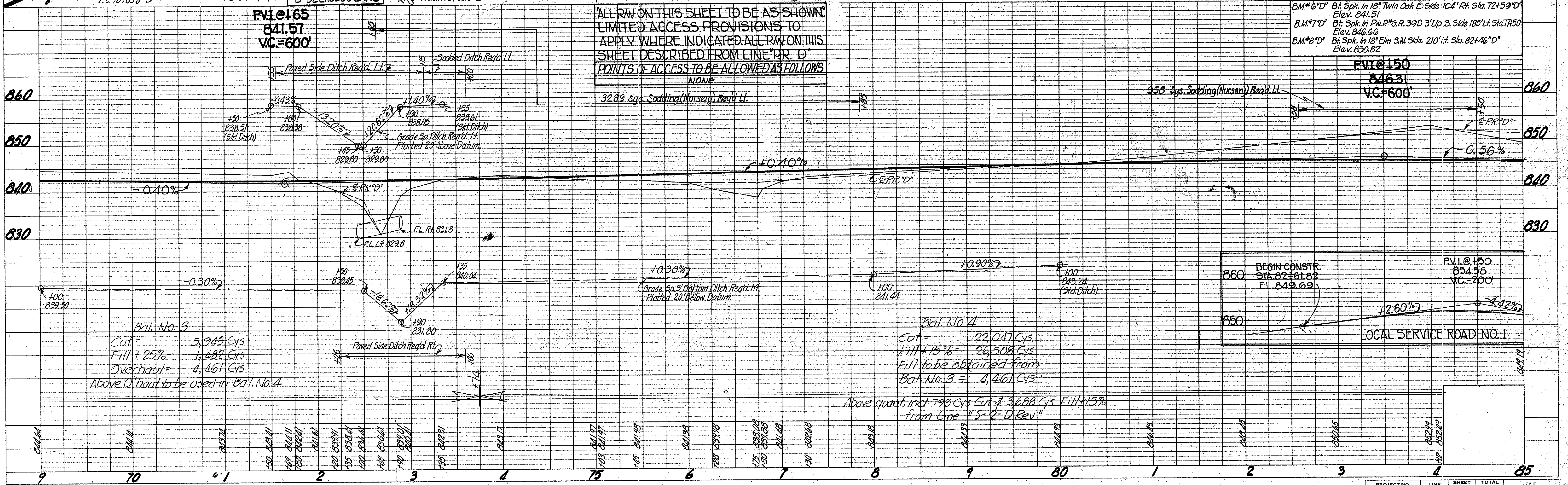
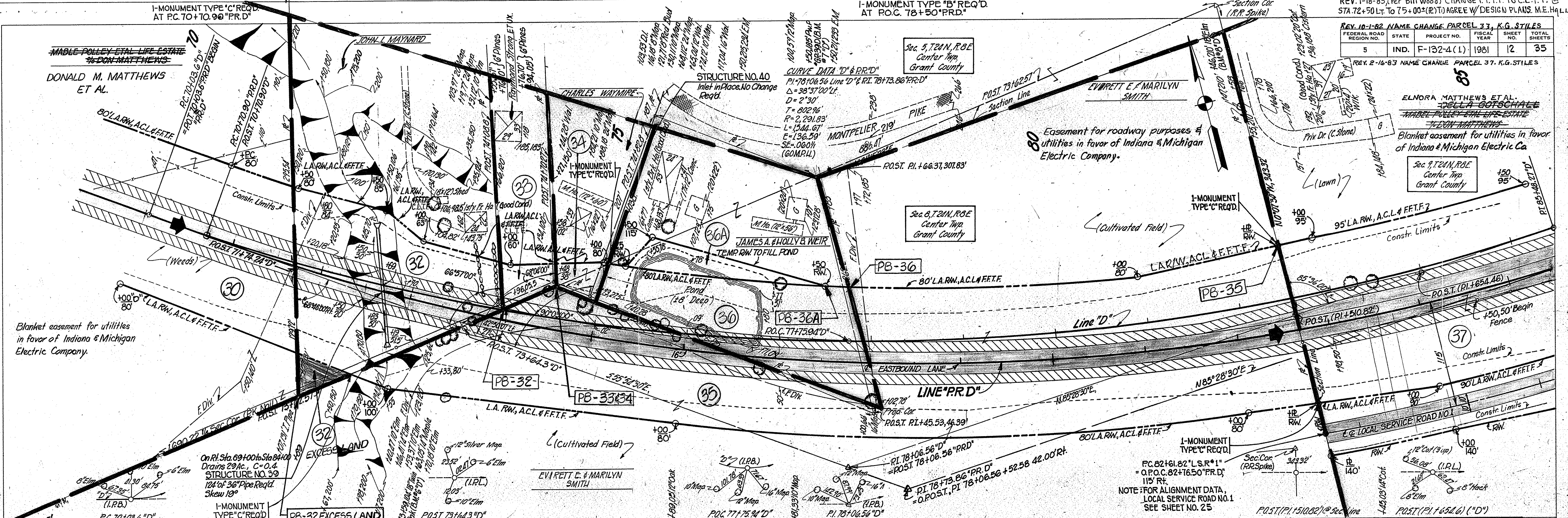
REV. 1-18-83, (Per Bill Wood) CHANGE F.E.T.F. TO C.L.T.F. @ STA. 72+50 LT. TO 75+00 (R) TO AGREE W/ DESIGN PLANS, M.E. HALL

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	12	35

REV. 2-16-83 NAME CHANGE PARCEL 37, K.G. STILES

PLAN  
 SHEETED  
 PLOTTED  
 NOTE BOOK  
 NO. 10207  
 L. R. McCaslin  
 American Civil Engineers  
 No. 127-79

PROFILE  
 SHEETED  
 PLOTTED  
 NOTE BOOK  
 NO. 10207  
 L. R. McCaslin  
 American Civil Engineers  
 No. 127-79



ALL RW ON THIS SHEET TO BE AS SHOWN, LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED. ALL RW ON THIS SHEET DESCRIBED FROM LINE "PR. D" POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS

NONE
------

BM #6 "D" Bt. Spk. in 18" Twin Oak E. Side 104' Rt. Sta. 72+59.0'  
 Elev. 841.51  
 B.M. #7 "D" Bt. Spk. in P.M. #R. 390 3' Up S. Side 183' Lt. Sta. 74.50  
 Elev. 846.66  
 B.M. #8 "D" Bt. Spk. in 18" Elm S.W. Side 210' Lt. Sta. 82+46 "D"  
 Elev. 850.82

Bal. No. 3  
 Cut = 5,943 Cys  
 Fill + 25% = 1,482 Cys  
 Overhaul = 4,461 Cys  
 Above O'haul to be used in Bal. No. 4

Bal. No. 4  
 Cut = 22,047 Cys  
 Fill + 15% = 26,508 Cys  
 Fill to be obtained from Bal. No. 3 = 4,461 Cys  
 Above quant. incl. 793 Cys Cut & 3,688 Cys Fill + 15% from Line "S-D-Rev"







I-MONUMENT TYPE "D" REQ'D.  
AT P.O.T. 101+63.96 PR "D".

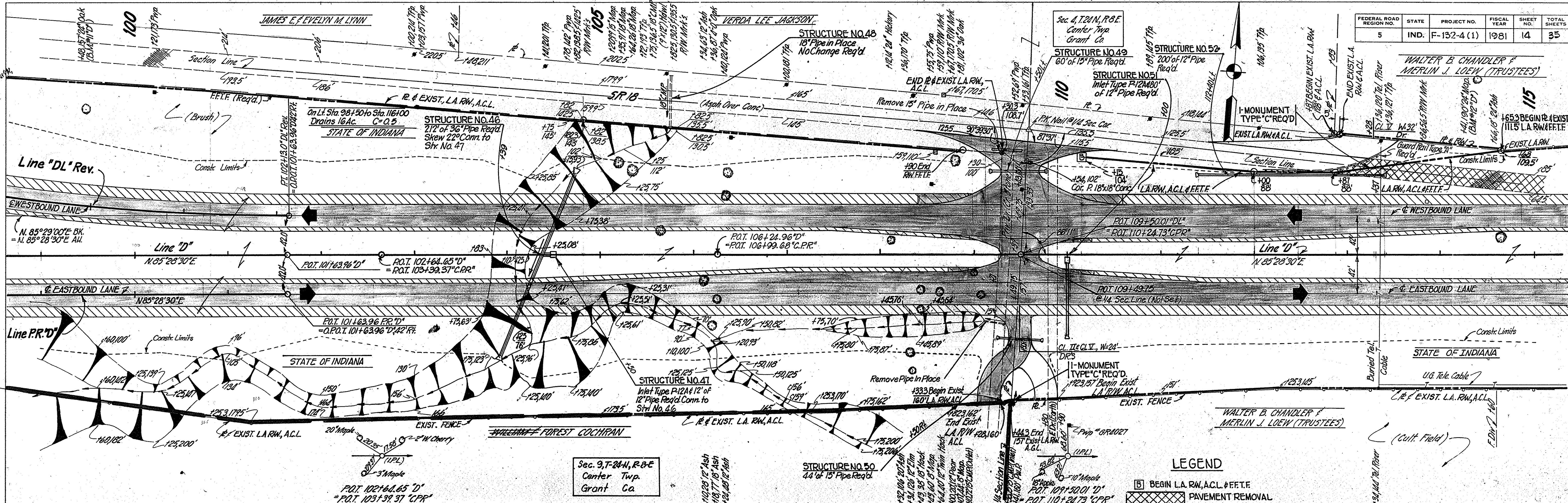
I-MONUMENT TYPE "C" REQ'D.  
AT P.O.T. 102+64.65 "D".

PUBLIC RD. X-OVER FLEXIBLE PAVT. TYPE  
REQ'D. STA. 109+50.00 LINE "D".

PUBLIC RD. X-OVER FLEXIBLE PAVT. TYPE  
REQ'D. STA. 109+50.00 LINE "D". LT.

FOR INTERSECTION DETAILS  
SEE SHEET NO. 26

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	14	35



Sec. 9, T-24-N, R-8-E  
Center Twp.  
Grant Co.

**LEGEND**

- BEGIN L.A. RW, A.C.L. # F.E.T.F.
- ▨ PAVEMENT REMOVAL

**"ALL RW ON THIS SHEET TO BE AS SHOWN"**  
LIMITED ACCESS PROVISIONS TO APPLY  
WHERE INDICATED ALL RW ON THIS  
SHEET DESCRIBED FROM LINE "D".  
POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS

STA. 109+50.00 LINE "D"	CLASS II & CLASS X DRIVE
STA. 109+50.00 LINE "D"	PUB. RD. X-OVER

B.M. #11 "D" Bt. Spk. in 24" Oak S. Side 157' Lt. Sta. 99+48  
Elev. 851.58  
B.M. #11 "C" Cut in N.E. Cor. E. End N. Conc. Hd'w' 190' Lt.  
Sta. 105+87 Elev. 851.07  
B.M. #12 "D" Bt. Spk. in 24" Maple N. Side 190' Lt. Sta. 114+41  
Elev. 863.69

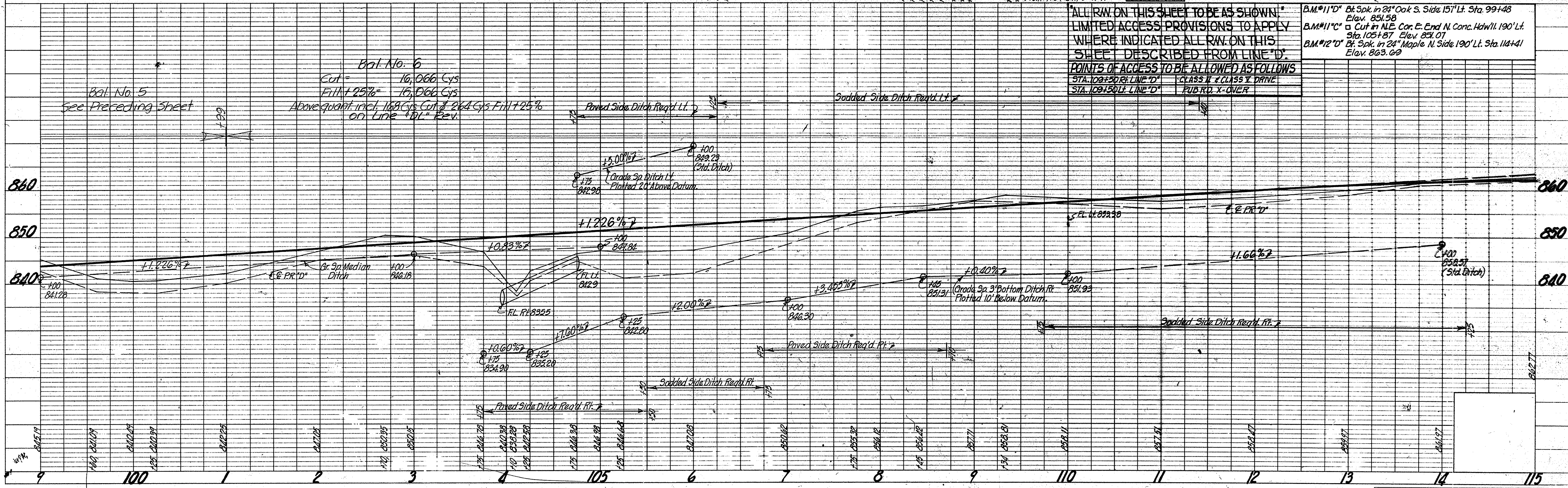


PLATE 1 - PLAN - PROFILE B. R. R. STANDARD  
1975

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	"D"	14	35	

**PLAN**  
SURVEYED  
NOTE BOOK  
NO. 20297

**PROFILE**  
SURVEYED  
NOTE BOOK  
NO. 20297



I-MONUMENT TYPE "C" REQ'D  
AT P.O.T. 117+25.28 "D".

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	15	35

PLAN  
SUPERVISOR: H.R. McCASLIN  
NOTE BOOK NO. 102307  
DATE: 12/79  
BY: H. S. NOTER  
CHECKED: H. S. NOTER  
STRUCTURE NOTATIONS CHECKED: H. S. NOTER

PROFILE  
SUPERVISOR: H.R. McCASLIN  
NOTE BOOK NO. 102307  
DATE: 12/79  
BY: H. S. NOTER  
CHECKED: H. S. NOTER  
STRUCTURE NOTATIONS CHECKED: H. S. NOTER

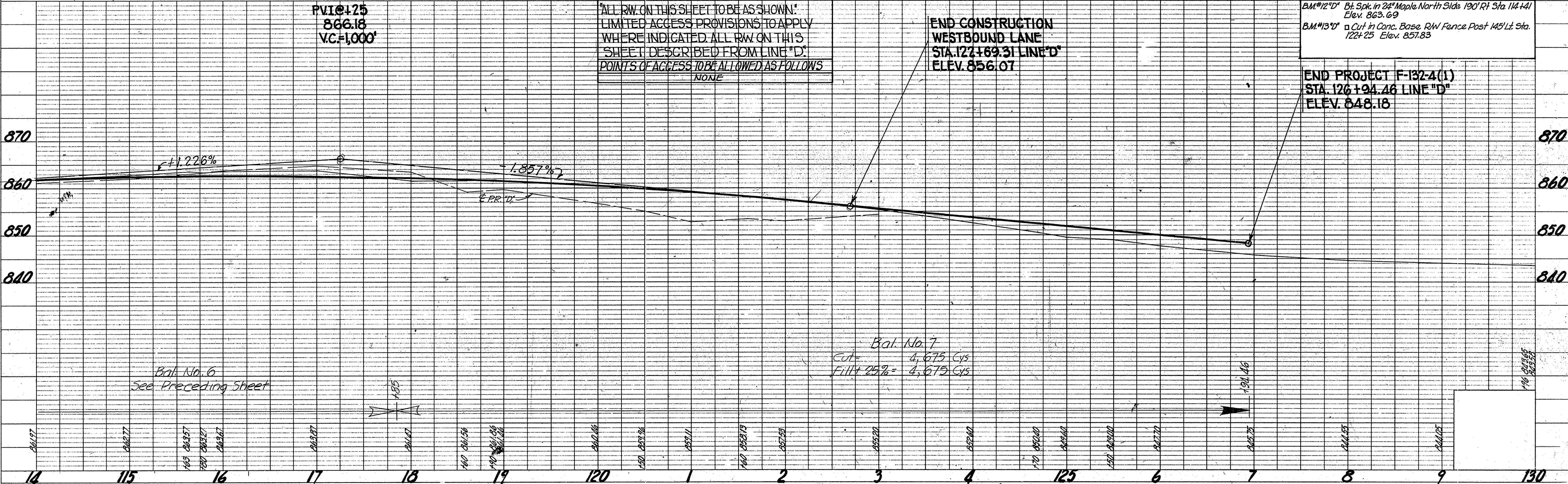
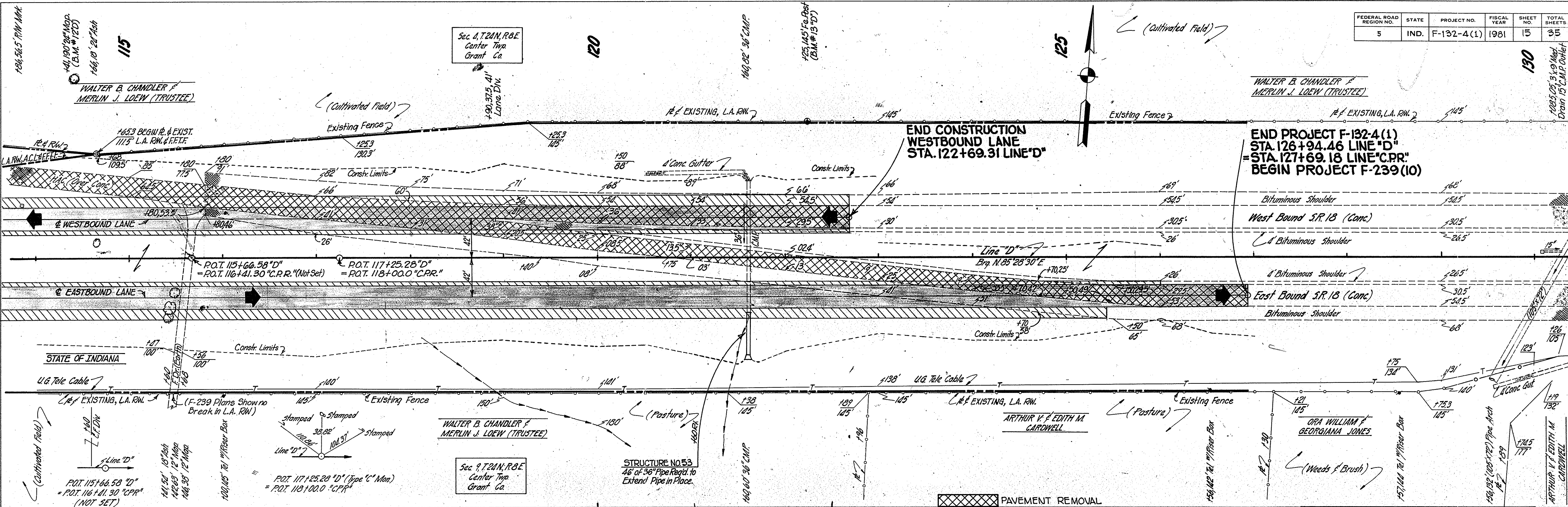


PLATE 1 - PLAN - PROFILE S. R. R. STANDARD  
1975

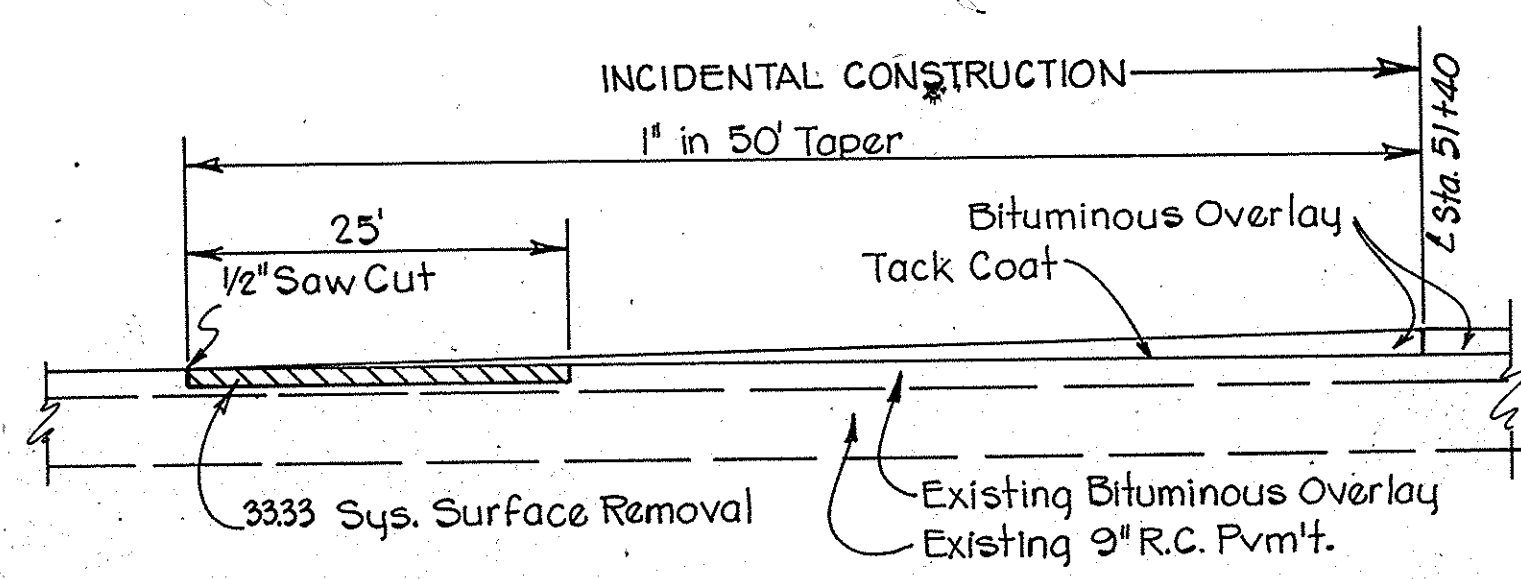
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	D	15	35	



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	16	35

CURVE DATA

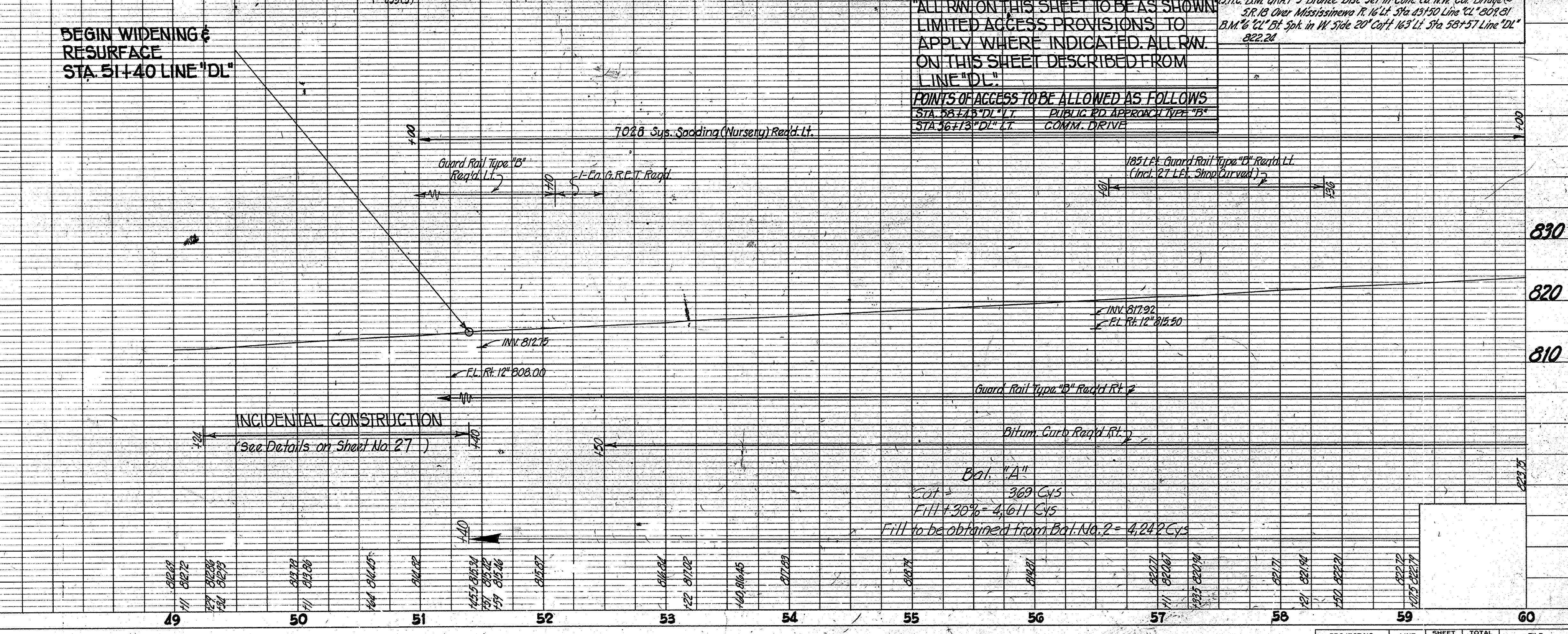
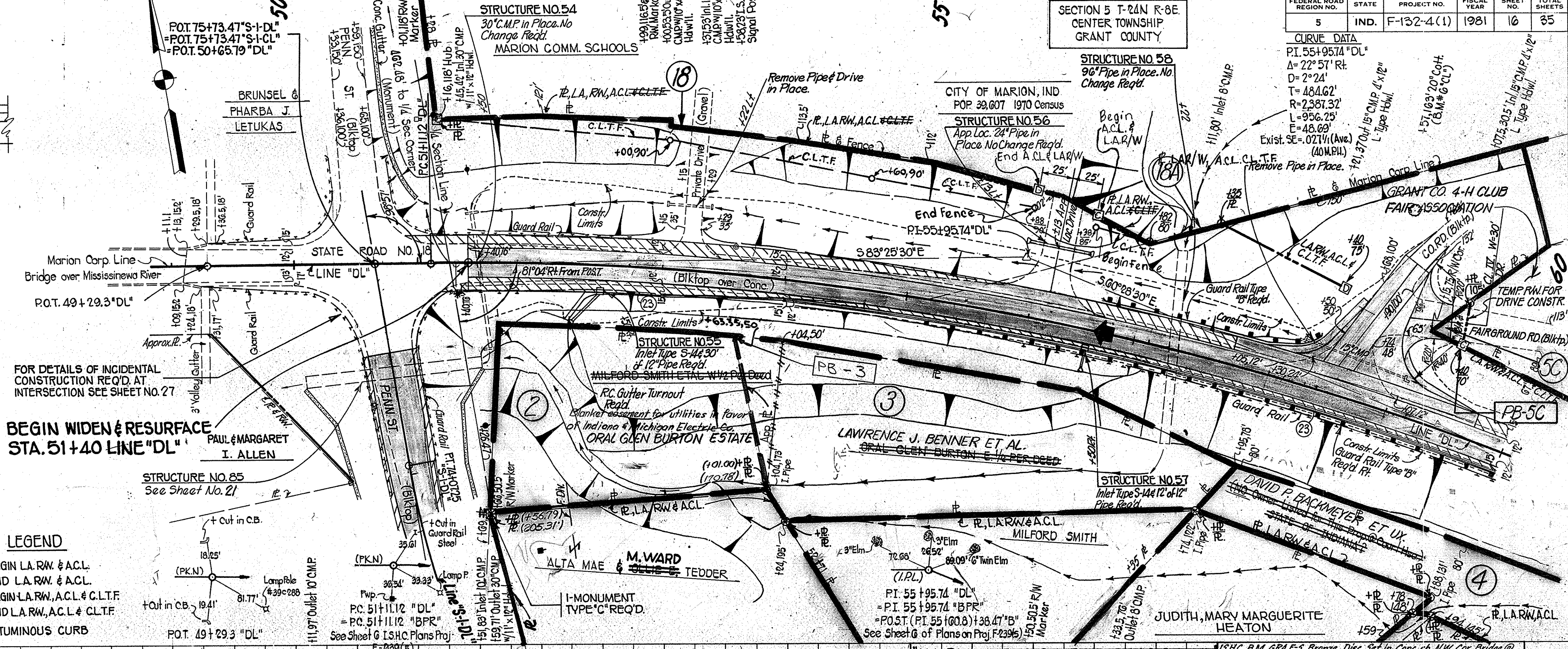
PI	55+95.74 "DL"
A	22° 57' Rt.
D	2° 24'
T	434.62'
R	2,387.32'
L	956.25'
E	48.69'
Exist. SE	0.021% (Ave.) (A.M.B.H.)
Exist. SW	0.021% (Ave.) (A.M.B.H.)
Exist. NE	0.021% (Ave.) (A.M.B.H.)
Exist. SW	0.021% (Ave.) (A.M.B.H.)



PLAN  
NOTE BOOK NO. 00237  
SUPERVISOR: J. R. MCGEE  
DRAWN BY: J. R. MCGEE  
CHECKED BY: J. R. MCGEE  
DATE: 12/1/79

PROFILE  
NOTE BOOK NO. 00237  
SUPERVISOR: J. R. MCGEE  
DRAWN BY: J. R. MCGEE  
CHECKED BY: J. R. MCGEE  
DATE: 12/1/79

PLATE 1 - PLAN - PROFILE @ R. R. STANDARD 1975



PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	"DL"	16	35	



FOR INTERSECTION DETAIL  
SEE SHEET NO. 28

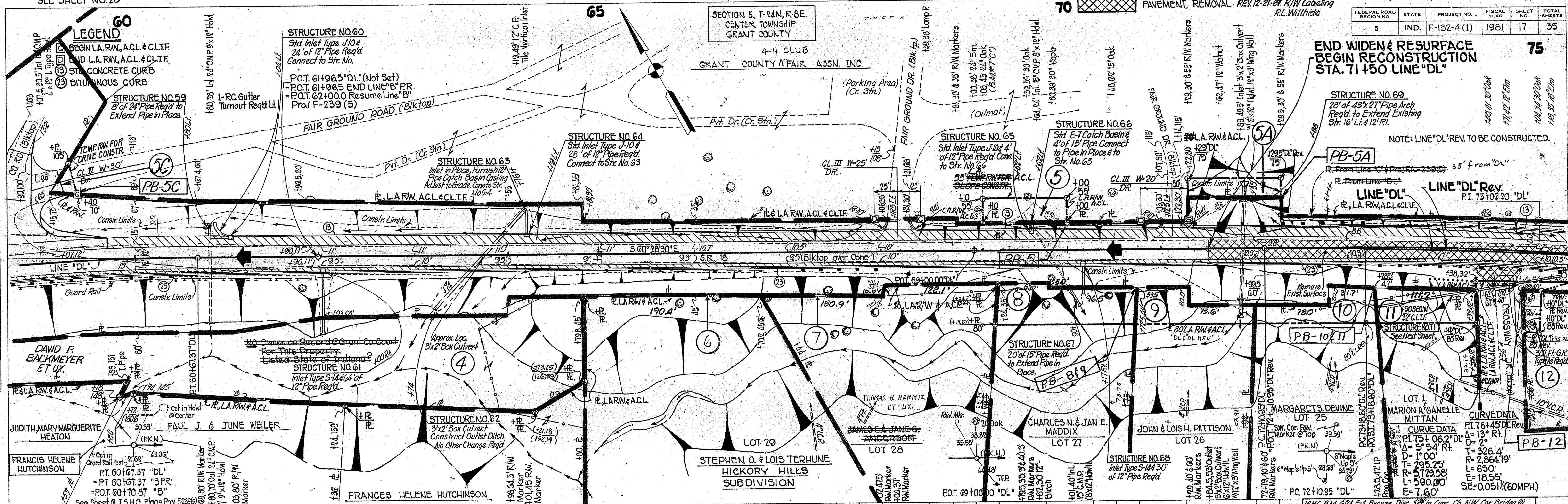
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	17	35

1/23 A.C. CASLIN  
American Consulting Eng.  
12/7/79

NOTED  
NOTE BOOK: PLACEMENT CHECKED  
NO. 0297  
R. OF WAY CHECKED

1/23 A.C. CASLIN  
American Consulting Eng.  
12/7/79

NOTED  
NOTE BOOK: G.A.S. NOTED  
NO. 0297  
STRUCTURE INDICATORS CHECKED



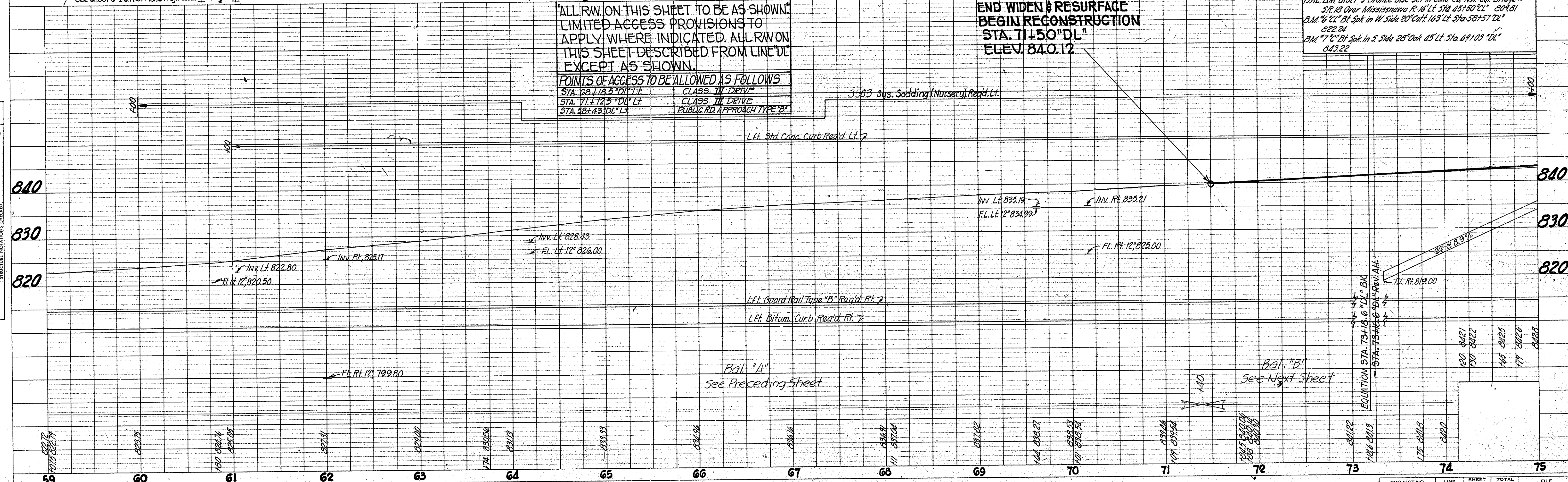
ALL RW ON THIS SHEET TO BE AS SHOWN.  
LIMITED ACCESS PROVISIONS TO  
APPLY WHERE INDICATED. ALL RW ON  
THIS SHEET DESCRIBED FROM LINE "DL"  
EXCEPT AS SHOWN.

POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS

STA. 68+18.5 "DL" LT.	CLASS III DRIVE
STA. 71+12.5 "DL" LT.	CLASS III DRIVE
STA. 36+43 "DL" LT.	PUBLIC RD. APPROACH TYPE "B"

END WIDEN & RESURFACE  
BEGIN RECONSTRUCTION  
STA. 71+50 "DL"  
ELEV. 840.12

USHC B.M. GRA. F-5 Bronze Disc 3/8" in Conc. Ch. NW Cor. Bridge @  
S.P. 18 Over Mississippi R. 16' Lt. Sta. 251+50 CL. 804.81  
B.M. "C" 1/2" Spk. in W. Side 20' Off. 163' Lt. Sta. 38+57 DL.  
822.24  
B.M. "L" 1/2" Spk. in S. Side 28' Off. 45' Lt. Sta. 69+09 DL.  
843.22



PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	"DL"	17	35	



CLASS II DR. REQ'D RT STA 74+80 I-MONUMENT TYPE "B" REQ'D AT PI 76+45.0 "DL" Rev.

CLASS II DR. REQ'D RT STA 78+60 I-MONUMENT TYPE "D" REQ'D AT PC 83+31.33 "DL" Rev.

FOR INTERSECTION DETAILS SEE SHEET NO. 23

I-MONUMENT TYPE "D" REQ'D AT PC 83+31.33 "DL" Rev.

FOR LINE "S-2-D" Rev. SEE SHEET NO. 22

PUB. RD. X-OVER, FLEXIBLE PAVT. TYPE REQ'D. LT. STA. 87+49.61 "DL" Rev. L=40'

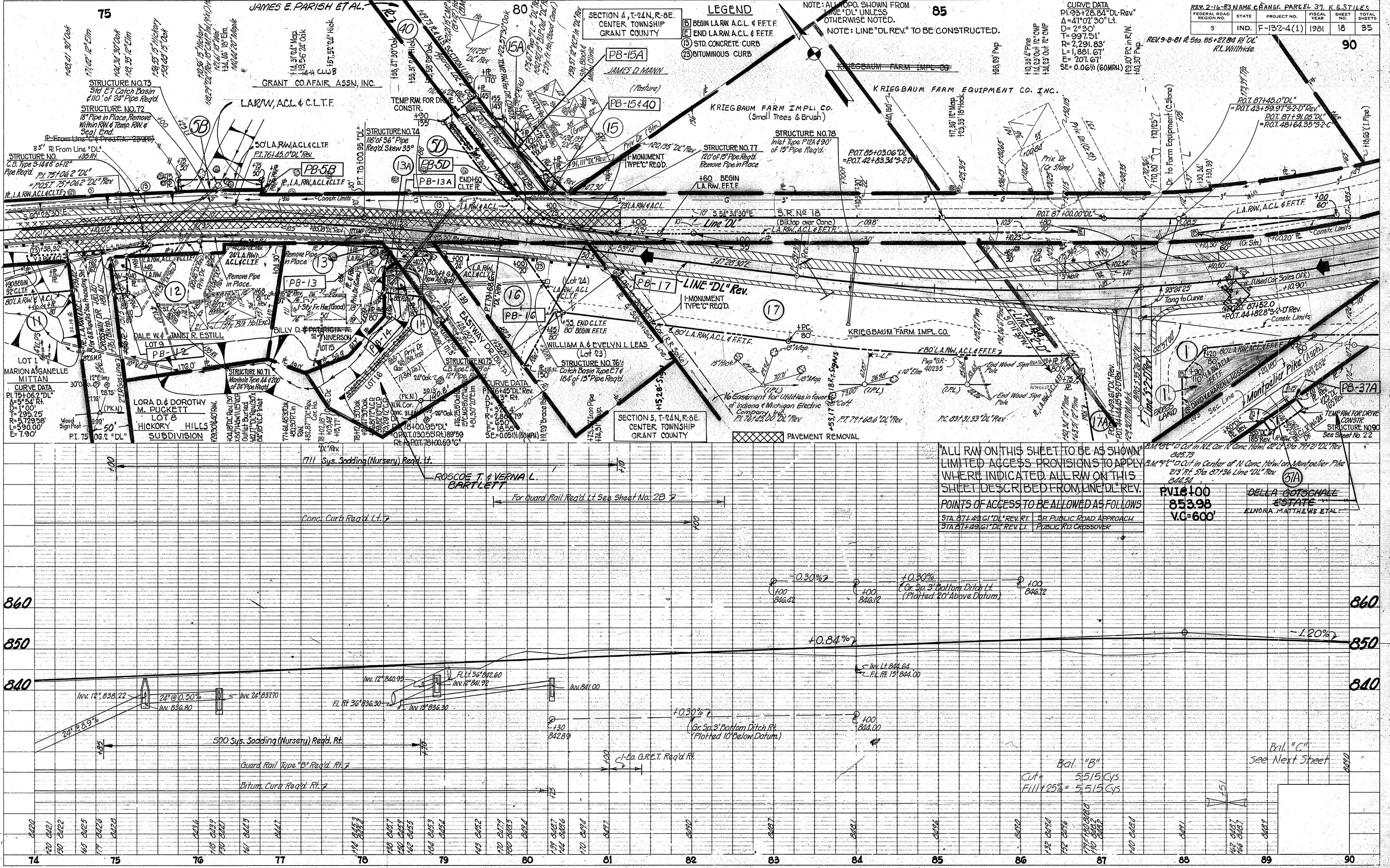
SP. PUBLIC RD. APPR. REQ'D. FOR INTERSECTION DETAILS RT STA. 87+49.61 "DL" Rev. SEE SHEET NO. 29

REV. 1-31-83, (L.T.R. 1-26-83) WIDEN CLASS II DRIVE @ STA. 78+60, 42' R.F. LINE "DL" 81+15±, STA. 83+53 R.F. 4 L.T. ± ALSO REV. BLDG. TO REV. M.E. HALL

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	18	35

PLAN  
 SURVEYED  
 NOTE BOOK ALIGNED CHECKED  
 No. 162807, R. OF PLAN CHECKED

PROFILE  
 SURVEYED  
 NOTE BOOK GRADES CHECKED  
 No. 162807, L. STRUCTURE NOTATIONS CHECKED



**LEGEND**  
 (B) BEGIN L.A.R.W. A.C.L. & F.F.T.F.  
 (E) END L.A.R.W. A.C.L. & F.F.T.F.  
 (15) STD. CONCRETE CURB  
 (23) BITUMINOUS CURB

NOTE: ALL T.O.P.O. SHOWN FROM LINE "DL" UNLESS OTHERWISE NOTED.  
 NOTE: LINE "DL REV." TO BE CONSTRUCTED.

**CURVE DATA**  
 PI 75+06.2 "DL" Rev.  
 Δ = 41° 01' 30" Lt.  
 D = 2° 30'  
 T = 997.51'  
 R = 2,291.83'  
 L = 1,881.67'  
 SE = 0.06% (60MPH)

ALL RW ON THIS SHEET TO BE AS SHOWN LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED. ALL RW ON THIS SHEET DESCRIBED FROM LINE "DL" REV. POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS:  
 STA. 87+49.61 "DL" REV. RT. SP. PUBLIC ROAD APPROACH  
 STA. 87+49.61 "DL" REV. LT. PUBLIC RD. CROSSOVER

RVIC=100  
 853.98  
 V.C.=600'

DELLA GORSCHALL ESTATE  
 ELYNORA MATTHEWS ETAL

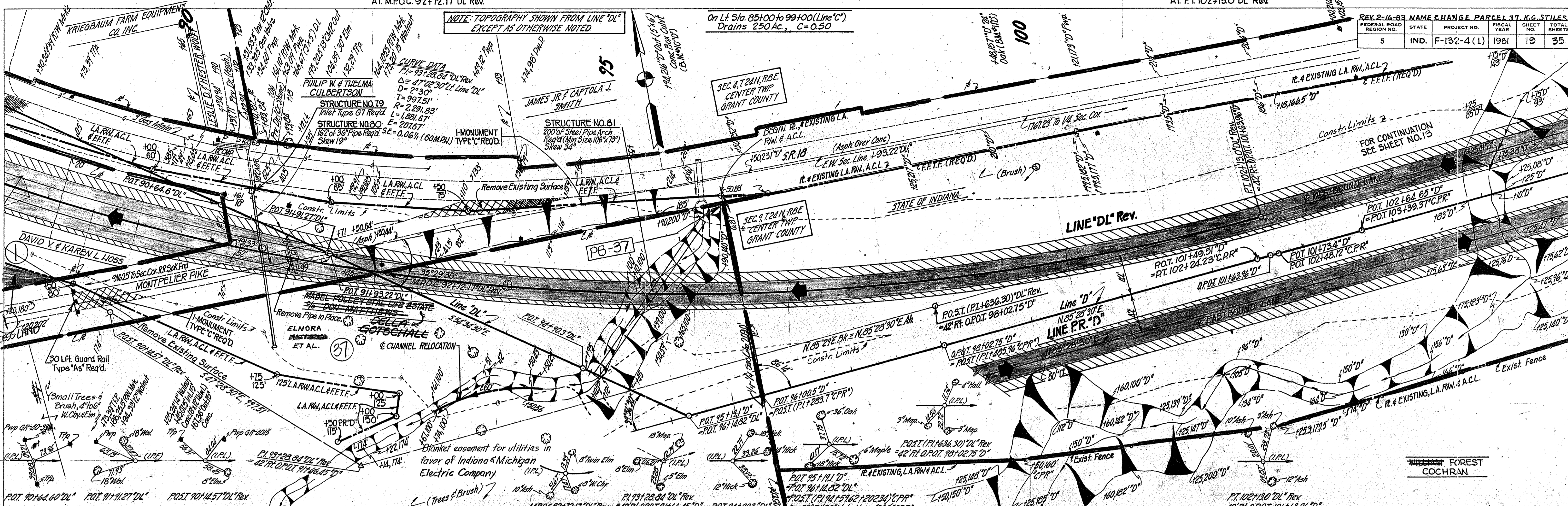
Bal. "B"  
 Cut = 5,515 Cys  
 Fill + 28% = 5,515 Cys



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	19	35

PLAN  
 SURVEYED BY H.R. McCaslin  
 PLOTTED BY H.R. McCaslin  
 CHECKED BY H.R. McCaslin  
 DATE 12-28-80  
 NOTE BOOK NO. 102871

PROFILE  
 SURVEYED BY H.R. McCaslin  
 PLOTTED BY H.R. McCaslin  
 CHECKED BY H.R. McCaslin  
 DATE 12-28-80  
 NOTE BOOK NO. 102871



ALL RW ON THIS SHEET TO BE AS SHOWN. LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED. ALL RW ON THIS SHEET DESCRIBED FROM LINE 'DL' Rev. EXCEPT AS SHOWN. POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS:

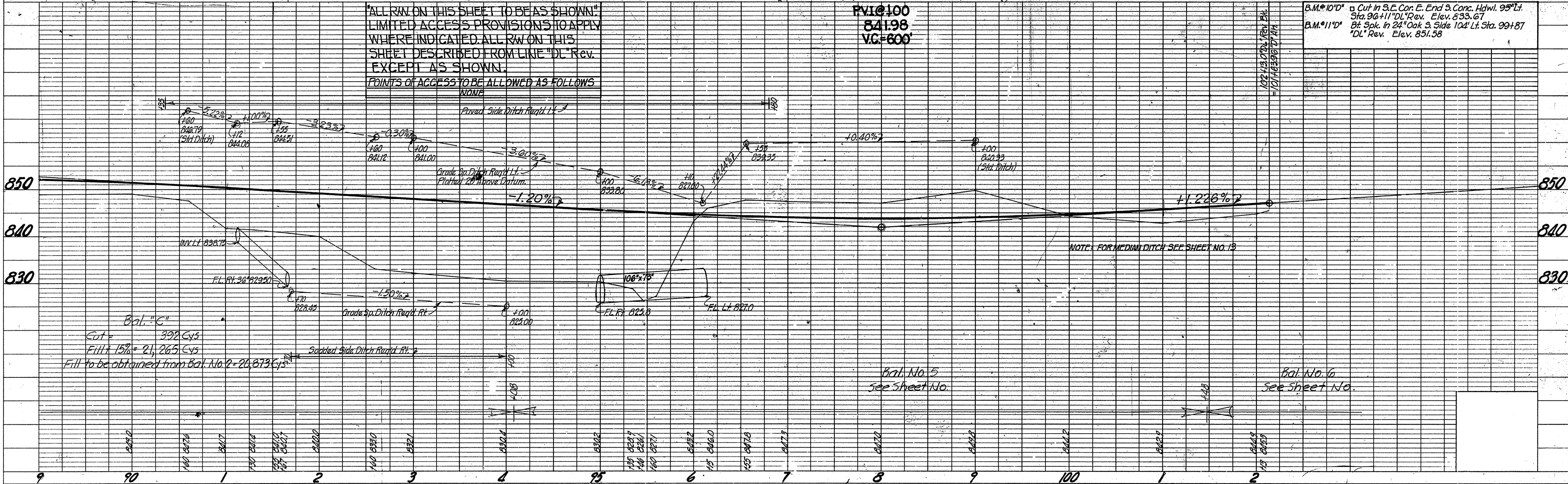


PLATE 1. PLAN - PROFILE S. R. R. STANDARD 1975

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	'DL'	19	35	







I-MONUMENT TYPE "B" REQ'D AT PI. 72+77.49 "S-1-DL"

FOR INTERSECTION DETAILS SEE SHEET NO. 27

SP PUBLIC RD APPR. TYPE "A" REQ'D RT. F.O.C. 67+50 "S-1-DL" REV. 10-5-82, (L.T.R. 9-29-81) REV. C.L.T.F. @ STA. 51+11.2 TO STA. 56+82 L.T. "DL"

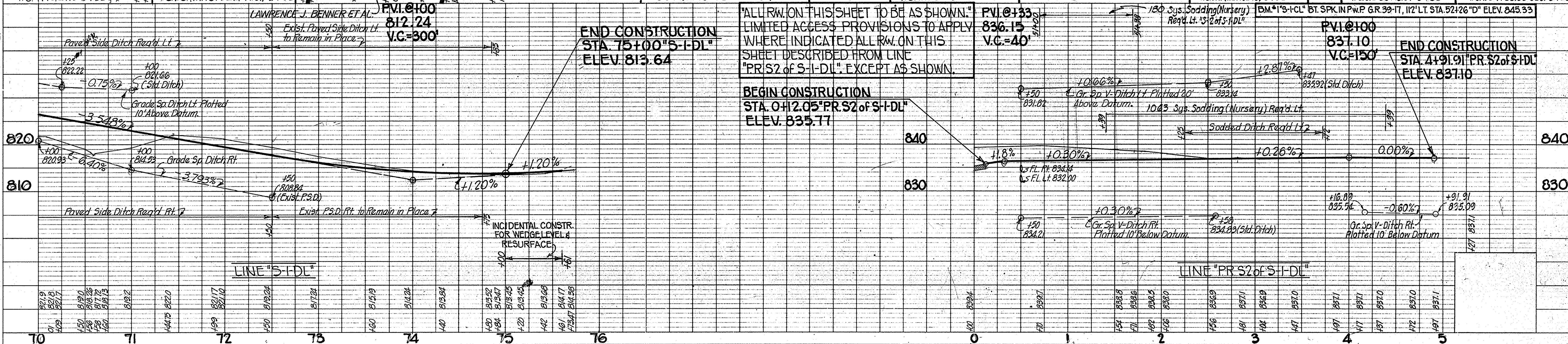
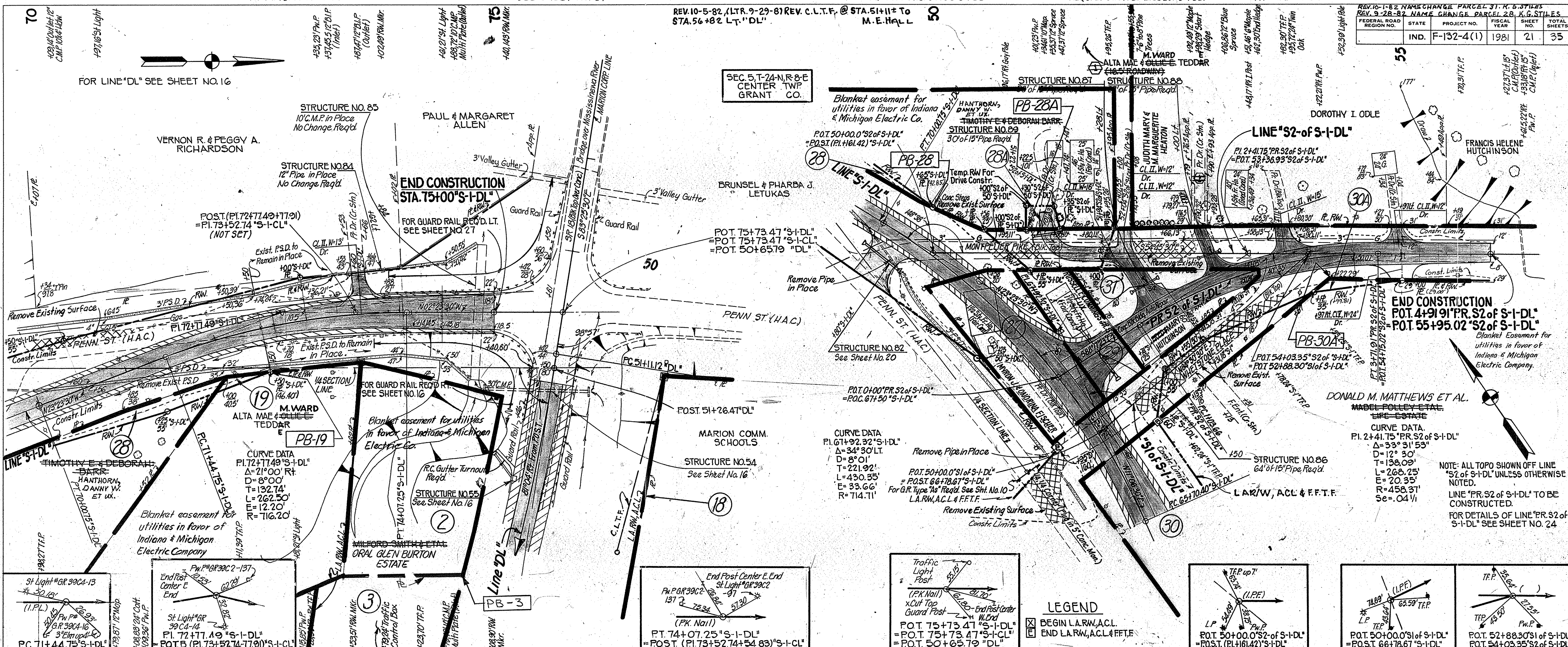
SP PUBLIC RD APPR. REQ'D LT. STA. 1+28 "PR. S2 of S-1-DL"

I-MONUMENT TYPE "C" REQ'D AT PI. 2+41.75 "PR. S2 of S-1-DL"

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	PARCEL 2.8, K.G. STILES	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IND.	F-132-4(1)	1981	21	35		

PLAN  
NOTED  
NOTE BOOK  
NO. 020371  
NO. 020372  
NO. 020373  
NO. 020374  
NO. 020375  
NO. 020376  
NO. 020377  
NO. 020378  
NO. 020379  
NO. 020380  
NO. 020381  
NO. 020382  
NO. 020383  
NO. 020384  
NO. 020385  
NO. 020386  
NO. 020387  
NO. 020388  
NO. 020389  
NO. 020390  
NO. 020391  
NO. 020392  
NO. 020393  
NO. 020394  
NO. 020395  
NO. 020396  
NO. 020397  
NO. 020398  
NO. 020399  
NO. 020400

PROFILE  
NOTED  
NOTE BOOK  
NO. 020381  
NO. 020382  
NO. 020383  
NO. 020384  
NO. 020385  
NO. 020386  
NO. 020387  
NO. 020388  
NO. 020389  
NO. 020390  
NO. 020391  
NO. 020392  
NO. 020393  
NO. 020394  
NO. 020395  
NO. 020396  
NO. 020397  
NO. 020398  
NO. 020399  
NO. 020400



LEGEND

- [Symbol] BEGIN L.A.R.W., A.C.L.
- [Symbol] END L.A.R.W., A.C.L. & F.F.T.F.

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	"S-1-DL"	21	35	







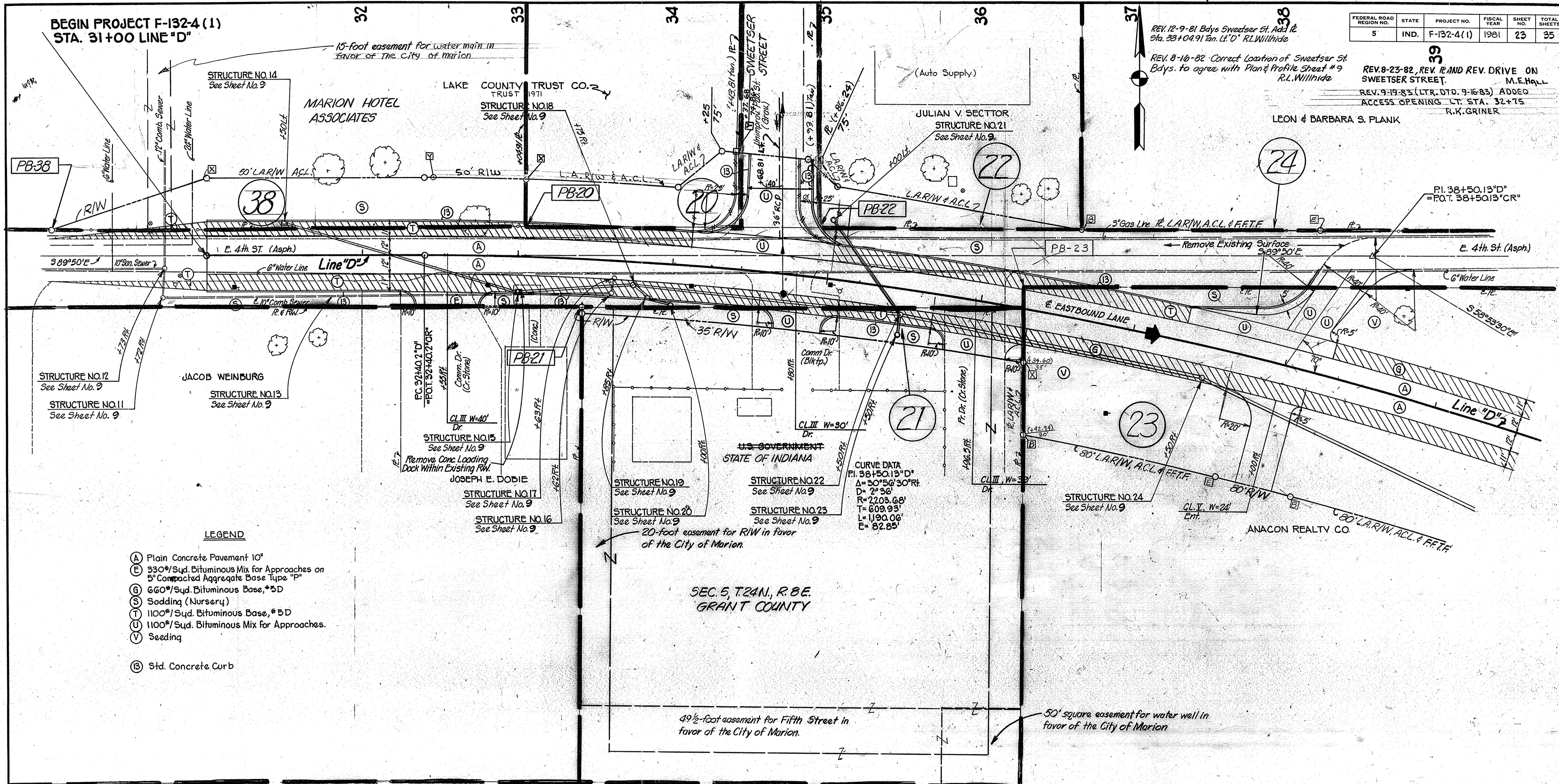
BEGIN PROJECT F-132-4 (1)  
STA. 31+00 LINE "D"

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	23	35

REV. 12-9-81 Bids Sweetser St. Adj. R. Sta. 33+04.91 Tan. L.H. D' R.L. Willhite

REV. 8-16-82 Correct Location of Sweetser St. Bids. to agree with Plan & Profile Sheet #9 R.L. Willhite

REV. 8-23-82 REV. R AND REV. DRIVE ON SWEETSER STREET. M.E. HALL  
REV. 9-19-83 (L.T.R. DTD. 9-16-83) ADDED ACCESS OPENING L.T. STA. 32+75 R.K. GRINER  
LEON & BARBARA S. PLANK



**LEGEND**

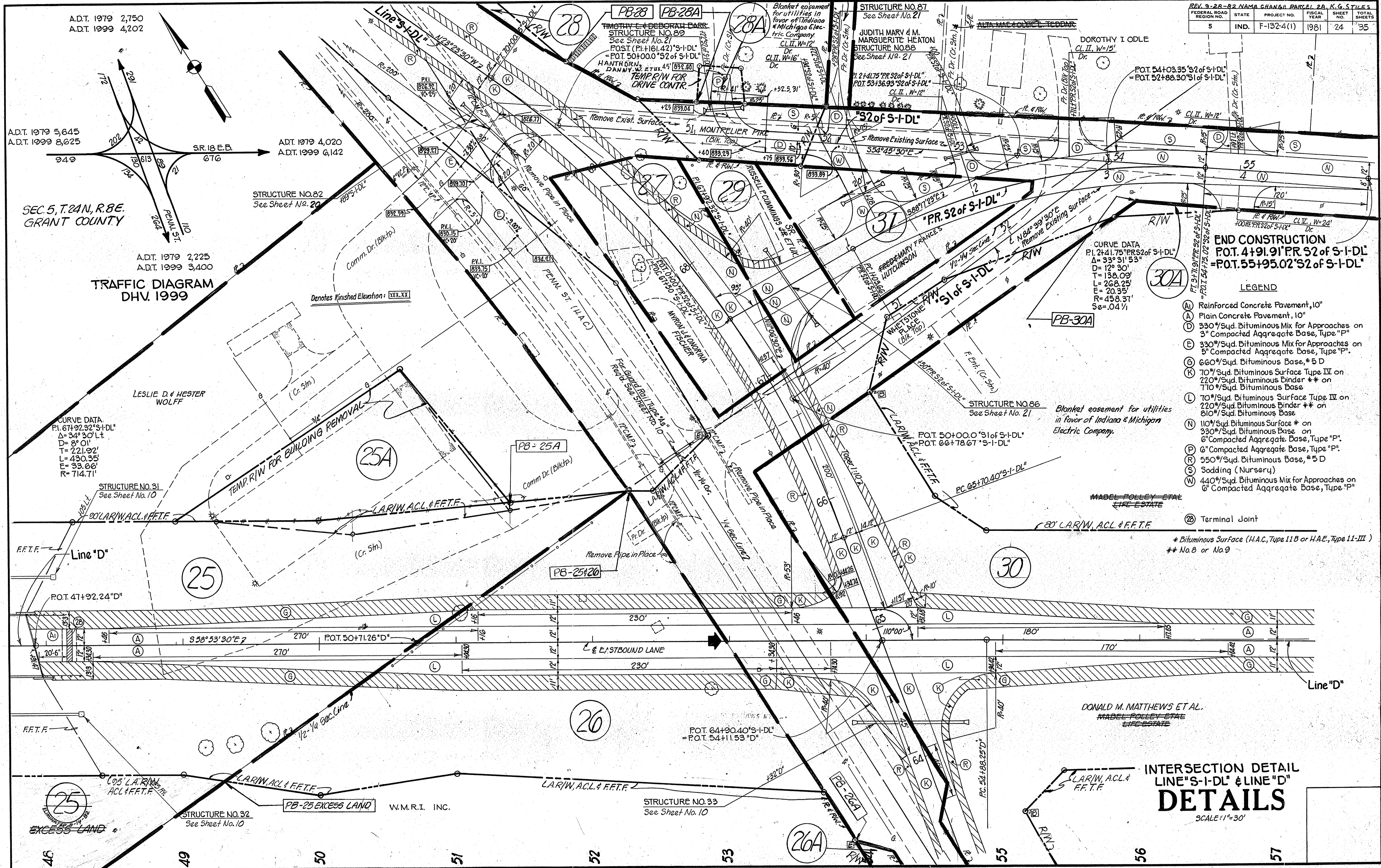
- (A) Plain Concrete Pavement 10"
- (E) 330#/Sqd. Bituminous Mix for Approaches on 5" Compacted Aggregate Base Type "P"
- (B) 660#/Sqd. Bituminous Base, #5D
- (S) Sodding (Nursery)
- (T) 1100#/Sqd. Bituminous Base, #5D
- (U) 1100#/Sqd. Bituminous Mix for Approaches.
- (V) Seeding
- (B) Std. Concrete Curb

DETAILS  
STA. 31+00'D' TO STA. 39+00'D'  
**DETAILS**  
SCALE: 1" = 30'

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)	"D"	23	35	



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	24	35



**END CONSTRUCTION**  
 P.O.T. 4+91.91 PR S2 of S-I-DL  
 = P.O.T. 55+95.02 S2 of S-I-DL

- LEGEND**
- (A) Reinforced Concrete Pavement, 10"
  - (B) Plain Concrete Pavement, 10"
  - (C) 330#/Sqd. Bituminous Mix for Approaches on 5" Compacted Aggregate Base, Type "P"
  - (D) 330#/Sqd. Bituminous Mix for Approaches on 5" Compacted Aggregate Base, Type "P"
  - (E) 660#/Sqd. Bituminous Base, #5 D
  - (F) 70#/Sqd. Bituminous Surface Type IV on 220#/Sqd. Bituminous Binder \*\* on 110#/Sqd. Bituminous Base
  - (G) 70#/Sqd. Bituminous Surface Type III on 220#/Sqd. Bituminous Binder \*\* on 810#/Sqd. Bituminous Base
  - (H) 110#/Sqd. Bituminous Surface # on 330#/Sqd. Bituminous Base on 6" Compacted Aggregate Base, Type "P"
  - (I) 6" Compacted Aggregate Base, Type "P"
  - (J) 550#/Sqd. Bituminous Base, #5 D
  - (K) Sodding (Nursery)
  - (L) 440#/Sqd. Bituminous Mix for Approaches on 6" Compacted Aggregate Base, Type "P"

(T) Terminal Joint  
 \* Bituminous Surface (H.A.C., Type 11B or H.A.E., Type 11-III)  
 \*\* Na.B or Na.9

**INTERSECTION DETAIL**  
**LINE "S-I-DL" & LINE "D"**  
**DETAILS**  
 SCALE: 1"=30'

A.D.T. 1979 2,750  
 A.D.T. 1999 4,202

A.D.T. 1979 5,645  
 A.D.T. 1999 8,625

A.D.T. 1979 4,020  
 A.D.T. 1999 6,142

A.D.T. 1979 2,225  
 A.D.T. 1999 3,400

**TRAFFIC DIAGRAM**  
 DHV. 1999

SEC. 5, T. 24N, R. 8E.  
 GRANT COUNTY

46 49 50 51 52 53 26A 55 56 57

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)		24	35	

304.69  
 28.19  
 43.70



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	25	35

CURVE DATA  
 P.I. 78+73.86 "PR.D"  
 $\Delta = 38^{\circ}37' LT$   
 $D = 2^{\circ}30'$   
 $T = 802.96'$   
 $L = 1,544.67'$   
 $E = 136.59'$   
 $R = 2,291.83'$   
 $SE = 0.06\%/1 (60MPH)$

EVERETT  
 EVERETT E. & MARILYN SMITH  
 SEC. 8, T.24N, R.8E.  
 GRANT CO.

ELNORA MATTHEWS ET AL.  
 DELLA GOTSCHALL  
 MADEL POLLEY ET AL. LIFE ESTATE  
 % DON MATTHEWS

SEC. 9, T.24N, R.8E  
 GRANT CO.

ADT. 1979 295  
 ADT. 1999 450

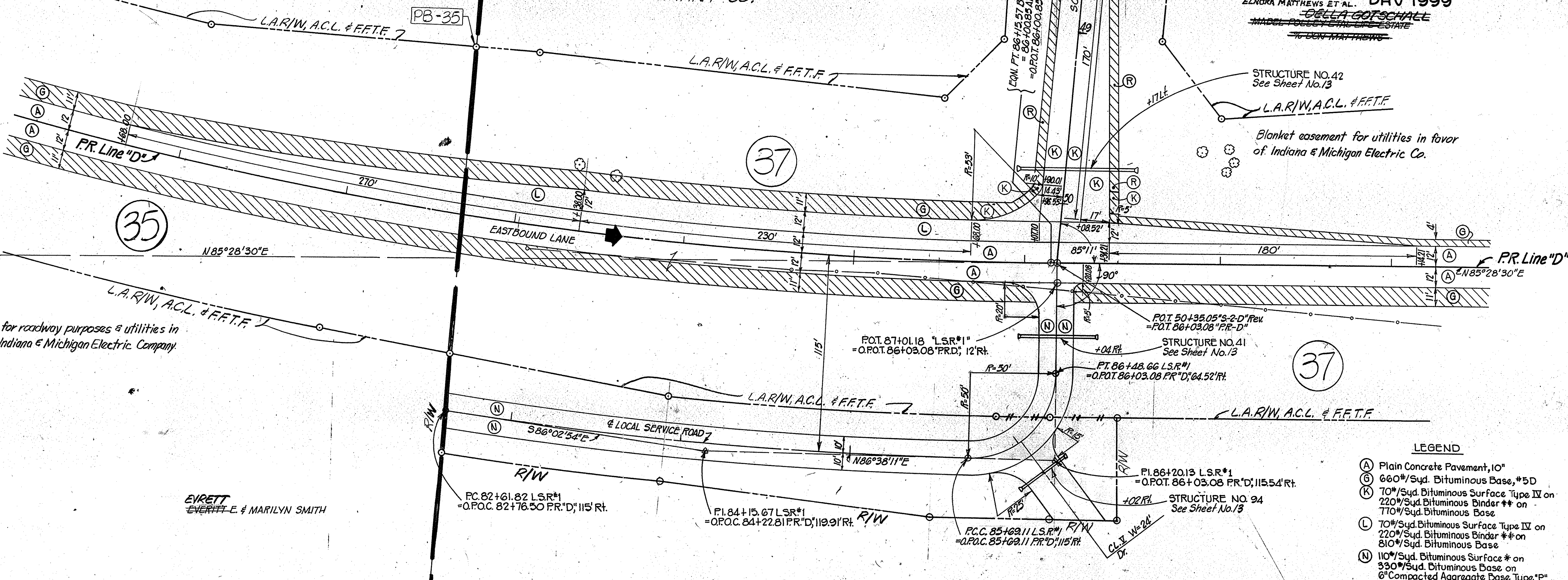
ADT. 1979 4,020  
 ADT. 1999 6,142

ADT. 1979 3,845  
 ADT. 1999 5,875

TRAFFIC DIAGRAM  
 DHV 1999  
 ELNORA MATTHEWS ET AL.  
 DELLA GOTSCHALL  
 MADEL POLLEY ET AL. LIFE ESTATE  
 % DON MATTHEWS

STRUCTURE NO. 42  
 See Sheet No. 13

Blanket easement for utilities in favor of Indiana & Michigan Electric Co.



Easement for roadway purposes & utilities in favor of Indiana & Michigan Electric Company

EVERETT  
 EVERETT E. & MARILYN SMITH

CURVE DATA  
 P.I. 84+15.67 LSR#1  
 $\Delta = 1^{\circ}18'55''$   
 $D = 2^{\circ}22'50''$   
 $T = 53.85'$   
 $L = 307.72'$   
 $E = 4.21'$   
 $R = 2,406.83'$

ELNORA MATTHEWS ET AL.  
 DELLA GOTSCHALL  
 MADEL POLLEY ET AL. LIFE ESTATE  
 % DON MATTHEWS

CURVE DATA  
 P.I. 86+20.13 LSR#1  
 $\Delta = 9^{\circ}09'41''$   
 $D = 114^{\circ}35'29.6''$   
 $T = 51.02'$   
 $L = 79.55'$   
 $E = 21.44'$   
 $R = 50.00'$

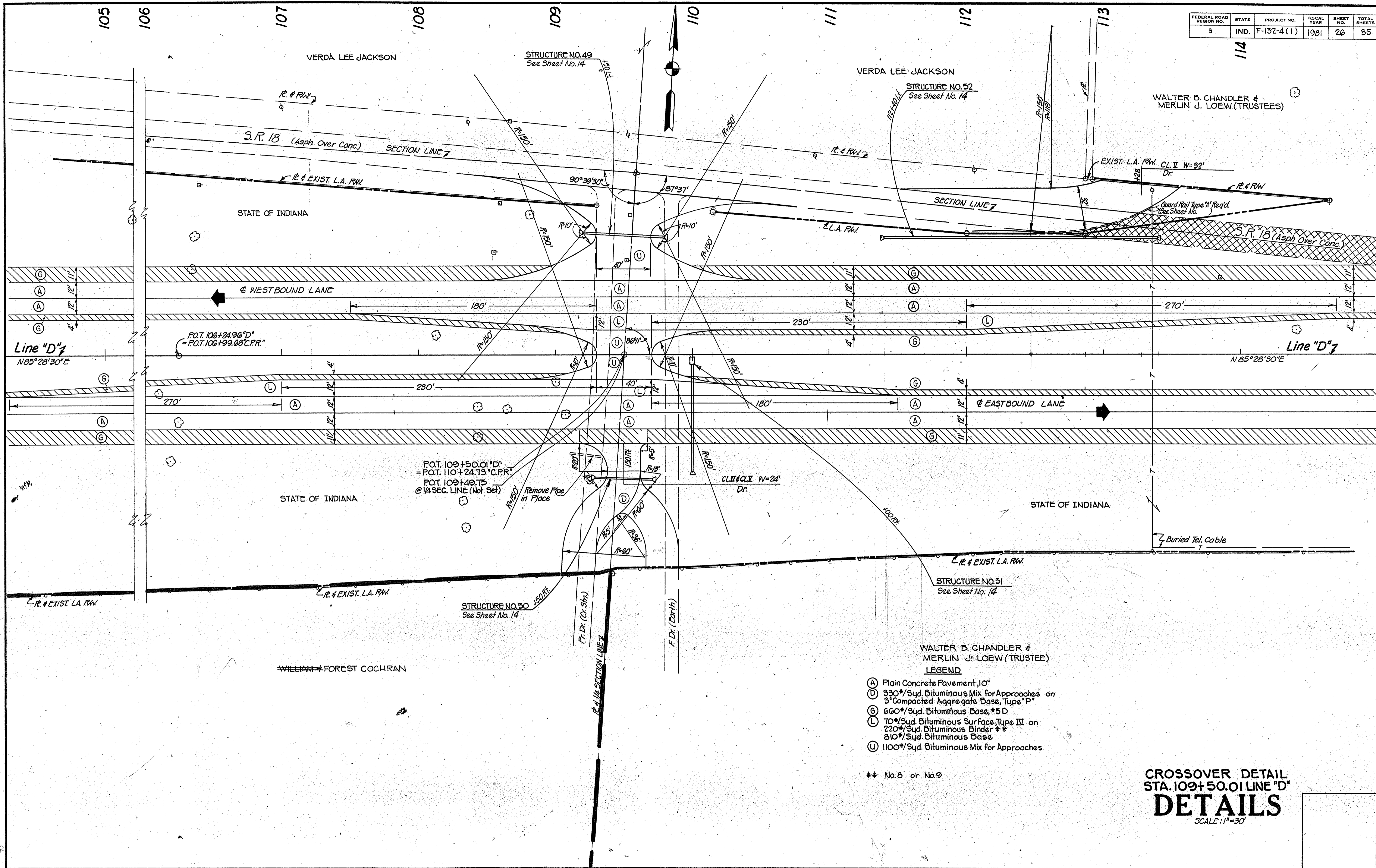
- LEGEND
- (A) Plain Concrete Pavement, 10"
  - (B) 660#/Sqd. Bituminous Base, #5D
  - (K) 70#/Sqd. Bituminous Surface Type IV on 220#/Sqd. Bituminous Binder \*\* on 770#/Sqd. Bituminous Base
  - (L) 70#/Sqd. Bituminous Surface Type IV on 220#/Sqd. Bituminous Binder \*\* on 810#/Sqd. Bituminous Base
  - (N) 110#/Sqd. Bituminous Surface \* on 330#/Sqd. Bituminous Base on 6" Compacted Aggregate Base Type "P"
  - (R) 550#/Sqd. Bituminous Base, #5D.

\* Bituminous Surface (H.A.C. Type 11B or H.A.E. Type 11-III)  
 \*\* No. 8 or No. 9

INTERSECTION DETAIL  
 LINE "S-2-D" Rev. & PR "D"  
**DETAILS**  
 SCALE: 1"=30'



FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	26	35



WALTER B. CHANDLER &  
MERLIN J. LOEW (TRUSTEE)

- LEGEND**
- (A) Plain Concrete Pavement, 10"
  - (B) 350#/Sqd. Bituminous Mix for Approaches on 3" Compacted Aggregate Base, Type "P"
  - (C) 600#/Sqd. Bituminous Base, \*5 D
  - (L) 70#/Sqd. Bituminous Surface, Type IV on 220#/Sqd. Bituminous Binder \*\*
  - (U) 1100#/Sqd. Bituminous Mix for Approaches

\*\* No. 8 or No. 9

**CROSSOVER DETAIL**  
**STA. 109+50.01 LINE "D"**  
**DETAILS**  
SCALE: 1"=30'



49

50

51

52

53

54

55

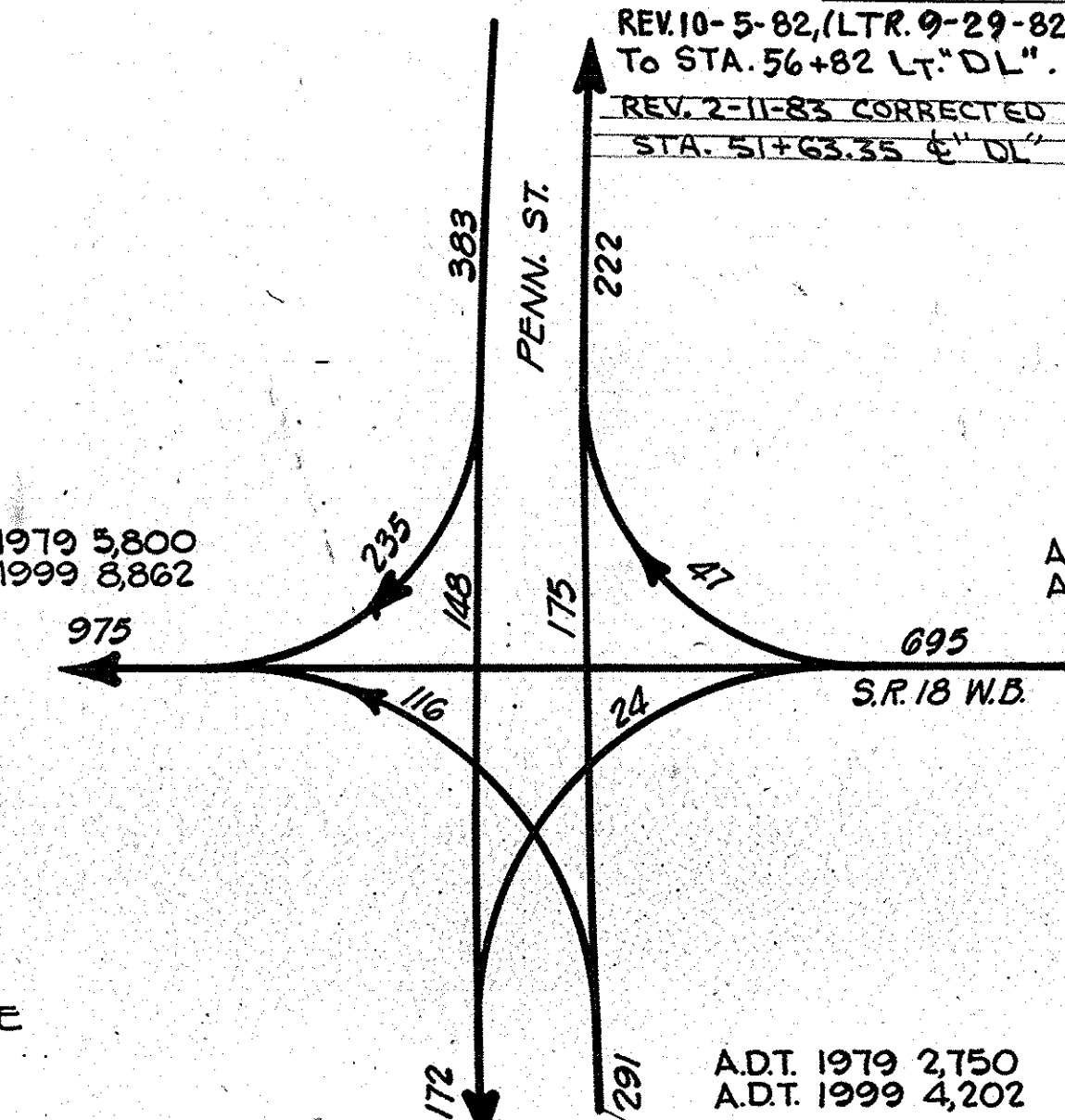
A.D.T. 1979 3,600  
A.D.T. 1999 5,500

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	27	35

REV. 9-28-82 NAME CHANGE PARCEL 26, K.G. STILES  
 REV. 10-5-82 (L.T.R. 9-29-82) REV. C.L.T.F. @ STA. 51+112  
 To STA. 56+82 L.T. "DL"  
 M.E. HALL  
 REV. 2-11-83 CORRECTED LOCATION OF P.L. RT.  
 STA. 51+63.35 @ "DL"  
 R.K. GRINER

A.D.T. 1979 5,800  
A.D.T. 1999 8,862

A.D.T. 1979 4,130  
A.D.T. 1999 6,310



TRAFFIC DIAGRAM  
D.H.V. 1999

LEGEND

- (D) 330#/Sqd. Bituminous Mix for Approaches on 3" Compacted Aggregate Base, Type "P"
- (G) 660#/Sqd. Bituminous Base, #5D
- (K) 70#/Sqd. Bituminous Surface Type IV on 220#/Sqd. Bituminous Binder \*\* on 770#/Sqd. Bituminous Base
- (M) 70#/Sqd. Bituminous Surface Type IV on Bituminous Binder for Wadgs & Level
- (N) 70#/Sqd. Bituminous Surface Type IV on 220#/Sqd. Bituminous Binder \*\*
- (R) 550#/Sqd. Bituminous Base, #5D
- (T) 1100#/Sqd. Bituminous Base, #5D

- (28) Bituminous Curb
- (27) R.C. Gutter Turnout

\*\* No. 8 or No. 9

INTERSECTION DETAIL  
LINE "DL" & LINE "S-I-DL"

DETAILS

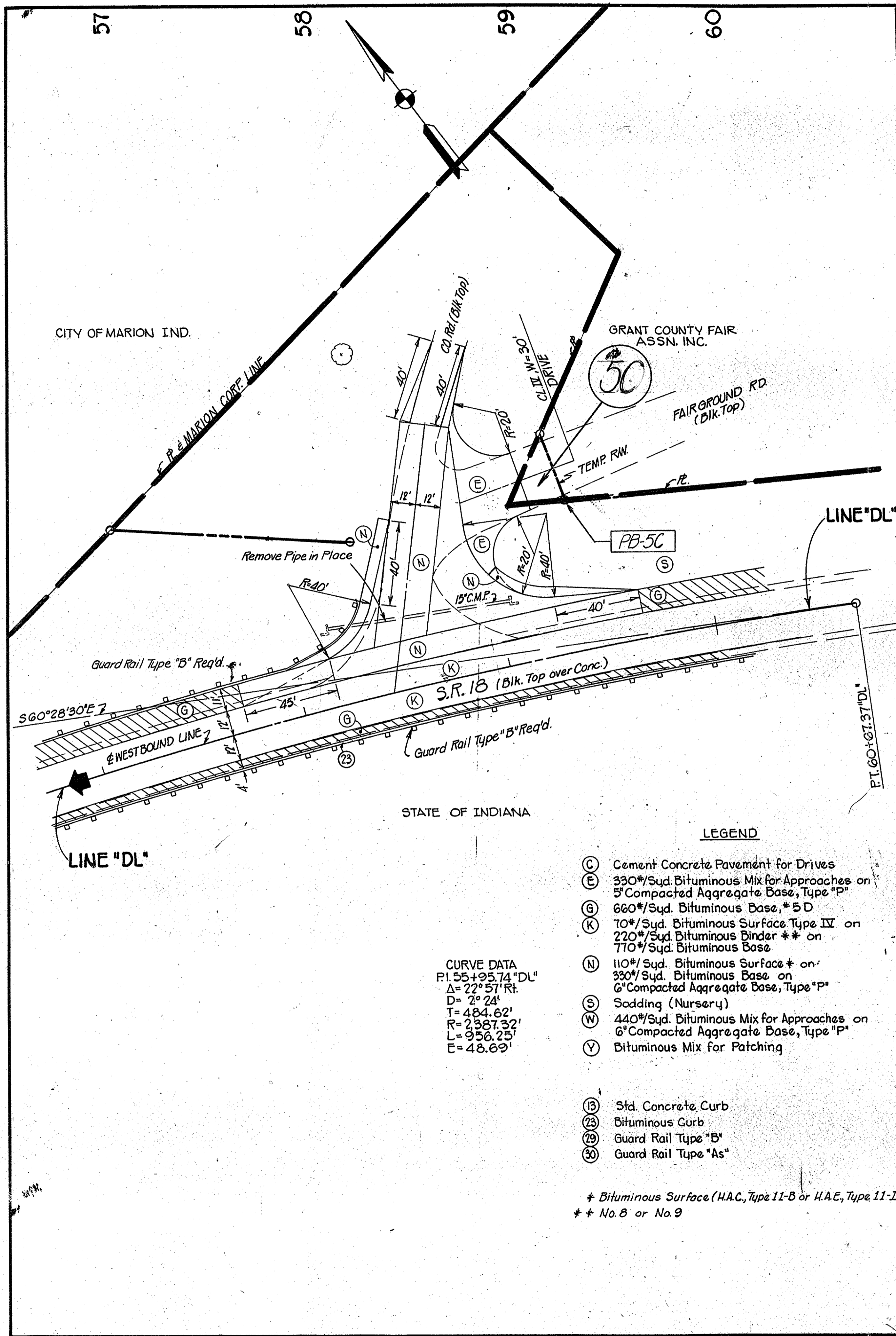
SCALE: 1"=30'



FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	28	35

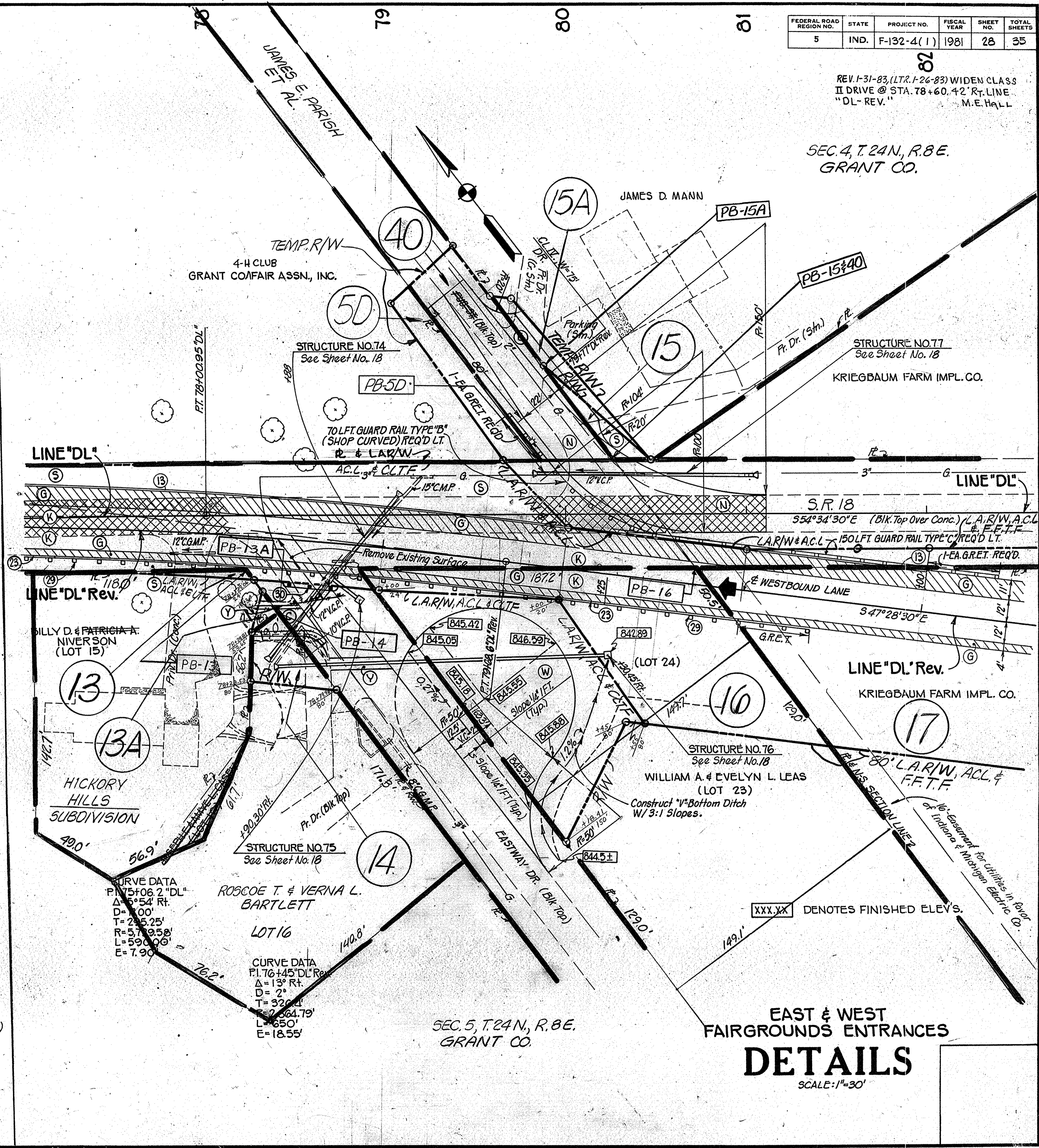
REV. 1-31-83, (L.T.R. 1-24-83) WIDEN CLASS II DRIVE @ STA. 78+60, 42' R.F. LINE "DL"-REV. M.E. HALL

SEC. 4, T. 24N, R. 8E. GRANT CO.



- LEGEND**
- (C) Cement Concrete Pavement for Drives
  - (E) 330#/Sqd. Bituminous Mix for Approaches on 5" Compacted Aggregate Base, Type "P"
  - (G) 660#/Sqd. Bituminous Base, \* 5 D
  - (K) 70#/Sqd. Bituminous Surface Type IV on 220#/Sqd. Bituminous Binder \*\* on 770#/Sqd. Bituminous Base
  - (N) 110#/Sqd. Bituminous Surface \* on 330#/Sqd. Bituminous Base on 6" Compacted Aggregate Base, Type "P"
  - (S) Sodding (Nursery)
  - (W) 440#/Sqd. Bituminous Mix for Approaches on 6" Compacted Aggregate Base, Type "P"
  - (V) Bituminous Mix for Patching
- \* Bituminous Surface (H.A.C. Type 11-B or H.A.E. Type 11-III)  
\*\* No. 8 or No. 9

CURVE DATA  
 P.I. 55+95.74 "DL"  
 $\Delta = 22^\circ 57' \text{Rt.}$   
 $D = 2^\circ 24'$   
 $T = 484.62'$   
 $R = 2387.32'$   
 $L = 956.25'$   
 $E = 48.69'$



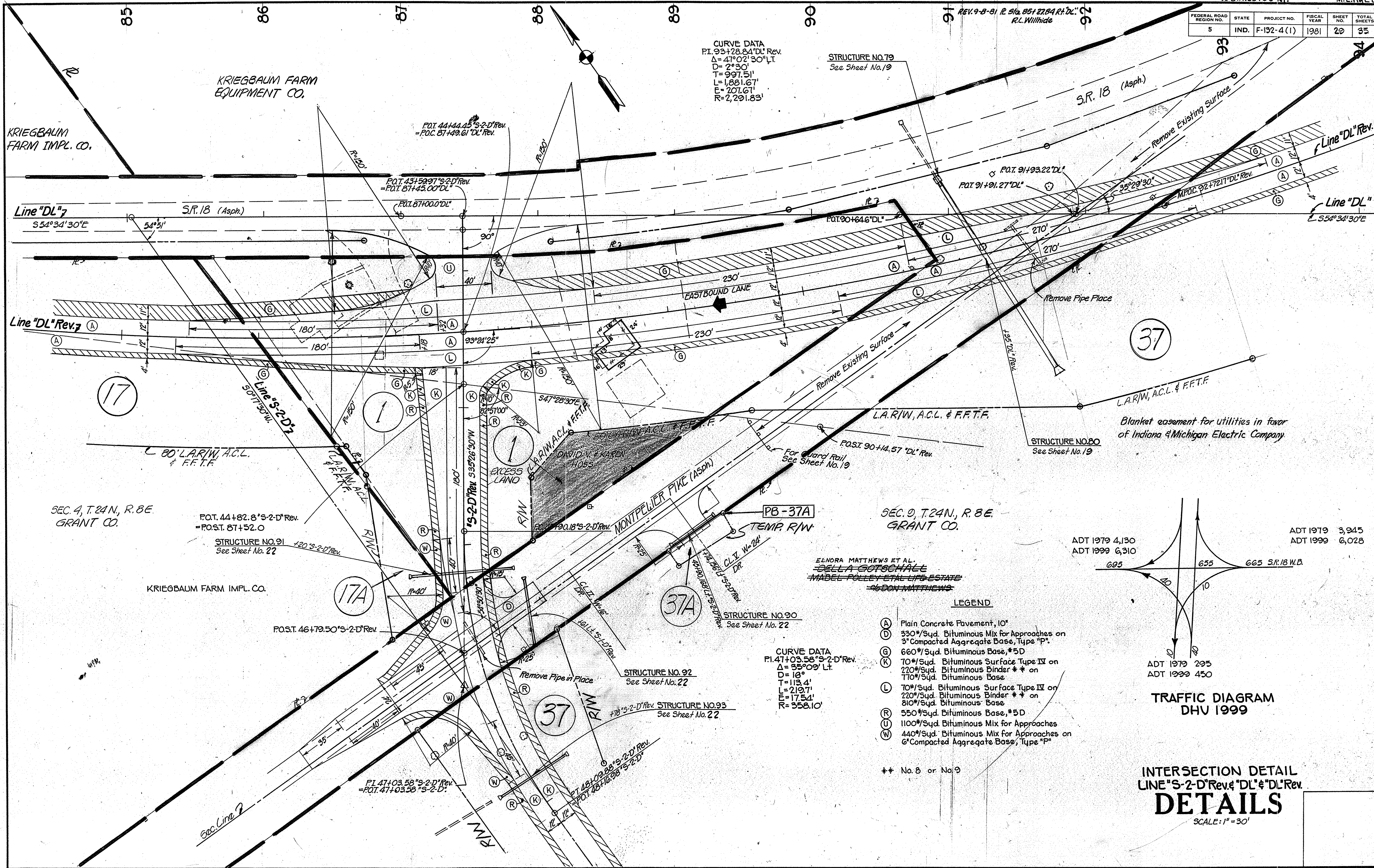
CURVE DATA  
 P.I. 75+08.2 "DL"  
 $\Delta = 5^\circ 54' \text{Rt.}$   
 $D = 1^\circ 00'$   
 $T = 235.25'$   
 $R = 579.58'$   
 $L = 590.00'$   
 $E = 7.90'$

CURVE DATA  
 P.I. 76+45 "DL" Rev.  
 $\Delta = 13^\circ \text{Rt.}$   
 $D = 2^\circ$   
 $T = 320.11'$   
 $R = 664.79'$   
 $L = 650'$   
 $E = 18.55'$

EAST & WEST FAIRGROUNDS ENTRANCES  
**DETAILS**  
 SCALE: 1"=30'



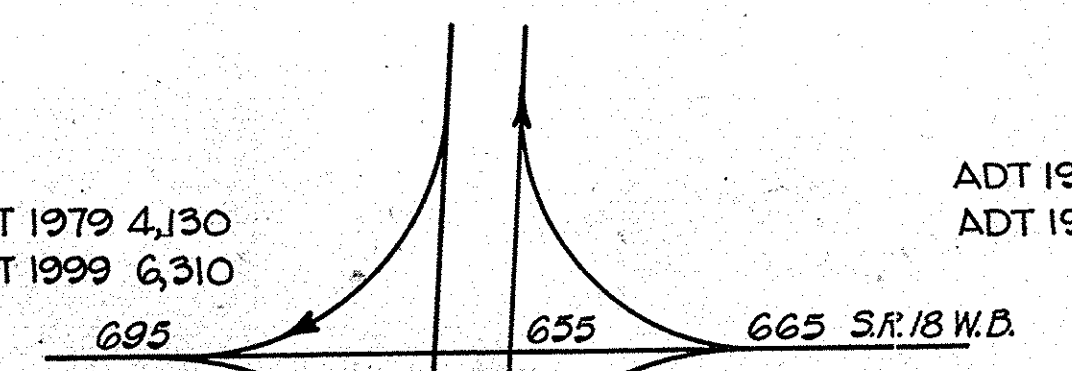
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	29	35



CURVE DATA  
 P.I. 93+28.84 DL Rev.  
 Δ = 47°02'30" Lt.  
 D = 2730'  
 T = 997.51'  
 L = 1881.67'  
 E = 207.61'  
 R = 2,291.83'

CURVE DATA  
 P.I. 41+03.58 S-2-D Rev.  
 Δ = 35°09' Lt.  
 D = 18'  
 T = 113.4'  
 L = 219.71'  
 E = 17.54'  
 R = 358.10'

- LEGEND**
- (A) Plain Concrete Pavement, 10"
  - (D) 330#/Sqd. Bituminous Mix for Approaches on 3" Compacted Aggregate Base, Type "P".
  - (G) 660#/Sqd. Bituminous Base, #5D
  - (K) 70#/Sqd. Bituminous Surface Type IV on 220#/Sqd. Bituminous Binder \*\* on 170#/Sqd. Bituminous Base
  - (L) 70#/Sqd. Bituminous Surface Type IV on 220#/Sqd. Bituminous Binder \*\* on 810#/Sqd. Bituminous Base
  - (R) 550#/Sqd. Bituminous Base, #5D
  - (U) 1100#/Sqd. Bituminous Mix for Approaches
  - (W) 440#/Sqd. Bituminous Mix for Approaches on 6" Compacted Aggregate Base, Type "P"
- \*\* No. 8 or No. 9

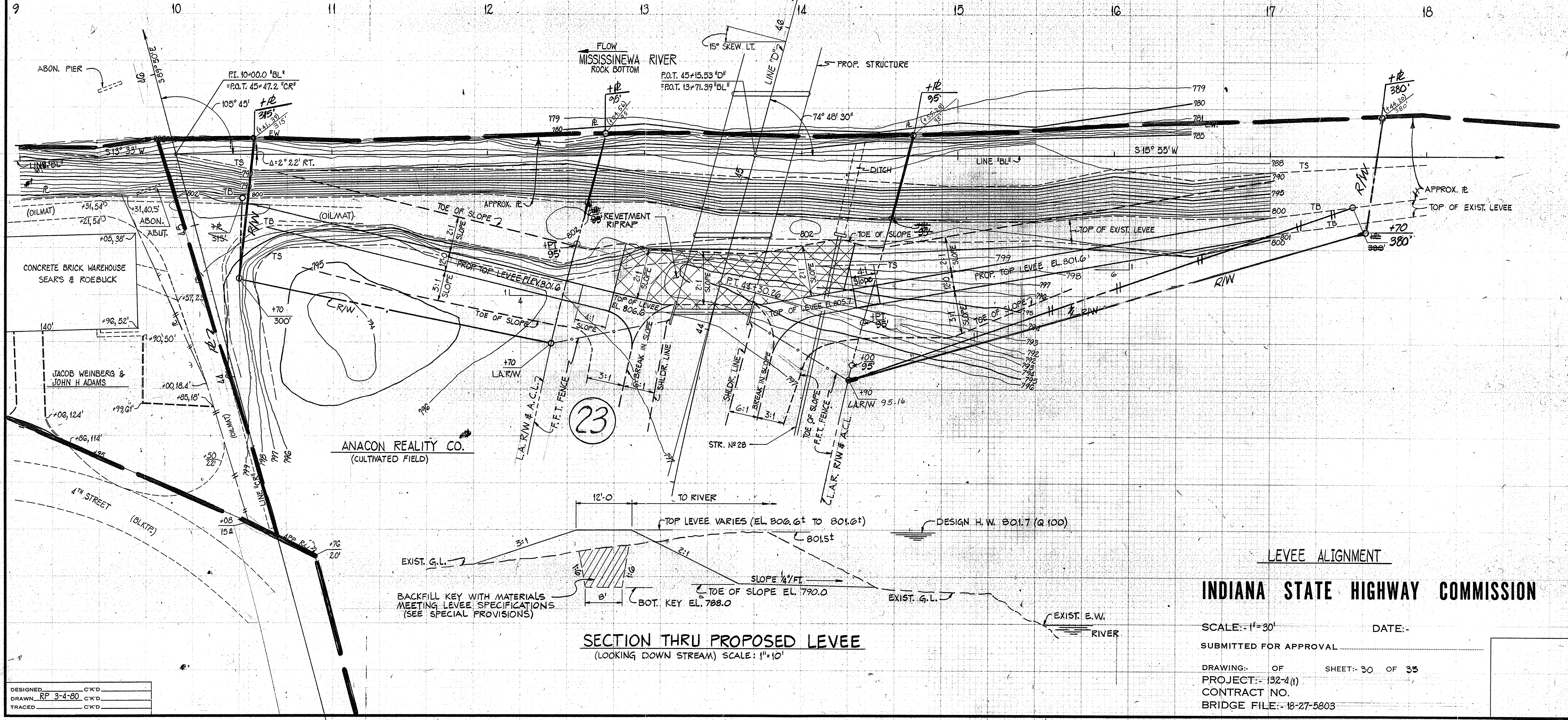


INTERSECTION DETAIL  
 LINE "S-2-D" Rev. & "DL" & "DL" Rev.  
**DETAILS**  
 SCALE: 1" = 30'



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	30	35

SEC. 5, T. 24N, R. 8E.  
 GRANT COUNTY



DESIGNED	C'KD
DRAWN	RP 3-4-80 C'KD
TRACED	C'KD

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-132-4(1)		30	35	







\* IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW ARE TO BE USED.

# STRUCTURE DATA

\* IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW ARE TO BE USED.

FEDERAL ROAD DISTRICT NO.	STATE	F. PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IND.	192-4(1)	1981	32	35

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE INCHES	DESCRIPTION SEE ST'D. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH- IN EACH GROUP.	LENGTH	SKEW	FLOW LINE		CONCRETE CLASS "A" FOR BORROW FOR STR. BACKFILL	BACKFILL METHOD	GAGES OR THICKNESS		VELOCITY	RIPRAP	PIPE END SECTION	REINF. STEEL	REMARKS	
									UP STREAM	DOWN STREAM			STEEL	ALUM.						
									ELEV.	ELEV.			CU.YDS.	CU.YDS.						
	LINE "D"																			
1	Bridge over Mississippi River to be built in combination with Road Contract																			Bridge File No. 18-27-5803
11	30+72		✓			Manhole in Place														No Changes Req'd.
12	30+73		✓			Manhole in Place														No Changes Req'd.
13	30+72 to 33+62		✓			Sewer in Place														No Changes Req'd.
14	31+50		✓		12"	L Inlet Type "A-4" Pipe Req'd.	156'		789.36	788.53										Connect to Str. No. 15 1-6 on 12 W. Side Concrete U.S. Dist.
15	33+00		✓		18"	L Catch Basin Type "K10" Pipe Req'd.	75'		788.13	787.71										Connect to Str. No. 18 & 14
16	33+62		✓			Manhole in Place					0.1									Adjust Casting to Grade and Seal Pipe opening from North
17	33+63		✓			Inlet in Place														Remove Inlet and Pipe in Place
18	33+75		✓		21"	L Manhole Type "A-4" Pipe Req'd.	174'		787.49	787.71										Precast Cover Req'd. Connect to Str. No. 22, 16, & 15
19	33+85		✓		12"	L Catch Basin Type "K10" Pipe Req'd.	12'		788.29	788.09										Connect to Str. No. 18 & 20
20	34+00		✓		12"	P Pipe Catch Basin Pipe Req'd.	14'		788.74	788.54										Connect to Str. No. 19
21	35+00		✓		18"	L Pipe Catch Basin Pipe Req'd.	76'		788.00	787.30										Connect to Str. No. 22
22	35+50		✓		24"	L Manhole Type "A-4" Pipe Req'd.	200'		786.50	785.92										Connect to Str. No. 18, 21, 23, 24
23	35+50		✓		12"	L Pipe Catch Basin Pipe Req'd.			787.50	787.30										Connect to Str. No. 22
24	37+50		✓		24"	P Manhole Type "A-4" Pipe Req'd.	276'		785.92	784.32										Connect to Str. No. 28 & 22
25	38+00		✓		15"	D Pipe Req'd.	40'		789.70	789.58										
26	40+00		✓		36"	A Pipe Req'd.	86'		790.93	789.26										
27	40+25		✓		18"	P Catch Basin Type "E-7" Pipe Req'd.	14'		786.32	786.12										Connect to Str. No. 28
28	40+25		✓		36"	P Manhole Type "D-4" Pipe Req'd.	448'		784.32	783.42										Connect to Str. No. 24 & 27 Hdwl., w/Auto Drainage Gate & Water Seal Req'd. in Levee Rt.
29	44+07		✓		6"	Perf. FBCCS Pipe Req'd.	15'													
30	47+94		✓		6"	Perf. FBCCS Pipe Req'd.	15'													
31	48+05		✓		12"	A Inlet Type "P-12A" Pipe Req'd.														
32	48+25		✓		12"	A Inlet Type "P-12A" Pipe Req'd.														
33	54+32		✓		24"	D Pipe Req'd.	78'		838.42	837.11										
34	61+65		✓		36"	A Pipe Req'd.	92'		838.59	837.30										
35	66+44		✓		6"	FBCCS Pipe Req'd.	10'													Remove F.T. in place. Connect to F.T. in place
36	66+72		✓		6"	FBCCS Pipe Req'd.	10'													Remove F.T. in place. Connect to F.T. in place
37	67+38		✓		36"	A Pipe Req'd.	128'	30	836.40	830.50										

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE INCHES	DESCRIPTION SEE ST'D. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH- IN EACH GROUP.	LENGTH	SKEW	FLOW LINE		CONCRETE CLASS "A" FOR BORROW FOR STR. BACKFILL	BACKFILL METHOD	GAGES OR THICKNESS		VELOCITY	RIPRAP	PIPE END SECTION	REINF. STEEL	REMARKS		
									UP STREAM	DOWN STREAM			STEEL	ALUM.							
									ELEV.	ELEV.			CU.YDS.	CU.YDS.							
	LINE "D"																				
38	68+75		✓		6"	FBCCS Pipe Req'd.	10'													Remove F.T. in place. Connect to F.T. in place	
	LINE "PRD"																				
39	72+69		✓		36"	A Pipe Req'd.	124'	19	831.80	829.80										2	
40	75+03		✓			Inlet in Place														No Changes Req'd.	
41	86+04		✓		15"	D Pipe Req'd.	44'		841.91	841.48										2	
42	86+17		✓		18"	D Pipe Req'd.	66'		840.50	840.16										2	
43	89+13		✓		36"	A Pipe Req'd.	142'	30	830.50	829.60										2	
44	89+70		✓		6"	L Pipe Req'd.	266'														
45	91+00		✓		106 1/2" Min Size	Steel Arch	178'	15	823.10	822.70	4.72									2 Pipe Anchors Req'd.	
	LINE "D"																				
46	104+39		✓		36"	A Pipe Req'd.	212'	22	842.90	839.50										2	Connect to Str. No. 47. 1-12" on 36" Tee Req'd.
47	104+50		✓		12"	A Inlet Type "P-12A" Pipe Req'd.	16'		846.03	841.10											Connect to Str. No. 46. 2-45° Bends Req'd.
48	105+65		✓		18"	P Pipe in Place														No Changes Req'd.	
49	109+50		✓		15"	D Pipe Req'd.	60'		853.89	853.16										2	
50	109+50		✓		15"	D Pipe Req'd.	44'		851.92	851.64										2	
51	110+00		✓		12"	A Inlet Type "P-12A" Pipe Req'd.	80'		853.38	852.06										1	
52	112+40		✓		12"	D Pipe Req'd.	200'		858.31	855.86										2	
53	121+60		✓		36"	FBCCS Pipe Req'd.	46'		846.26	844.35										1	Extend Pipe in Place
	LINE "DL"																				
54	51+50		✓		30"	C.M. Pipe in Place														No Changes Req'd.	
55	52+50		✓		12"	A Inlet Type "S-14" Pipe Req'd.	30'		812.75	808.00										1	
56	56+13		✓		24"	P Pipe in Place														No Changes Req'd.	
57	58+50		✓		12"	A Inlet Type "S-14" Pipe Req'd.	12'		817.92	815.50										1	
58	57+22		✓		96"	P Pipe in Place														No Changes Req'd.	
59	60+80		✓		24"	FBCCS Pipe Req'd.	18"														Remove 10' of Exist Pipe. Connect to Exist Pipe & to Str. No. 60. 1-12" on 24" Tee Req'd.
60	61+04		✓		12"	A Inlet Type "J-10" Pipe Req'd.	24'														Connect to Str. No. 59
61	62+00		✓		12"	A Inlet Type "S-14" FBCCS Pipe Req'd.	64'		825.17	799.80										1	2- 22° 30' Bends Req'd.
62	63+10		✓			Box Culvert in Place															Constr. Outlet Ditch. No Other Changes Req'd.

## LEGEND FOR ABBREVIATION

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



\* IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW ARE TO BE USED.

# STRUCTURE DATA

\* IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW ARE TO BE USED.

FEDERAL ROAD REGION NO. STATE F-PROJECT NO. FISCAL YEAR SHEET NO. TOTAL SHEETS  
IND. 132-4(1) 1981 33 35

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE INCHES	DESCRIPTION SEE ST'D. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH- IN EACH GROUP.	LENGTH	SKEW	FLOW LINE			CONCRETE CLASS "A" "B" BORROW FOR STR. BACKFILL	BACKFILL METHOD	GAGES OR THICKNESS		VELOCITY	RIPRAP	PIPE END SECTION	REINF. STEEL	REMARKS	
									UP	DOWN	STREAM			STEEL	ALUM.						
									ELEV.	ELEV.	CU.YDS.			CU.YDS.	SYS.						EA.
	LINE "DL"																				
63	64+19	✓				Inlet in Place															Furnish 12" Pipe C.B Casting & Adjust to Grade
64	64+19	✓			12" A	Inlet Type "J-10" & Pipe Req'd.	28'			828.43	827.99										1-12" on 12" Tee Req'd. Connect to Str. No. 64.
65	69+62	✓			12" A	Inlet Type "J-10" & Pipe Req'd.	6'			895.19	894.99										Connect to Str. No. 66
66	69+62	✓			15"	Catch Basin Type "E-7" & FBCCS Pipe Req'd.	4'			892.31	891.91										Remove Exist. Hdwl. Connect to Exist. 15" Pipe & to Str. No. 65
67	70+08	✓			15"	FBCCS Pipe Req'd.	20'			822.21	819.00										Remove Exist. Hdwl. & Extend Exist. 15" Pipe
68	70+17	✓			12"	Inlet Type "S-14" & FBCCS Pipe Req'd.	30'			825.21	825.00										2-22" 30' Bands Req'd.
69	LINE "DL" REV																				
69	71+86	✓	✓		43"x27"	FBCCA	28'			817.80	815.00	0.64									Remove Exist. Hdwls. & Extend Exist Pipe 16' Lt. & 12' Rt.
70	75+35	✓			12" A	Catch Basin Type "S-14" & Pipe Req'd.	6'			899.20	898.22										Connect to Str. No. 71
71	75+35	✓			24" A	Manhole Type "A-4" & Pipe Req'd.	200'			896.80	819.00										Connect to Str. No. 70 & 73
72	76+00	✓			18"	Pipe in Place															Remove Exist. Pipe within R/W & Seal End
73	76+25	✓			24" A	Catch Basin Type "E-7" & Pipe Req'd.	110'			897.70	896.80										Connect to Str. No. 71
74	78+86	✓			36" A	Pipe Req'd.	116'	39°		842.60	896.90										Connect to Str. No. 75. 1-12" on 36" Tee Req'd.
75	78+90	✓			12" A	Catch Basin Type "E-7" & Pipe Req'd.	22'			841.92	840.95										Connect to Str. No. 74.
76	80+30	✓			15" D	Catch Basin Type "E-7" & Pipe Req'd.	184'			841.00	896.90										
77	80+40	✓			15" D	Pipe Req'd.	120'			846.00	844.50										
78	84+00	✓			15" A	Inlet Type "R-12A" & Pipe Req'd.	90'			844.64	844.00										
79	91+12	✓				Inlet Type "G-7" & Pipe Req'd.															Remove Exist. Hdwl. & 2' of Exist. Pipe. Connect to Exist. Pipe & Str. No. 80
80	91+35	✓			36" A	Pipe Req'd.	162'	19°		898.75	829.50										Connect to Str. No. 79
81	95+55	✓			106"x19" Min. Size	Steel Arch	200'	34°		827.00	825.80	4.70									2 Pipe Anchors Req'd.
	LINE "S-1-DL"																				
82	60+92	✓			15" D	Pipe Req'd.	48'	10°		844.00	843.00										
83	69+89	✓			15" D	Pipe Req'd.	40'			824.21	822.79										Remove Exist. Pipe
84	73+62	✓			12"	Pipe in Place															No Changes Req'd.
85	74+84	✓			10"	C.M. Pipe in Place															No Changes Req'd.

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE INCHES	DESCRIPTION SEE ST'D. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH- IN EACH GROUP.	LENGTH	SKEW	FLOW LINE			CONCRETE CLASS "A" "B" BORROW FOR STR. BACKFILL	BACKFILL METHOD	GAGES OR THICKNESS		VELOCITY	RIPRAP	PIPE END SECTION	REINF. STEEL	REMARKS	
									UP	DOWN	STREAM			STEEL	ALUM.						
									ELEV.	ELEV.	CU.YDS.			CU.YDS.	SYS.						EA.
	LINE "PR-S-2 of S-1-DL"																				
86	0+50		✓		15" D	Pipe Req'd.	64'			894.14	892.00										2
87	1+28	✓			15" D	Pipe Req'd.	30'			892.43	892.24										2
88	2+00	✓			15" D	Pipe Req'd.	22'			892.88	892.73										2
	LINE "S-2 of S-1-DL"																				
89	51+22	✓			15" D	Pipe Req'd.	30'			890.60	828.20										2
	LINE "S-2-D" REV																				
90	45+90(168')	✓			15" D	Pipe Req'd.	36'			841.61	841.14										2
91	46+20	✓			15" D	Pipe Req'd.	74'			842.50	842.00										2
92	46+53	✓			15" D	Pipe Req'd.	48'			842.00	898.00										2
93	47+78	✓			15" D	Pipe Req'd.	56'			840.90	898.00										2
	LINE "LOCAL SERVICE RD. N°1"																				
94	86+02	✓			15" D	Pipe Req'd.	32'			845.50	844.95										2

### LEGEND FOR ABBREVIATION

FBCCS/RI.--FULLY BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT.	FBCSA/RI.--FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH WITH PAVED INVERT.
FBCC.A.A./RI.-FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT.	FBCCAA/RI.-FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH WITH PAVED INVERT.
FBCCS-----FULLY BITUMINOUS COATED CORRUGATED STEEL.	FBCCA-----FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH.
C.S.-----CORRUGATED STEEL.	FBCCAA-----FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH.
C.A.A.-----CORRUGATED ALUMINUM	C.S.A.-----CORRUGATED STEEL ARCH.
S.P.S.-----STRUCTURAL PLATE STEEL	C.A.A.-----CORRUGATED ALUMINUM ARCH.
	S.P.S.A.-----STRUCTURAL PLATE STEEL ARCH.







FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-132-4(1)	1981	35	35



**RIGHT-OF-WAY PLAT 3**  
 PROJECT No F-132-4(1) S.R. No 18  
 FROM 0.17 MILES E. OF THE N&W  
 R.R. IN MARION TO 0.18 MILES W. OF  
 CO. RD. 300 E. IN GRANT CO., IND.  
 MOSAIC SCALE 1" = 200' SHEET 35 OF 35  
 DATE OF PHOTOGRAPHY 5-1-79  
 SOURCE: UNCONTROLLED PHOTO MOSAIC  
 INDIANA STATE HIGHWAY COMMISSION  
 PHOTOGRAMMETRY & REPRODUCTIONS DEPARTMENT