

CODE NO. 2246

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HES-MX263(1)	1991	1	10

INDIANA  
DEPARTMENT OF TRANSPORTATION

DESIGN DATA (O'BRIEN ST.)			
A.D.T. (1986)	6600	V.P.D.	
A.D.T. (2012) PROJECTED	11616	V.P.D.	
D.H.V. (2012)	929	V.P.H.	
DIRECTIONAL DISTRIBUTION		44 %	
TRUCKS D.H.V. 3 %	A.D.T.	3 %	
DESIGN SPEED	30	M.P.H.	
ACCESS CONTROL	NONE		

DES. NO. 05590

DESIGN DATA (TIPTON ST.)			
A.D.T. (1986)	26,625	V.P.D.	
A.D.T. (2012) PROJECTED	46,860	V.P.D.	
D.H.V. (2012)	3,749	V.P.H.	
DIRECTIONAL DISTRIBUTION		48 %	
TRUCKS D.H.V. 3 %	A.D.T.	3 %	
DESIGN SPEED	30	M.P.H.	
ACCESS CONTROL	NONE		

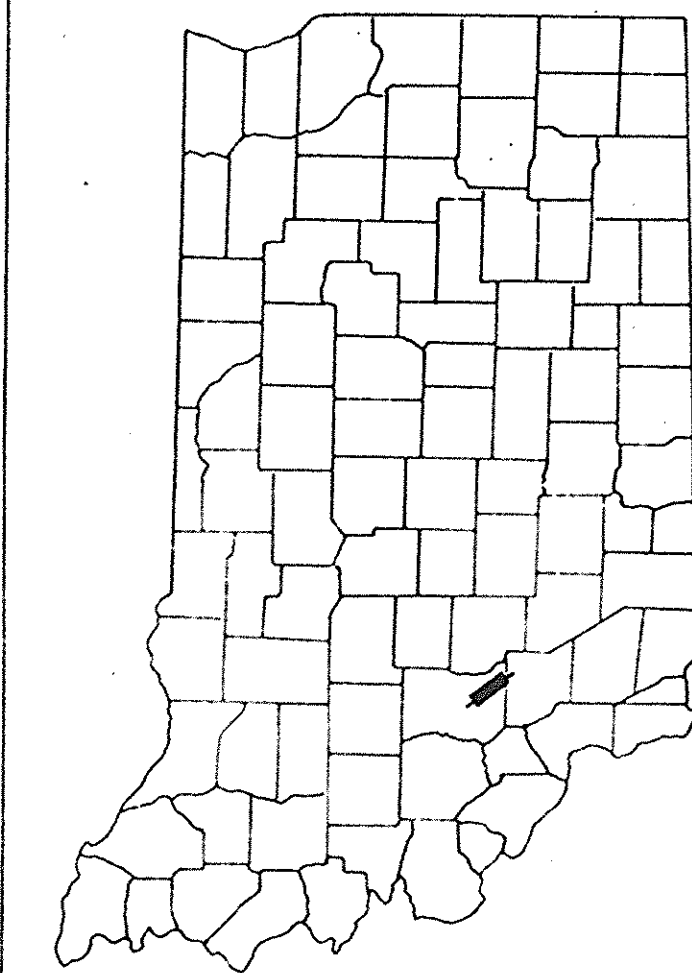
PLAN AND PROFILE OF PROPOSED  
R/W PLANS

HES-M-PROJECT NO. X 263

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

INTERSECTION IMPROVEMENT OF TIPTON ST. (U.S. 50)  
& O'BRIEN ST. SEC. 17, T6N, R6E IN SEYMOUR,  
JACKSON COUNTY, INDIANA.

GROSS LENGTH: -0.174 MI.  
NET LENGTH: -0.174 MI.  
SCALES:-  
PLAN { LONG:- 1"= 50'    { HORIZ:- 1"= 50'  
      { TRANS:- 1"= 50'    { PROFILE { VERT:- 1"= 10'  
MAX. GRADE 1.70%

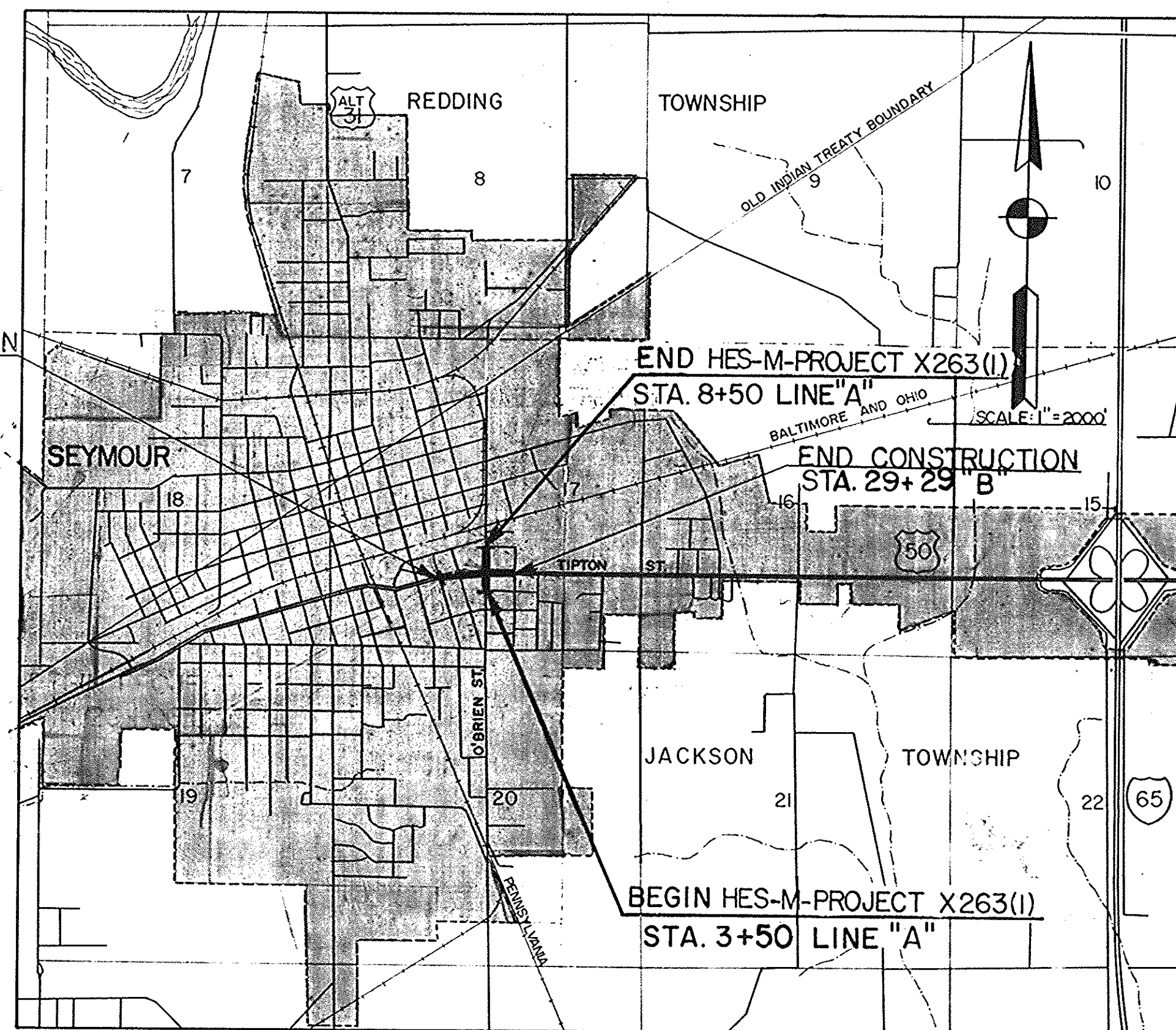


LOCATION OF SECTION INDICATED THUS

NOTE:  
FOR PLACEMENT OF CONSTRUCTION  
SIGNS, SEE MAINTENANCE OF  
TRAFFIC SHEETS NOS. 4-6.

APPROVED  
CITY OF SEYMOUR  
BOARD OF PUBLIC WORKS & SAFETY  
DATE \_\_\_\_\_

BEGIN CONSTRUCTION  
STA. 20+10 "B"



END HES-M-PROJECT X263(1)  
STA. 8+50 LINE "A"

END CONSTRUCTION  
STA. 29+29 "B"

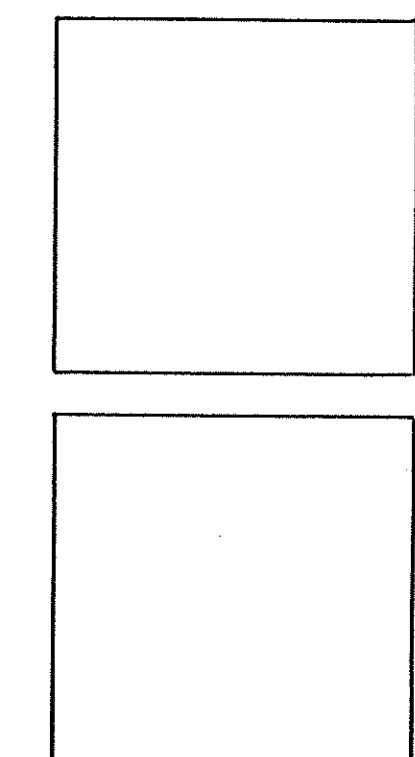
BEGIN HES-M-PROJECT X263(1)  
STA. 3+50 LINE "A"

RECOMMENDED FOR APPROVAL 6-18-91  
DATE:

*Bill Best*  
ACTING ENGINEER OF LAND ACQUISITION

APPROVED: 6-19-91  
DATE

*John D. Farley*  
CHIEF, DIVISION OF LAND ACQUISITION



FEDERAL HIGHWAY ADMINISTRATION  
DEPARTMENT OF TRANSPORTATION  
APPROVED  
DIVISION ADMINISTRATOR DATE

ROAD FILE:-

PLANS PREPARED BY  
**SIECO, INC.**  
629 WASHINGTON ST.  
P.O. BOX 407  
COLUMBUS, IN 47202  
PHONE: (812) 372-9911  
CERTIFIED \_\_\_\_\_ DATE \_\_\_\_\_

INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 1988  
TO BE USED WITH THESE PLANS

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
HES-MX263(1)		1	10	



### UTILITIES

GAS	Indiana Gas Company	1603 N. Meridian St., Indianapolis, Ind.
ELECTRIC	Public Service Indiana	1000 E. Main St., Plainfield, Indiana
TELEPHONE	Contel of Indiana, Inc.	309 N. Chestnut ; Seymour, Indiana Ph. 522-4359
SANITARY SEWER	Sanitary Utility, City Bldg.	220 N. Chestnut; Seymour, Indiana Ph. 522-4345
WATER	Indiana American Water	114 S. Chestnut ; Seymour, Indiana Ph. 522-5093
CABLE T.V.	Cardinal Communications	908 N. O'Brien, Seymour, Indiana Ph. 522-8791

### REVISIONS

SHEET NO.	DATE	REVISED
3, 5, 6, 7, 8	12-12-91	Revised R/W and Temp R/W - Parcel B
5, 6, 7, 8	10-10-95	REVISED PARCEL 7 & ADDED NEW PARCELS 12 & 13
5, 6	11-06-97	ADDED TEMP R/W PARCEL A
5, 6	1-13-98	ADDED TEMP. R/W - PAR 7 thru 13
7 & 9	1-28-98	ADDED CI. INDR.

### 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 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.

\*\* All nonpaved areas shall be sodded.

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. 14.

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 Sheet "MP".

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 Contractor must accept the plan quantities of Subbase as given on the Estimate of Quantities Sheet subject to the conditions as set out in 30407 of the Standard Specifications.

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.

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. R/W) 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 over 42" diameter 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 2:1 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.

\*\* Prefomed 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 Sections, 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 the Semi-Ellipse Aluminum Tubular Section or the Steel Tubular Section.

\*\* Unless otherwise specified the contractor shall have the option of using either Hot Asphalt Concrete (H.A.C.) or Hot Asphalt Emulsion (H.A.E.) on all bituminous items.

\*\* Where "B-15" and "C-15" Inlets are used, the Curb and Gutter shall transition on either side to match the Inlet width.

\*\* REPRESENTS GENERAL NOTES REQUIRED

R/W INDEX	
SHEET NO.	DESIGNATION
1	Title Sheet
2	Information Sheet
3	Parcel Listing for Land Acquisition
4	Typical Cross Sections
5-6	Plan and Profile
7-8	Details
9	Summary of Quantities & Approach Table
10	Structure Data

### INDEX

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HES-MX263(1)	1991	2	10

SHEET NO.	DESIGNATION	F.H.W.A. APPROVAL	DATE ADOPTED, LATEST REVISION
1	TITLE SHEET		
2	INFORMATION SHEET		
	ST'D. DIV. LANE ( )		
	ST'D. DIV. LANE ( )		
	ST'D. DIV. LANE ( )		
3	ST'D. SINGLE LANE PAVEMENT SECTIONS		
	TYPICAL CROSS SECTION		
	ST'D. RAMP SECTION		
4-6	MAINTENANCE OF TRAFFIC DETAILS		
	ST'D. CONT REINF CONC. PAV'T SHEET "C.R.C.-A"		
	ST'D. CONT REINF CONC. PAV'T SHEET "C.R.C.-B"		
	ST'D. CONT REINF CONC. PAV'T SHEET "C.R.C.-C"		
6A	ST'D. PAVEMENT JOINTS SHEET "A"	*	R6-3-85
	ST'D. PAVEMENT JOINTS SHEET "B"		
	PLAT NO.		
7-8	PLAN AND PROFILE		
9-10	DETAILS		
11	TRAFFIC SIGNAL DETAILS		
12	TRAFFIC SIGN STRUCTURE DETAILS		
13	TRAFFIC SIGN PAVEMENT MARKING SCHEDULE		
14	SUMMARY OF QUANTITIES AND APPROACH TABLE		
15	STRUCTURE DATA		
16-18	ESTIMATE OF QUANTITIES		
19	MISCELLANEOUS STANDARDS, SHEET "MA-1"	7-3-88	R6-1-88
	MISCELLANEOUS STANDARDS, SHEET "MA-2"		
	MISCELLANEOUS STANDARDS, SHEET "MB"		
	MISCELLANEOUS STANDARDS, SHEET "MB-1"		
	MISCELLANEOUS STANDARDS, SHEET "MB-2"		
	MISCELLANEOUS STANDARDS, SHEET "MB-4"		
20	MISCELLANEOUS STANDARDS, SHEET "MC"	1-11-89	R9-1-88
21	MISCELLANEOUS STANDARDS, SHEET "MC-1"	1-11-89	R9-1-88
22	MISCELLANEOUS STANDARDS, SHEET "MD"	12-27-82	R10-1-82
	MISCELLANEOUS STANDARDS, SHEET "MD-1"		
23	MISCELLANEOUS STANDARDS, SHEET "MD-3"	12-27-82	R10-1-82
23A	MISCELLANEOUS STANDARDS, SHEET "MD-4"	12-27-82	R10-1-82
24	MISCELLANEOUS STANDARDS, SHEET "ME"	5-19-88	R4-4-88
	MISCELLANEOUS STANDARDS, SHEET "ME-1"		
	MISCELLANEOUS STANDARDS, SHEET "ME-2"		
25	MISCELLANEOUS STANDARDS, SHEET "MH"	*	R3-1-90
	MISCELLANEOUS STANDARDS, SHEET "MH-1"		
	MISCELLANEOUS STANDARDS, SHEET "MH-2"		
26	MISCELLANEOUS STANDARDS, SHEET "MI"	5-19-88	R4-4-88
26A	MISCELLANEOUS STANDARDS, SHEET "MI-1"	7-13-88	R6-1-88
	MISCELLANEOUS STANDARDS, SHEET "MI-2"		
	MISCELLANEOUS STANDARDS, SHEET "MI-3"		
27	MISCELLANEOUS STANDARDS, SHEET "MJ"	9-24-85	R6-3-85
	MISCELLANEOUS STANDARDS, SHEET "MJ-1"		
28	MISCELLANEOUS STANDARDS, SHEET "MN"	9-24-85	R6-3-85
	MISCELLANEOUS STANDARDS, SHEET "MN-1"		
	MISCELLANEOUS STANDARDS, SHEET "MP"		
	MISCELLANEOUS STANDARDS, SHEET "MP-1"		
	MISCELLANEOUS STANDARDS, SHEET "MP-2"		
	MISCELLANEOUS STANDARDS, SHEET "MP-3"		
	MISCELLANEOUS STANDARDS, SHEET "MP-4"		
	MISCELLANEOUS STANDARDS, SHEET "MP-5"		
	MISCELLANEOUS STANDARDS, SHEET "MP-6"		
	MISCELLANEOUS STANDARDS, SHEET "MP-7"		
	MISCELLANEOUS STANDARDS, SHEET "MP-8"		
	MISCELLANEOUS STANDARDS, SHEET "MP-9"		
29	MISCELLANEOUS STANDARDS, SHEET "MT"	7-19-83	R5-2-83
	MISCELLANEOUS STANDARDS, SHEET "MT-1"		
	MISCELLANEOUS STANDARDS, SHEET "MT-1A"		
30	MISCELLANEOUS STANDARDS, SHEET "MT-2"	6-28-89	R5-1-89
31	MISCELLANEOUS STANDARDS, SHEET "MT-3"	8-5-88	R8-1-88
	MISCELLANEOUS STANDARDS, SHEET "MT-6A"		
	MISCELLANEOUS STANDARDS, SHEET "MT-6B"		
32	MISCELLANEOUS STANDARDS, SHEET "MT-7"	7-19-83	R5-2-83
	MISCELLANEOUS STANDARDS, SHEET "MT-9"		
33	MISCELLANEOUS STANDARDS, SHEET "MT-II"	12-27-82	A October, 1982
	MISCELLANEOUS STANDARDS, SHEET "MV-1"		
	MISCELLANEOUS STANDARDS, SHEET "MV-2"		
	MISCELLANEOUS STANDARDS, SHEET "MV-3"		
	MISCELLANEOUS STANDARDS, SHEET "MV-4"		
	ST'D. STR. CONN. FOR EXTENSION		
	ST'D. R.C. BOX CULV.		
	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. F.		
	ST'D. R.C. CULV. W.O.F. SK.		
	ST'D. R.C. CULV. U.F. SK.		
	GUARD RAIL SHEET GR-1		
	GUARD RAIL SHEET GR-2		
	GUARD RAIL SHEET GR-3		
	GUARD RAIL SHEET GR-4		
	ALUMINUM GUARD RAIL DETAILS SHEET GR-5		
	STEEL TUBE GUARD RAIL DETAILS SHEET GR-6		
	GUARD RAIL PIER CONNECTION DETAILS SHEET GR-7		
34	TEMPORARY CONCRETE BARRIER, SHEET CB-2	1-11-89	R9-1-88
	ST'D. FOR SUPERELEVATION ( )		
	ST'D. FOR SUPERELEVATION ( )		
	ST'D. DETOUR SIGNS, SHEET 1		
	ST'D. DETOUR SIGNS, SHEET 1C		
35	ST'D. DETOUR SIGNS, SHEET 2	*	A SEPT 1988
36	ST'D. DETOUR SIGNS, SHEET 2A	*	A SEPT 1988
37	ST'D. DETOUR SIGNS, SHEET 3	*	R9-1-88
38	ST'D. DETOUR SIGNS, SHEET 3A	*	R9-1-88
39	ST'D. DETOUR SIGNS, SHEET 4	1-11-89	R9-1-88
40	ST'D. SIGN DESIGN DETAILS, SHEET 5	*	R9-1-88
41-51	CROSS SECTIONS		

\* F.H.W.A. APPROVAL PENDING

PROJECT NO.	LINE NO.	SHEET NO.	TOTAL SHEETS	FILE
HES-MX263(1)		2	10	

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HES-M-X263(1)	1991	3	10

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HES-M-X263(1)	1991	3	10

ROAD USR 50 COUNTY-JACKSON LAL10 PROJECT HES-M-X263(1) L.A. CODE 2246 DATE 06-20-91

PARCEL LISTING FOR LAND ACQUISITION INDIANA DEPARTMENT OF TRANSPORTATION

PARCEL NUMBER	GRANTOR	CENTER LINE	FROM APPROX STA.	TO APPROX STA.	BRIDGE	TOTAL AREA	R/W EXISTING	NATURE OF TITLE ACQUIRED	LAND TO BE ACQUIRED	RESIDUE AREA	BLDG.
1	CUMMINGS, JAMES R. ET UX	B	20	22	5+ 6+ 7	21,220SF		FS	1,015SF	A= 5,391SF B= 14,294SF	
1A		B	20	22	5+ 6+ 7			TE	524SF		
1B		B	20	22	5+ 6+ 7			FS	520SF		
2	GAS VENTURES INC	B	21	23	5+ 6+ 7	22,220SF		FS	752SF	A= 21,468SF	
2A		B	22	23	5+ 6+ 7			TE	277SF		
3	POWERS, DOUGLAS L. E.	B	22	23	5+ 6+ 7	7,340SF		FS	966SF	A= 6,374SF	
3A		B	22	22	5+ 6+ 7			TE	1,221		
4	KOehler, James R. ET UX	B	23	24	4+ 6	11,258SF		FS	563SF	A= 10,695SF	
4A		B	23	24	4+ 6			TE	672SF		
5	M.R.S PROPERTIES, INC	B	23	24	4+ 5+ 6	9,383SF		FS	2,357SF	A= 7,026SF	
5A		B	23	24	4+ 5+ 6			TE	3,427SF		
6	FENTON, JAMES EDWARD	B	24	24	5+ 6+ 7	4,173SF		FS	985SF	A= 3,188SF	
6A	ELIMINATED 6-17-91	B	25	25	5+ 6+ 7	<del>2,047 AC</del>		FS	<del>0.02 AC</del>	<del>0.935 AC</del>	
7	<del>WALZ FAMILY TRUST</del>	B	25	29	5+ 6+ 7			TE	<del>0.02 AC</del>	<del>0.02 AC</del>	
7A		B	25	29	5+ 6+ 7			FS	743SF		
8	TOPPE, ROBERT E. ET UX.	B	25	26	5+ 6+ 7	10,200SF		FS	1,335SF	A= 16,122SF	
9	WESNER, LARRY J. ET UX	B	26	27	4+ 5+ 6	13,000SF		FS	591SF	A= 12,109SF	
9A	ELIMINATED 6-3-91	B									
9B	ELIMINATED 6-3-91	B									
10	RENFRO, LARRY N. ET UX.	B	27	27	5+ 6+ 7	5,200SF		FS	1,600SF	A= 4,840SF	
10A	ELIMINATED 6-4-91	B									
11	PERRY, KENNETH L. ET UX.	B	28	28	5+ 6+ 7	15,600SF		FS	492SF	A= 14,508SF	
11A	ELIMINATED 6-4-91	B									
11B	ELIMINATED 6-4-91	B									
12	Johnson Oil Co.	B	24	27	6	0.192 AC		FS	0.101 AC	A= 0.870 AC	
12A		B	24	27	6			TE	0.082 AC		
13	ANTHONY, INC.	B	26	28	6	0.630		FS	0.033 AC	A= 0.587	
13A		B	26	28	6			TE	0.024 AC		

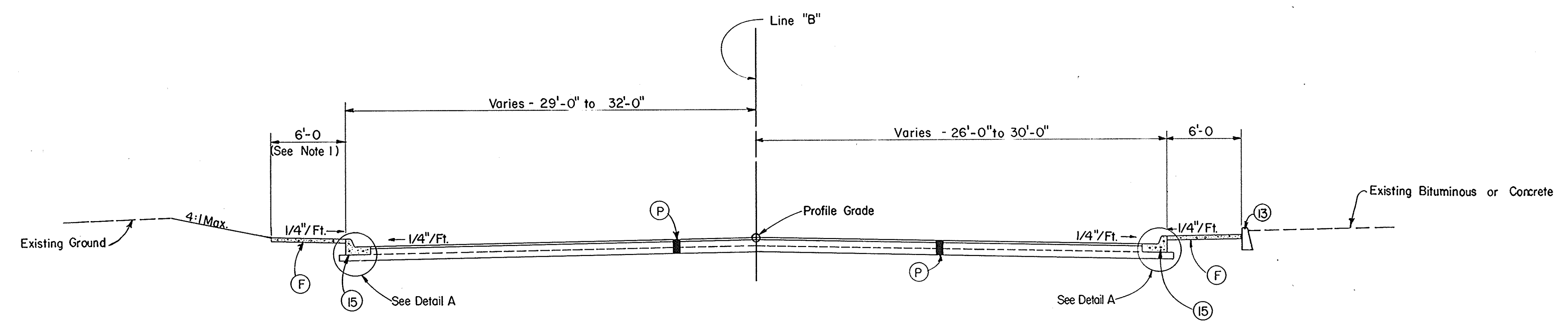
REV. 12-12-91 M.J. CALLES  
REV. 12-12-91 M.J. CALLES

REV. 10-10-95 L.A. CBALL  
REV. 10-10-95 L.A. CBALL

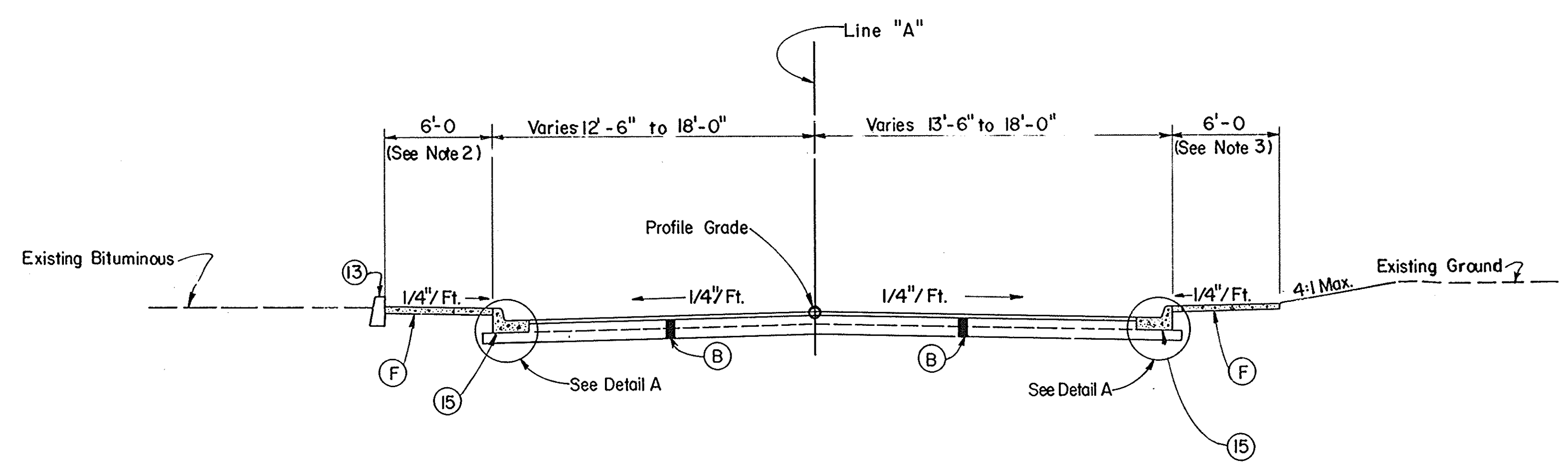
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REV. 10-10-95 L.A. CBALL

\* (ASTERISK) IN THE BRIDGE COLUMN INDICATES THE PARCEL IS PARTIALLY OR COMPLETELY WITHIN THE LIMITS OF A BRIDGE PROJECT.  
 \* (ASTERISK) IN THE BLDG. COLUMN INDICATES A BUILDING TO BE REMOVED IS PARTIALLY OR COMPLETELY WITHIN THE R/W REQUIRED.  
 FS = FEE SIMPLE TITLE  
 TE = TEMPORARY R/W

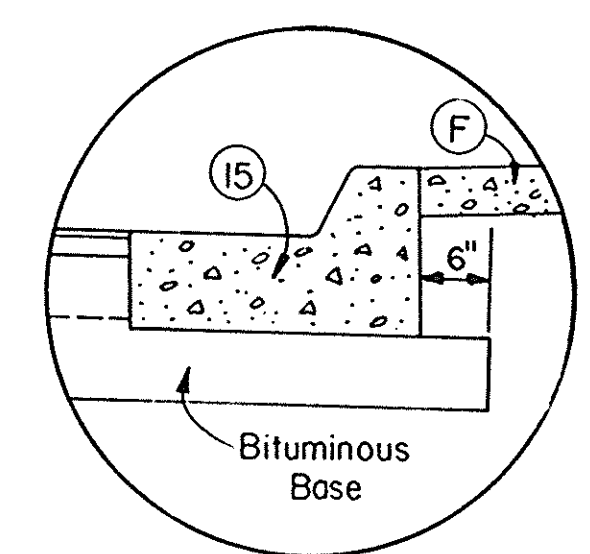
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HES-MX263(1)	1991	4	10



Line "B" Sta. 20+10.00 to Sta. 29+27.00  
**TYPICAL SECTION**  
 Scale 3/16" = 1'-0"



Line "A" Sta. 3+50 to Sta. 5+22 & Sta. 5+82 to Sta. 8+50  
**TYPICAL SECTION**  
 Scale: 3/16" = 1'-0"



**DETAIL A**  
 Scale: 3/4" = 1'-0"

**NOTES**

- Sidewalk to be 5'-0" from Sta. 20+10"B" to Sta. 22+55"B".
- Sidewalk to be 5'-0" wide from Sta. 3+50"A" to Sta. 4+50"A".
- No sidewalk or curb req'd from Sta. 3+50"A" to Sta. 4+15"A" Rt.
- All disturbed areas to be nursery sodded. See general notes.

**LEGEND**

- (B) Mainline Pavement - O'Brien St.  
110#/s.y. Bituminous Surface II, MV on  
220#/s.y. Bituminous Binder 8 or 9, HV on  
990#/s.y. Bituminous Base 5 D, HV
- (P) Mainline Pavement - Tipton St.  
110#/s.y. Bituminous Surface II, MV on  
220#/s.y. Bituminous Binder 8 or 9, HV on  
1320#/s.y. Bituminous Base 5 D, HV
- (F) 4" Concrete Sidewalk
- (13) Concrete Curb (See Detail Sheets for Locations)
- (15) Concrete Curb & Gutter

**TYPICAL CROSS SECTIONS**

SCALE: AS SHOWN

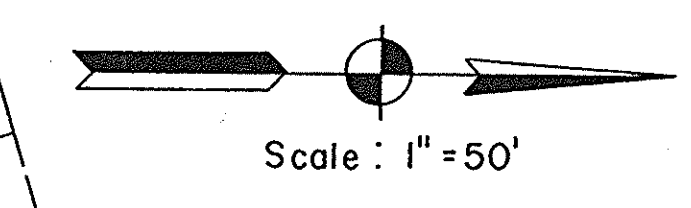
RECOMMENDED FOR APPROVAL \_\_\_\_\_

ENGINEER OF ROAD DESIGN \_\_\_\_\_

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
HES-MX263(1)		4	10	

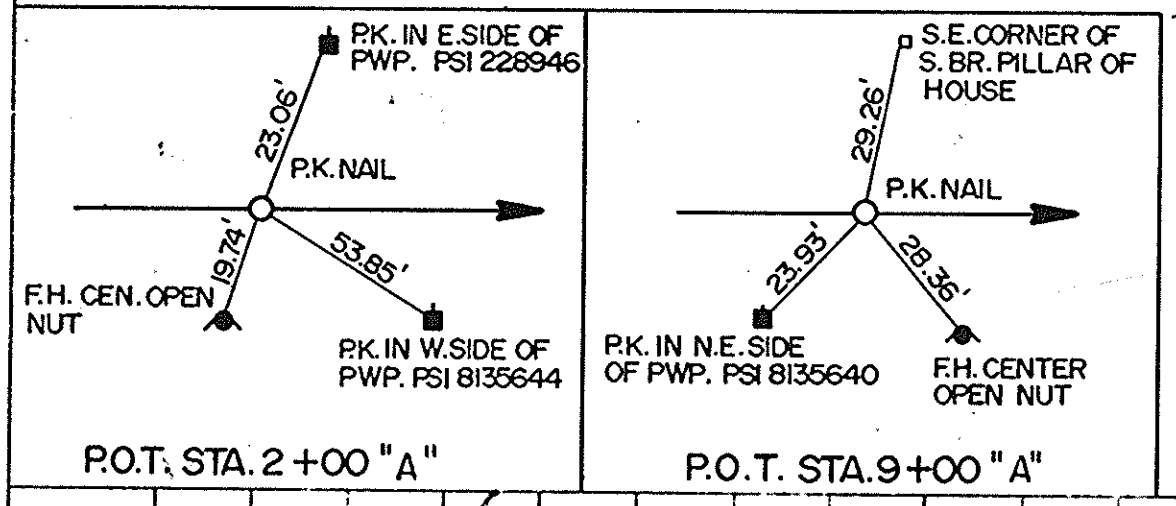


FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
5	IND	HES-MX263(1)	1991	5



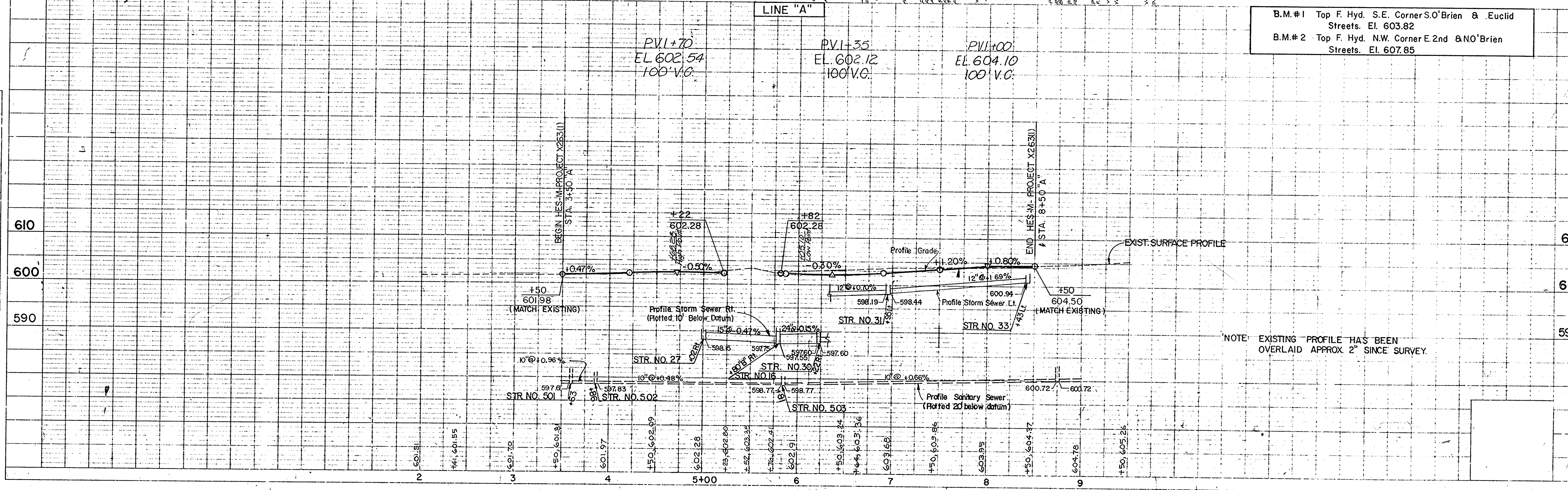
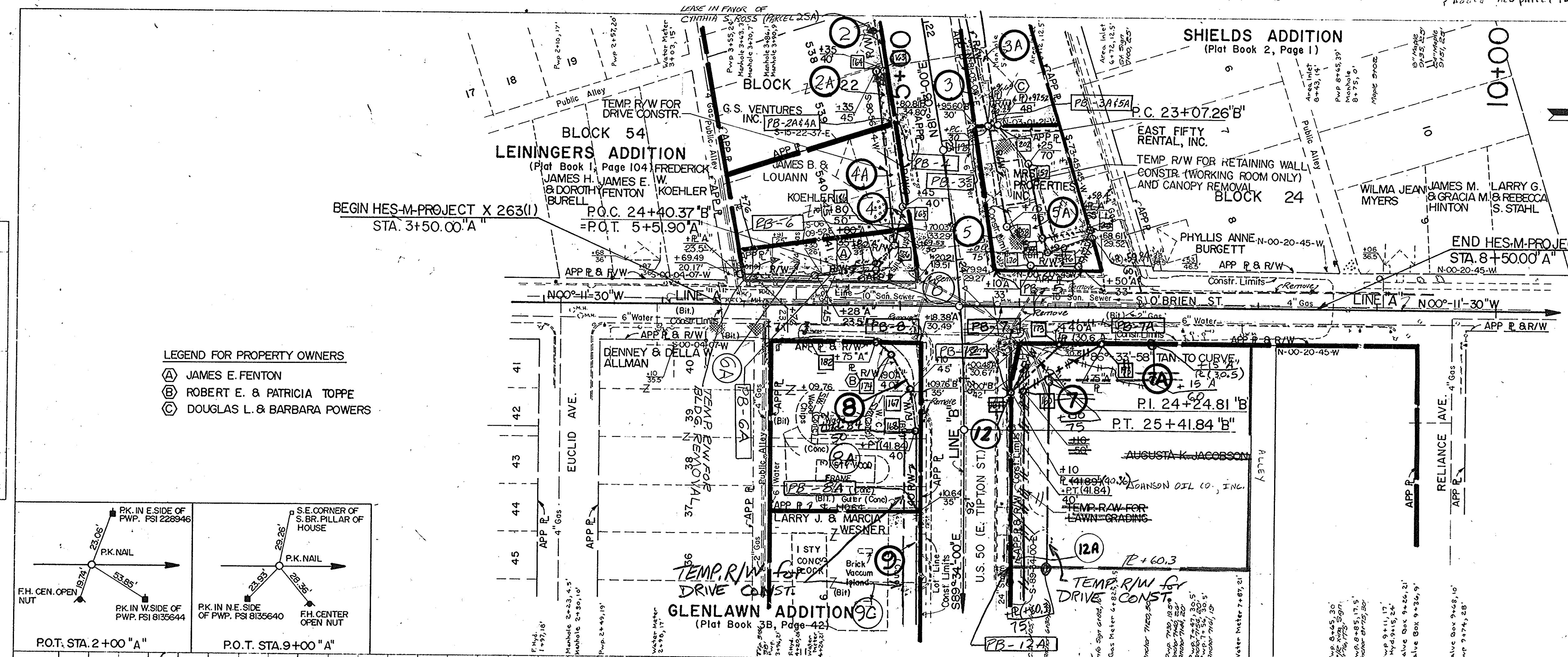
BEGIN HES-M-PROJECT X 263(1) STA. 3+50.00 "A"  
 END HES-M-PROJECT X263(1) STA. 8+50.00 "A"

- LEGEND FOR PROPERTY OWNERS**
- (A) JAMES E. FENTON
  - (B) ROBERT E. & PATRICIA TOPPE
  - (C) DOUGLAS L. & BARBARA POWERS



NOTE: ALL R/W THIS SHEET TO BE AS SHOWN.  
 ALL R/W TO BE TAKEN FROM LINE "B"  
 UNLESS OTHERWISE NOTED.  
 FOR DRAINAGE AND CONSTRUCTION DETAILS  
 SEE SHEET NO. 7 & 8.

B.M.#1 Top F. Hyd. S.E. Corner S.O'Brien & Euclid Streets. EL. 603.82  
 B.M.#2 Top F. Hyd. N.W. Corner E. 2nd & N.O'Brien Streets. EL. 607.85



NOTE: EXISTING PROFILE HAS BEEN OVERLAID APPROX. 2' SINCE SURVEY.

**PLAN**  
 SURVEYED, PLOTTED, & CHECKED BY: [Name]  
 NOTE BOOK, REVISIONS, & DATE: [Details]  
 NO. [Number]

**PROFILE**  
 SURVEYED, PLOTTED, & CHECKED BY: [Name]  
 NOTE BOOK, REVISIONS, & DATE: [Details]  
 NO. [Number]



**CURVE DATA LINE "B"**

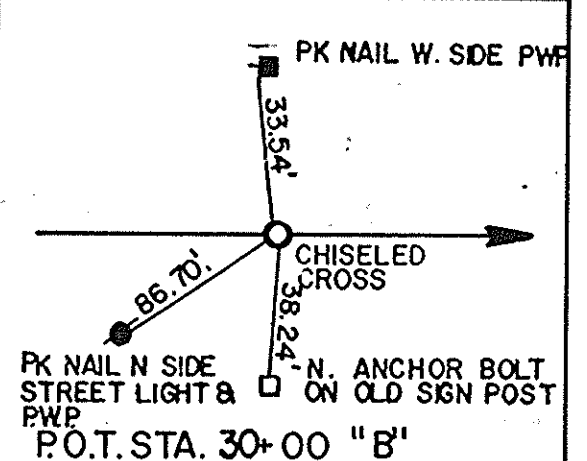
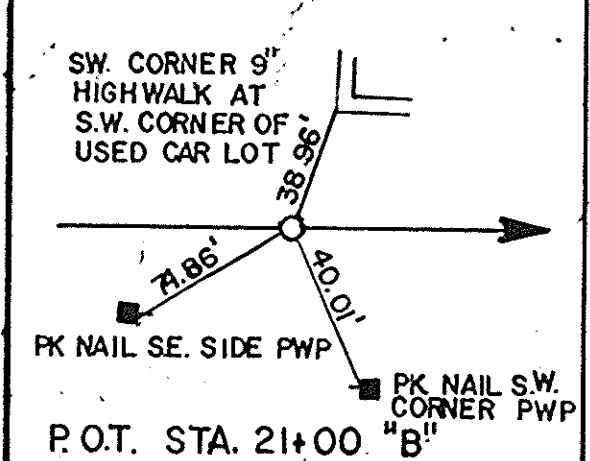
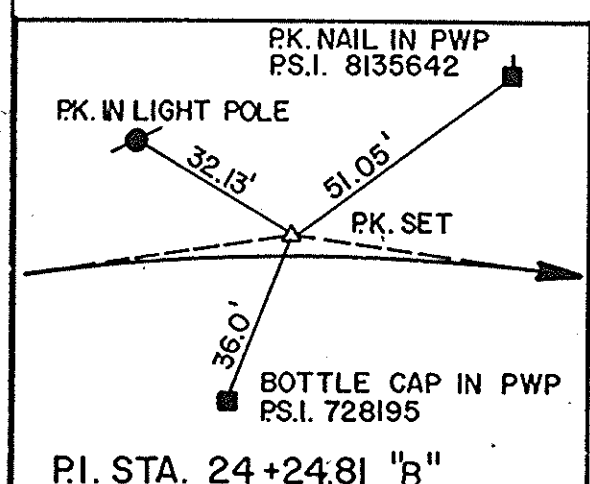
$\Delta = 9^{\circ}23'00''$  Rt.  
 $D = 4^{\circ}00'00''$   
 $R = 1432.33'$   
 $T = 117.55'$   
 $L = 234.58'$   
 $E = 4.82'$   
 $M = NC$

BEGIN CONSTRUCTION STA. 20+10 "B"

BEGIN INCIDENTAL CONSTRUCTION STA. 19+00 "B"

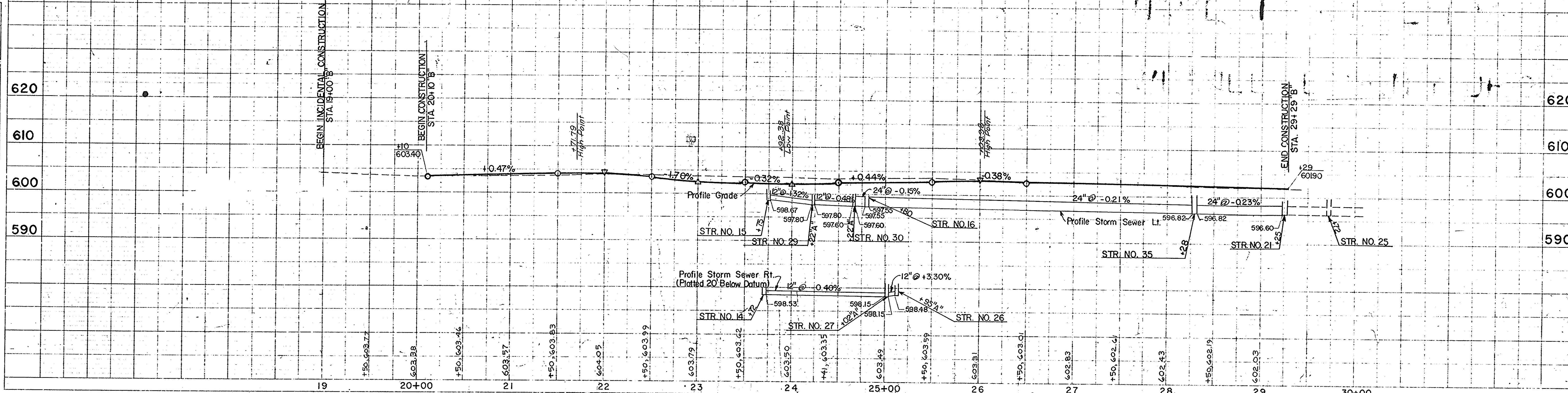
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTL SHEET
5	IND.	HES-MX263(1)	1991	6	10

- LEGEND FOR PROPERTY OWNERS**
- (A) JAMES E. FENTON
  - (B) ROBERT E. & PATRICIA TOPPES
  - (C) LARRY N. & PAULA RENFROE
  - (D) PHYLLIS ANNE & ALLEN BURGETT



**BENCH MARK DATA**  
 B.M.#1 Top F. Hyd. S.E. Corner O'Brien & Euclid Streets  
 EL. 603.82  
 T.B.M.#1 Anchor Bolt on N.W. Corner 2'x2' Concrete Pad  
 on S.E. Corner Tipton & Park Streets. EL. 605.12

P.V.I. +00 EL. 604.30 100' V.C.  
 P.V.I. +00 EL. 602.60 100' V.C.  
 P.V.I. -00 EL. 602.28 100' V.C.  
 P.V.I. -00 EL. 603.15 100' V.C.



PLAN SURVEYED, NOTED, AND CHECKED BY DATE  
 NOTE BOOK NO. OF WAY CHECKED

PROFILE SURVEYED, NOTED, AND CHECKED BY DATE  
 NOTE BOOK NO. OF WAY CHECKED  
 ELEVATION CHECKS

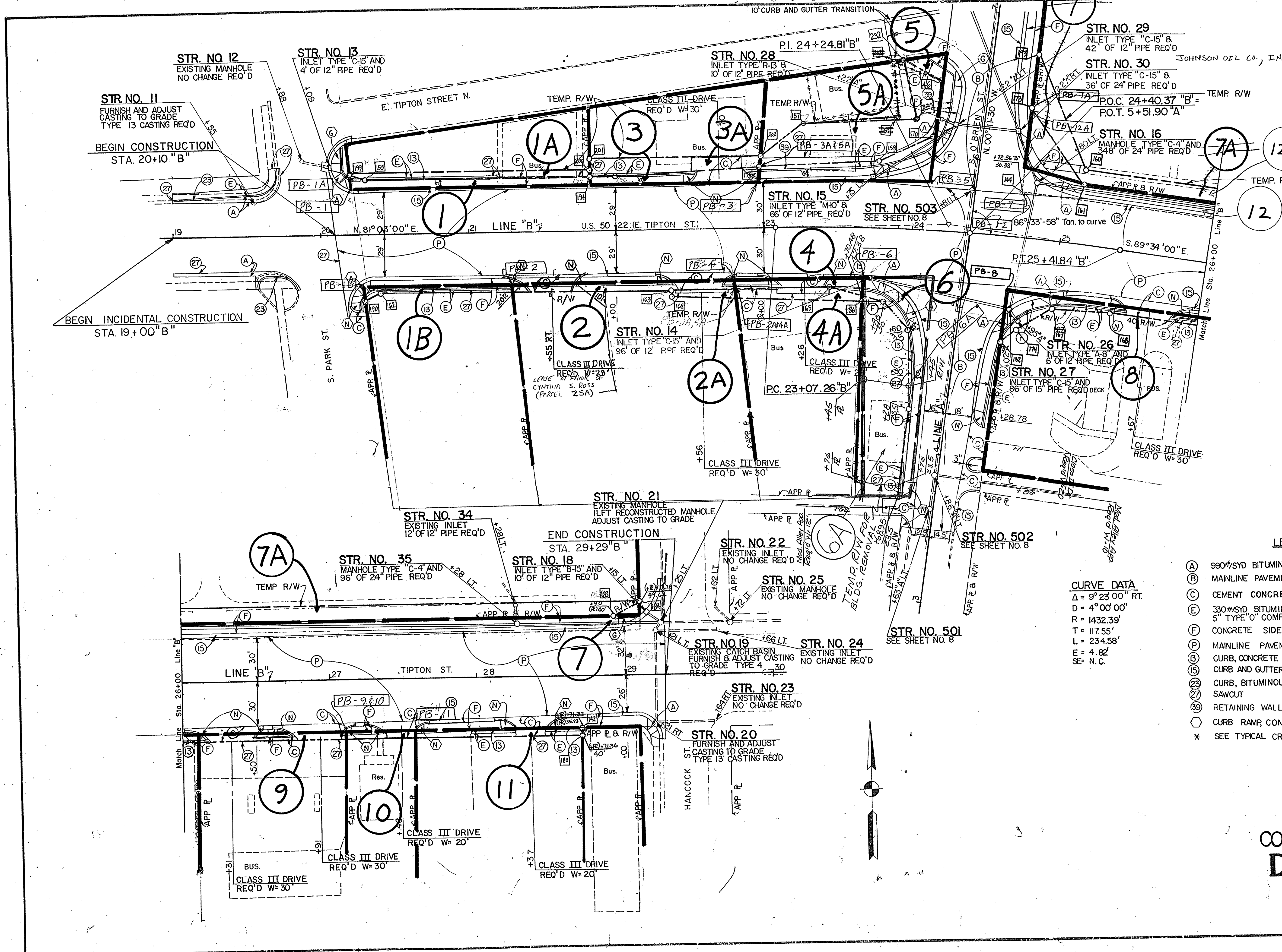
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE  
 WITH SUPPLEMENTARY TRACKING PROFILES  
 PRINTED IN U.S.A.

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
HES-MX263(1)	B	6	10	



FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HES-MX2630	1991	7	7

REV. 1-28-98, ADDED CL. III DR. @ STA. 21+55 RT. M.E.H.A.



LEGEND

- (A) 990#SYD BITUMINOUS MIXTURE FOR PATCHING
- (B) MAINLINE PAVEMENT - O'BRIEN STREET \*
- (C) CEMENT CONCRETE PAVEMENT FOR DRIVEWAYS - 6"
- (E) 330#SYD BITUMINOUS MIXTURE FOR APPROACHES, MV ON 5" TYPE "O" COMPACTED AGGREGATE BASE NO. 53
- (F) CONCRETE SIDEWALK - 4"
- (P) MAINLINE PAVEMENT - TIPTON STREET \*
- (B) CURB, CONCRETE
- (15) CURB AND GUTTER, CONCRETE
- (23) CURB, BITUMINOUS
- (27) SAWCUT
- (39) RETAINING WALL
- (6) CURB RAMP, CONCRETE (LETTER INDICATES TYPE)
- \* SEE TYPICAL CROSS SECTIONS

**CURVE DATA**  
 $\Delta = 9^{\circ} 23' 00''$  RT.  
 $D = 4^{\circ} 00' 00''$   
 $R = 1432.39'$   
 $T = 117.55'$   
 $L = 234.58'$   
 $E = 4.82'$   
 $SE = N.C.$

CONSTRUCTION DETAILS

Scale: 1" = 30'

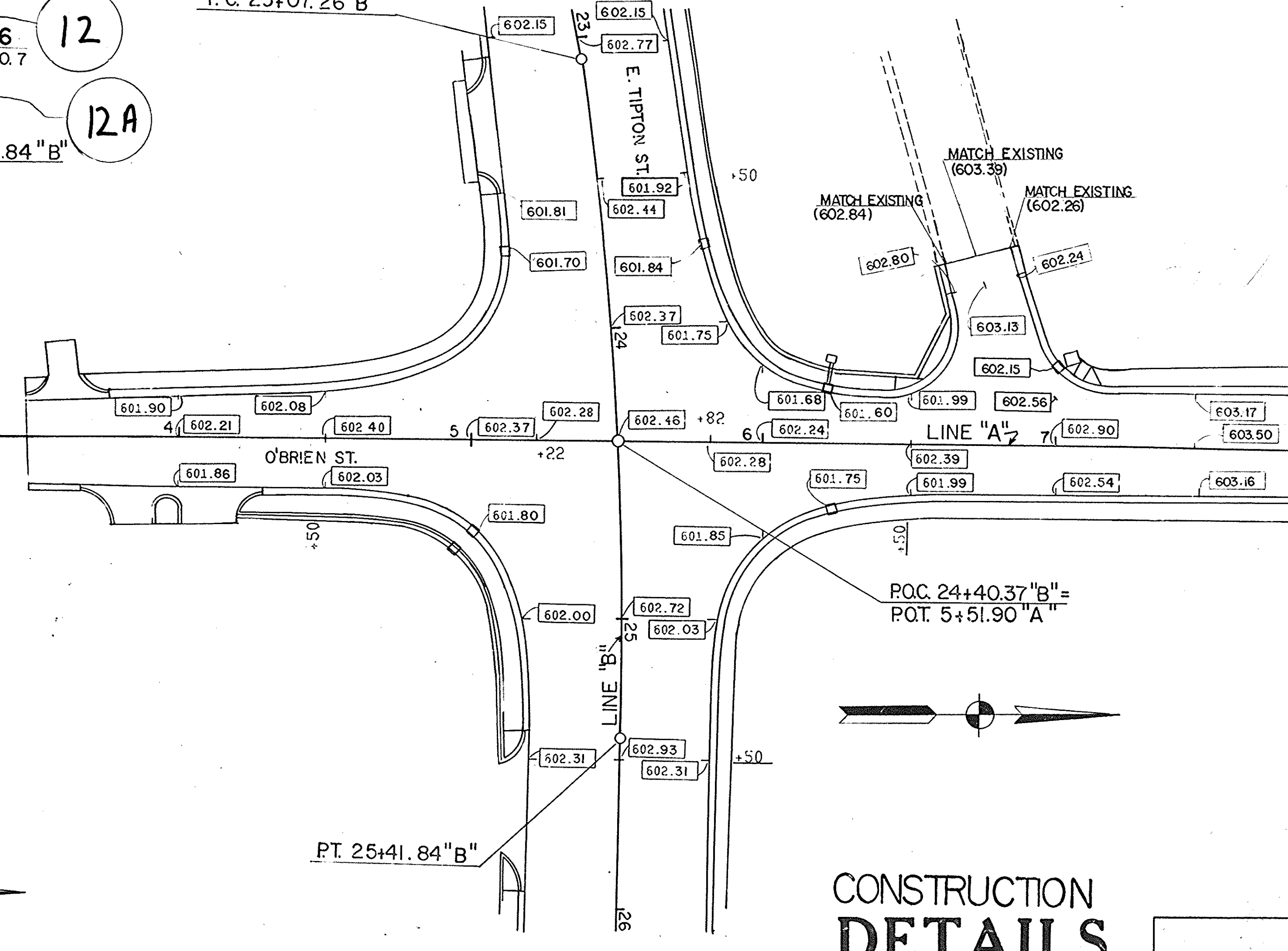
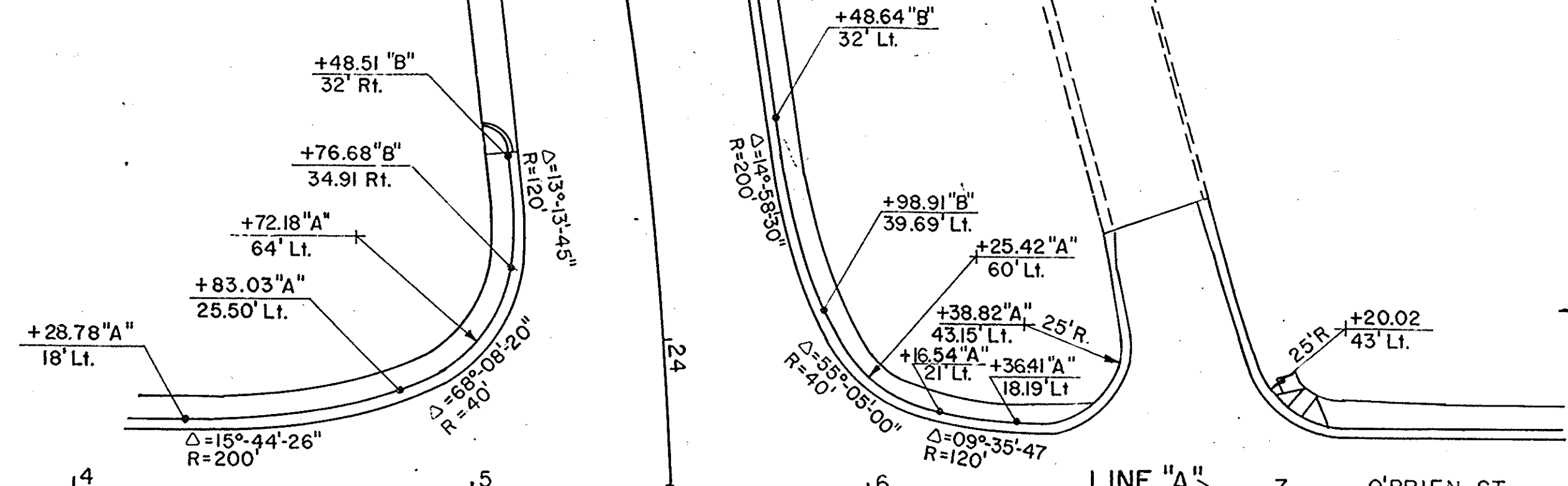
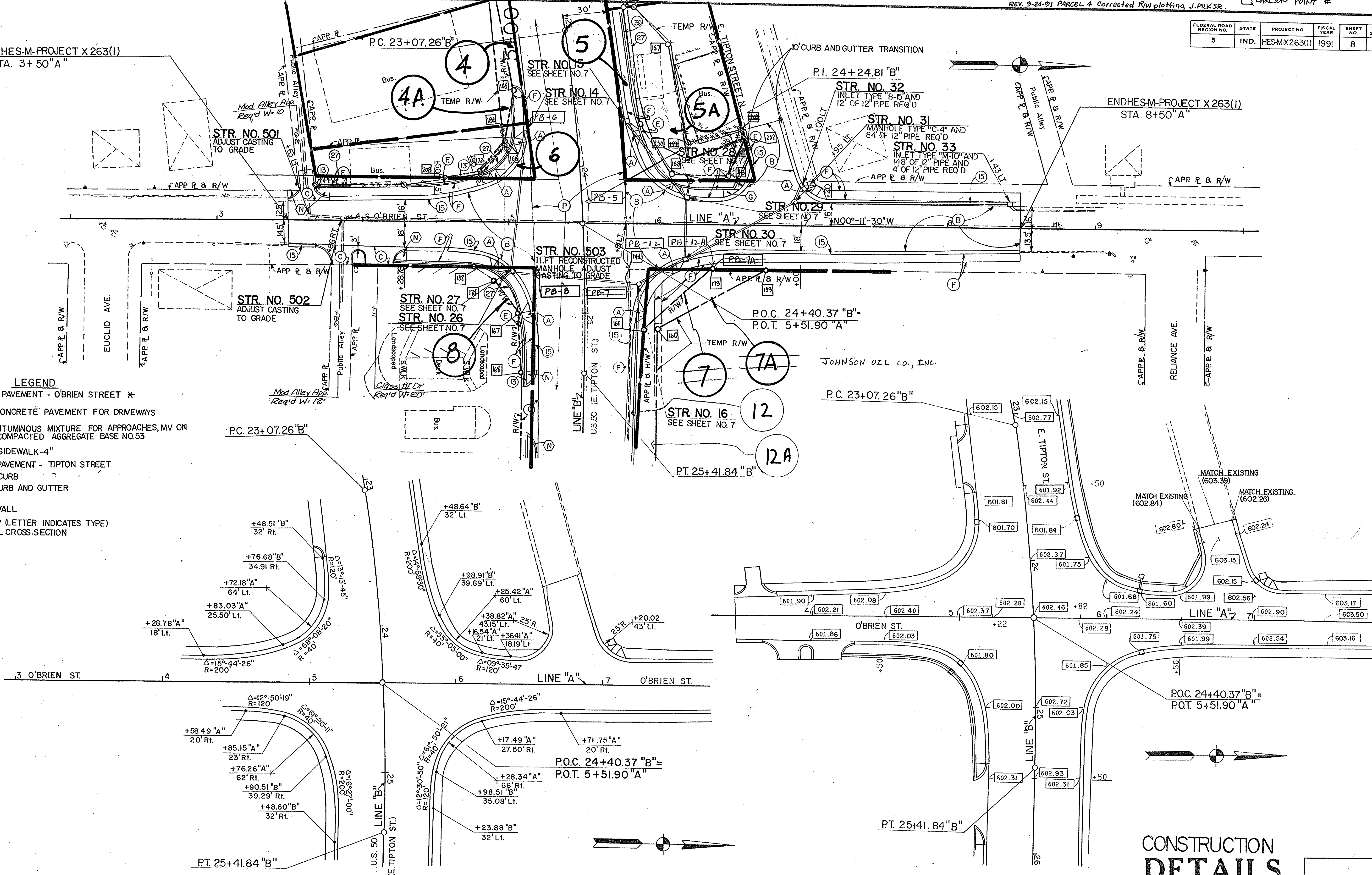


FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HES-MX263(1)	1991	8	1

BEGIN HES-M-PROJECT X 263(1)  
STA. 3+50 "A"

END HES-M-PROJECT X 263(1)  
STA. 8+50 "A"

- LEGEND**
- (B) MAINLINE PAVEMENT - O'BRIEN STREET \*
  - (C) CEMENT CONCRETE PAVEMENT FOR DRIVEWAYS
  - (E) 330%SYD BITUMINOUS MIXTURE FOR APPROACHES, MV ON 5" TYPE "O" COMPACTED AGGREGATE BASE NO.53
  - (F) CONCRETE SIDEWALK-4"
  - (P) MAINLINE PAVEMENT - TIPTON STREET
  - (B) CONCRETE CURB
  - (15) CONCRETE CURB AND GUTTER
  - (27) SAWCUT
  - (39) RETAINING WALL
  - (C) CURB RAMP (LETTER INDICATES TYPE)
  - \* SEE TYPICAL CROSS-SECTION



# CONSTRUCTION DETAILS

Scale: 1" = 30'







\* 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 DIVISION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HES-M-X 263(1)	1991	10	10

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE	GROUP	DESCRIPTION SEE ST'D. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH-IN EACH GROUP	LENGTH	SKEW	COVER	FLOW LINE		CONCRETE CLASS "A"	"B" BORROW FOR STR. BACKFILL	BACKFILL METHOD	GAGES OR THICKNESS		VELOCITY	RIPRAP	PIPE END SECTION	REINF. STEEL	REMARKS
											UP STREAM	DOWN STREAM				STEEL	ALUM.					
					INCHES			FT.		FT.	ELEV.	ELEV.	CU.YDS.	CU.YDS.		IN.	IN.	TON	EA.	LBS.		
11	19+55	X					Existing Inlet															Castings Furnished And Adjusted To Grade, Type 13 Req'd
12	19+18	X					Existing Manhole															No Change Req'd
13	20+09	X			12	L	Inlet Type "C-15"	4		2.5	599.57	599.50		1.5	A							Inlet To Be 2.1' Deep Connect To Existing 12" Pipe Remove Existing Inlet
14	23+72		X		12	L	Inlet Type "C-15"	96		2.5	598.53	598.15		36.7	A							Connect To Str. No. 27
15	23+75	X			12	L	Inlet Type "M-10"	66		3	598.67	597.80		29.4	A							Connect To Str. No. 29
16	24+80	X			24	L	Manhole Type "C-4"	348		5	597.55	596.82		370.2	A							Connect To Str. No. 27, 30, 35 Remove Existing Manhole And Pipe
17	Not Used																					
18	29+15	X			12	L	Inlet Type "B-15"	10		2.5	597.78	597.70		3.8	A							Connect To Str. No. 21
19	29+21	X					Existing Catch Basin															Castings Furnished And Adjusted To Grade, Type 4 Req'd
20	29+21		X				Existing Inlet															Castings Furnished And Adjusted To Grade, Type 13 Req'd
21	29+25	X					Existing Manhole															1 Lft. Reconstructed Manhole Casting Adjusted To Grade
22	29+62	X					Existing Inlet															No Change Req'd
23	29+64		X				Existing Inlet															No Change Req'd
24	29+66	X					Existing Inlet															No Change Req'd
25	29+72	X					Existing Manhole															No Change Req'd
26	4+95		X		12	L	Inlet Type "A-8"	6		3.5	598.48	598.15		3.1	A							Connect To Str. No. 27
27	5+02		X		15	L	Inlet Type "C-15"	86		3	598.15	597.75		49.9	A							Connect To Str. No. 14 And 26
28	6+22	X			12	L	Inlet Type "R-13"	10		3	598.92	598.50		4.5	A							Connect To Str. No. 29
29	6+22	X			12	L	Inlet Type "C-15"	42		3.5	597.80	597.60		21.6	A							Connect To Str. No. 15, 28, And 30
30	6+22		X		24	L	Inlet Type "C-15"	36		3	597.60	597.55		16.1	A							Connect To Str. No. 16, 29, And 31
31	6+95	X			12	L	Manhole Type "C-4"	84		3.5	598.19	597.60		43.1	A							Connect To Str. No. 30, 32, And 33
32	7+00	X			12	L	Inlet Type "B-15"	12		2.5	598.73	598.44		4.6	A							Connect To Str. No. 31
33	8+43	X			12	L	Inlet Type "M-10"	148		2.5	600.94	598.44		56.6	A							Connect To Str. No. 31 And Existing 12" Pipe Remove Existing Inlet, Downstream Pipe And 4' Of Upstream Pipe
					12	L		4		1	601.82	601.79		0.8	A							
34	28+28" B"	X			12	L	Existing Inlet	12		4	* * 597.82			7.0	A							Connect To Str. No. 35
35	28+28" B"	X			24	L	Manhole Type "C-4"	96		5	596.82	596.60		102.1	A							Connect To Str. No. 18, 21, and 34

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE	GROUP	DESCRIPTION SEE ST'D. SHEET "MP" FOR ACCEPTABLE TYPE OF PIPE WITH-IN EACH GROUP	LENGTH	SKEW	COVER	FLOW LINE		CONCRETE CLASS "A"	"B" BORROW FOR STR. BACKFILL	BACKFILL METHOD	GAGES OR THICKNESS		VELOCITY	RIPRAP	PIPE END SECTION	REINF. STEEL	REMARKS
											UP STREAM	DOWN STREAM				STEEL	ALUM.					
					INCHES			FT.		FT.	ELEV.	ELEV.	CU.YDS.	CU.YDS.		IN.	IN.	TON	EA.	LBS.		
501	LINE "A" 3+63	X					Existing Son. Manhole															Adjust Casting To Grade
502	3+86	X					Existing Son. Manhole															Adjust Casting To Grade
503	5+81	X					Existing Son. Manhole															1 Lft. Reconstructed Manhole Casting Adjusted To Grade

### LEGEND FOR ABBREVIATION

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