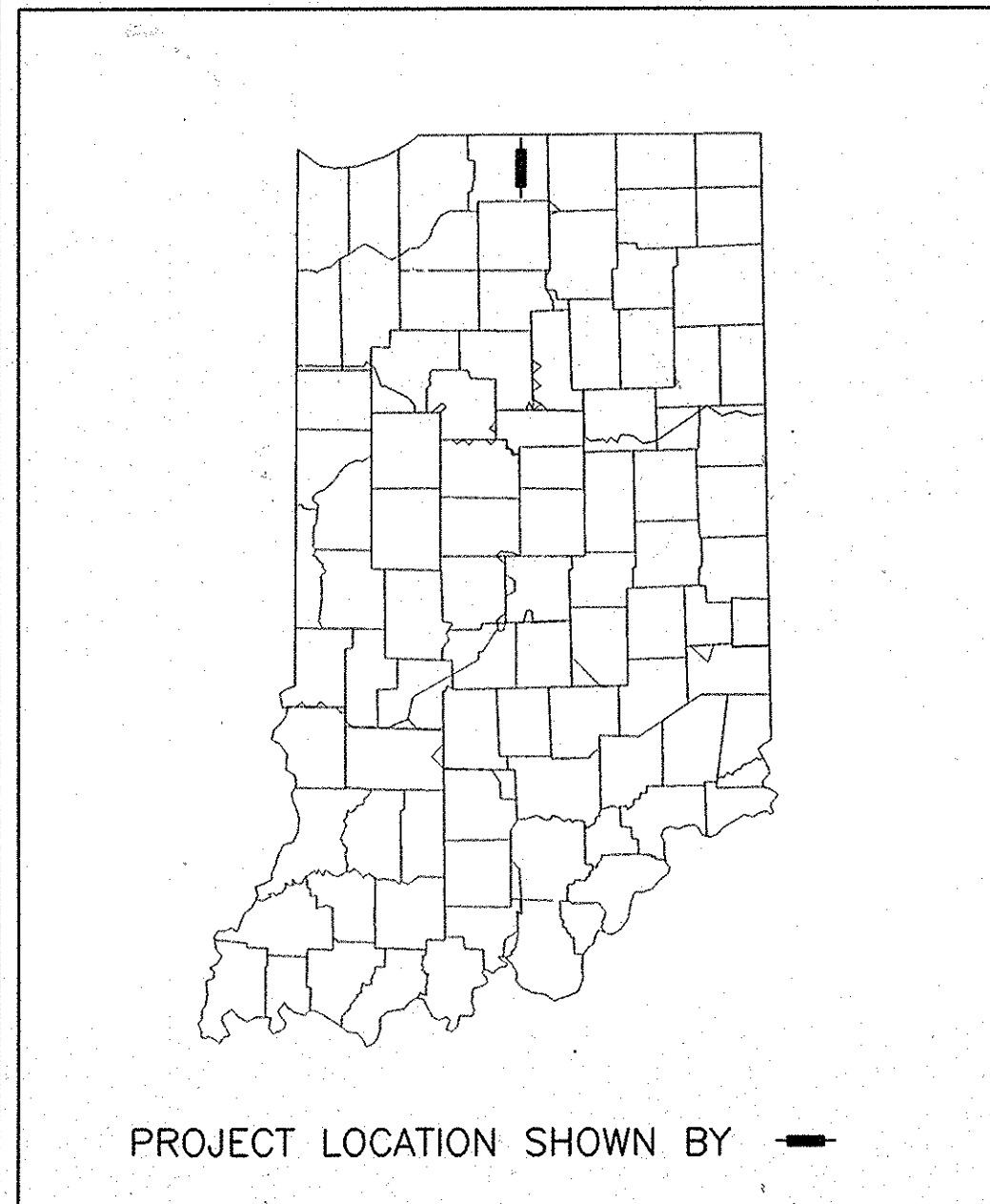


PROJECT	DESIGNATION
STP-5171(017)	0300259
CONTRACT	
R-28625	



INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS S.R. 331

PROJECT NO. STP-5171(017)

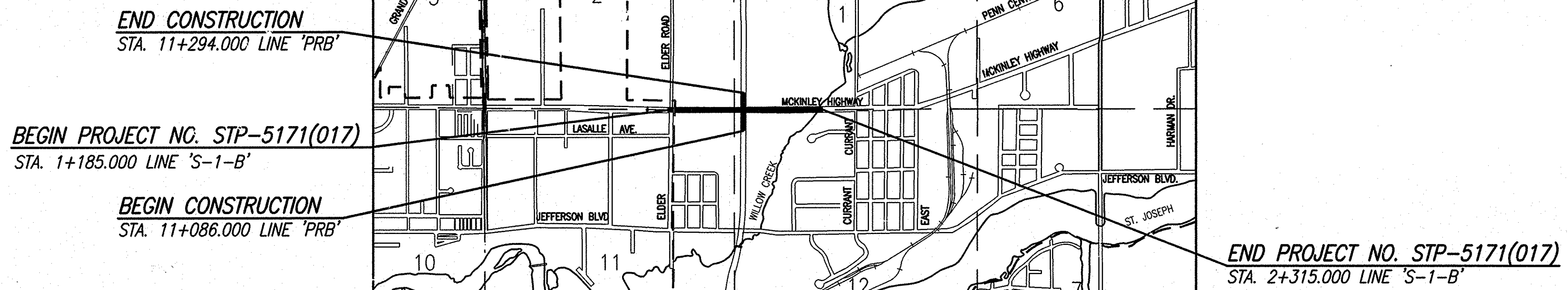
(X)P.E.
()R/W
()CONST.

NEW CONSTRUCTION ON MCKINLEY HIGHWAY FROM 530 METERS WEST OF THE INTERSECTION WITH S.R. 331 TO 600 METERS EAST OF THE INTERSECTION WITH S.R. 331,
PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

GROSS LENGTH 1.130 km
NET LENGTH 1.130 km

SCALES:

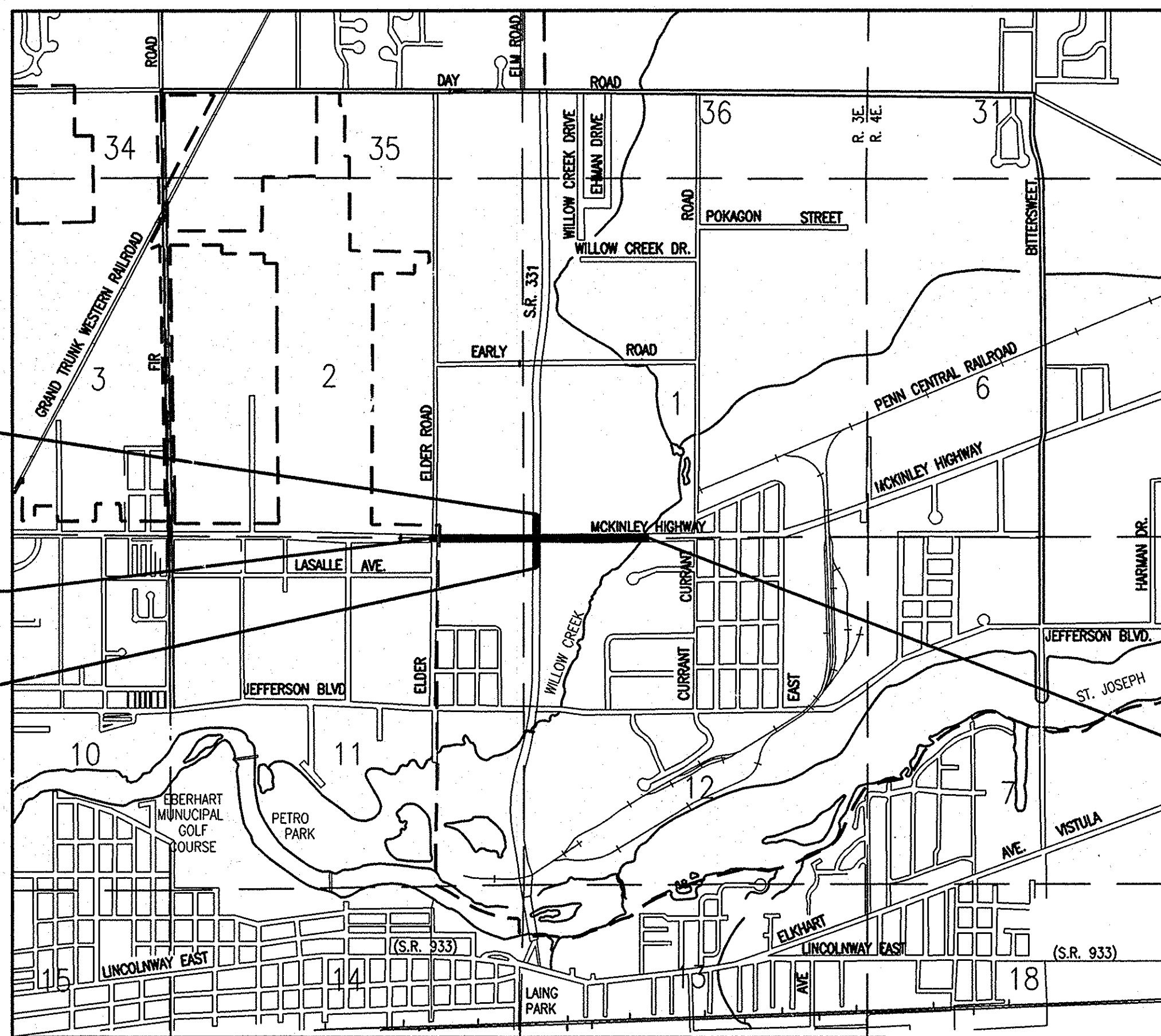
PLAN LONG: 1:200 PROFILE HORIZONTAL: 1:200 MAXIMUM GRADE = 1.240%
TRANS: 1:200 VERTICAL: 1:50



SCALES:

PLAN		Scale: 1:200
PROFILE HORIZ.		Scale: 1:200
PROFILE VERT.		Scale: 1:50
GEOMETRICS		Scale: 1:1000

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



PENN TOWNSHIP
ST. JOSEPH COUNTY

SCALE: 1:20 000

Date: Feb. 24, 2006, 2:05pm User: DLZ File: R:\proj\01061\22161\017\15-Use Sht\McKinley Hwy Sht - Roadway\22161017.dwg Model Tab: sctm-24u25

TRAFFIC DATA		S.R. 331	
A.A.D.T. (2003 PROJECTED)	27,012	V.P.D.	
A.A.D.T. (2025 PROJECTED)	43,600	V.P.D.	
D.H.V. (2025 PROJECTED)	4,360	V.P.H.	
DIRECTIONAL DISTRIBUTION	50% NB 50% SB		
TRUCKS	5% D.H.V.		
	10% A.A.D.T.		
DESIGN DATA			
DESIGN SPEED	80 km/h		
PROJECT DESIGN CRITERIA	NEW CONSTRUCTION (NON-FREEWAY)		
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL (EXPRESSWAY)		
RURAL/URBAN	URBAN (SUBURBAN)		
TERRAIN	LEVEL		
ACCESS CONTROL	FULL		

TRAFFIC DATA		McKINLEY HIGHWAY	
A.A.D.T. (2003 PROJECTED)	19,826	V.P.D.	
A.A.D.T. (2025 PROJECTED)	32,000	V.P.D.	
D.H.V. (2025 PROJECTED)	2,560	V.P.H.	
DIRECTIONAL DISTRIBUTION	50% EB/ 50% WB		
TRUCKS	4% D.H.V.		
	5% A.A.D.T.		
DESIGN DATA			
DESIGN SPEED	80 km/h		
PROJECT DESIGN CRITERIA	RECONSTRUCTION (NON-FREEWAY)		
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL		
RURAL/URBAN	URBAN (SUBURBAN)		
TERRAIN	LEVEL		
ACCESS CONTROL	NONE		

1 of 6

R-28625



FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPT. OF TRANSPORTATION

APPROVED: _____
DATE _____

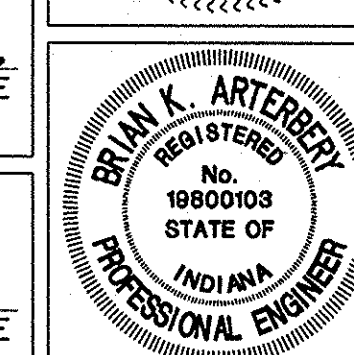
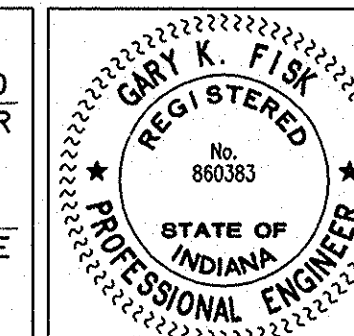
DIVISION ADMINISTRATOR

PLANS PREPARED BY: DLZ INDIANA, LLC
2211 E. JEFFERSON BLVD.
SOUTH BEND, INDIANA 46615 (574) 236 - 4400
PHONE NUMBER

CERTIFIED BY: *Rayk J. Fisk* 02-24-2006
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 860383 DATE

CERTIFIED BY: *B. K. Atch* 2/27/06
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 19800103 DATE

APPROVED FOR LETTING: *James B. Gatz* 3/20/06
CHIEF, DIVISION OF DESIGN DATE



INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2006
TO BE USED WITH THESE PLANS

ROAD FILE	
DESIGNATION	0300259
SHEETS	1 of 119
CONTRACT	R-28625
PROJECT	STP-5171(017)

UTILITIES

UTILITY	OWNER	ADDRESS	PHONE NO.
ELECTRIC DISTRIBUTION	AMERICAN ELECTRIC POWER	100 E. WAYNE STREET SOUTH BEND, IN 46601	(574) 236-1661
ELECTRIC TRANSMISSION	AMERICAN ELECTRIC POWER	P.O. BOX 60 FLOOR 16 FORT WAYNE, IN 46801-0060	(260) 425-2291
HYDRO GENERATION GROUP	AMERICAN ELECTRIC POWER	13840 E. JEFFERSON BLVD. MISHAWAKA, IN 46545	(574) 236-1682
WATER	MISHAWAKA WATER DEPT.	P.O. BOX 363 MISHAWAKA, IN 46546	(574) 258-1652
TELEPHONE	AMERITECH	307 S. MAIN STREET SOUTH BEND, IN 46601	(574) 237-8380
GAS	NIPSCO	1039 E. PENNSYLVANIA AVE. SOUTH BEND, IN 46601	(574) 284-2211
CABLE TV	AT&T CABLE SERVICES	815 W. EDISON RD, MISHAWAKA, IN 46545	(574) 252-2546
SANITARY SEWER	CITY OF MISHAWAKA	600 E. THIRD STREET MISHAWAKA, IN 46544	(574) 258-1619

REVISIONS

SHEET NO.	DATE	REVISED
2, 3, 72, 78, 80, 81, 83	10-20-2006	Remove Ditch And Culverts
DELETE SHEET NO.: 33, 34, 35, 36, 37, 64, 84, 85, 86, 87, 88, 89, 90, 91, 92	10-20-2006	Remove Ditch And Culverts
ADD SHEET NO.: 33-A, 34-A, 35-A, 36-A, 37-A, 64-A, 84-A, 85-A, 86-A, 87-A, 88-A, 89-A, 90-A, 91-A, 92-A	10-20-2006	Remove Ditch And Culverts
DELETE SHEET NO. 2	09-07-2007	Wetland Mitigation Changes
REPLACE WITH SHEET NO. 2A	09-07-2007	Wetland Mitigation Changes
ADD SHEET NO.: 63-1 AND 63-2	09-07-2007	Wetland Mitigation Changes

GENERAL NOTES

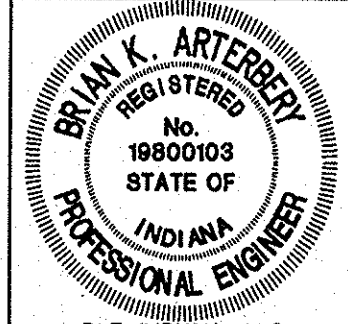
- ** All Earth Shoulders, Median Areas, and Cut/Fill slopes shall be plain or mulched seeded except where sodding is specified.
- The final Cross-Sections of the "Grading Contract" shall be the original cross-sections of the "Paving Contract" except that partial or complete cross-sections shall be taken if necessary to determine the actual quantities of Excavation.
- ** Paper Relocation is to be cross-sectioned by the Project Engineer before construction.
- Existing asphalt pavement located outside the construction limits between Sta _____ and Sta _____ shall be removed as directed.
- ** 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.
- Curves shall be Superelevated according to the Standards for Superelevation (Except Special "Super-Transitions" shall be detailed on Sheet No. _____).
- A Keyway Joint is to be constructed on the 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 of Peat "Excavation" as shown on the plans has been estimated on the basis of theoretical cross-sections by using treatment of existing fills, treatment by removal, or treatment by displacement, where each treatment applies.

** Represents General Notes Required

INDEX

SHEET NO.	DESIGNATION	F.H.W.A APPROVAL	DATE ADOPTED "A" OR LATEST REVISION "R"
1	TITLE SHEET		
2	INDEX SHEET		
3-5	TYPICAL SECTIONS		
6-8	PLAT NO. 1		
9-31	MAINTENANCE OF TRAFFIC		
32-57	PLAN AND PROFILE SHEETS		
59-59	CONSTRUCTION DETAILS		
60	SPOT ELEVATIONS		
61-62	GRADING AND DRAINAGE DETAIL		
63-66	EROSION CONTROL PLANS		
67-70	PAVEMENT MARKINGS		
71	MISCELLANEOUS TABLES		
72	EROSION CONTROL TABLE		
73-74	APPROACH TABLE		
75-77	UNDERDRAIN TABLE		
78-80	STRUCTURE DATA TABLE		
81-83	PIPE MATERIAL SHEET		
84-119	CROSS SECTIONS		
63-1	WETLAND MITIGATION GRADING PLAN		
63-2	WETLAND MITIGATION PLANTING PLAN		

Date: Sep 07, 2007, 9:32am User ID: thill
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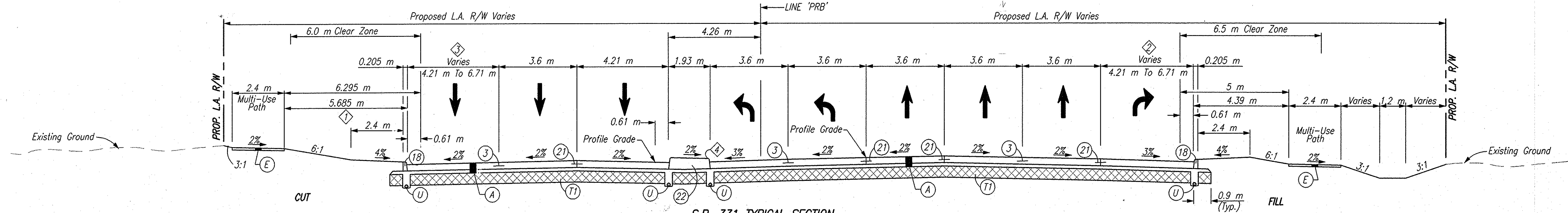


RECOMMENDED FOR APPROVAL	<i>BK Arterberry</i>	DATE	9/7/07
DESIGNED:	ERW	DRAWN:	TH
CHECKED:	BKA	CHECKED:	ERW

INDIANA
DEPARTMENT OF TRANSPORTATION

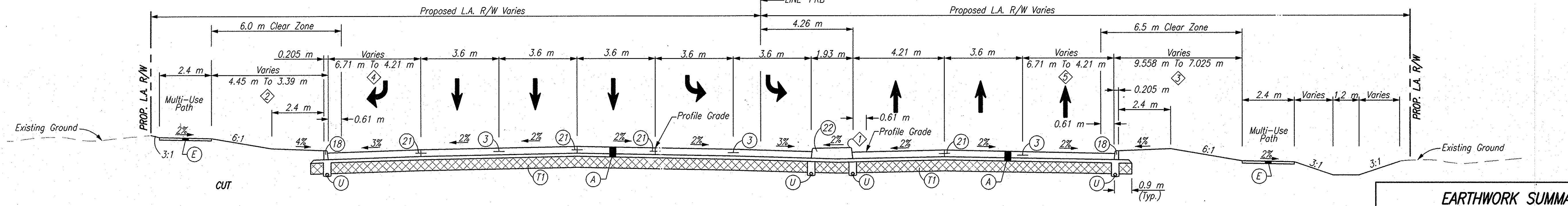
INDEX SHEET

HORIZONTAL SCALE	ROAD FILE
NA	-
VERTICAL SCALE	DESIGNATION
NA	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	2-A of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



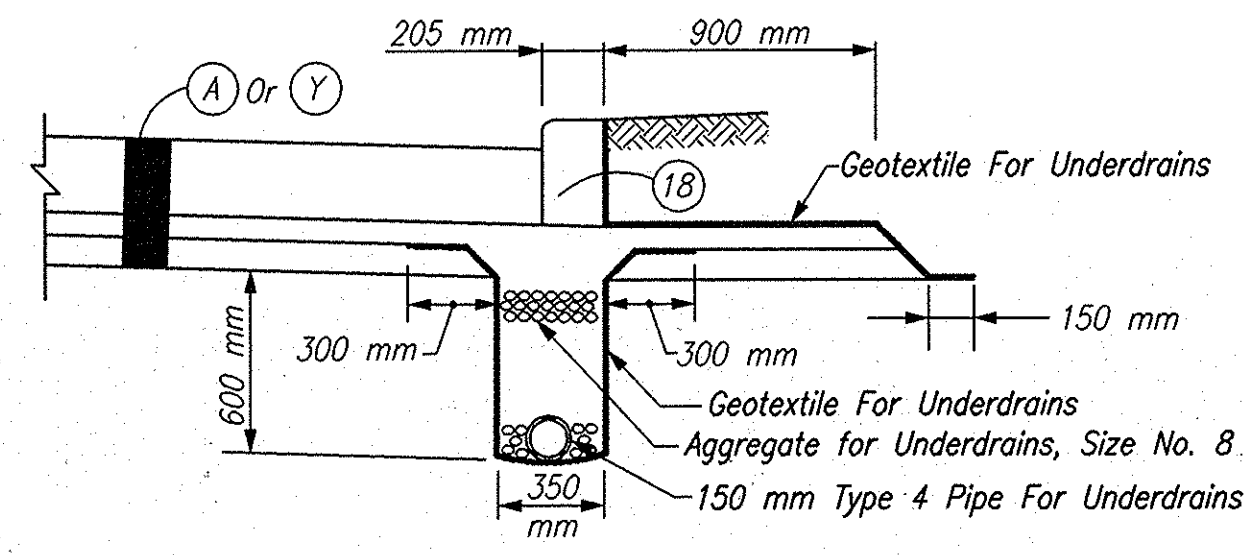
S.R. 331 TYPICAL SECTION
 Sta. 11+086.000 Line 'PRB' To Sta. 11+204.128 Line 'PRB'
 SCALE: 1:100

- ① Varies 5.685 m @ Sta. 11+102.860 Line 'PRB' To 9.5 m @ Sta. 11+163.000 Line 'PRB'
- ② Varies 4.21 m @ Sta. 11+131.500 Line 'PRB' To 6.71 m @ Sta. 11+169.000 Line 'PRB'
- ③ Varies 4.21 m @ Sta. 11+125.500 Line 'PRB' To 6.71 m @ Sta. 11+163.000 Line 'PRB'
- ④ Concrete Center Curb Ends, 11+172.855

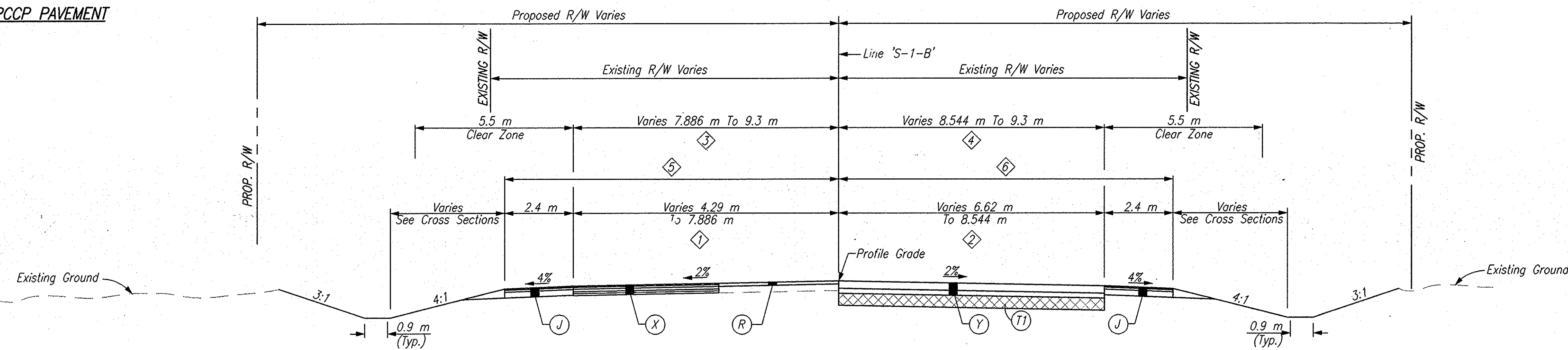


S.R. 331 TYPICAL SECTION
 Sta. 11+204.128 Line 'PRB' To Sta. 11+294.000 Line 'PRB'
 SCALE: 1:100

- ① Concrete Center Curb Begins, 11+235.396
- ② Varies 4.45 m @ Sta. 11+239.500 Line 'PRB' To 3.39 m @ Sta. 11+294.000 Line 'PRB'
- ③ Varies 9.55 m @ Sta. 11+245.500 Line 'PRB' To 7.025 m @ Sta. 11+294.000 Line 'PRB'
- ④ Varies 6.71 m @ Sta. 11+239.500 Line 'PRB' To 4.21 m @ Sta. 11+277.000 Line 'PRB'
- ⑤ Varies 6.71 m @ Sta. 11+245.500 Line 'PRB' To 4.21 m @ Sta. 11+283.000 Line 'PRB'



UNDERDRAIN DETAIL, PCCP PAVEMENT
 Scale: 1:25



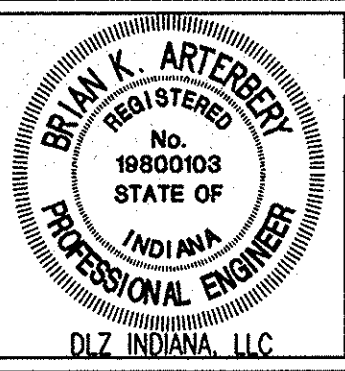
TYPICAL SECTION - MCKINLEY HIGHWAY
 Sta. 0+935.500 Line 'S-1-B' To Sta. 1+185.000 Line 'S-1-B'
 Scale: 1:100

- ① Varies 4.29 m @ Sta. 0+935.500 Line 'S-1-B' Lt., To 7.886 m @ Sta. 1+115.000 Line 'S-1-B' Lt.
- ② Varies 6.62 m @ Sta. 0+935.500 Line 'S-1-B' Rt., To 8.544 m @ Sta. 1+115.000 Line 'S-1-B' Rt.
- ③ Varies 7.886 m @ Sta. 1+115.000 Line 'S-1-B' Lt., To 9.3 m @ Sta. 1+185.000 Line 'S-1-B' Lt.
- ④ Varies 8.544 m @ Sta. 1+115.000 Line 'S-1-B' Rt., To 9.3 m @ Sta. 1+185.000 Line 'S-1-B' Rt.
- ⑤ This Section Applies Sta. 0+935.500 Line 'S-1-B' To Sta. 1+115.000 Line 'S-1-B' Right Side Is Reversed
- ⑥ This Section Applies Sta. 1+115.000 Line 'S-1-B' To Sta. 1+185.000 Line 'S-1-B' Left Side Reversed

EARTHWORK SUMMARY	
FILL	m ³
VOLUME OF FILL	12,048
15% SWELL	1,807
TOTAL FILL VOLUME	13,855
EXCAVATION	
VOLUME OF CUT	13,130
LESS PAVEMENT REMOVAL	2,750
TOTAL COMMON EXCAVATION	10,380
BORROW	3,475

- LEGEND**
- ③ Longitudinal Joint
 - ⑱ Curb, Integral, B, Concrete
 - ⑳ Longitudinal Construction Joint
 - ㉑ Concrete Center Curb, Type D
 - Ⓐ 300 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Compacted Aggregate, No. 53, Base)
 - Ⓝ HMA For Shoulders, Type B, To Be: (90 kg/m² HMA, Type B, Surface, On 180 kg/m² HMA, Type B, Base), On 200 mm Compacted Aggregate, No. 53
 - Ⓡ HMA For Wedge and Level, Type B, To Be: (90 kg/m² HMA, Type B, Surface, On Variable HMA, Type B, Intermediate) (Estimate 150 kg/m²)
 - ⓧ HMA For Widening, Type B To Be: 90 kg/m² HMA Surface, Type B, 9.5 mm, On 150 kg/m² HMA Intermediate, Type B, 12.5 mm or 19.0 mm, On 225 kg/m² HMA Base, Type B, 25.0 mm, On 140 kg/m² HMA Intermediate, Type B, C19.0 mm, On 180 kg/m² HMA Base, Type B, 25.0 mm
 - ⓔ Sidewalk, Concrete, 100 mm
 - Ⓣ Subgrade Treatment, Type IX
 - Ⓤ Underdrain
 - Ⓨ 275 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)

Date: Mar. 27, 2006, 2:41 pm, User: B. Hill
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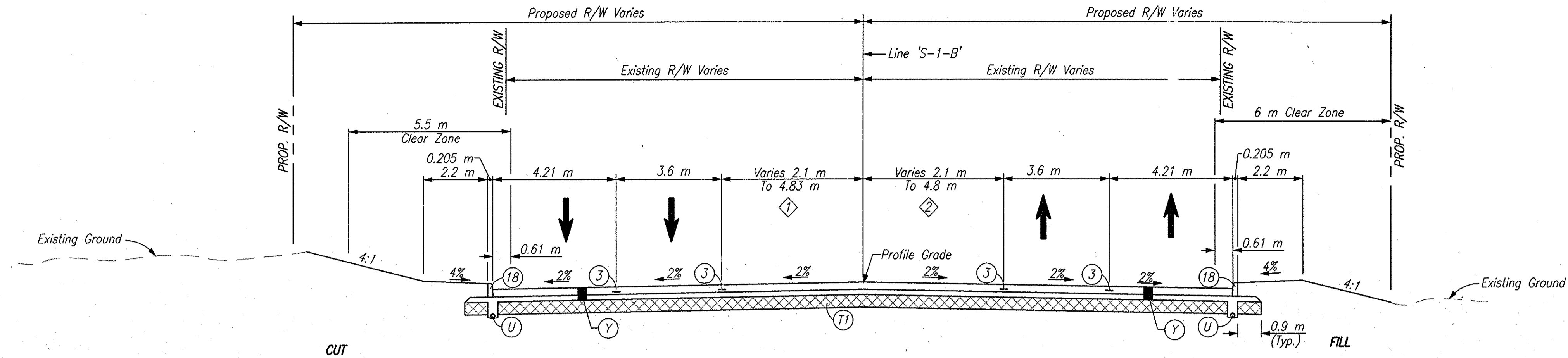
RECOMMENDED FOR APPROVAL: *B. Kathy* 3/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS LINE 'PRB'

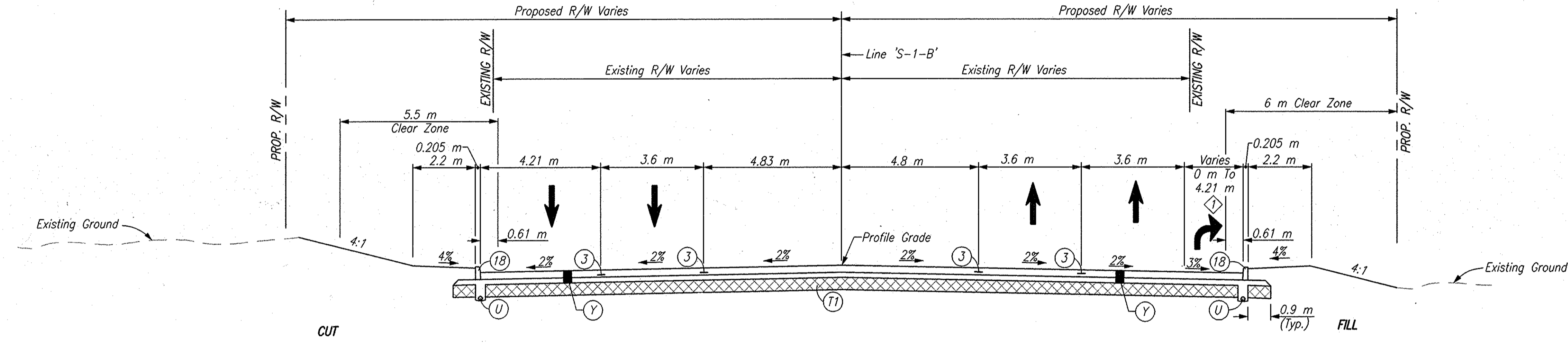
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AS NOTED	DESIGNATION
VERTICAL SCALE	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



TYPICAL SECTION - MCKINLEY HIGHWAY

Sta. 1+185.000 Line 'S-1-B' To Sta. 1+516.156 Line 'S-1-B'
Scale: 1:100

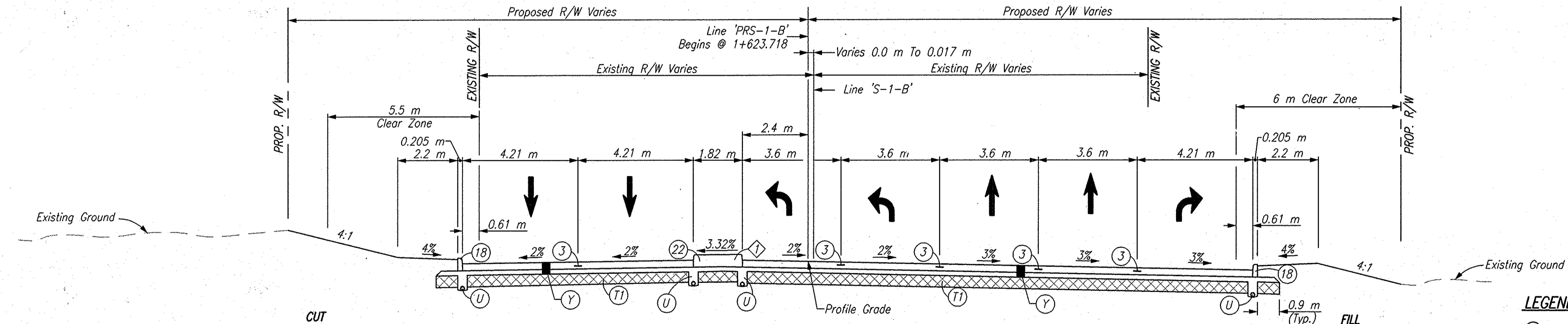
- ① Varies 2.1 m @ Sta. 1+331.120 Line 'S-1-B' Lt., To 4.83 m @ Sta. 1+456.120 Line 'S-1-B' Lt.
- ② Varies 2.1 m @ Sta. 1+331.120 Line 'S-1-B' Rt., To 4.8 m @ Sta. 1+456.120 Line 'S-1-B' Rt.



TYPICAL SECTION - MCKINLEY HIGHWAY

Sta. 1+516.156 Line 'S-1-B' To Sta. 1+560.500 Line 'S-1-B'
Scale: 1:100

- ① Varies 0.0 m @ Sta. 1+516.156 Line 'S-1-B' To 3.6 m @ Sta. 1+546.156 Line 'S-1-B'



TYPICAL SECTION - MCKINLEY HIGHWAY

Sta. 1+560.500 Line 'S-1-B' To Sta. 1+632.735 Line 'PRS-1-B'
Scale: 1:100

- ① Concrete Center Curb Begins @ Sta. 1+560.500 Line 'S-1-B'

LEGEND

- ③ Longitudinal Joint
- ⑱ Curb, Integral, B, Concrete
- ⑲ Longitudinal Construction Joint
- ⑳ Concrete Center Curb, Type D
- ㉑ Subgrade Treatment, Type II
- ㉒ 275 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)

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RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	3/27/06
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS LINE 'S-1-B'	

HORIZONTAL SCALE	ROAD FILE
AS NOTED	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 119
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LOT 69	LOT 68	LOT 67	LOT 66	LOT 65	LOT 64	LOT 63	LOT 62	LOT 61	LOT 60	LOT 59	LOT 58	LOT 57	LOT 56	LOT 55
LOT 94	LOT 95	LOT 96	LOT 97	LOT 98	LOT 99	LOT 100	LOT 101	LOT 102	LOT 103	LOT 104	LOT 105	LOT 106	LOT 107	LOT 108

LOT 123	LOT 122	LOT 121	LOT 120	LOT 119	LOT 118	LOT 117	LOT 116	LOT 115	LOT 114	LOT 113	LOT 112	LOT 111	LOT 110	LOT 109
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LOT 148	LOT 149	LOT 150	LOT 151	LOT 152	LOT 153	LOT 154	LOT 155	LOT 156	LOT 157	LOT 158	LOT 159	LOT 160	LOT 161	LOT 162
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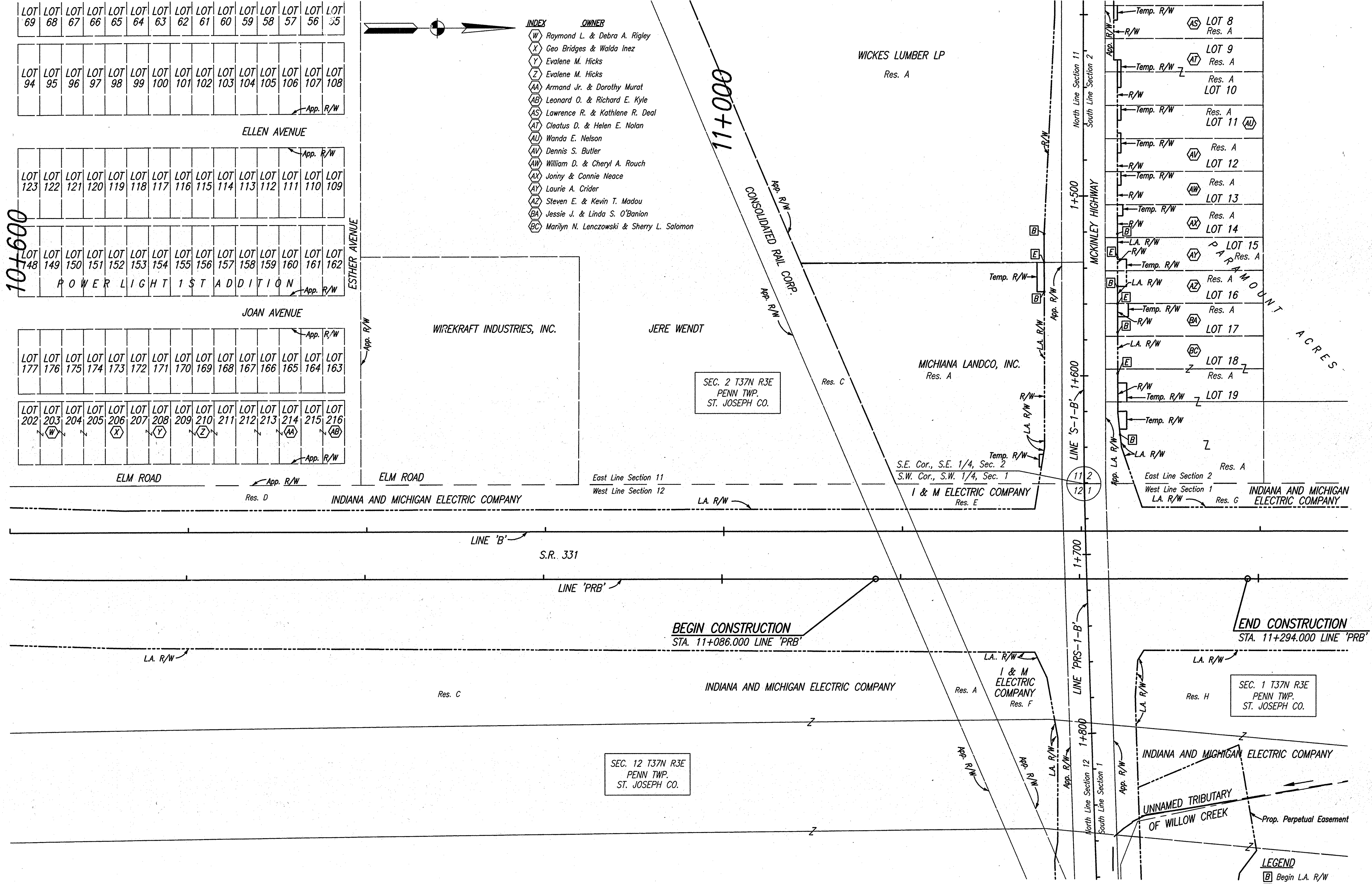
LOT 177	LOT 176	LOT 175	LOT 174	LOT 173	LOT 172	LOT 171	LOT 170	LOT 169	LOT 168	LOT 167	LOT 166	LOT 165	LOT 164	LOT 163
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LOT 202	LOT 203	LOT 204	LOT 205	LOT 206	LOT 207	LOT 208	LOT 209	LOT 210	LOT 211	LOT 212	LOT 213	LOT 214	LOT 215	LOT 216
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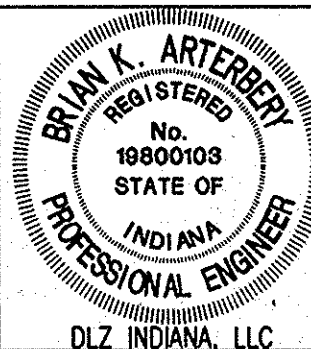
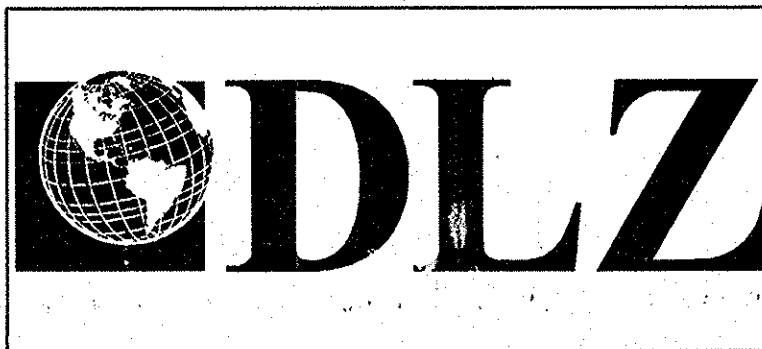
- INDEX**
- (W) Raymond L. & Debra A. Rigley
 - (X) Geo Bridges & Walda Inez
 - (Y) Evalene M. Hicks
 - (Z) Evalene M. Hicks
 - (AA) Armand Jr. & Dorothy Murat
 - (AB) Leonard O. & Richard E. Kyle
 - (AS) Lawrence R. & Kathlene R. Deal
 - (AT) Cleatus D. & Helen E. Nolan
 - (AU) Wanda E. Nelson
 - (AV) Dennis S. Butler
 - (AW) William D. & Cheryl A. Rouch
 - (AX) Jonny & Connie Neace
 - (AY) Laurie A. Crider
 - (AZ) Steven E. & Kevin T. Madou
 - (BA) Jessie J. & Linda S. O'Banion
 - (BC) Marilyn N. Lenczowski & Sherry L. Salomon

10+600

11+000



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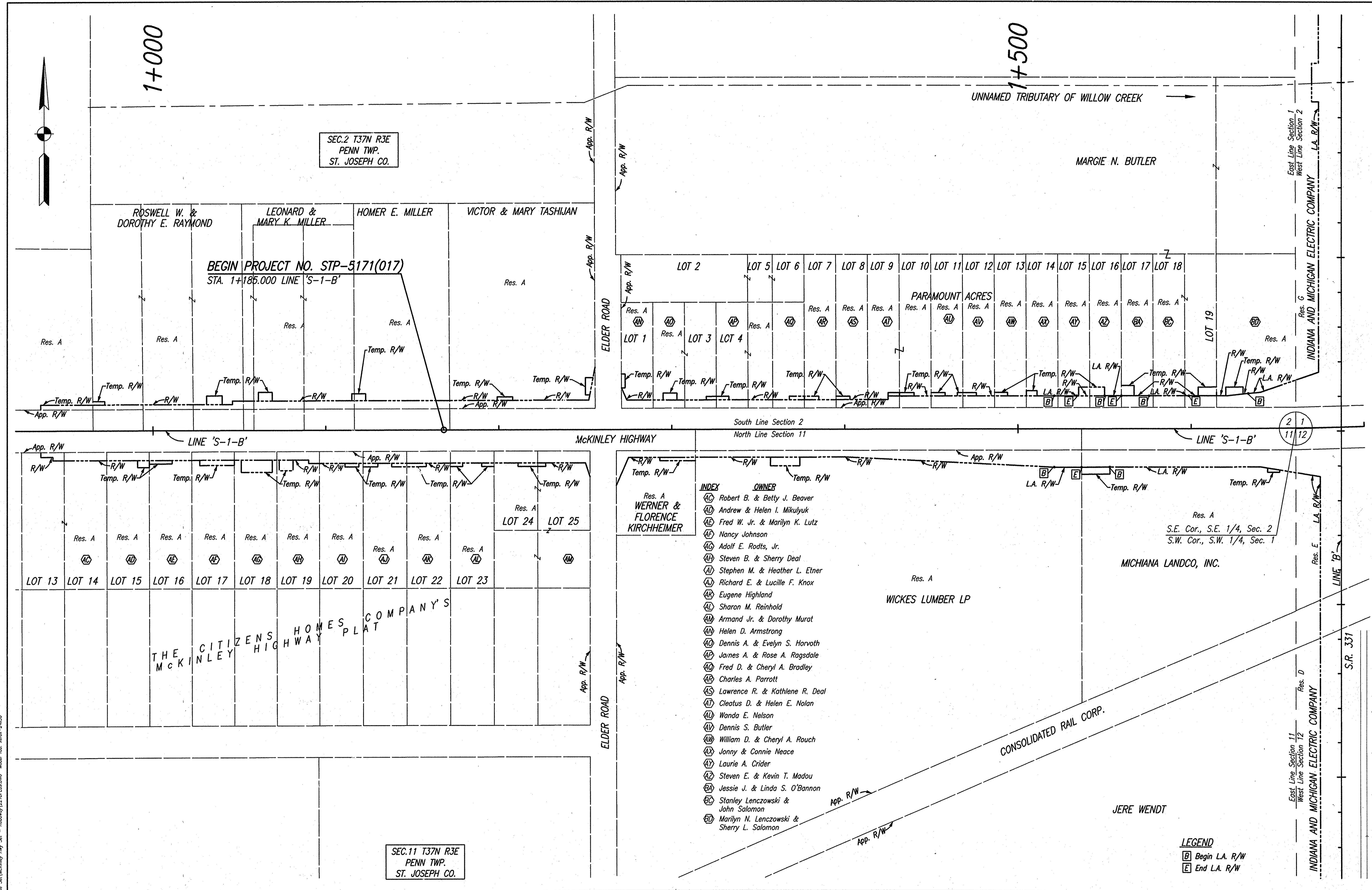
RECOMMENDED FOR APPROVAL *B. K. Stady* 2/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 PLAT 1

HORIZONTAL SCALE	ROAD FILE
1:1000	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	6 of 119
CONTACT	PROJECT
R-28625	STP-5171(017)

LEGEND
 [B] Begin L.A. R/W
 [E] End L.A. R/W



Date: Feb. 24, 2006, 10:02am User: JD, AXL
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SEC. 2 T37N R3E
PENN TWP.
ST. JOSEPH CO.

SEC. 11 T37N R3E
PENN TWP.
ST. JOSEPH CO.

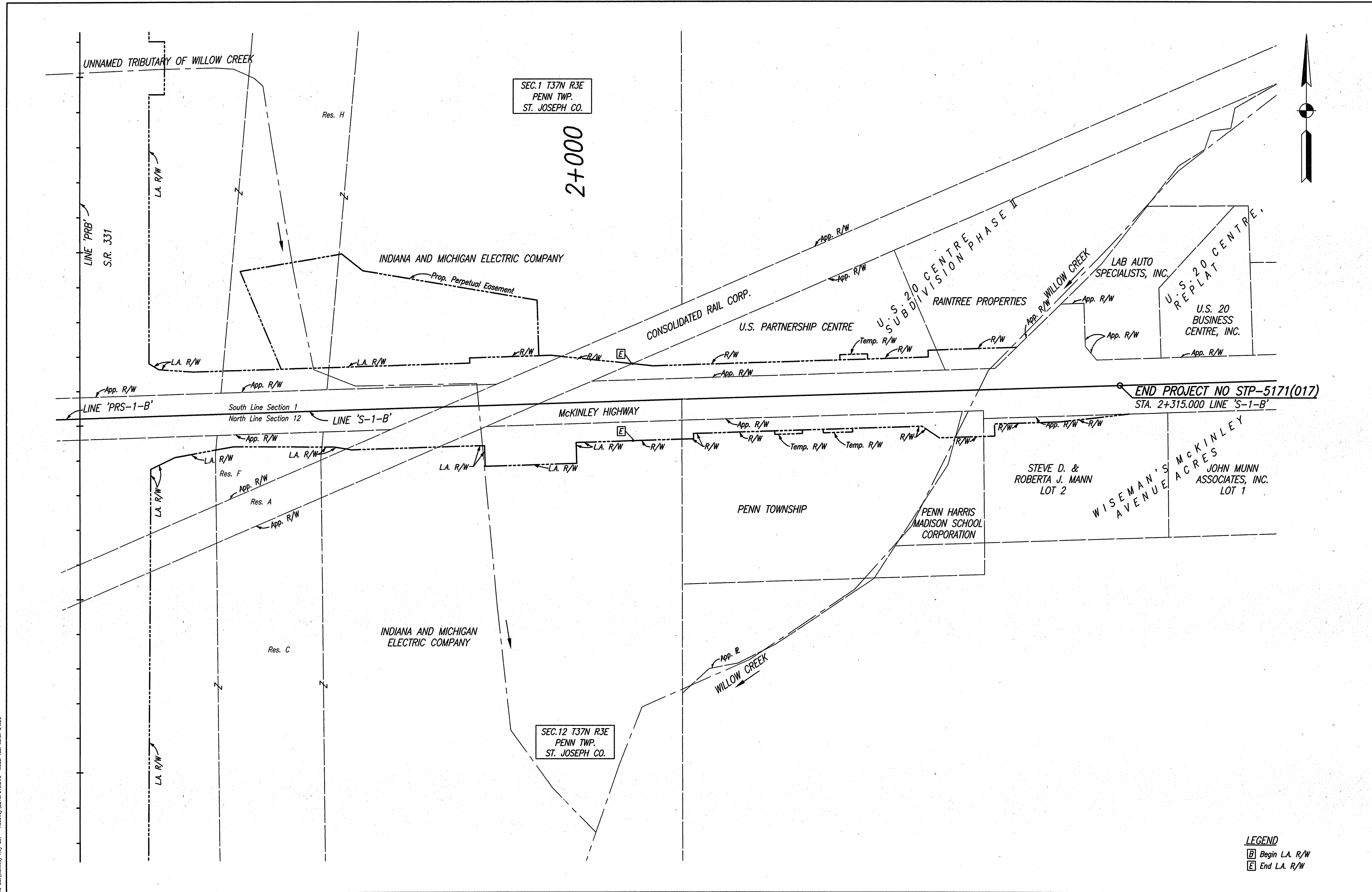
BEGIN PROJECT NO. STP-5171(017)
STA. 1+185.000 LINE 'S-1-B'

- INDEX**
- | | |
|--------|---|
| Res. A | Robert B. & Betty J. Beaver |
| AD | Andrew & Helen I. Mikulyuk |
| AE | Fred W. Jr. & Marilyn K. Lutz |
| AF | Nancy Johnson |
| AG | Adolf E. Rodts, Jr. |
| AH | Steven B. & Sherry Deal |
| AI | Stephen M. & Heather L. Etner |
| AJ | Richard E. & Lucille F. Knox |
| AK | Eugene Highland |
| AL | Sharon M. Reinhold |
| AM | Armand Jr. & Dorothy Murat |
| AN | Helen D. Armstrong |
| AO | Dennis A. & Evelyn S. Harvoth |
| AP | James A. & Rose A. Ragsdale |
| AQ | Fred D. & Cheryl A. Bradley |
| AR | Charles A. Parrott |
| AS | Lawrence R. & Kathlene R. Deal |
| AT | Cleatus D. & Helen E. Nolan |
| AU | Wanda E. Nelson |
| AV | Dennis S. Butler |
| AW | William D. & Cheryl A. Rouch |
| AX | Jonny & Connie Neace |
| AY | Laurie A. Crider |
| AZ | Steven E. & Kevin T. Madou |
| BA | Jessie J. & Linda S. O'Bannon |
| BC | Stanley Lenczowski & John Saloman |
| BD | Marilyn N. Lenczowski & Sherry L. Saloman |

LEGEND
 [B] Begin L.A. R/W
 [E] End L.A. R/W

		RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER DATE: 2/27/06	INDIANA DEPARTMENT OF TRANSPORTATION PLAT 1	HORIZONTAL SCALE	ROAD FILE	
		DESIGNED: ERW	DRAWN: TH		VERTICAL SCALE	DESIGNATION	
CHECKED: BKA	CHECKED: ERW	INDIANA DEPARTMENT OF TRANSPORTATION		SURVEY BOOK	SHEETS	CONTRACT	PROJECT
				R-28625	7 of 119	STP-5171(017)	

Date: Feb. 28, 2006, 10:03am User ID: null
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SEC.1 T37N R3E
PENN TWP.
ST. JOSEPH CO.

2+000

END PROJECT NO STP-5171(017)
STA. 2+315.000 LINE 'S-1-B'

SEC.12 T37N R3E
PENN TWP.
ST. JOSEPH CO.

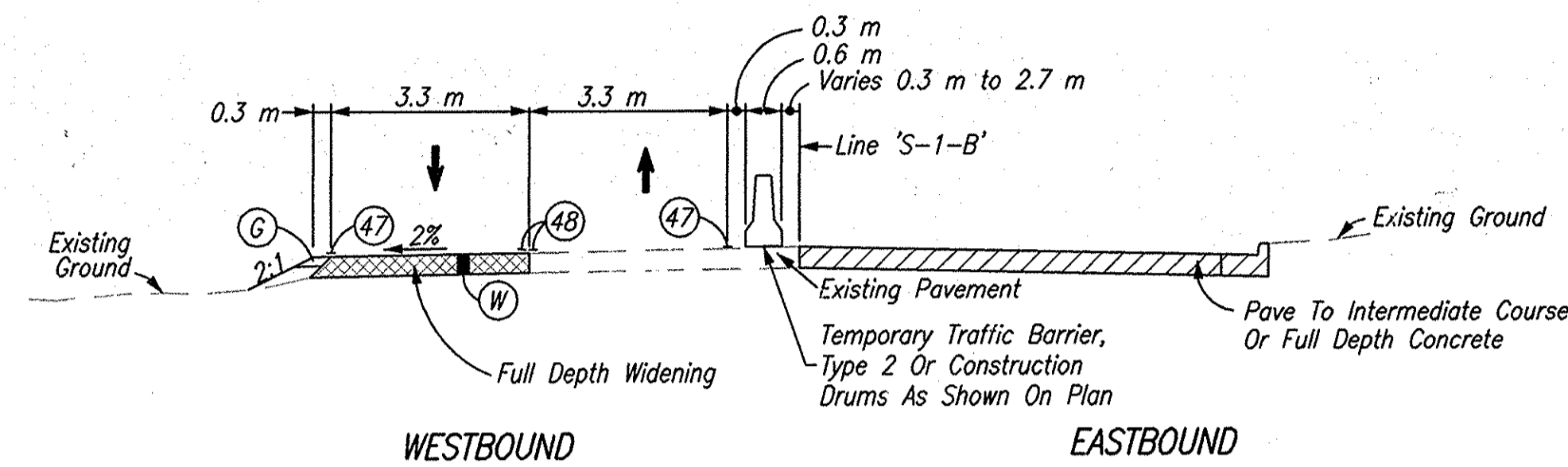
LEGEND
 [B] Begin L.A. R/W
 [E] End L.A. R/W



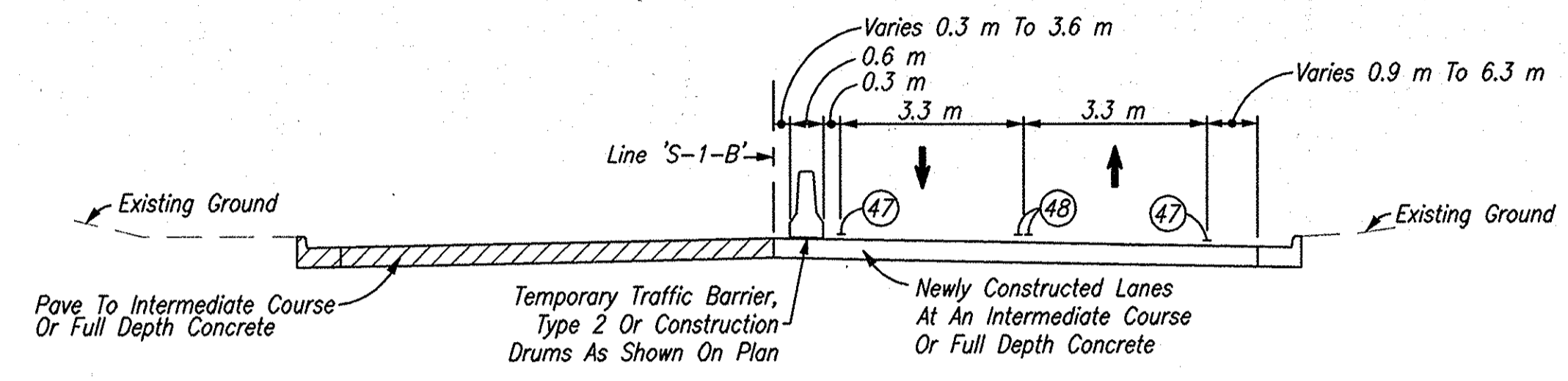
RECOMMENDED FOR APPROVAL: *B. K. Arterbery* 2/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
PLAT 1

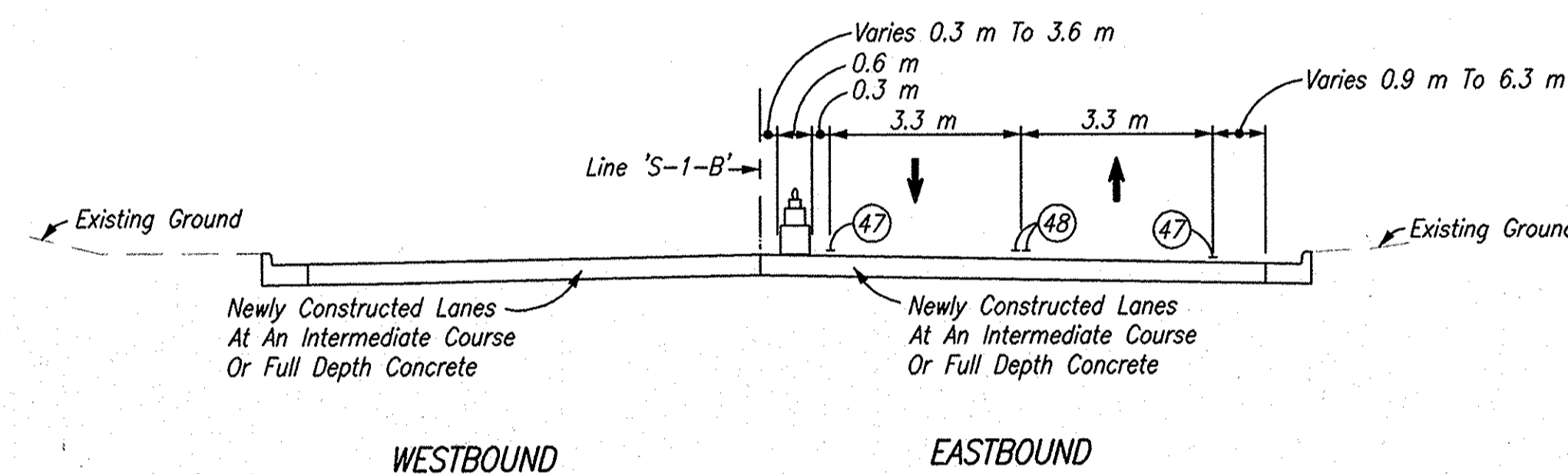
HORIZONTAL SCALE	ROAD FILE
1:1000	
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
ELECTRONIC	8 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



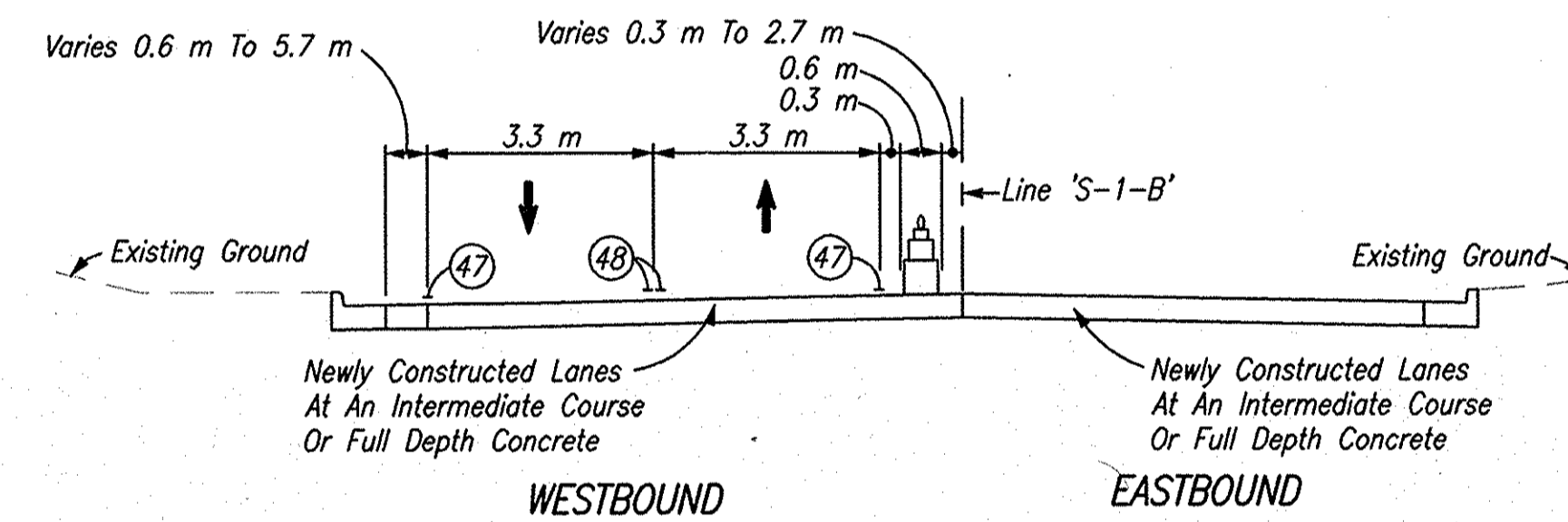
PHASE I (McKINLEY) - MAINTAIN TWO LANES OF TRAFFIC
Sta. 0+935.000 Line 'S-1-B' To Sta. 2+315.000 Line 'S-1-B'



PHASE II (McKINLEY) - MAINTAIN TWO LANES OF TRAFFIC
Sta. 0+935.000 Line 'S-1-B' To Sta. 2+315.000 Line 'S-1-B'



PHASE III (McKINLEY) - MAINTAIN TWO LANES OF TRAFFIC
Sta. 0+935.000 Line 'S-1-B' To Sta. 2+315.000 Line 'S-1-B'

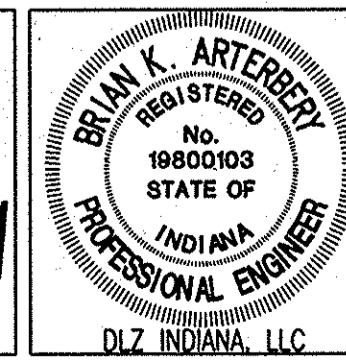


PHASE IV (McKINLEY) - MAINTAIN TWO LANES OF TRAFFIC
Sta. 0+935.000 Line 'S-1-B' To Sta. 2+315.000 Line 'S-1-B'

NOTE
Traffic Shall Be Maintained On Existing Lanes During Temporary Widening

- LEGEND**
- (C) 150 mm Compacted Aggregate, No. 73
 - (W) HMA For Temporary Pavement To Be:
90 Kg/m² HMA, Type A, Surface, On
150 Kg/m² HMA, Type A, Intermediate, On
300 Kg/m² HMA, Type A, Base, On
150 mm Compacted Aggregate, No. 53, Base
 - (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - [Hatched Area] Area Under Construction

Date: Mar 22, 2006, 3:20pm, User: B. K. All, File: H:\pvt\1161\12176\cm\ang\S-Line 504\McKinley Hwy Set - Roadway\2218MT01.dwg, Model Tab: vcror-24x36

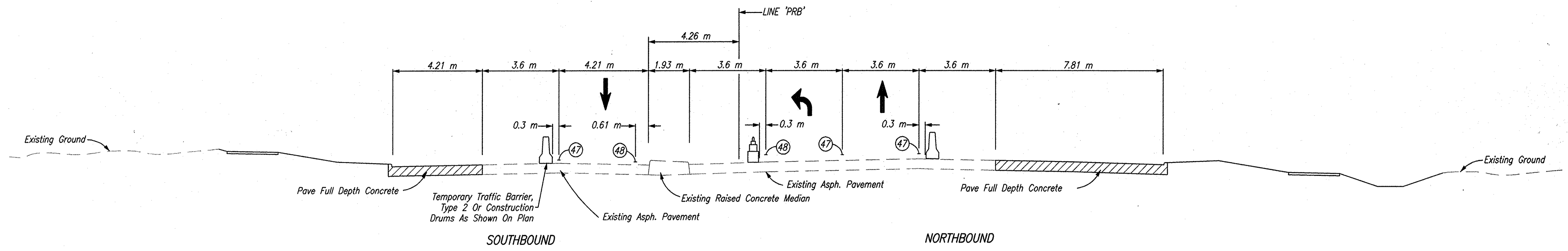


RECOMMENDED FOR APPROVAL	<i>B. K. All</i> 3/27/06	
DESIGN ENGINEER	DATE	
DESIGNED: ERW	DRAWN: TH	
CHECKED: BKA	CHECKED: ERW	

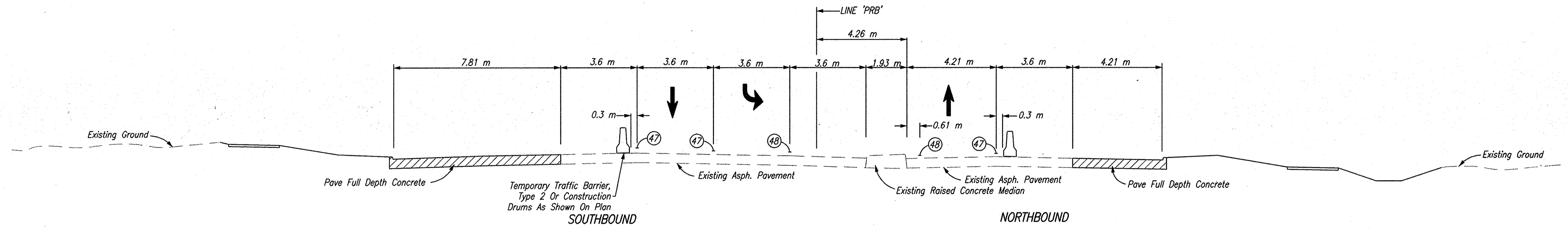
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TYPICALS

HORIZONTAL SCALE	ROAD FILE
1:100	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	9 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



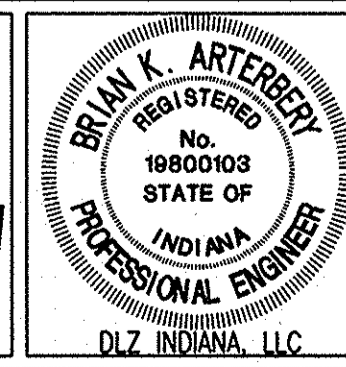
PHASE I (S.R. 331) - MAINTAIN TWO LANES OF TRAFFIC
 Sta. 11+086.000 Line 'PRB' To Sta. 11+202.294 Line 'PRB'



PHASE II (S.R. 331) - MAINTAIN TWO LANES OF TRAFFIC
 Sta. 11+202.294 Line 'PRB' To Sta. 11+294.000 Line 'PRB'

- LEGEND**
- ④⑦ Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - ④⑧ Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - ▨ Area Under Construction

Date: Mar 22, 2006, 3:02PM, User: D:\NHI, File: M:\p04\10161\2218\plan\veg\5-Line Sect\McKinley Hwy S&N - Roadway\2218MT02.dwg Model Tab: venvr-24c36

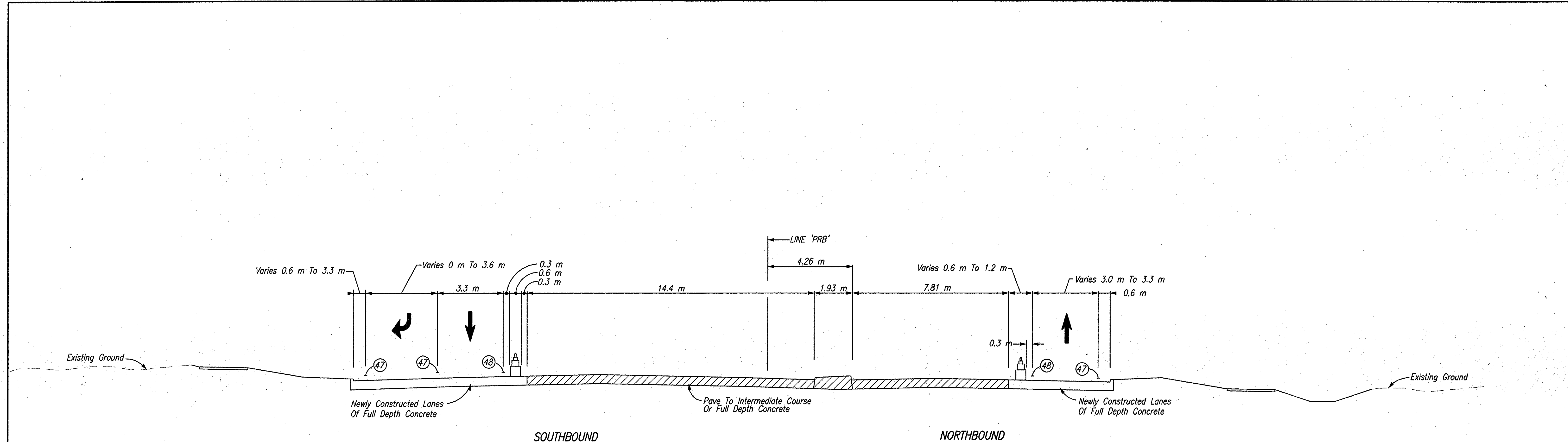


RECOMMENDED FOR APPROVAL	<i>B. K. Arterbery</i>	3/27/06
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

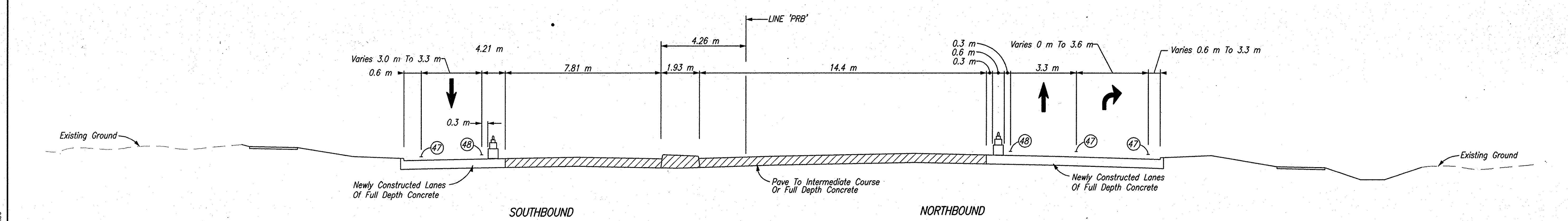
INDIANA
 DEPARTMENT OF TRANSPORTATION

**MAINTENANCE OF TRAFFIC
 TYPICALS**

HORIZONTAL SCALE	ROAD FILE
1:100	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	10 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



PHASE III (S.R. 331) - MAINTAIN TWO LANES OF TRAFFIC
 Sta. 11+202.294 Line 'PRB' To Sta. 11+294.000 Line 'PRB'



PHASE IV (S.R. 331) - MAINTAIN TWO LANES OF TRAFFIC
 Sta. 11+086.000 Line 'PRB' To Sta. 11+202.294 Line 'PRB'

LEGEND

- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- [Hatched Box] Area Under Construction

Date: Feb 28, 2006 9:55am User: dhll
 File: M:\Proj\01611\2218\civil\dwg\AS-Line Set\McKinley Hwy Set - Roadway\2218M103.dwg Model Top: xerox-24x36



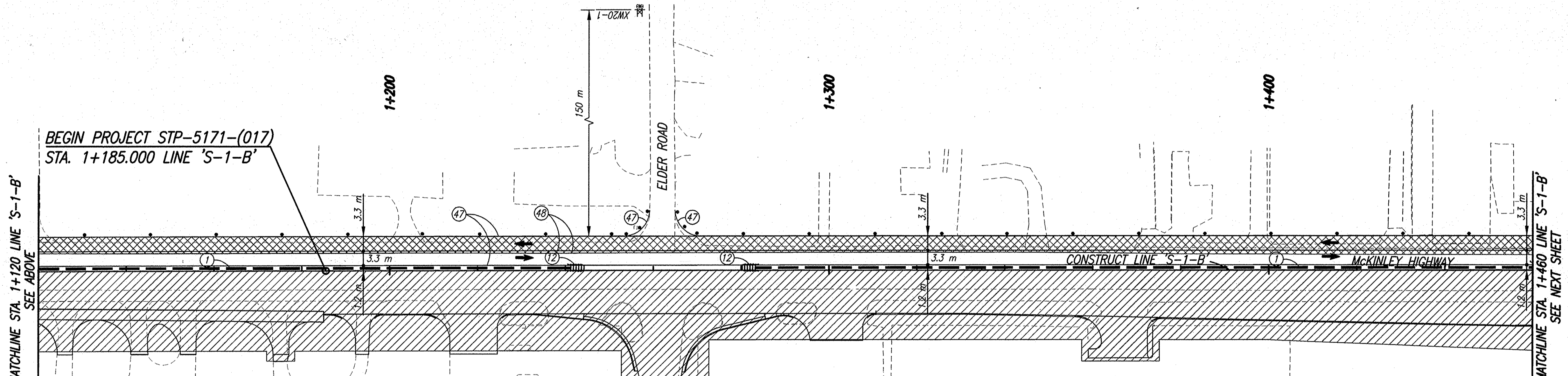
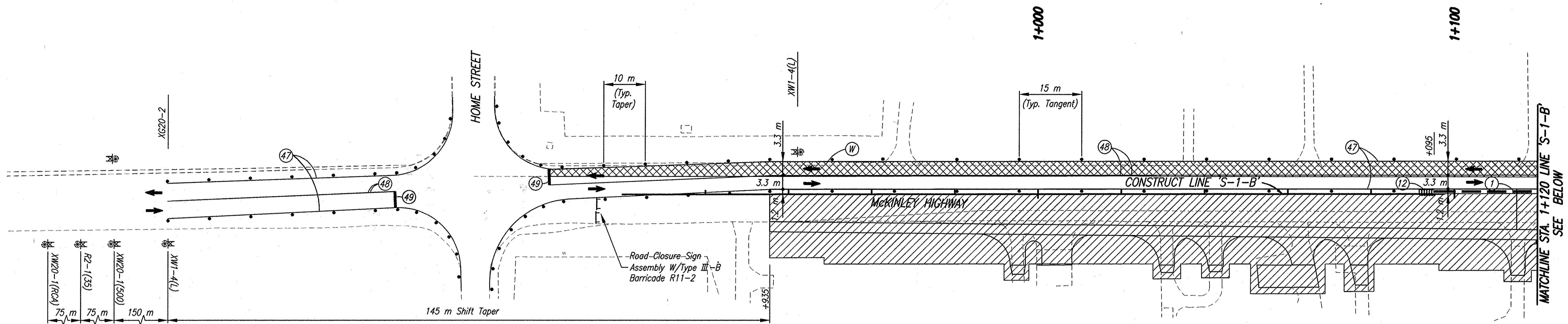
RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TYPICALS

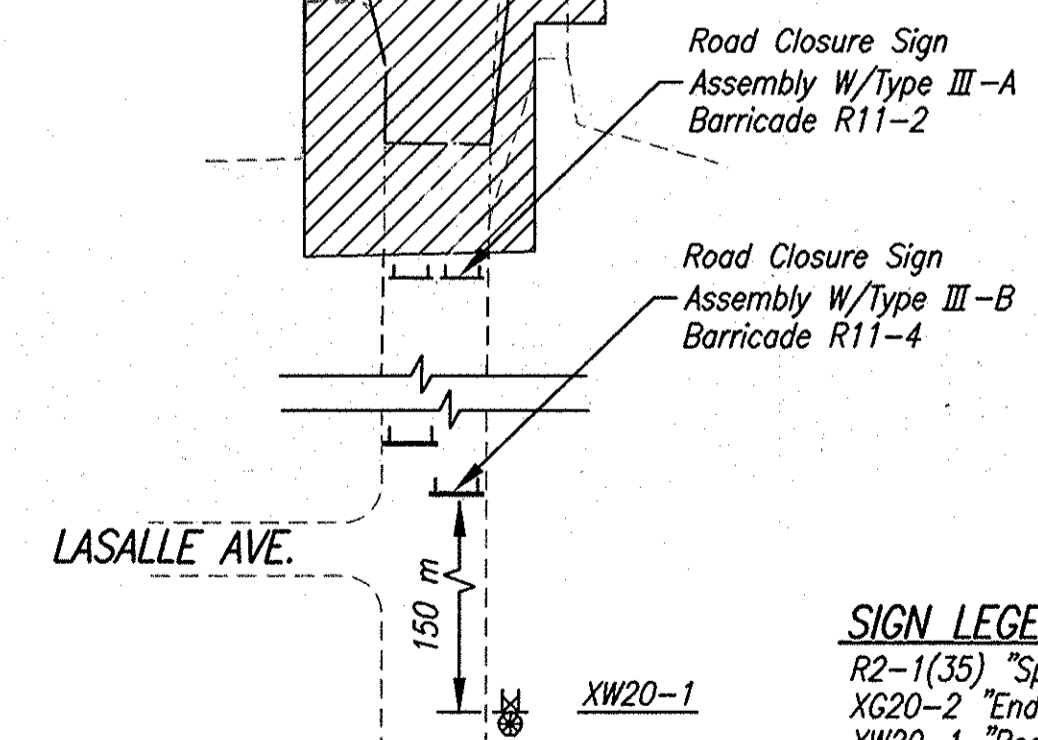
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VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	11 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



BEGIN PROJECT STP-5171-(017)
STA. 1+185.000 LINE 'S-1-B'

CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	6 EACH
Type 'B' Sign	2 EACH
Road Closure Sign Assembly	3 EACH

McKINLEY HIGHWAY CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)



SIGN LEGEND
 R2-1(35) "Speed Limit 35" Sign
 XG20-2 "End Construction" Sign
 XW20-1 "Road Construction Ahead" Sign
 XW1-4 "Lane Shift Arrow (R or L)" Symbol
 XW20-1(500) "Road Construction 500 Ft." Sign
 R11-2 "Road Closed" Sign

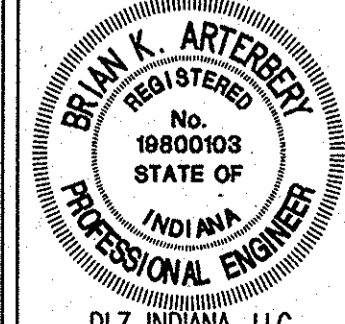
NOTES

- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
- Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
- Remove Existing Pavement Markings As Req'd.
- Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.
- Traffic Shall Be Maintained On Existing Lanes During Temporary Widening.

LEGEND

- (1) Temporary Traffic Barrier, Type 2
- (12) Energy Absorbing Terminal, CZ, TL-3
- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
- X X HMA For Temporary Pavement To Be:
 90 Kg/m² HMA, Type A, Surface, On
 150 Kg/m² HMA, Type A, Intermediate, On
 300 Kg/m² HMA, Type A, Base, On
 150 mm Compacted Aggregate, No. 53, Base
- [Hatched Box] Area Under Construction
- Standard Drum
- ⊗ Construction Sign
- ⊕ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic
- ⊥ Barricade, Type III-(A or B)

Date: Mar 27, 2005, 6:31am User ID: bartberbery
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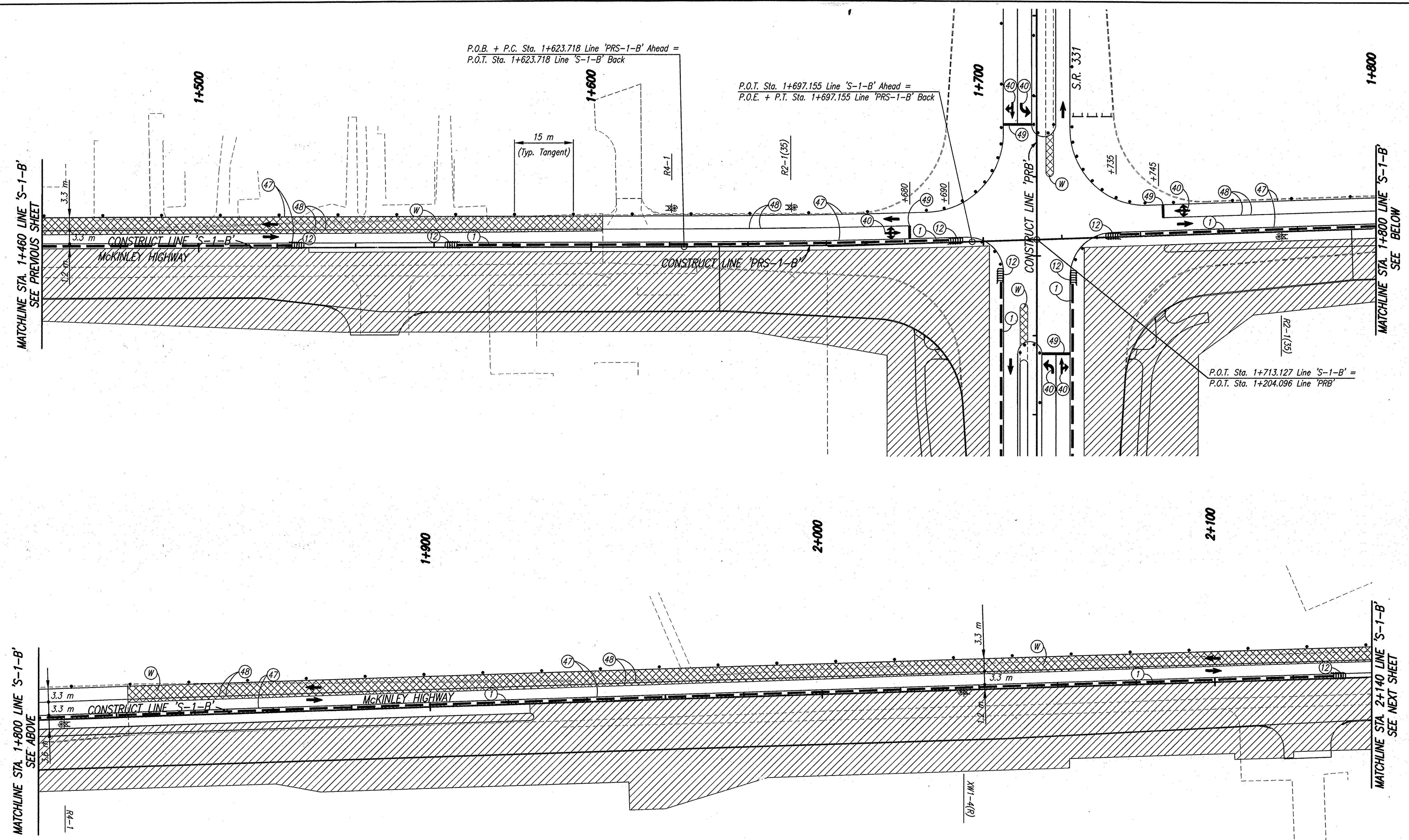


RECOMMENDED FOR APPROVAL	<i>B. K. Arterbery</i>	3/21/04
DESIGNED:	ERW	DRAWN:
CHECKED:	BKA	CHECKED:

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE I

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	12 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Mar 27, 2008, 6:34am User ID: bartterry File: M:\proj\0161\2218\ch\dwg\S-Line Sht\McKinley Hwy Sht - Roadway\2218MT12.dwg Model Tab: xerox-24x36



McKINLEY HIGHWAY CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

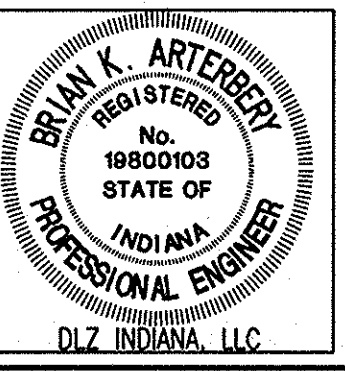
CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	1 EACH
Type 'B' Sign	4 EACH

- LEGEND**
- (1) Temporary Traffic Barrier, Type 2
 - (2) Energy Absorbing Terminal, CZ, TL-3
 - (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 - (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 - ⊗ HMA For Temporary Pavement To Be:
 90 Kg/m² HMA, Type A, Surface, On
 150 Kg/m² HMA, Type A, Intermediate, On
 300 Kg/m² HMA, Type A, Base, On
 150 mm Compacted Aggregate, No. 53, Base

- Area Under Construction
- Standard Drum
- Construction Sign
- Type 'A' Construction Warning Light
- Type 'B' Construction Warning Light
- Direction Of Traffic
- Barricade, Type III-(A or B)

- NOTES**
1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 3. Remove Existing Pavement Markings As Req'd.
 4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.
 5. Traffic Shall Be Maintained On Existing Lanes During Temporary Widening.

- SIGN LEGEND**
- XW1-4 Lane Shift Arrow (R Or L) Symbol
 - R2-1(35) "Speed Limit 35" Sign
 - R4-1 "Do Not Pass" Sign



RECOMMENDED FOR APPROVAL *B. K. Arterberry* 3/27/06
 DESIGN ENGINEER DATE

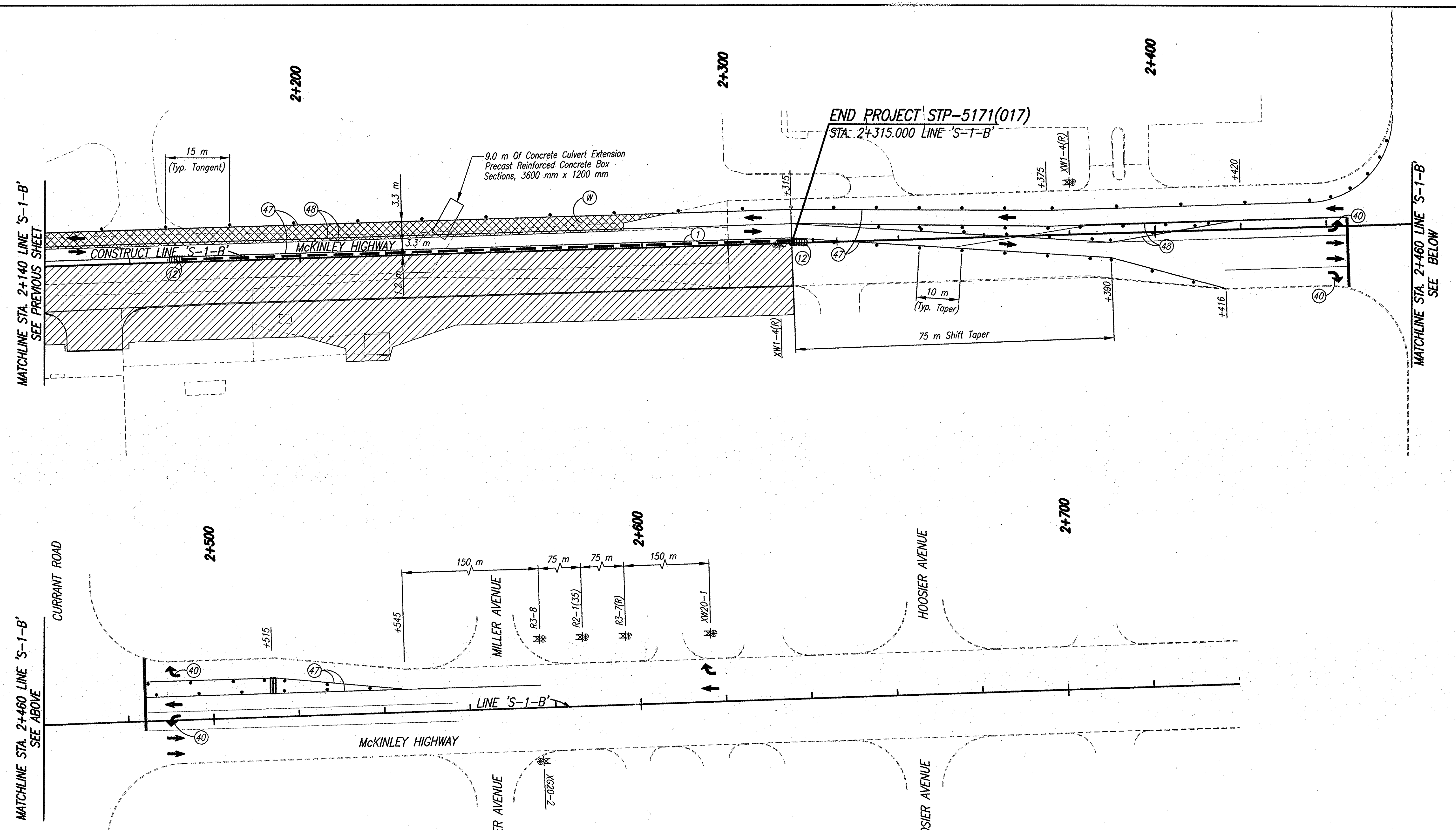
DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION

**MAINTENANCE OF TRAFFIC
 PHASE I**

HORIZONTAL SCALE	ROAD FILE
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	13 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Mar 27, 2006, 6:36am User ID: bartoreby
 File: M:\proj\0161\2218\ch\dwg\S-Line Sat\McKinley Hwy Sat - Roadway\2218MT13.dwg Model Tab: xerox-24x36



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	3 EACH
Type 'B' Sign	4 EACH

MCKINLEY HIGHWAY CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

SIGN LEGEND
 R2-1(35) "Speed Limit 35" Sign
 XG20-2 "End Construction" Sign
 XW1-4 Lane Shift Arrow (R Or L) Symbol
 R3-7R "Right Lane Must Turn Right" Sign
 R3-8 Advance Intersection Lane Control Sign
 XW20-1 "Road Construction Ahead" Sign

NOTES
 1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 3. Remove Existing Pavement Markings As Req'd.
 4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.
 5. Traffic Shall Be Maintained On Existing Lanes During Temporary Widening.

- LEGEND**
- ① Temporary Traffic Barrier, Type 2
 - ② Energy Absorbing Terminal, CZ, TL-3
 - ④ Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 - ④ Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - ④ Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - ⊗ HMA For Temporary Pavement To Be:
 90 Kg/m² HMA, Type A, Surface, On
 150 Kg/m² HMA, Type A, Intermediate, On
 300 Kg/m² HMA, Type A, Base, On
 150 mm Compacted Aggregate, No. 53, Base
 - ▨ Area Under Construction
 - Standard Drum
 - ⊠ Construction Sign
 - ⊙ Type 'A' Construction Warning Light
 - ➔ Direction Of Traffic
 - ⊠ Flashing Arrow Panel



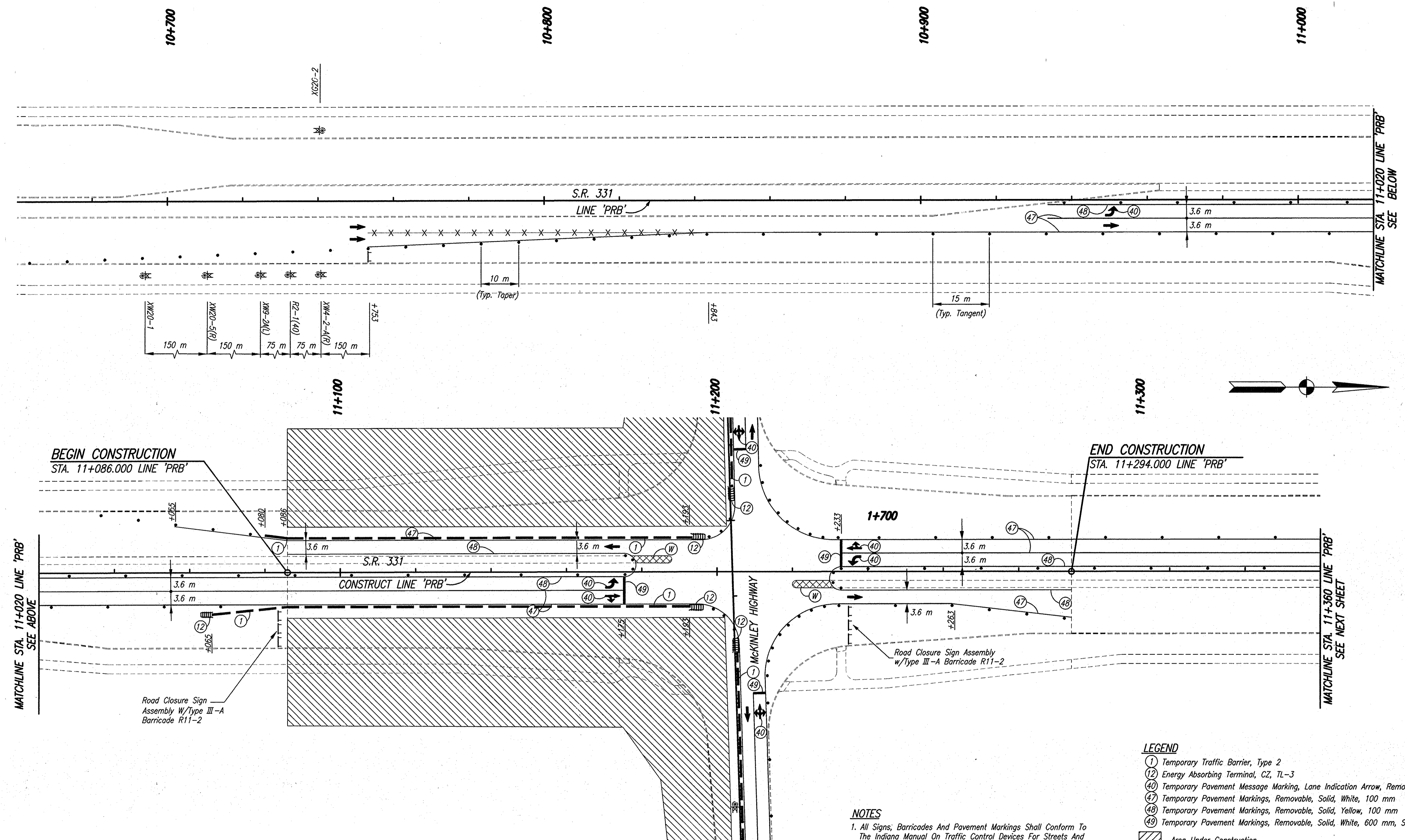
RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 3/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE I

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	14 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Mar 22, 2006, 3:22pm, User ID: ihll
 File: M:\proj\0161\2218\con\sig\Line Set\Mckinley Hwy Set - Roadway\2218MT14.dwg Model Tab: ver=04-24-06



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	2 EACH
Road Closure Sign Assembly	2 EACH

SIGN LEGEND
 R2-1(40) "Speed Limit 40" Sign
 XG20-2 "End Construction" Sign
 XW20-1 "Road Construction Ahead" Sign
 XW20-5(R) "Right Lane Closed Ahead" Sign
 XW9-2A(L) "Lane Ends Merge Left" Sign
 XW4-2-A(R) (Lane Ends Merge Left Symbol)

- NOTES**
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 - Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 - Remove Existing Pavement Markings As Req'd.
 - Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

- LEGEND**
- ① Temporary Traffic Barrier, Type 2
 - ② Energy Absorbing Terminal, CZ, TL-3
 - ④ Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 - ④ Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - ④ Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - ④ Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 - ▨ Area Under Construction
 - Standard Drum
 - ⊠ Construction Sign
 - ⊙ Type 'A' Construction Warning Light
 - Direction Of Traffic
 - ⊥ Barricade, Type III-(A or B)
 - *-X-X Line, Remove

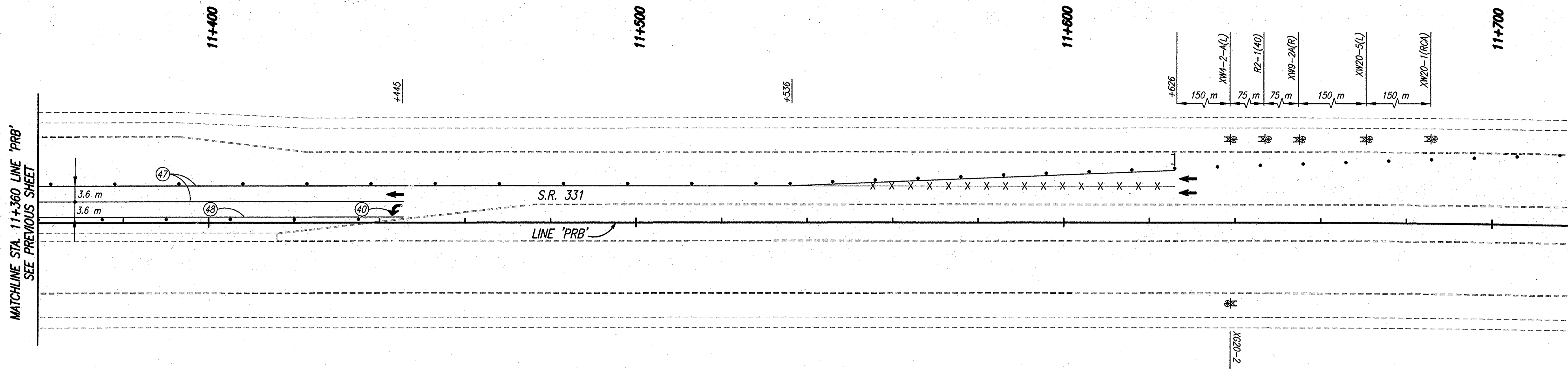


RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 3/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE I

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	15 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



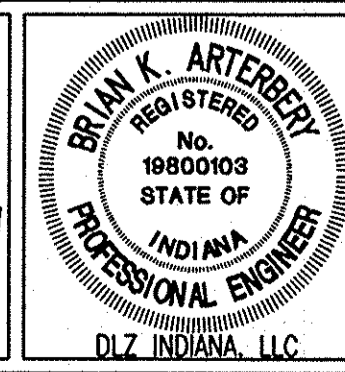
CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	2 EACH

SIGN LEGEND
 R2-1(40) "Speed Limit 40" Sign
 XG20-2 "End Construction" Sign
 XW20-1 "Road Construction Ahead" Sign
 XW20-5(R) "Right Lane Closed Ahead" Sign
 XW9-2A(L) "Lane Ends Merge Left" Sign
 XW4-2-A(R) (Lane Ends Merge Left Symbol)

NOTES
 1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 3. Remove Existing Pavement Markings As Req'd.
 4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

LEGEND
 (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 [Hatched Box] Area Under Construction
 ● Standard Drum
 [Square with X] Construction Sign
 [Circle with X] Type 'A' Construction Warning Light
 [Arrow] Direction Of Traffic
 [T-bar] Barricade, Type III-(A or B)
 -X-X- Line, Remove

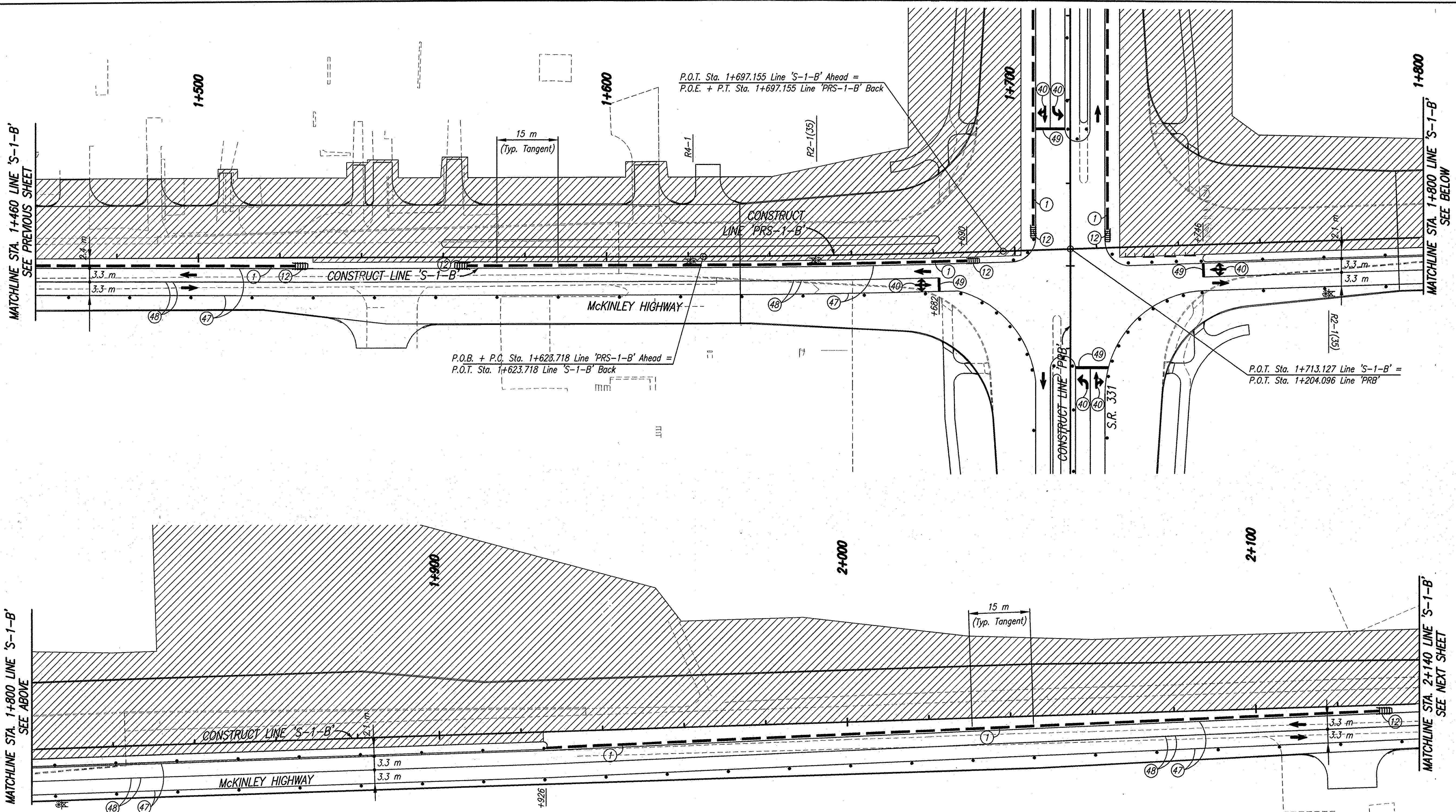
Date: Feb 28, 2006, 9:55am User: bhill
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RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i> 2/27/06	
DESIGN ENGINEER	DATE	
DESIGNED: ERW	DRAWN: TH	
CHECKED: BKA	CHECKED: ERW	

INDIANA
 DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC
 PHASE I

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	16 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



Date: Mar 27, 2006, 6:48am User ID: bharthary
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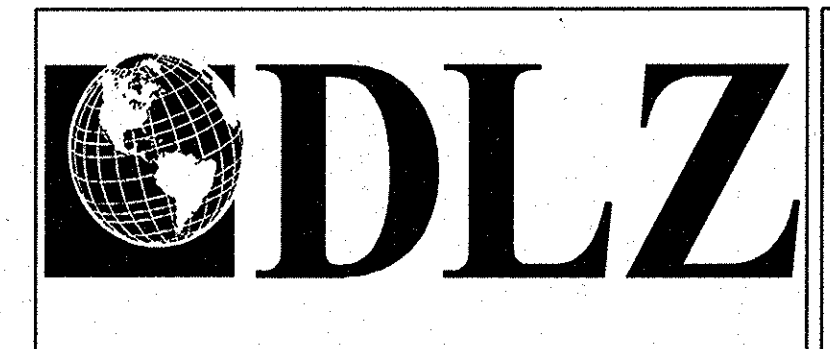
McKINLEY HIGHWAY CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'B' Sign	4 EACH

SIGN LEGEND
 R2-1(35) "Speed Limit 35" Sign
 R4-1 "Do Not Pass" Sign

- NOTES**
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 - Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 - Remove Existing Pavement Markings As Req'd.
 - Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

- LEGEND**
- ① Temporary Traffic Barrier, Type 2
 - ⑫ Energy Absorbing Terminal, CZ, TL-3
 - ④⑦ Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 - ④⑦ Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - ④⑧ Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - ④⑨ Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 - ▨ Area Under Construction
 - Standard Drum
 - ⊠ Construction Sign
 - ⊙ Type 'A' Construction Warning Light
 - ➔ Direction Of Traffic

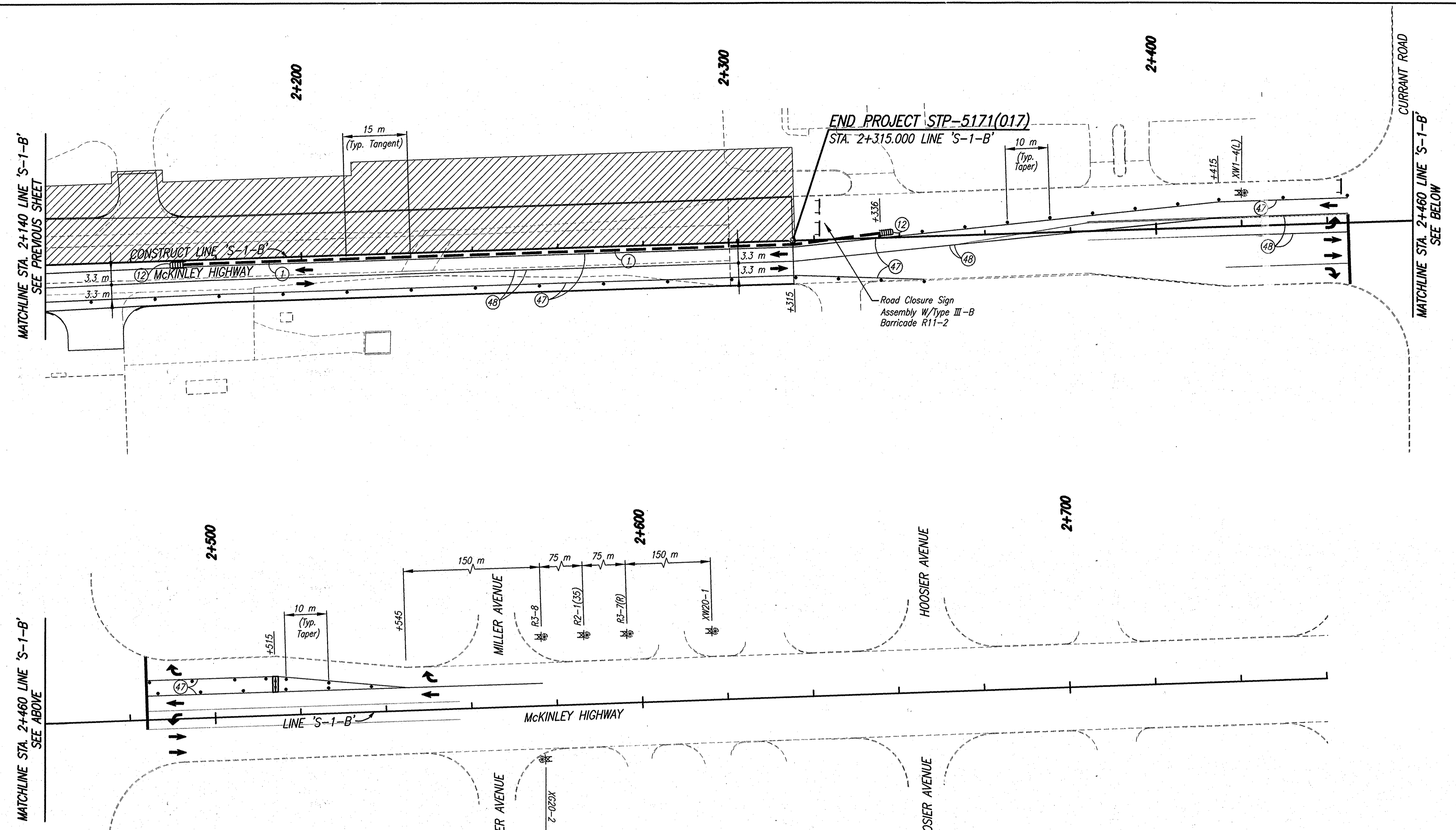


RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	3/27/06
DESIGNED:	ERW	DRAWN:
CHECKED:	BKA	CHECKED:
		TH
		ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE II

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	18 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Mar 27, 2006, 6:49am, User ID: bartberry
 File: M:\proj\01611\2218\civ\dwg\S-Line S&M\McKinley Hwy S&M - Roadway\2218MT23.dwg Model Tab: xerox-24x36



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	2 EACH
Type 'B' Sign	4 EACH
Road Closure Sign Assembly	1 EACH

SIGN LEGEND

- R2-1(35) "Speed Limit 35" Sign
- XG20-2 "End Construction" Sign
- XW20-1 "Road Construction Ahead" Sign
- R3-7(R) "Right Lane Must Turn Right" Sign
- R3-8 Advance Intersection Lane Control Sign
- XW1-4(L) "Lane Shift Arrow (R or L) Symbol
- R11-2 "Road Closed" Sign

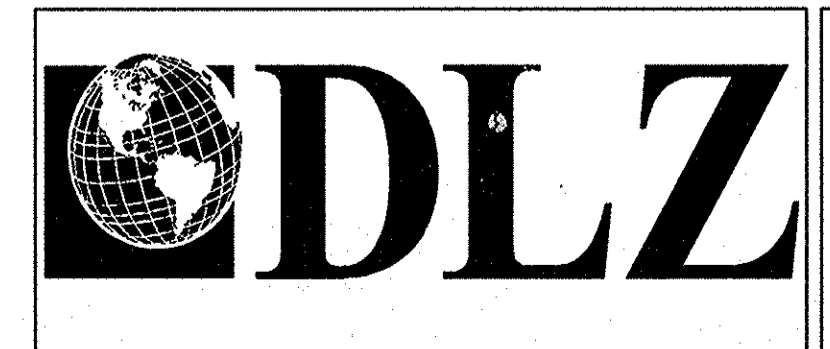
NOTES

1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
3. Remove Existing Pavement Markings As Req'd.
4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

LEGEND

- (1) Temporary Traffic Barrier, Type 2
- (12) Energy Absorbing Terminal, CZ, TL-3
- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- ▨ Area Under Construction
- Standard Drum
- ⊠ Construction Sign
- ⊙ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic
- ⊥ Barricade, Type III-(A or B)
- ⬇ Flashing Arrow Panel

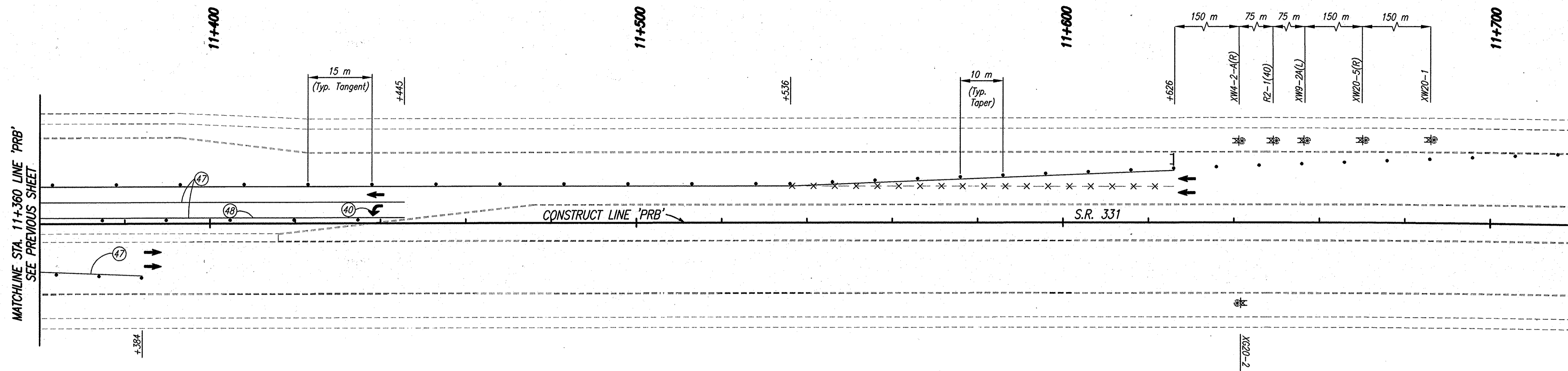
McKINLEY HIGHWAY CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)



RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	3/27/06
DESIGNED:	ERW	TH
CHECKED:	BKA	ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION
**MAINTENANCE OF TRAFFIC
 PHASE II**

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	19 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	2 EACH

S.R. 331 CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (40 MPH)

SIGN LEGEND

- R2-1(40) "Speed Limit 40" Sign
- XG20-2 "End Construction" Sign
- XW20-1 "Road Construction Ahead" Sign
- XW20-5(R) "Right Lane Closed Ahead" Sign
- XW9-2A(L) "Lane Ends Merge Left" Sign
- XW4-2-A(R) (Lane Ends Merge Left Symbol)

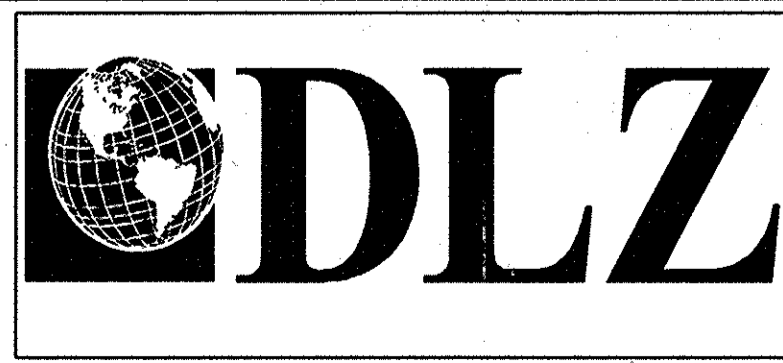
NOTES

1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
3. Remove Existing Pavement Markings As Req'd.
4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

LEGEND

- 40 Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- 47 Temporary Pavement Markings, Removable, Solid, White, 100 mm
- 48 Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- ▨ Area Under Construction
- Standard Drum
- ⊠ Construction Sign
- ⊙ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic
- ⊥ Barricade, Type III-(A or B)
- X-X- Line, Remove

Date: Feb 28, 2006, 9:57am User ID: ihill
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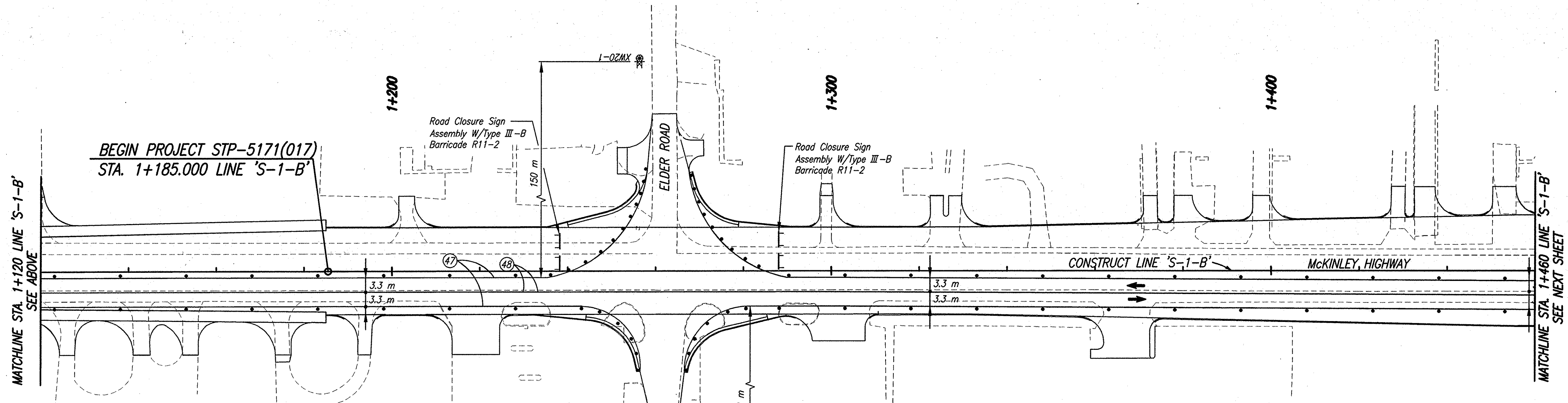
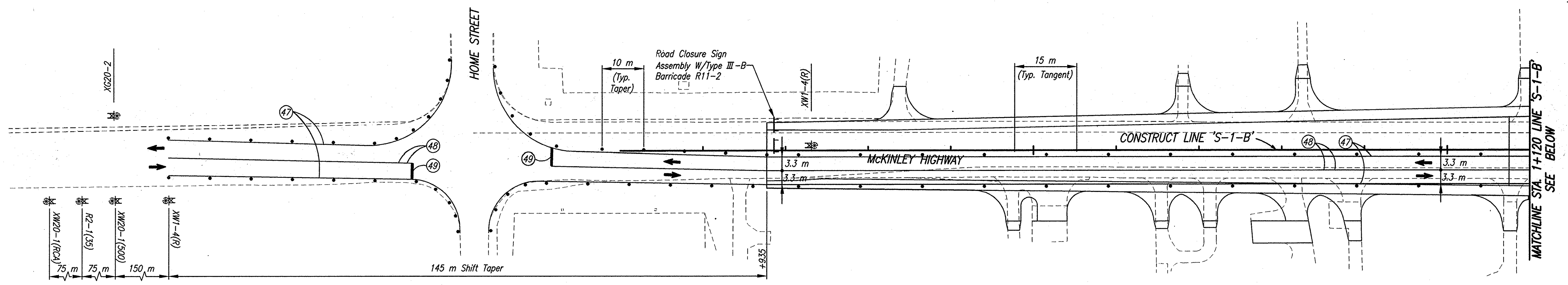


RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i> 2/27/06	
DESIGN ENGINEER	DATE	
DESIGNED: ERW	DRAWN: TH	
CHECKED: BKA	CHECKED: ERW	

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE II

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	21 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



McKINLEY HIGHWAY CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	6 EACH
Type 'B' Sign	2 EACH
Road Closure Sign Assembly	3 EACH

SIGN LEGEND

- R2-1(35) "Speed Limit 35" Sign
- XG20-2 "End Construction" Sign
- XW20-1(RCA) "Road Construction Ahead" Sign
- XW20-1(500) "Road Construction 500 Ft." Sign
- XW1-4 Lane Shift Arrow (R or L) Sign

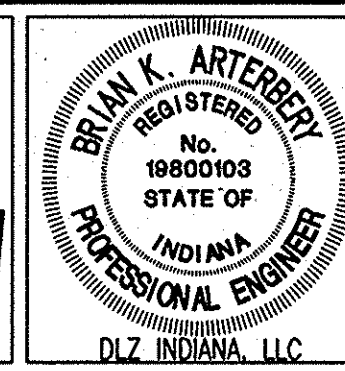
NOTES

1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
3. Remove Existing Pavement Markings As Req'd.
4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

LEGEND

- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- ▨ Area Under Construction
- Standard Drum
- ⊠ Construction Sign
- ⊙ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic
- ⊥ Barricade, Type III-(A or B)

Date: Feb. 28, 2006, 9:56am User: dt_hall
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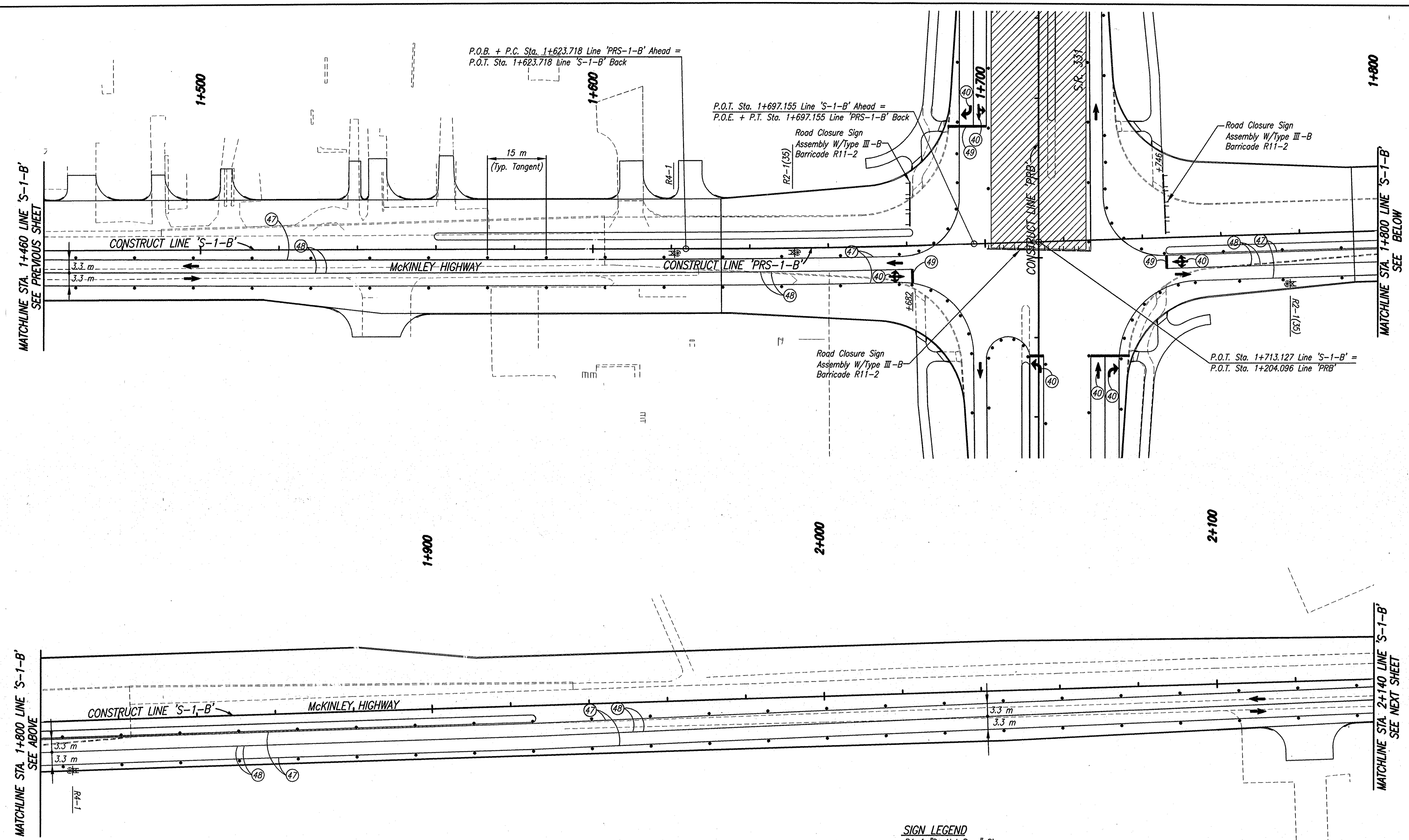


RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	2/27/06	DATE
DESIGNED:	ERW	DRAWN:	TH
CHECKED:	BKA	CHECKED:	ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE III

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	22 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Feb. 28, 2006, 11:35am User ID: ihill
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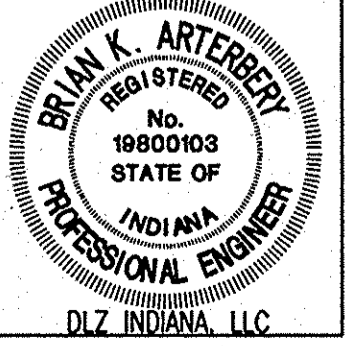
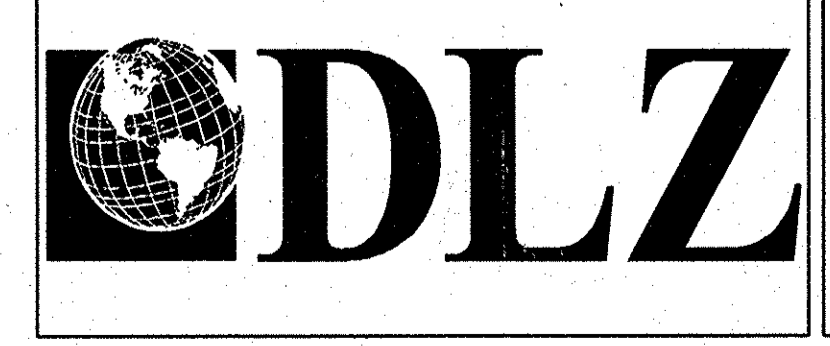
McKINLEY HIGHWAY CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'B' Sign	4 EACH
Road Closure Sign Assembly	3 EACH

SIGN LEGEND
 R4-1 "Do Not Pass" Sign
 R2-1(35) "Speed Limit 35" Sign

- NOTES**
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 - Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 - Remove Existing Pavement Markings As Req'd.
 - Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

- LEGEND**
- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 - (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 - ▨ Area Under Construction
 - Standard Drum
 - ⊠ Construction Sign
 - ⊙ Type 'A' Construction Warning Light
 - ➔ Direction Of Traffic
 - ⊥ Barricade, Type III-(A or B)

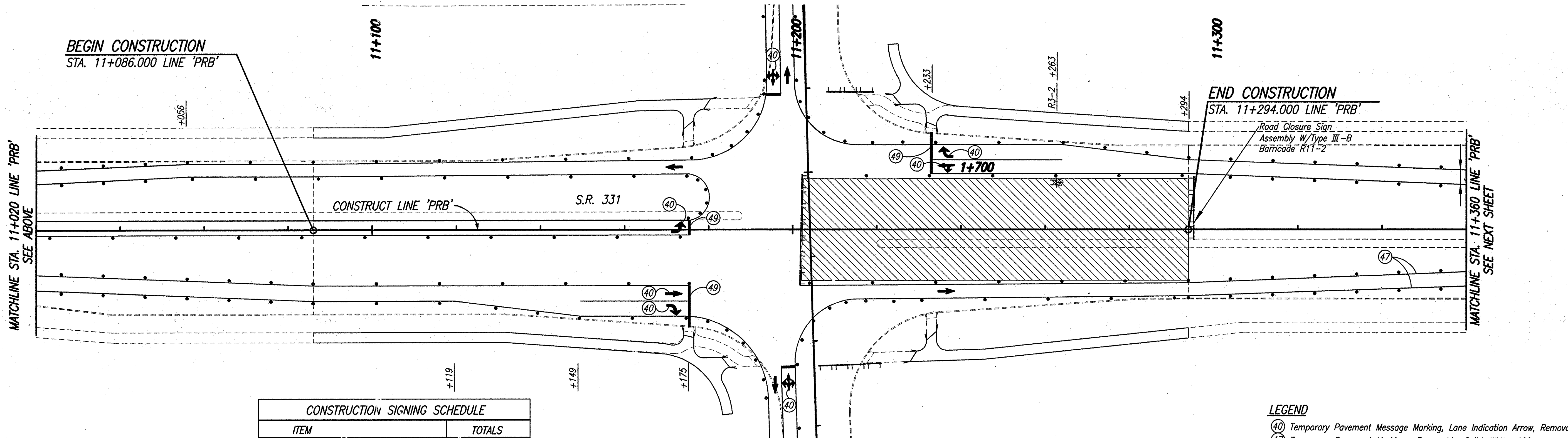
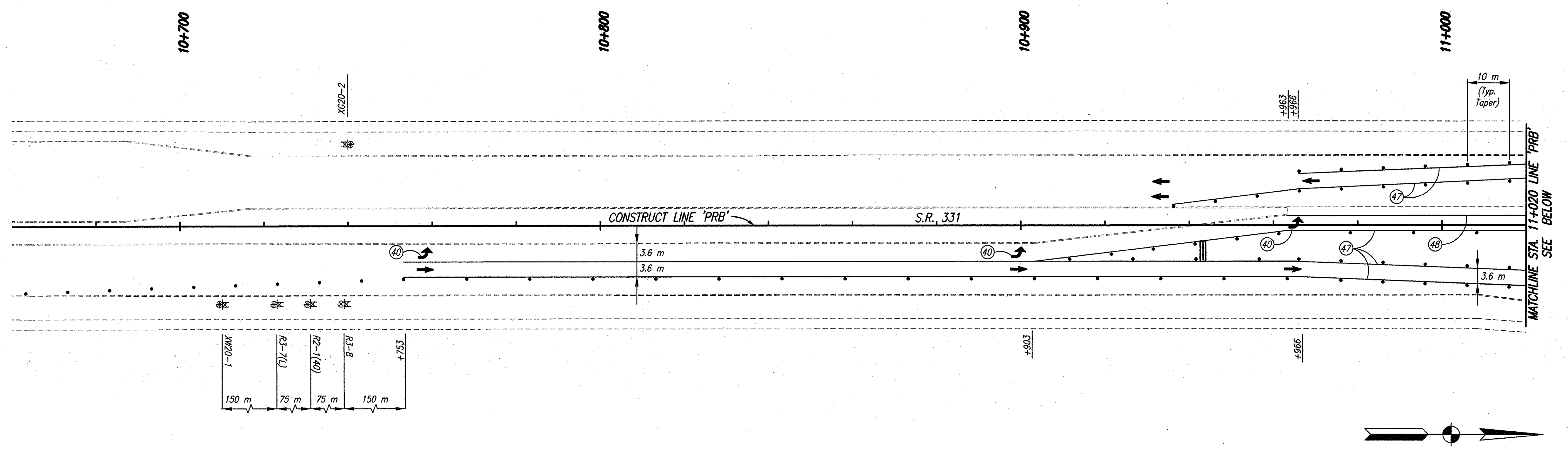


RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	DATE	2/27/06
DESIGNED:	ERW	DRAWN:	TH
CHECKED:	BKA	CHECKED:	ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE III

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	23 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Feb 28, 2006, 9:59am User ID: thill
 File: M:\proj\0161\2218\ch\Line Set\McKinley Hwy Set - Roadway\221BMT34.dwg Model Tab: xerox-24x36



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	1 EACH
Type 'B' Sign	5 EACH
Road Closure Sign Assembly	1 EACH

SIGN LEGEND
 R2-1(40) "Speed Limit 40" Sign
 XC20-2 "End Construction" Sign
 XW20-1 "Road Construction Ahead" Sign
 R3-2 (No Left Turn Symbol)
 R3-7(L) "Left Lane Must Turn Left" Sign
 R3-8 Advance Intersection Lane Control Sign
 R11-2 "Road Closed" Sign

NOTES
 1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 3. Remove Existing Pavement Markings As Req'd.
 4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

LEGEND
 (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 [Hatched] Area Under Construction
 ● Standard Drum
 [Symbol] Construction Sign
 [Symbol] Type 'A' Construction Warning Light
 [Symbol] Direction Of Traffic
 [Symbol] Barricade, Type III-(A or B)
 [Symbol] Flashing Arrow Panel

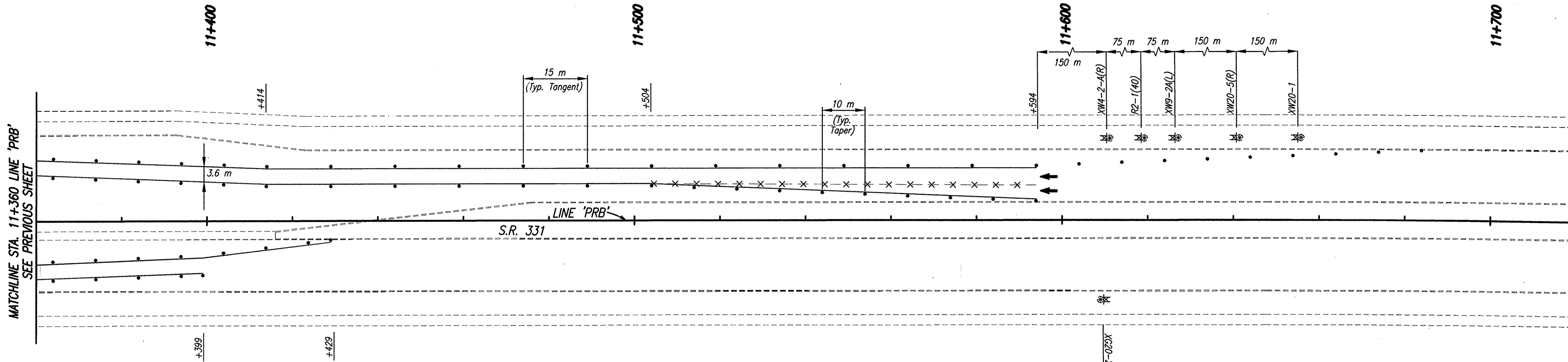
S.R. 331 CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (40 MPH)



RECOMMENDED FOR APPROVAL: *B. K. Arterbery* 2/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC PHASE III

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	25 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



MATCHLINE STA. 11+360 LINE 'PRB'
SEE PREVIOUS SHEET

S.R. 331

CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	2 EACH

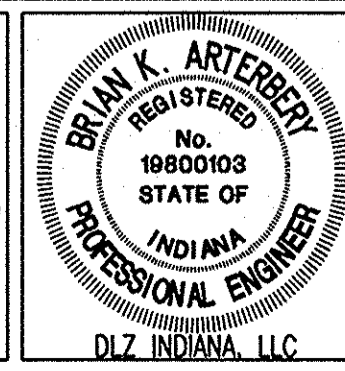
S.R. 331 CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (40 MPH)

SIGN LEGEND
 R2-1(40) "Speed Limit 40" Sign
 XG20-2 "End Construction" Sign
 XW20-1 "Road Construction Ahead" Sign
 XW20-5(L) "Left Lane Closed Ahead" Sign
 XW9-2A(R) "Lane Ends Merge Right" Sign
 XW4-2-A(L) (Lane Ends Merge Right Symbol)

NOTES
 1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 3. Remove Existing Pavement Markings As Req'd.
 4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

LEGEND
 (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 [Hatched Box] Area Under Construction
 ● Standard Drum
 [Crossed Box] Construction Sign
 [Circle with X] Type 'A' Construction Warning Light
 [Arrow] Direction Of Traffic
 [T-bar] Barricade, Type III-(A or B)
 -X-X- Line, Remove

Date: Feb 28, 2006, 9:59am User: ID: thill
File: M:\proj\0161\2218\civil\dwg\S-Line Set\Mainline Hwy Set - Roadway\2218MT35.dwg Model Tab: xerox-24x36

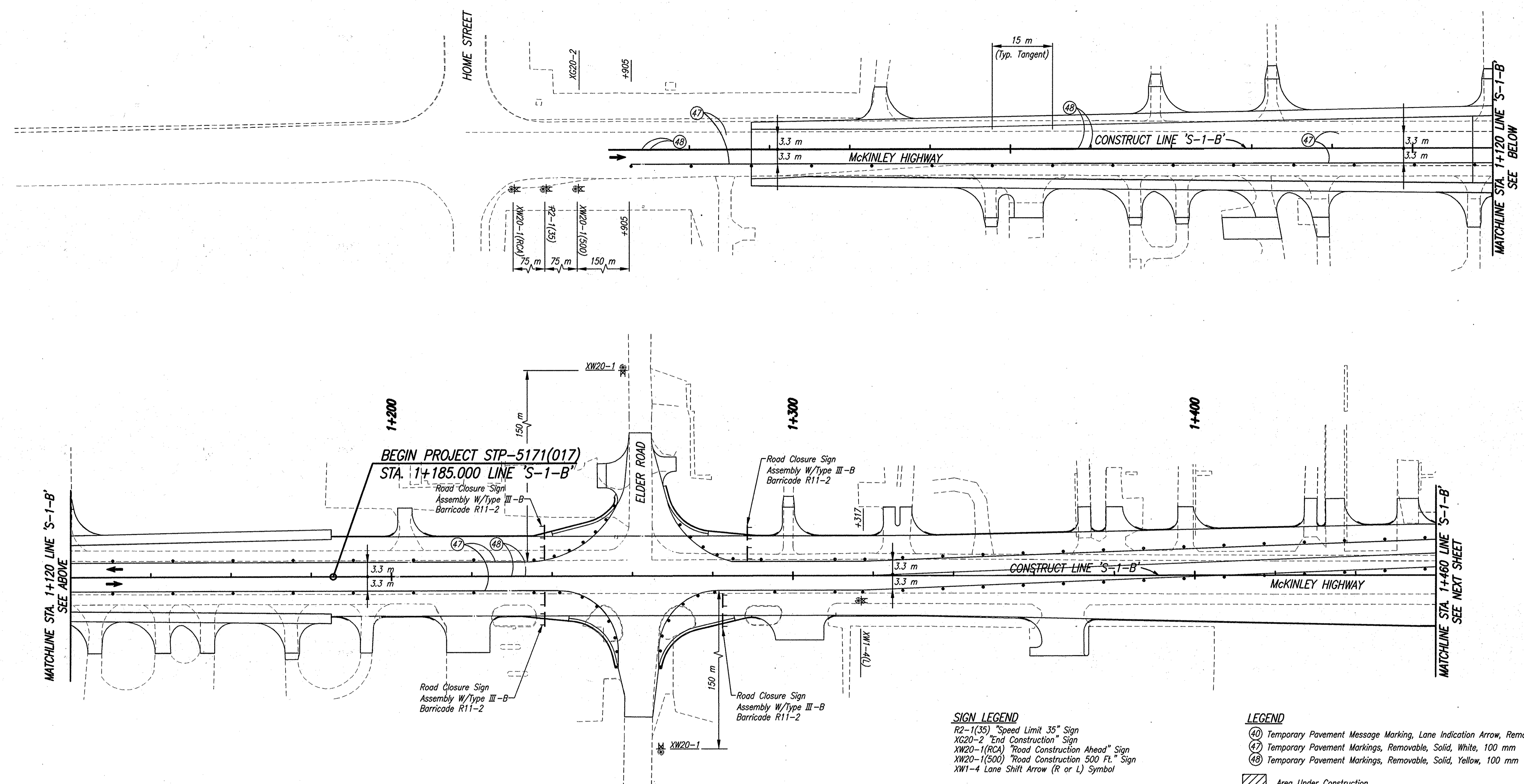


RECOMMENDED FOR APPROVAL	<i>Brian K. Arterberry</i> 2/28/06	
DESIGNED:	ERW	TH
CHECKED:	BKA	ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC PHASE III

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	26 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Feb 28, 2006, 10:00am User ID: thill
 File: M:\proj\0161\2218\Civil\Drawings\Line Set\McKinley Hwy Set\McKinley Hwy Set.dwg Model Tab: verex-24x36



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	5 EACH
Type 'B' Sign	2 EACH
Road Closure Sign Assembly	4 EACH

SIGN LEGEND

- R2-1(35) "Speed Limit 35" Sign
- XG20-2 "End Construction" Sign
- XW20-1(RCA) "Road Construction Ahead" Sign
- XW20-1(500) "Road Construction 500 Ft." Sign
- XW1-4 Lane Shift Arrow (R or L) Symbol

NOTES

1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
3. Remove Existing Pavement Markings As Req'd.
4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

LEGEND

- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- ▨ Area Under Construction
- Standard Drum
- ⊥ Construction Sign
- ⊙ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic
- ⊥ Barricade, Type III-(A or B)

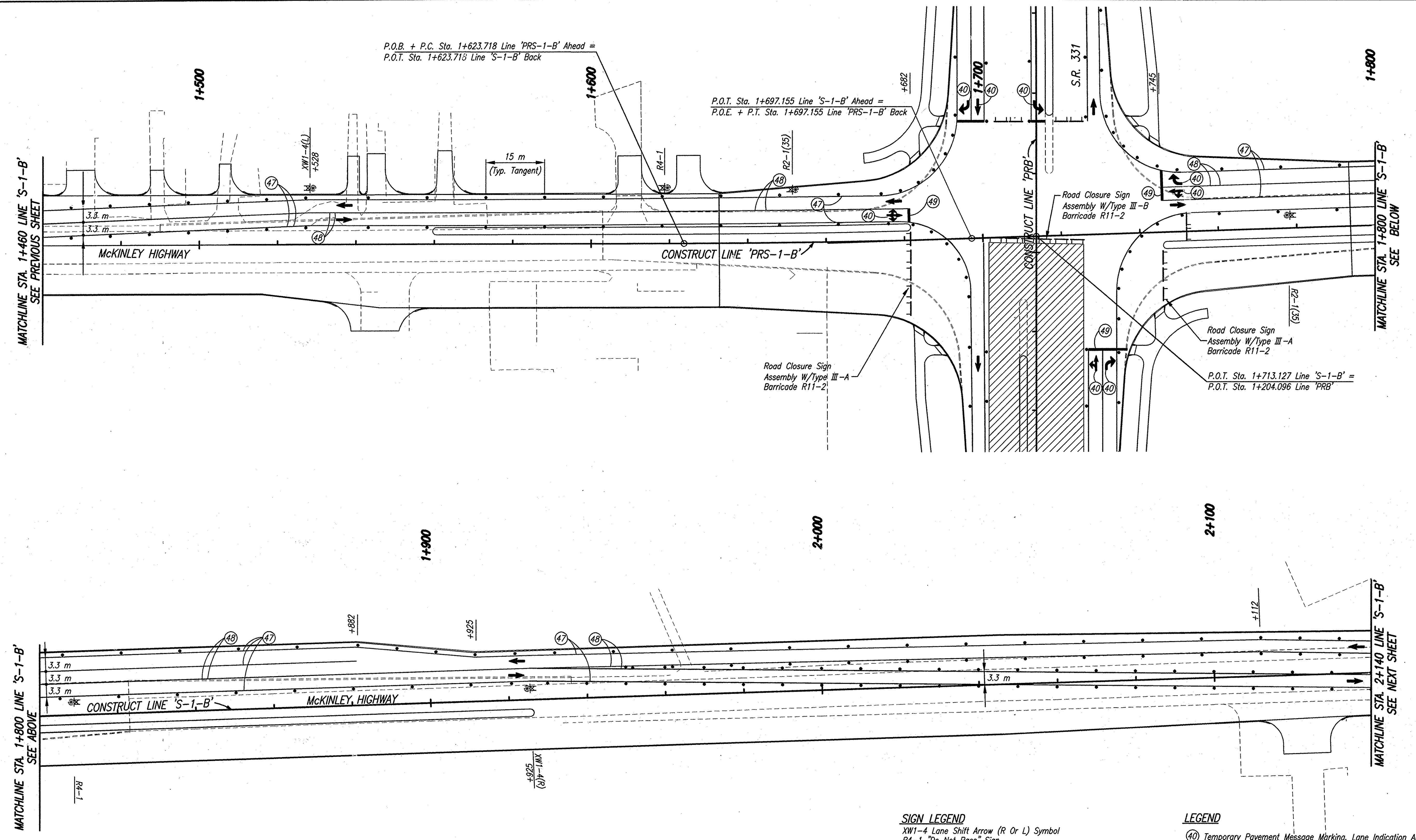


RECOMMENDED FOR APPROVAL	<i>B. K. Arterbery</i>	2/21/06
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE IV

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	27 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Feb 28, 2006, 10:00am User ID: ihll
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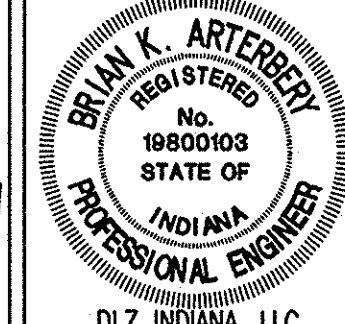
McKINLEY HIGHWAY CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	1 EACH
Type 'B' Sign	4 EACH
Road Closure Sign Assembly	3 EACH

SIGN LEGEND
 XW1-4 Lane Shift Arrow (R Or L) Symbol
 R4-1 "Do Not Pass" Sign
 R2-1(35) "Speed Limit 35" Sign

NOTES
 1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 3. Remove Existing Pavement Markings As Req'd.
 4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

LEGEND
 (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 [Hatched Area] Area Under Construction
 ● Standard Drum
 [Symbol] Construction Sign
 [Symbol] Type 'A' Construction Warning Light
 [Arrow] Direction Of Traffic
 [Symbol] Barricade, Type III-(A or B)

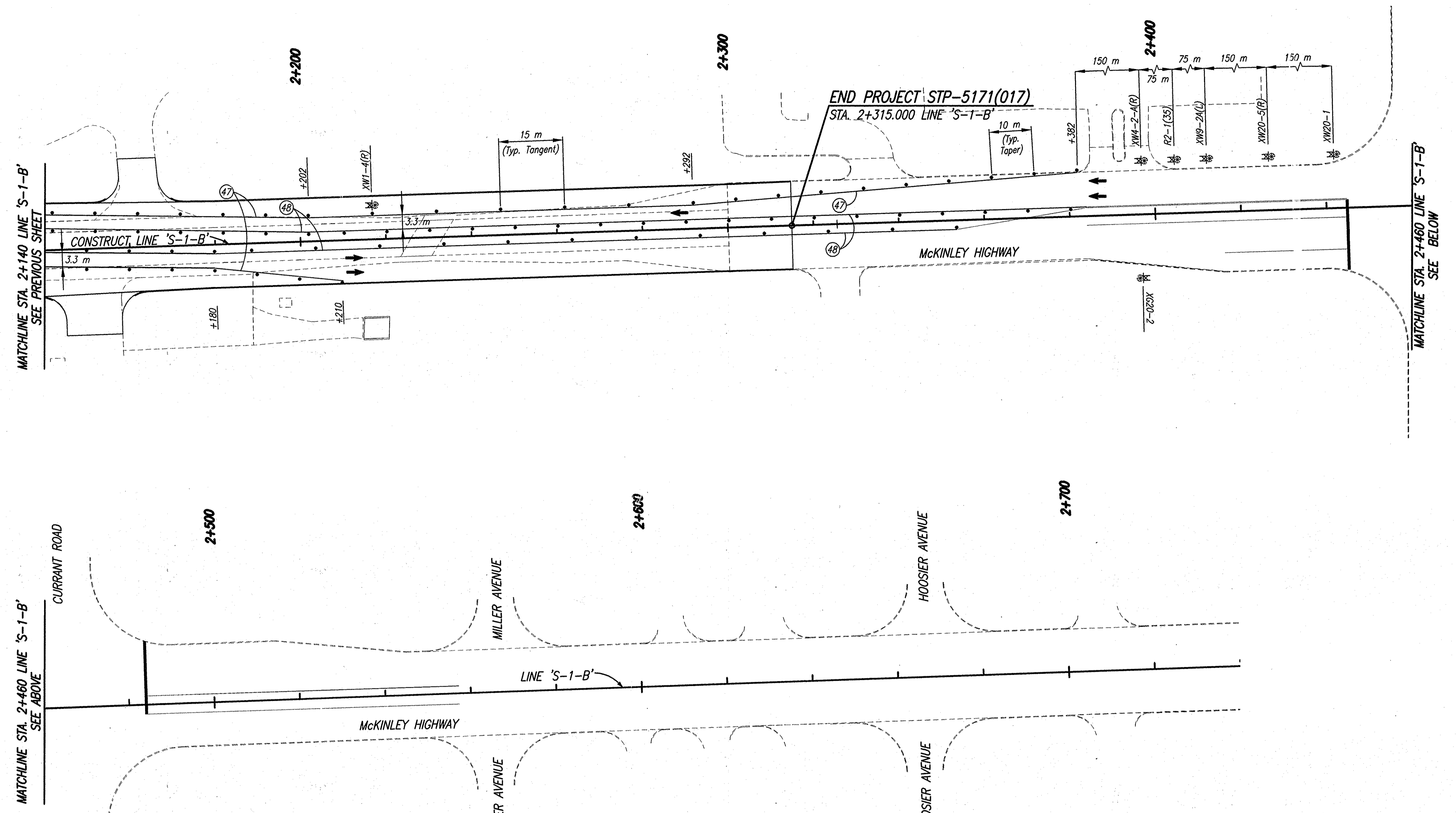


RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC PHASE IV

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	28 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Feb 28, 2006, 10:01am User ID: thill
 File: M:\proj\0161\2218\cvt\dwg\S-Line Set\Mckinley Hwy Set - Roadway\2218MTA3.dwg Model Tab: xerox-24x36



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	5 EACH
Type 'B' Sign	2 EACH

SIGN LEGEND

- R2-1(35) "Speed Limit 35" Sign
- XG20-2 "End Construction" Sign
- XW20-1 "Road Construction Ahead" Sign
- XW4-2-A(R) (Lane Ends Merge Left Symbol)
- XW9-2A(L) "Lane Ends Merge Left" Sign
- XW1-4 Lane Shift Arrow (R or L) Symbol
- XW20-5(R) "Right Lane Closed Ahead" Sign

NOTES

1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
3. Remove Existing Pavement Markings As Req'd.
4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

LEGEND

- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- Area Under Construction
- Standard Drum
- Construction Sign
- Type 'A' Construction Warning Light
- Direction Of Traffic

MCKINLEY HIGHWAY CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

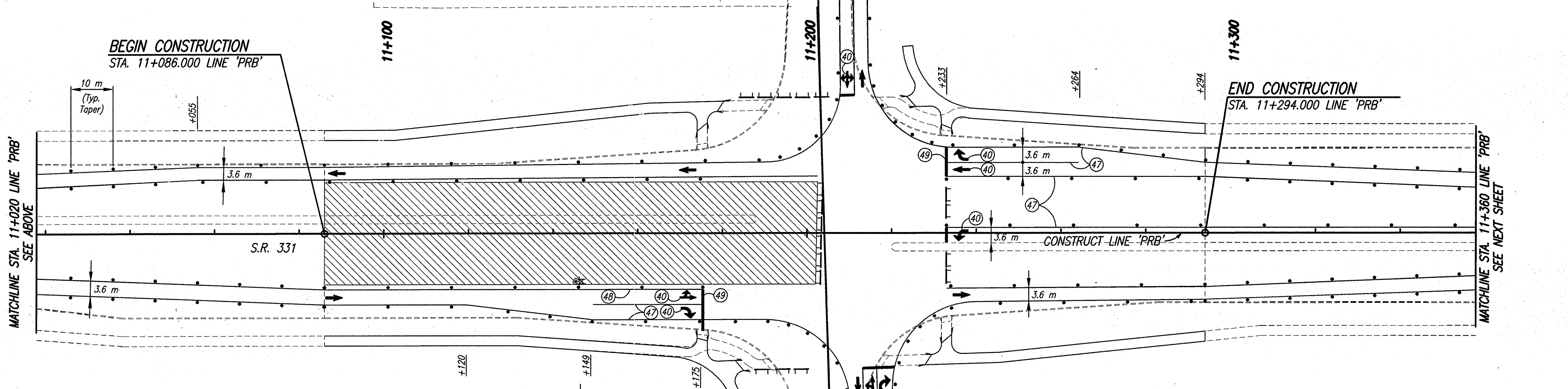
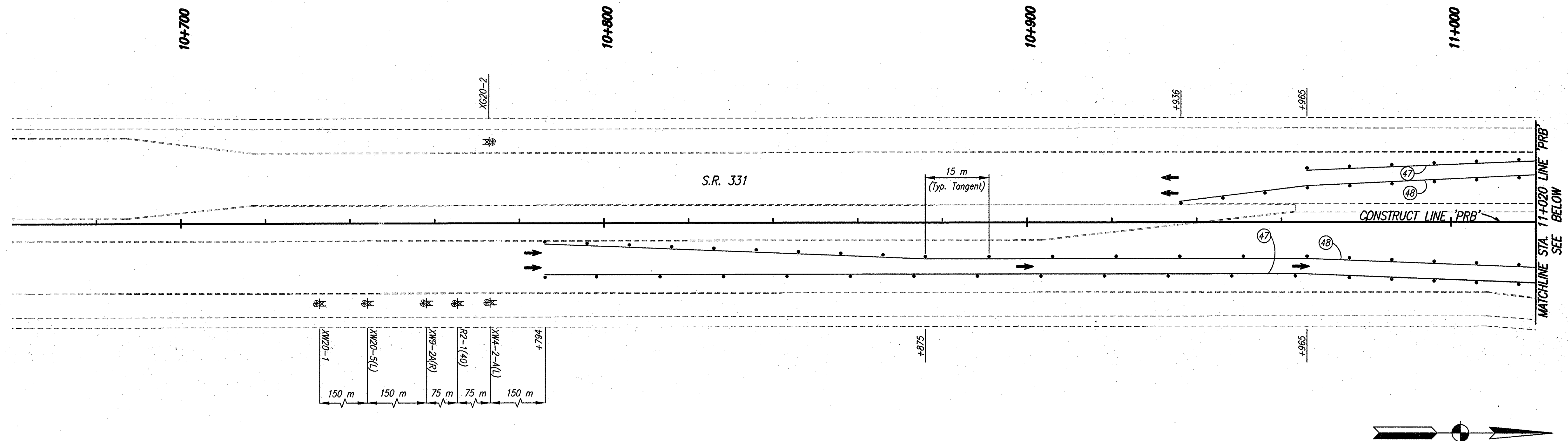


RECOMMENDED FOR APPROVAL	<i>Brian K. Arterberry</i>	2/27/06
DESIGNED:	ERW	TH
CHECKED:	BKA	ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC
 PHASE IV

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	29 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Feb. 28, 2006, 10:01am User ID: thill
 File: M:\proj\0161\2118\plan\dwg\S-Line Set\McKinley Hwy Set - Roadway\2118M14.dwg Model Tab: erow-24x38



BEGIN CONSTRUCTION
 STA. 11+086.000 LINE 'PRB'

END CONSTRUCTION
 STA. 11+294.000 LINE 'PRB'

CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	3 EACH

SIGN LEGEND
 R2-1(35) "Speed Limit 35" Sign
 XC20-2 "End Construction" Sign
 XW20-1 "Road Construction Ahead" Sign
 XW20-5(L) "Left Lane Closed Ahead" Sign
 XW9-2A(R) "Lane Ends Merge Right" Sign
 XW4-2-A(L) (Lane Ends Merge Right Symbol)
 R3-2 (No Left Turn Symbol)

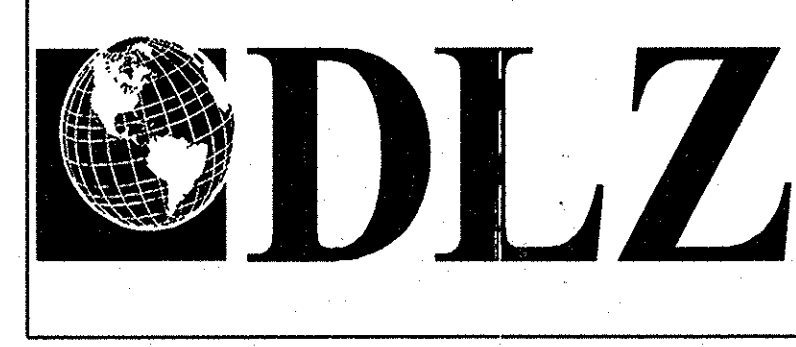
NOTES

- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
- Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
- Remove Existing Pavement Markings As Req'd.
- Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

LEGEND

- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
- [Hatched] Area Under Construction
- Standard Drum
- ⊠ Construction Sign
- ⊙ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic
- ⊥ Barricade, Type III-(A or B)

McKINLEY HIGHWAY CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

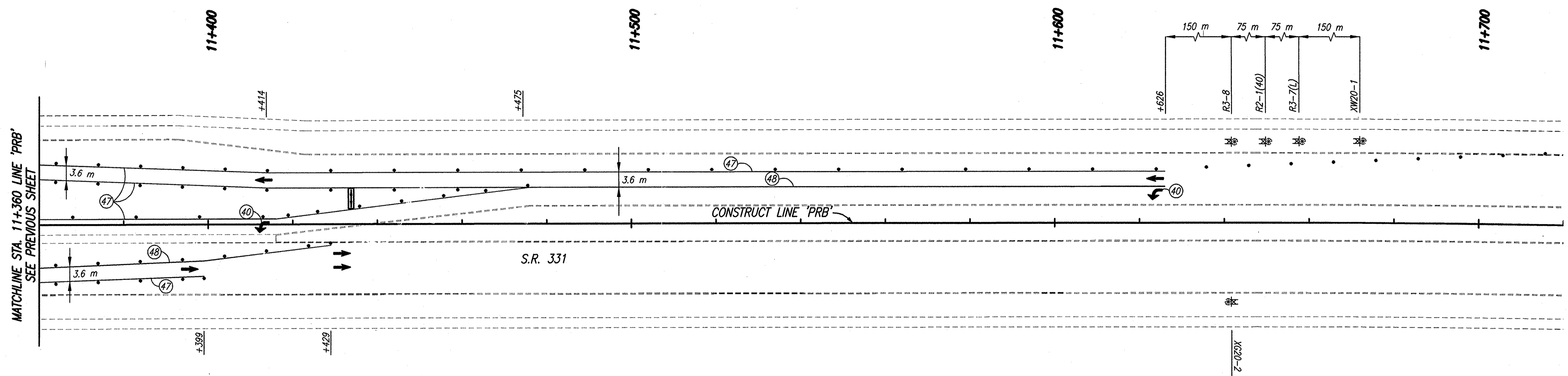
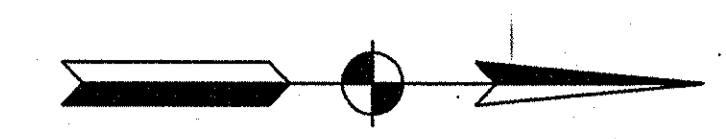


RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC PHASE IV

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	30 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



MATCHLINE STA. 11+360 LINE 'PRB'
SEE PREVIOUS SHEET

CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	1 EACH
Type 'B' Sign	4 EACH

S.R. 331 CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (40 MPH)

SIGN LEGEND

- R2-1(40) "Speed Limit 40" Sign
- XG20-2 "End Construction" Sign
- XW20-1 "Road Construction Ahead" Sign
- R3-8 (Left Lane Must Turn Left Symbol)
- R3-7(L) "Left Lane Must Turn Left" Sign

NOTES

1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
3. Remove Existing Pavement Markings As Req'd.
4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

LEGEND

- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- [Hatched Box] Area Under Construction
- Standard Drum
- [Square with X] Construction Sign
- ⊙ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic
- [Flashing Arrow Panel] Flashing Arrow Panel

Date: Feb 28, 2006, 10:02am User ID: thill
File: M:\proj\0161\2218\ch\ch\dwg\S-Line Set\Mckinley Hwy Set - Roadway\2218M45.dwg Model Tab: ver06-24x36



RECOMMENDED FOR APPROVAL	<i>B. K. Arterbery</i> 2/27/06	
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA
DEPARTMENT OF TRANSPORTATION

**MAINTENANCE OF TRAFFIC
PHASE IV**

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	31 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

0+940

SEC. 2, T38N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY

BEPA, L.P. et al.

0+960

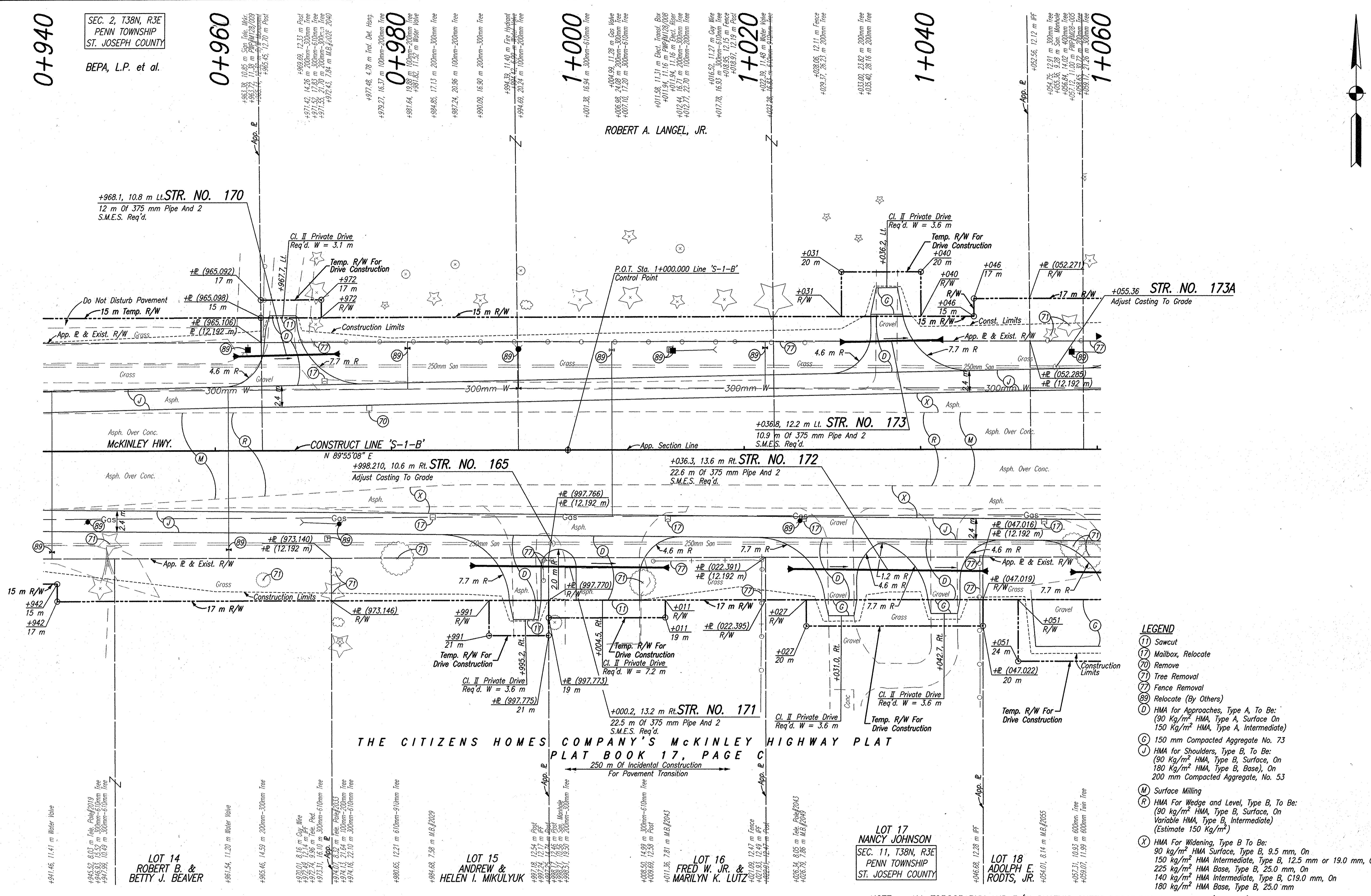
0+980

1+000

1+020

1+040

1+060



ROBERT A. LANGEL, JR.

+968.1, 10.8 m Lt. STR. NO. 170
12 m Of 375 mm Pipe And 2
S.M.E.S. Req'd.

+055.36 STR. NO. 173A
Adjust Casting To Grade

+036.8, 12.2 m Lt. STR. NO. 173
10.9 m Of 375 mm Pipe And 2
S.M.E.S. Req'd.

+998.210, 10.6 m Rt. STR. NO. 165
Adjust Casting To Grade

+036.3, 13.6 m Rt. STR. NO. 172
22.6 m Of 375 mm Pipe And 2
S.M.E.S. Req'd.

THE CITIZENS HOMES COMPANY'S MCKINLEY HIGHWAY PLAT
PLAT BOOK 17, PAGE C
250 m Of Incidental Construction
For Pavement Transition

LOT 14
ROBERT B. &
BETTY J. BEAVER

LOT 15
ANDREW &
HELEN I. MIKULYUK

LOT 16
FRED W. JR. &
MARILYN K. LUTZ

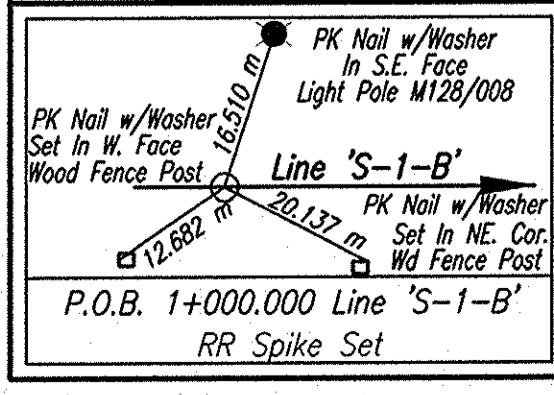
LOT 17
NANCY JOHNSON
SEC. 11, T38N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY

LOT 18
ADOLPH E.
RODTS, JR.

- LEGEND**
- (11) Sawcut
 - (17) Mailbox, Relocate
 - (70) Remove
 - (71) Tree Removal
 - (77) Fence Removal
 - (89) Relocate (By Others)
 - (D) HMA for Approaches, Type A, To Be: (90 Kg/m² HMA, Type A, Surface On 150 Kg/m² HMA, Type A, Intermediate)
 - (G) 150 mm Compacted Aggregate No. 73
 - (J) HMA for Shoulders, Type B, To Be: (90 Kg/m² HMA, Type B, Surface, On 180 Kg/m² HMA, Type B, Base), On 200 mm Compacted Aggregate, No. 53
 - (M) Surface Milling
 - (R) HMA For Wedge and Level, Type B, To Be: (90 Kg/m² HMA, Type B, Surface, On Variable HMA, Type B, Intermediate) (Estimate 150 Kg/m²)
 - (X) HMA For Widening, Type B To Be: (90 Kg/m² HMA Surface, Type B, 9.5 mm, On 150 Kg/m² HMA Intermediate, Type B, 12.5 mm or 19.0 mm, On 225 Kg/m² HMA Base, Type B, 25.0 mm, On 180 Kg/m² HMA Intermediate, Type B, C19.0 mm, On 180 Kg/m² HMA Base, Type B, 25.0 mm

NOTE: ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-1-B' UNLESS OTHERWISE NOTED

Date: Mar. 25, 2008, 7:40am User: dlz_boratory File: R:\proj\101611212101\dwg\15-Line S-1-McKinley Hwy Set - Roadway\101611212101.DWG Model Tab: version=2426



RECOMMENDED FOR APPROVAL: *B.K. Arterberry* 3/26/08
DESIGN ENGINEER DATE

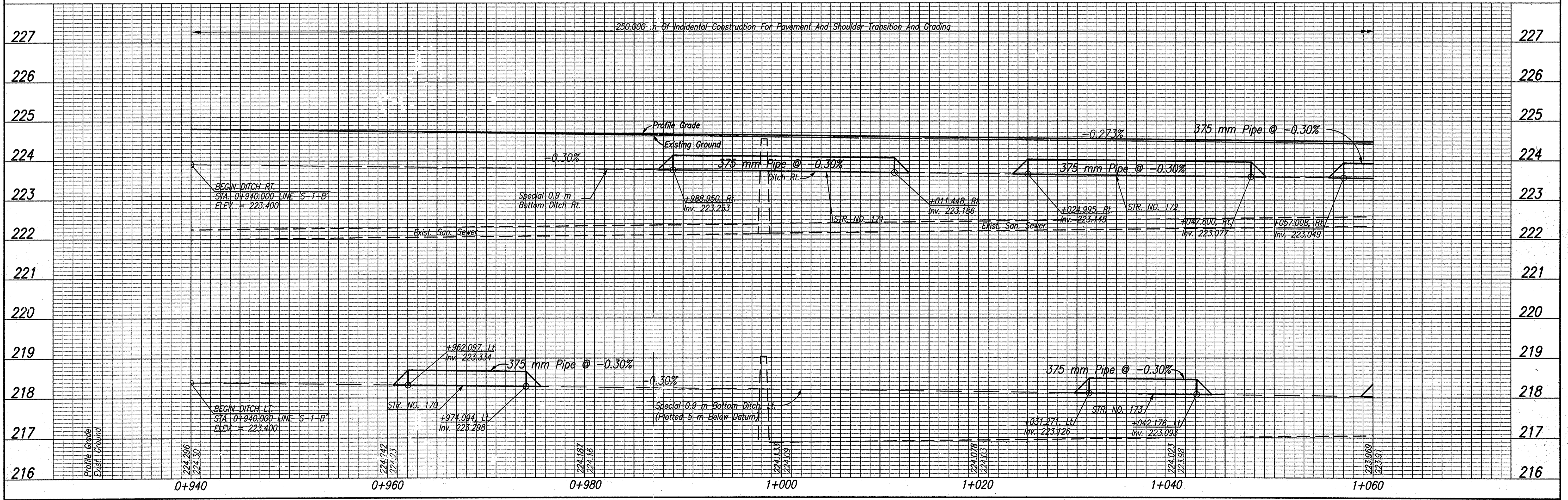
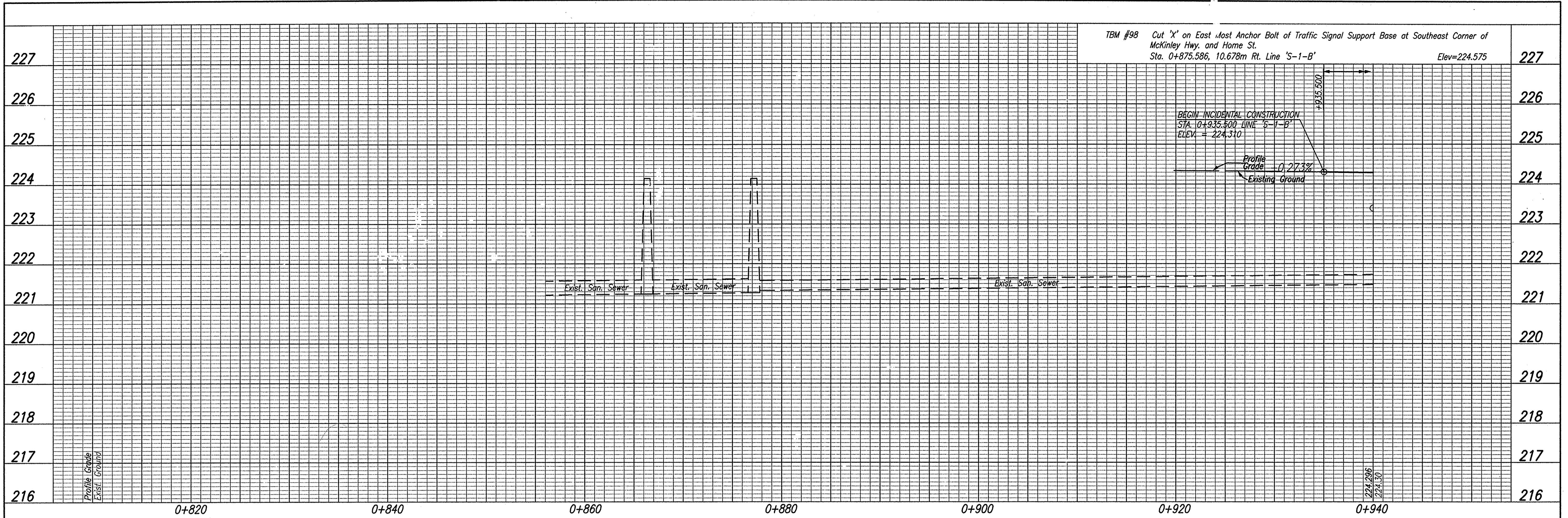
DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN LINE 'S-1-B'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	33 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Feb 28, 2006, 10:04am User ID: thl
 File: M:\p\0161\2218\ch\ang\S-Line Set\McKinley Hwy Set - Roadway\PRO1001.DWG Model Tab: xerox-24x36



HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
1:50	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	34 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



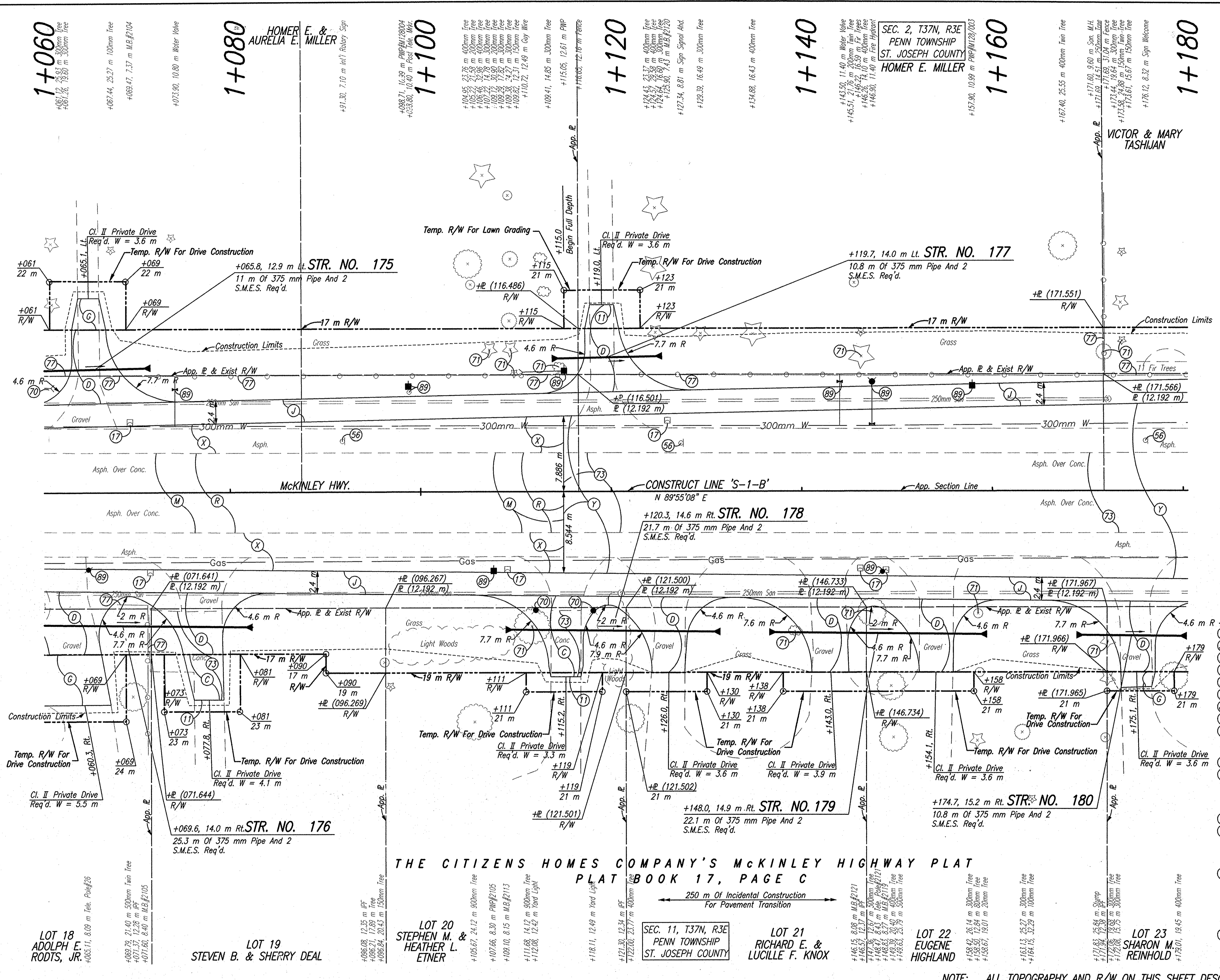
RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER: *B. K. Arterberry* z/2/06
 DATE: 2/2/06

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION

PROFILE
 LINE 'S-1-B'

Date: Mar 27, 2006, 3:59pm User ID: dlz
 File: H:\proj\01611218\cm\dwg\15-Line S-1-McKinley Hwy S-1.dwg Model File: version-24a-26



- LEGEND**
- (17) Mailbox, Relocate
 - (56) Remove Existing Sheet Sign And Supports
 - (70) Remove
 - (71) Tree Removal
 - (73) Pavement Removal
 - (77) Fence Removal
 - (89) Relocate (By Others)
 - (C) 150 mm Cement Concrete Pavement For Driveways
 - (D) HMA for Approaches, Type A, To Be: (90 Kg/m² HMA, Type A, Surface On 150 Kg/m² HMA, Type A, Intermediate)
 - (E) 150 mm Compacted Aggregate No. 73
 - (J) HMA for Shoulders, Type B, To Be: (90 Kg/m² HMA, Type B, Surface, On 180 Kg/m² HMA, Type B, Base), On 200 mm Compacted Aggregate, No. 53
 - (M) Surface Milling
 - (R) HMA For Wedge and Level, Type B, To Be: (90 kg/m² HMA, Type B, Surface, On Variable HMA, Type B, Intermediate) (Estimate 150 Kg/m²)
 - (X) HMA For Widening, Type B To Be: 90 kg/m² HMA Surface, Type B, 9.5 mm, On 150 kg/m² HMA Intermediate, Type B, 12.5 mm or 19.0 mm, On 225 kg/m² HMA Base, Type B, 25.0 mm, On 140 kg/m² HMA Intermediate, Type B, C19.0 mm, On 180 kg/m² HMA Base, Type B, 25.0 mm
 - (Y) 275 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)

THE CITIZENS HOMES COMPANY'S MCKINLEY HIGHWAY PLAT
 PLAT BOOK 17, PAGE C

SEC. 11, T37N, R3E PENN TOWNSHIP ST. JOSEPH COUNTY
 LOT 18 ADOLPH E. RODTS, JR.
 LOT 19 STEVEN B. & SHERRY DEAL
 LOT 20 STEPHEN M. & HEATHER L. ETNER
 LOT 21 RICHARD E. & LUCILLE F. KNOX
 LOT 22 EUGENE HIGHLAND
 LOT 23 SHARON M. REINHOLD

NOTE: ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-1-B' UNLESS OTHERWISE NOTED



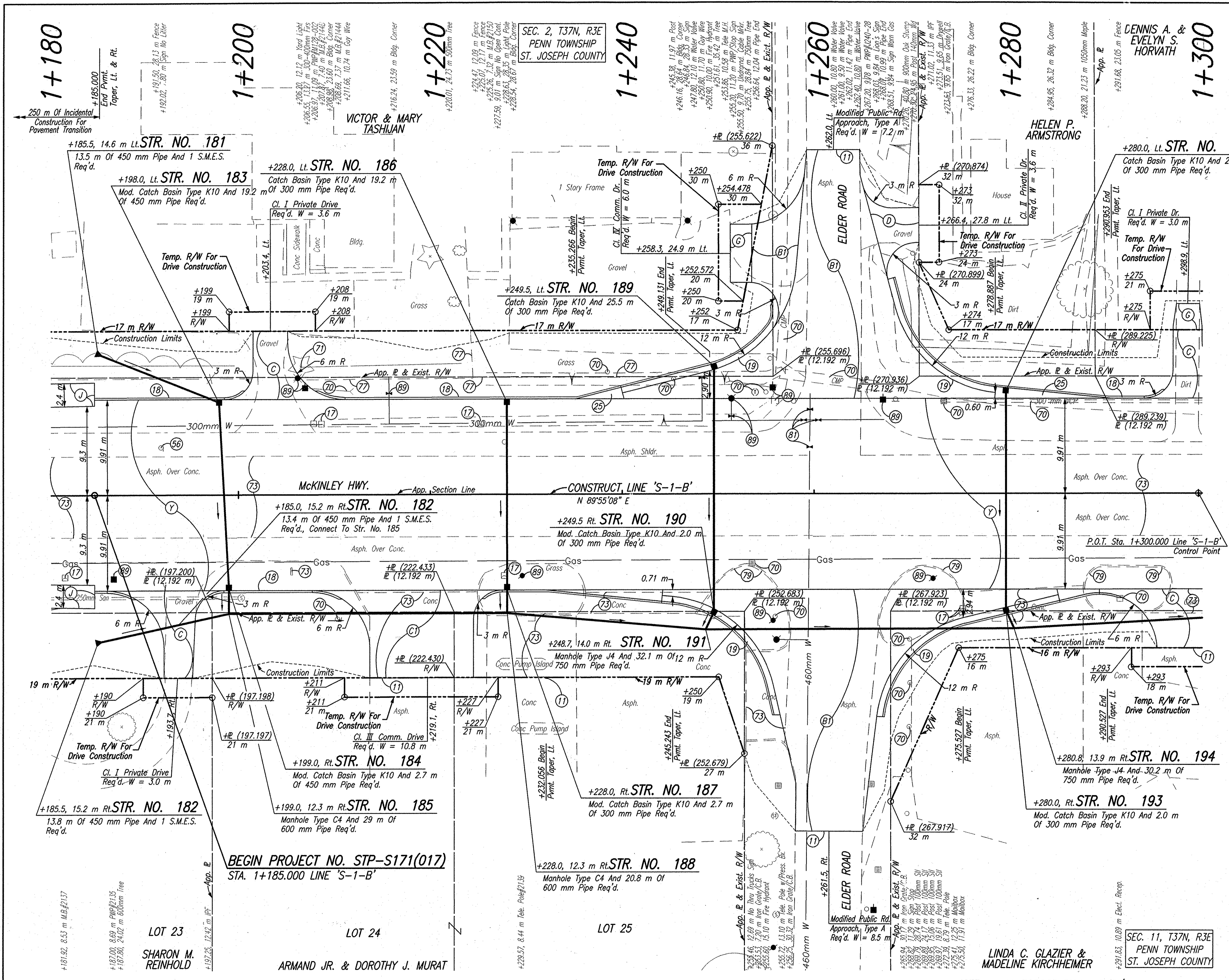
RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 3/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

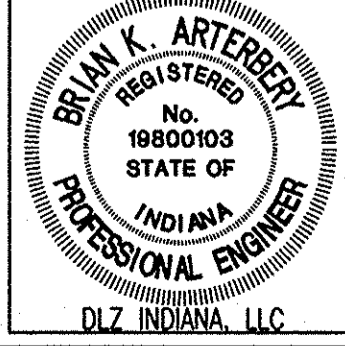
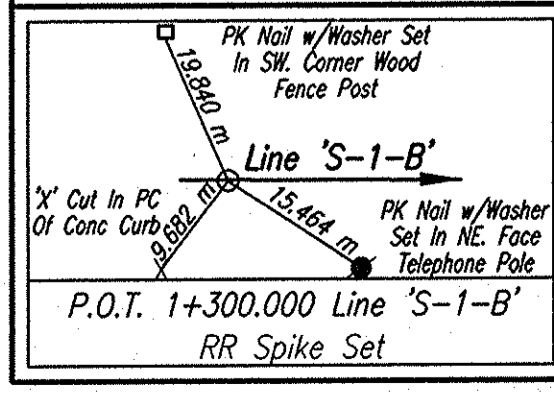
PLAN LINE 'S-1-B'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	35 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



- LEGEND**
- (1) Sawcut
 - (17) Mailbox, Relocate
 - (18) Curb, Integral, B, Concrete
 - (19) Curb and Gutter, B, Concrete
 - (25) Ear Construction, Type "B"
 - (56) Remove Existing Sheet Sign And Supports
 - (70) Remove
 - (71) Tree Removal
 - (73) Pavement Removal
 - (77) Fence Removal
 - (79) Curb Removal
 - (81) Adjust Valve To Grade
 - (89) Relocate (By Others)
 - (B1) HMA For Approaches, Type A, To Be: (90 kg/m² HMA Type A, Surface, On 200 mm Compacted Aggregate, No. 53, Base)
 - (C) 150 mm Cement Concrete Pavement For Driveways
 - (C1) 150 mm Cement Concrete Pavement For Driveways On 150 mm Compacted Aggregate, No. 53, Base
 - (D) HMA For Approaches, Type A, To Be: (90 kg/m² HMA, Type A, Surface On 150 kg/m² HMA, Type A, Intermediate)
 - (6) 150 mm Compacted Aggregate No. 53, Base
 - (J) HMA For Shoulders, Type B, To Be: (90 kg/m² HMA, Type B, Surface, On 180 kg/m² HMA, Type B, Base, On 200 mm Compacted Aggregate, No. 53)
 - (Y) 275 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)

Date: Mar 25, 2008, 7:50am, User: dlz_bortney, File: P:\proj\10161218\10161218.dwg, Plot: 10161218.dwg, Plot Date: 3/25/08, Plot Time: 7:50am, Plot User: dlz_bortney



RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	3/27/08	
DESIGNED:	ERW	DRAWN:	TH
CHECKED:	BKA	CHECKED:	ERW

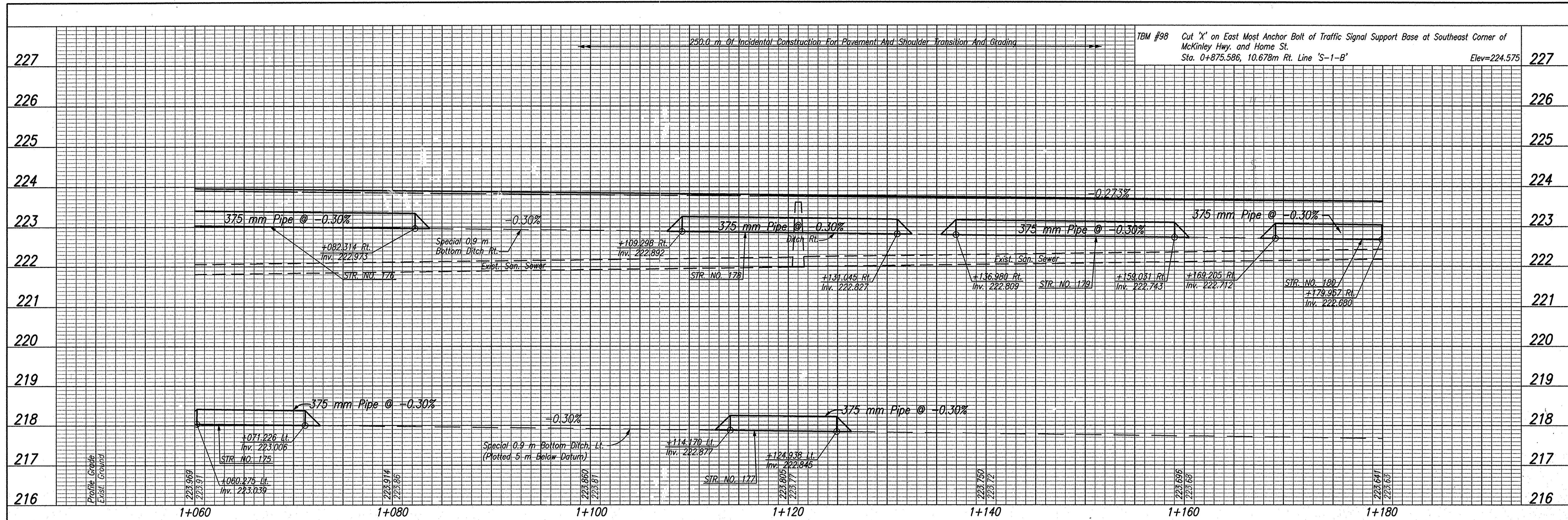
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN
LINE 'S-1-B'

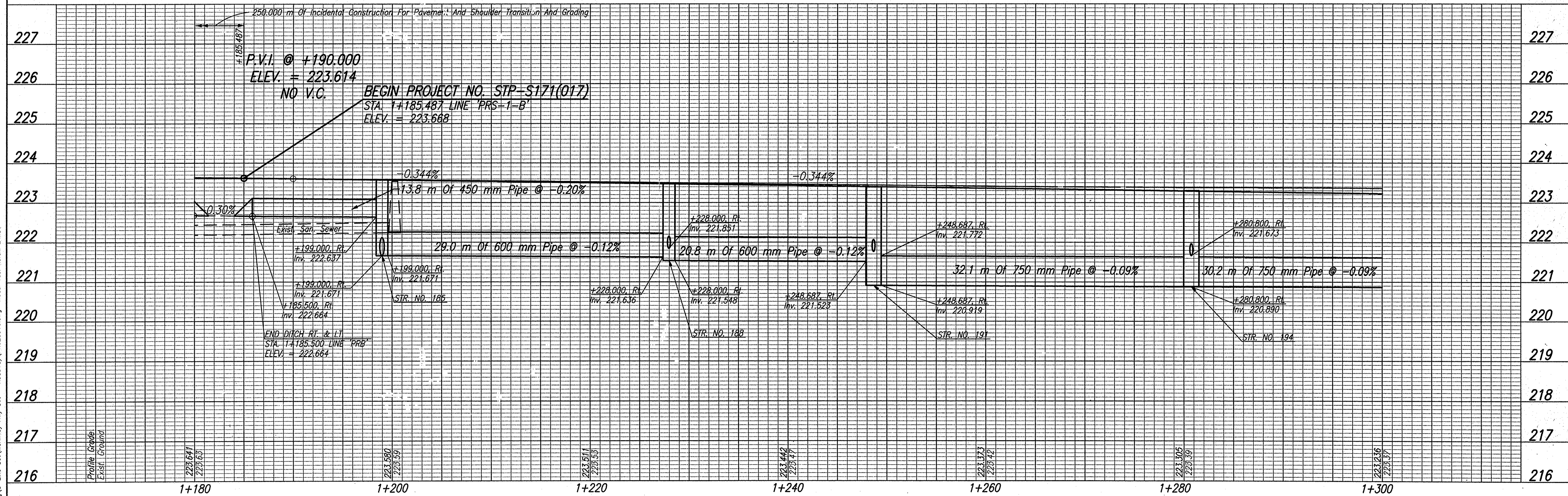
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1:200	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	36 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

NOTE: ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-1-B' UNLESS OTHERWISE NOTED

Date: Feb 28, 2006, 11:36am User ID: thill
 File: M:\proj\0161\2218\civil\dwg\S-Line Set\McKinley Hwy Set - Roadway\PROJ00010.dwg Model Tab: xerox-24x36



TBM #98 Cut 'X' on East Mast Anchor Bolt of Traffic Signal Support Base at Southeast Corner of McKinley Hwy. and Home St.
 Sta. 0+875.586, 10.678m Rt. Line 'S-1-B' Elev=224.575

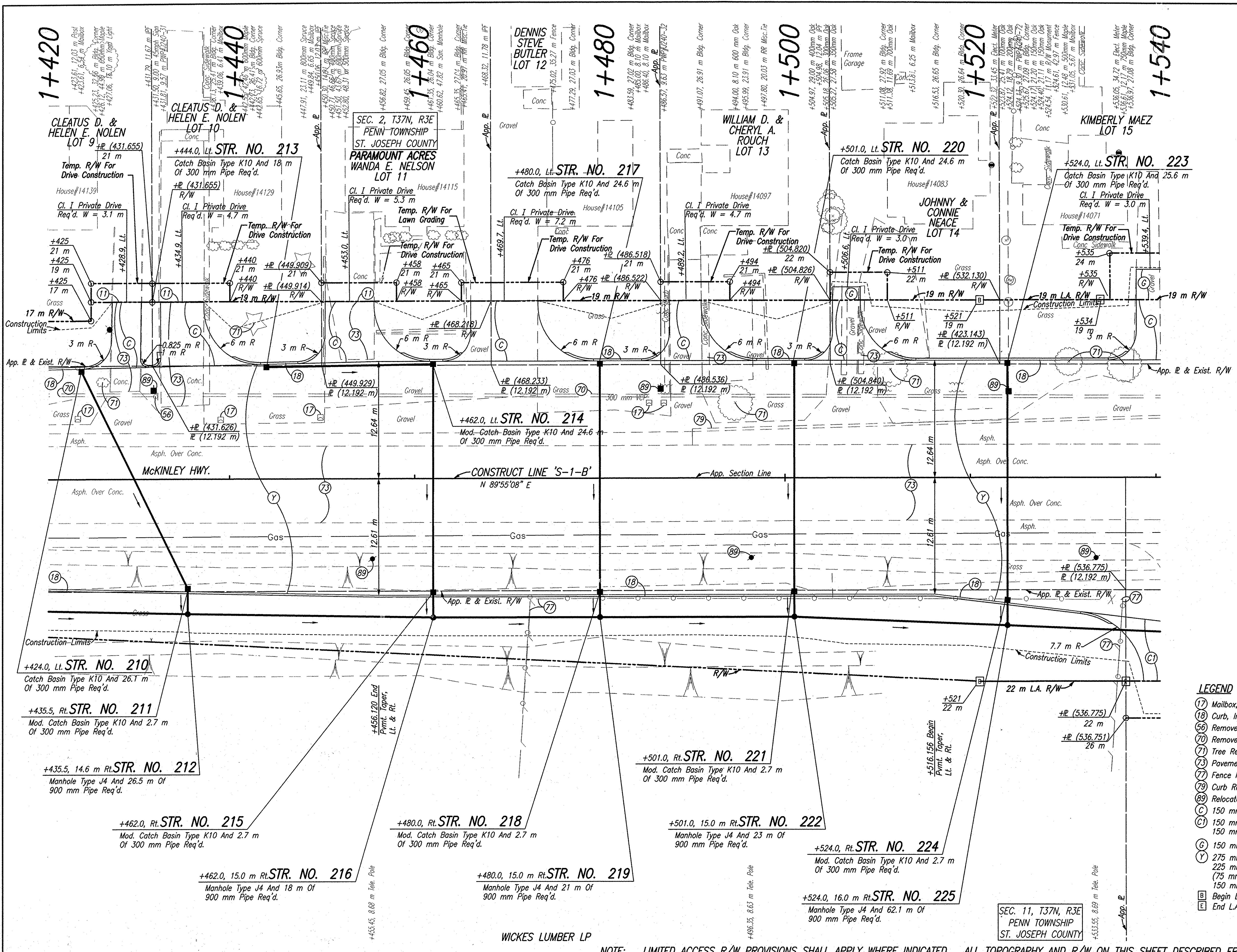


RECOMMENDED FOR APPROVAL *Brian K. Arterbery* 2/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 PROFILE LINE 'S-1-B'

HORIZONTAL SCALE 1:200	ROAD FILE
VERTICAL SCALE 1:50	DESIGNATION 0300259
SURVEY BOOK ELECTRONIC	SHEETS 37 of 119
CONTRACT R-28625	PROJECT STP-5171(017)

Date: Mar 27, 2006, 15:56pm User: DLZ File: P:\proj\101612128\101612128.dwg Scale: 1:1000 Plot: 101612128.dwg



- LEGEND**
- (17) Mailbox, Relocate
 - (18) Curb, Integral, B, Concrete
 - (56) Remove Existing Sheet Sign And Supports
 - (70) Remove
 - (71) Tree Removal
 - (73) Pavement Removal
 - (77) Fence Removal
 - (79) Curb Removal
 - (89) Relocate (By Others)
 - (C) 150 mm Cement Concrete Pavement For Driveways
 - (C1) 150 mm Cement Concrete Pavement For Driveways On 150 mm Compacted Aggregate, No. 53, Base
 - (G) 150 mm Compacted Aggregate No. 73
 - (Y) 275 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)
 - (B) Begin L.A. R/W
 - (E) End L.A. R/W

NOTE: LIMITED ACCESS R/W PROVISIONS SHALL APPLY WHERE INDICATED ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-1-B' UNLESS OTHERWISE NOTED



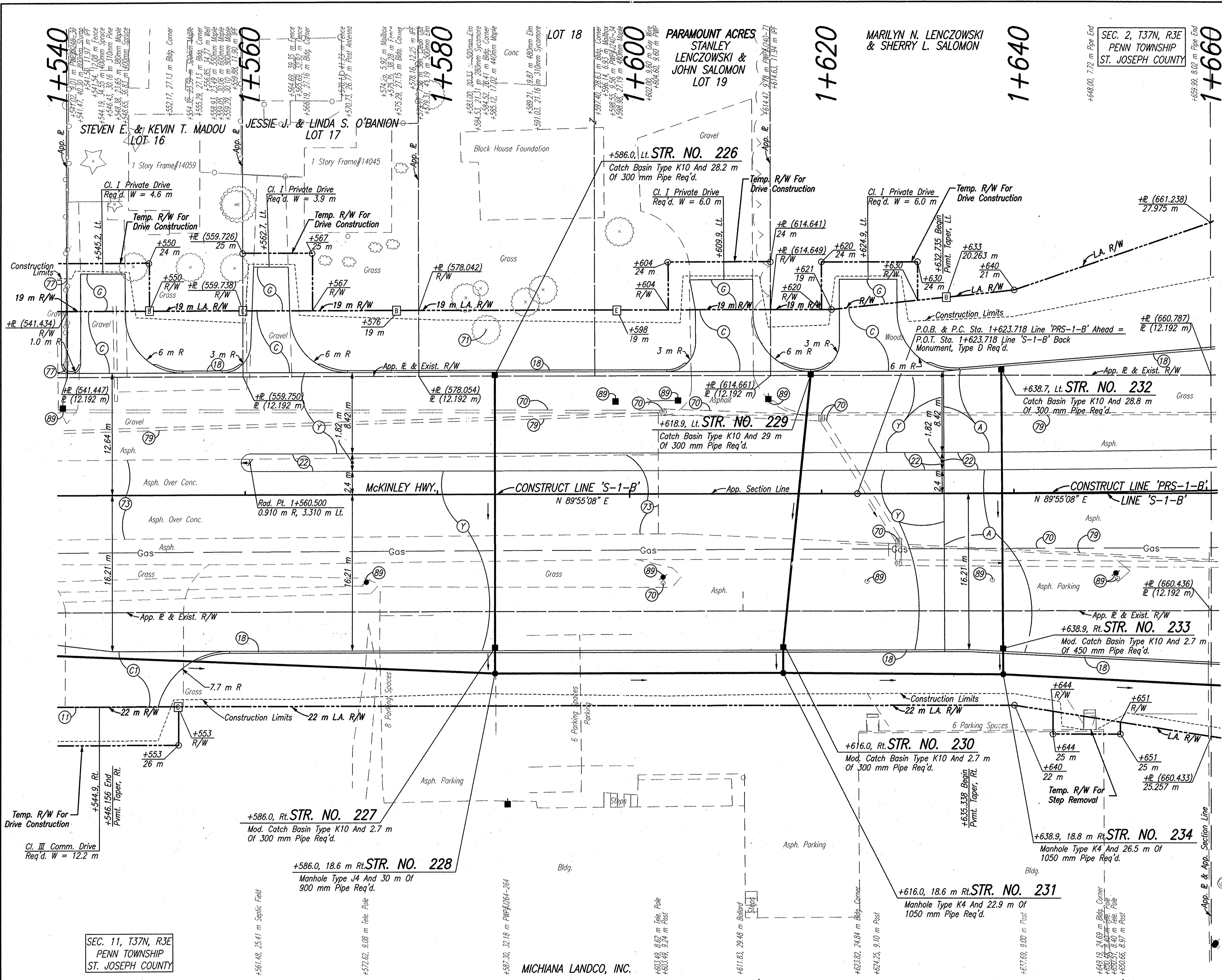
RECOMMENDED FOR APPROVAL	<i>B. K. Atty</i>	3/27/06
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN
LINE 'S-1-B'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	39 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: May 27, 2006, 1:35pm, User: J. Hill, Plot: H:\Users\JHILL\16192218\Roadway\REPO7010.DWG Model Tab: sncor-24526
 15 mm iron pin PK nail in N. face gyp/ole #1241-80
 NE corner fra med bldg (No curve run) SE COR OF SEC 2, T37N, R3E P.I. 1+660.439 Line 'S-1-B' PK nail w/washer found



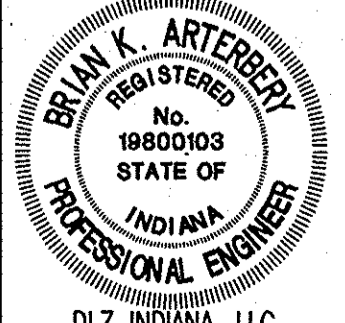
SEC. 11, T37N, R3E
 PENN TOWNSHIP
 ST. JOSEPH COUNTY

MICHIANA LANDCO, INC.

NOTE: LIMITED ACCESS R/W PROVISIONS SHALL APPLY WHERE INDICATED ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-1-B' UNLESS OTHERWISE NOTED

LEGEND

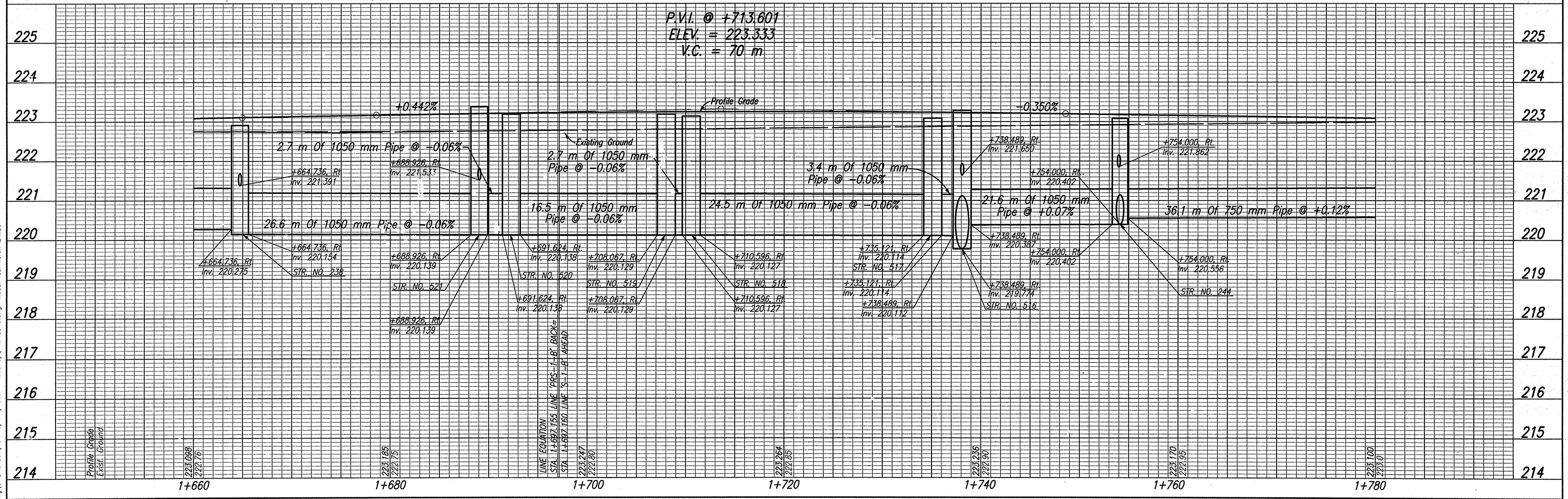
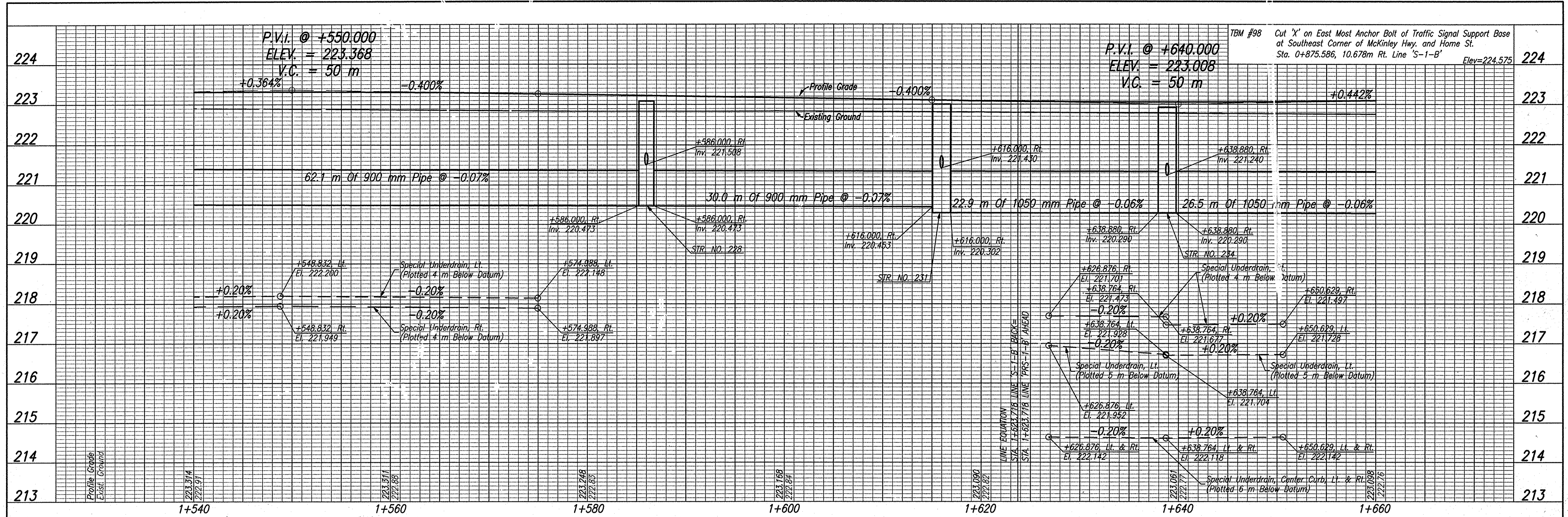
- (17) Mailbox, Relocate
- (18) Curb, Integral, B, Concrete
- (22) Concrete Center Curb, Type D
- (70) Remove
- (71) Tree Removal
- (73) Pavement Removal
- (77) Fence Removal
- (79) Curb Removal
- (89) Relocate (By Others)
- (A) 300 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Compacted Aggregate, No. 53, Base)
- (C) 150 mm Cement Concrete Pavement For Driveways
- (C1) 150 mm Cement Concrete Pavement For Driveways On 150 mm Compacted Aggregate, No. 53, Base
- (G) 150 mm Compacted Aggregate No. 73
- (Y) 275 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)
- [B] Begin L.A. R/W
- [E] End L.A. R/W



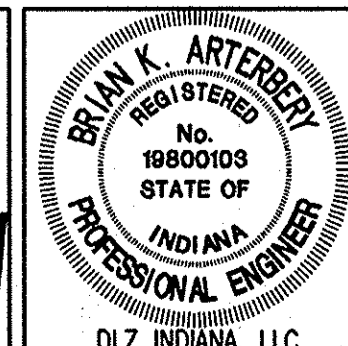
RECOMMENDED FOR APPROVAL: *B. K. Artberg* 3/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN
 LINE 'S-1-B' AND LINE 'PRS-1-B'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	41 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



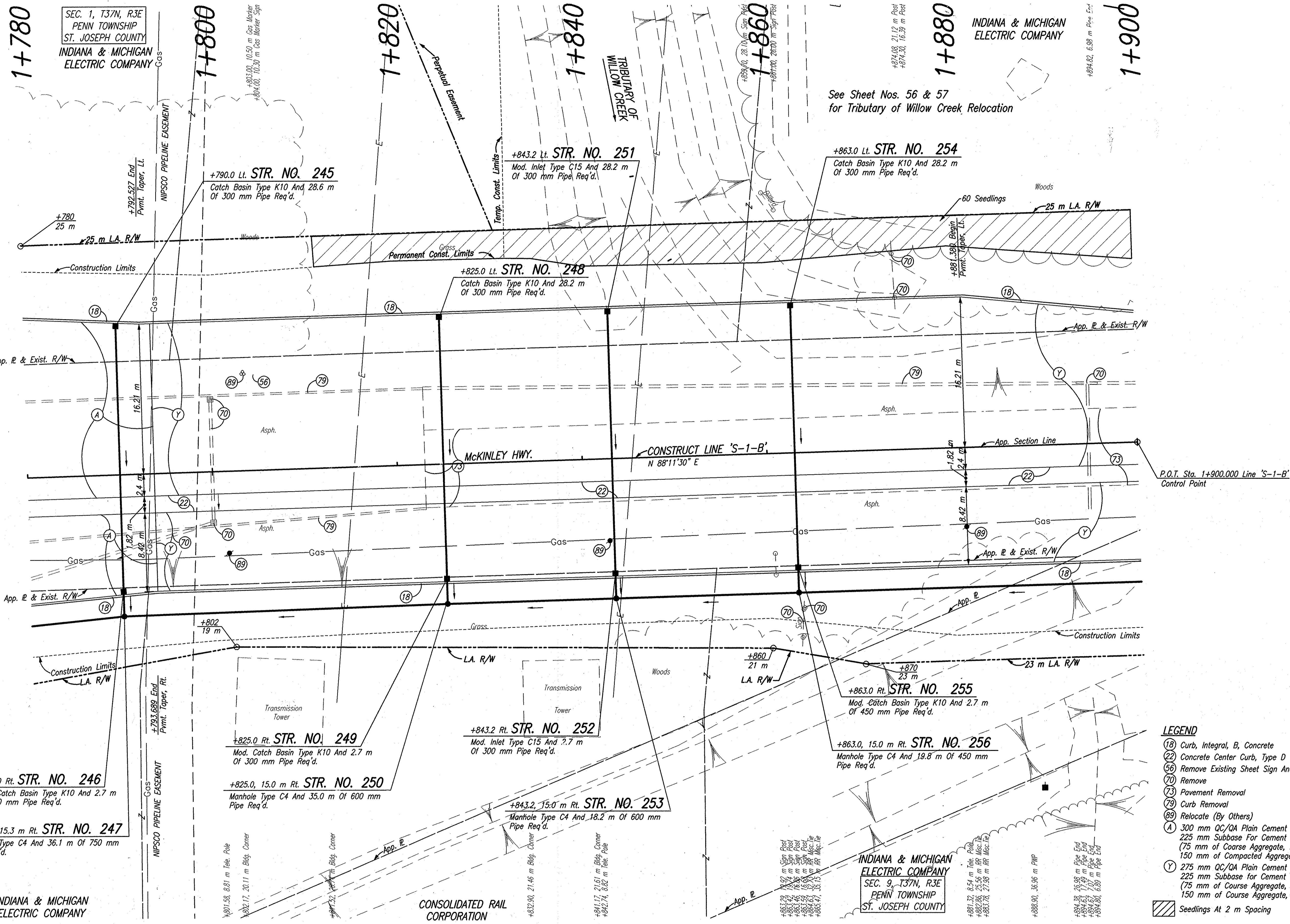
Date: Feb 28, 2006, 10:04am User ID: thl
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RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
PROFILE
LINE 'S-1-B' AND LINE 'PRS-1-B'

HORIZONTAL SCALE 1:200	ROAD FILE
VERTICAL SCALE 1:50	DESIGNATION 0300259
SURVEY BOOK ELECTRONIC	SHEETS 43 of 119
CONTRACT R-28625	PROJECT STP-5171(017)

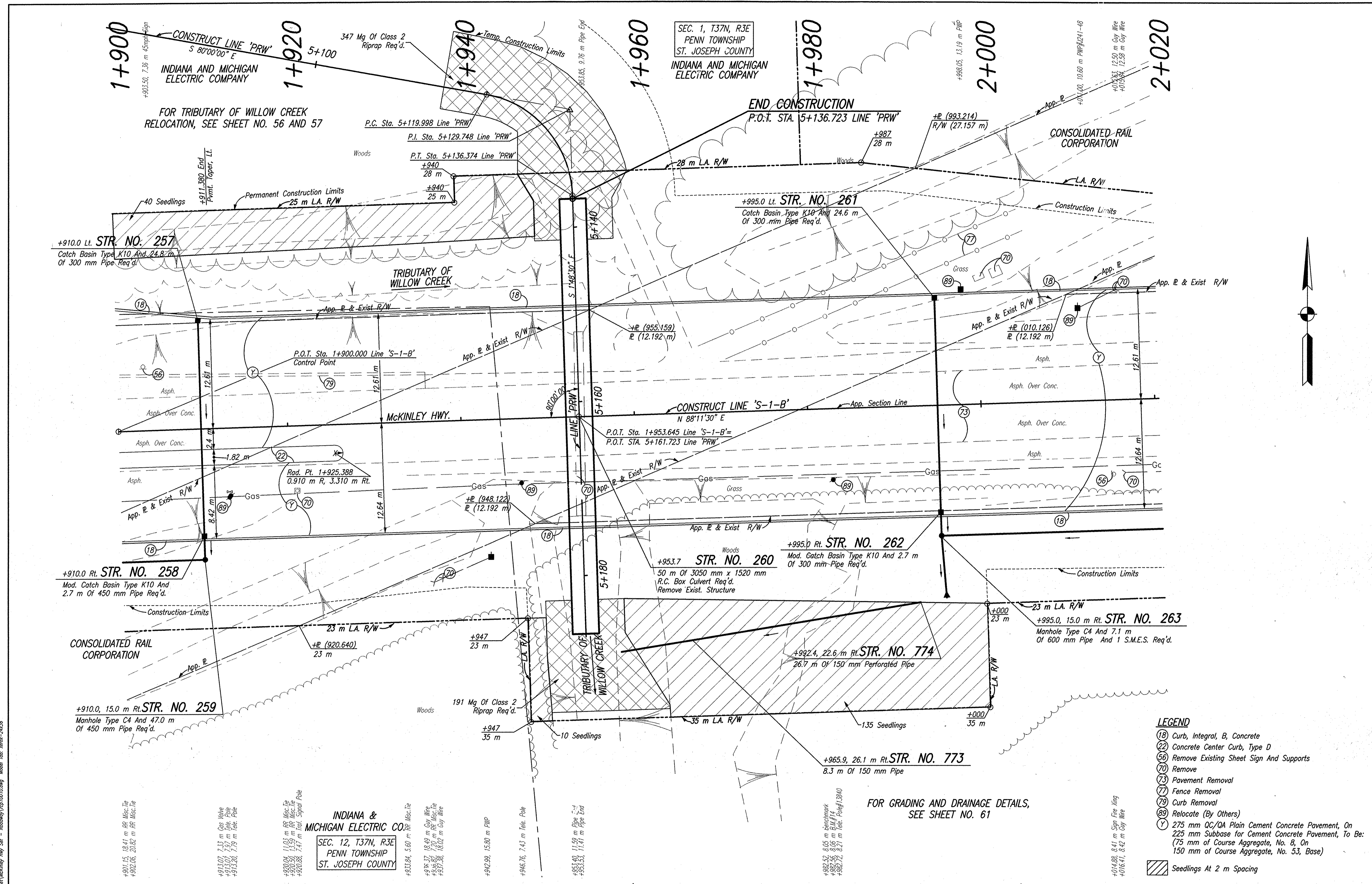


Date: Feb 28, 2006, 10:08am User: dlz
 File: M:\proj\0161\2118\civil\eng\15-Line_S-1-B.dwg Model: 15-mm-24x36

- LEGEND**
- (18) Curb, Integral, B, Concrete
 - (22) Concrete Center Curb, Type D
 - (56) Remove Existing Sheet Sign And Supports
 - (70) Remove
 - (73) Pavement Removal
 - (79) Curb Removal
 - (89) Relocate (By Others)
 - (A) 300 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Compacted Aggregate, No. 53, Base)
 - (Y) 275 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)
 - ▨ Seedlings At 2 m Spacing

LIMITED ACCESS R/W PROVISIONS SHELL APPLY WHERE INDICATED NOTE: ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-1-B' UNLESS OTHERWISE NOTED

		RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER	DATE	2/27/06
		DESIGNED: ERW	DRAWN: TH	CHECKED: BKA	CHECKED: ERW	INDIANA DEPARTMENT OF TRANSPORTATION PLAN LINE 'S-1-B'
		HORIZONTAL SCALE	ROAD FILE		DESIGNATION
		VERTICAL SCALE	0300259		SHEETS
		SURVEY BOOK	ELECTRONIC		44 of 119
		CONTRACT	PROJECT		R-28625
		R-28625	STP-5171(017)		



Date: Mar. 27, 2008, 1:50pm, User: B. K. Atty
 File: I:\proj\01611218\plan\eng\c-line_s-1-b.mxd Model: Job: mmm-242.98

+901.15, 18.41 m RR Misc. Tie
 +902.06, 20.82 m RR Misc. Tie
 +913.07, 2.33 m Gas Valve
 +913.20, 1.70 m Tele. Pole
 +913.20, 1.70 m Tele. Pole
 +920.04, 11.01 m RR Misc. Tie
 +920.50, 13.50 m RR Misc. Tie
 +920.26, 7.47 m Tral. Signal Pole
 INDIANA & MICHIGAN ELECTRIC CO.
 SEC. 12, T37N, R3E
 PENN TOWNSHIP
 ST. JOSEPH COUNTY
 +933.84, 5.60 m RR Misc. Tie
 +936.37, 18.49 m Guy Wire
 +939.82, 7.20 m RR Misc. Tie
 +937.36, 18.02 m Guy Wire
 +942.99, 15.80 m PWP
 +946.76, 7.43 m Tele. Pole
 +953.40, 11.50 m Pipe End
 +953.53, 11.41 m Pipe End
 +982.52, 6.05 m Benchmark
 +982.56, 8.06 m S.M.F.I.
 +982.72, 8.21 m Tele. Pole#13040
 +914.88, 8.41 m Sign Fire Wing
 +916.41, 8.42 m Guy Wire

LIMITED ACCESS R/W PROVISIONS SHALL APPLY WHERE INDICATED. NOTE: ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-1-B' UNLESS OTHERWISE NOTED

FOR GRADING AND DRAINAGE DETAILS, SEE SHEET NO. 61

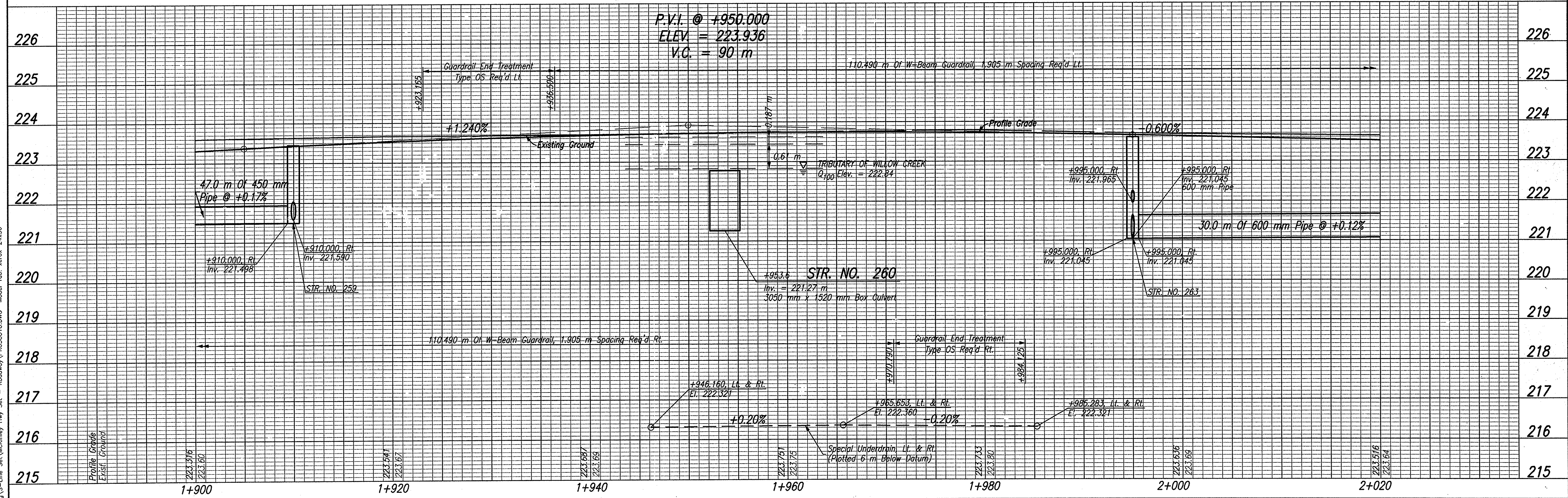
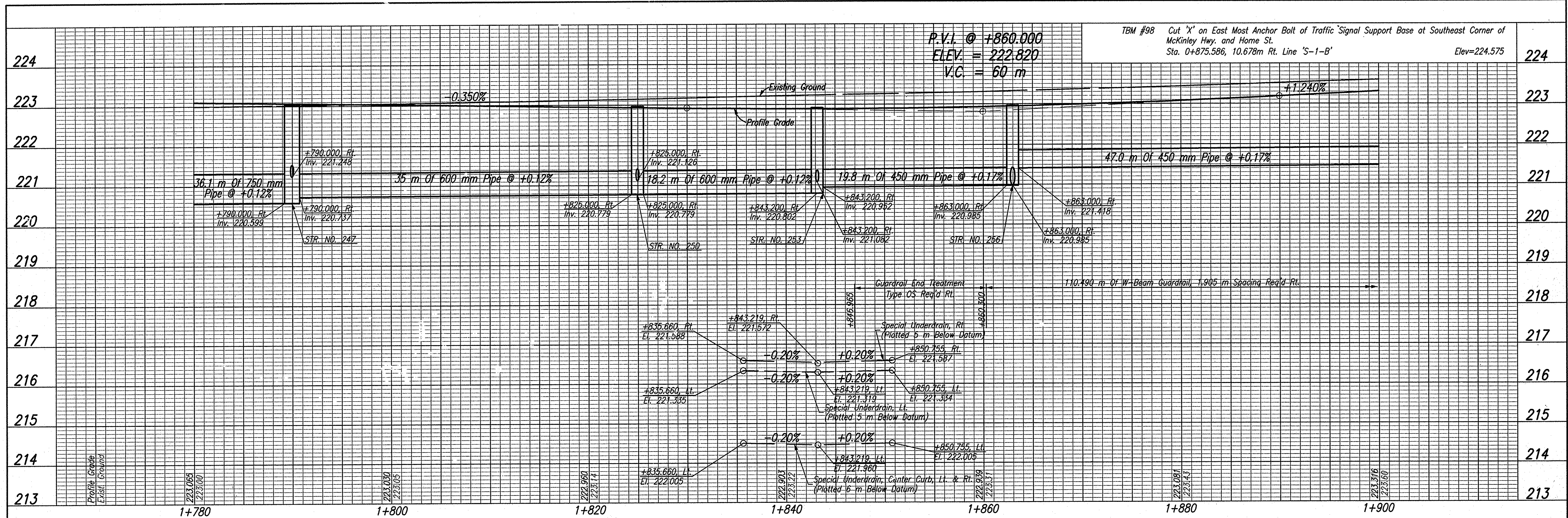
- LEGEND**
- (18) Curb, Integral, B, Concrete
 - (22) Concrete Center Curb, Type D
 - (56) Remove Existing Sheet Sign And Supports
 - (70) Remove
 - (73) Pavement Removal
 - (77) Fence Removal
 - (79) Curb Removal
 - (89) Relocate (By Others)
 - (Y) 275 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)
- Seedlings At 2 m Spacing



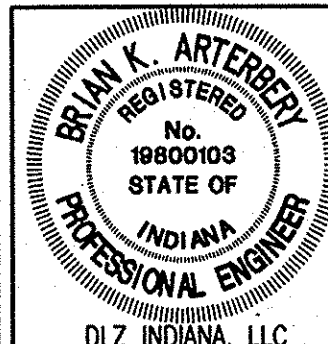
RECOMMENDED FOR APPROVAL: *B. K. Atty* 3/27/08
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 PLAN LINE 'S-1-B'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	45 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



Date: Feb 28, 2006, 10:05am User ID: thill
 File: M:\p05\0161\2218\ch\ang\S-Line Set\McKinley Hwy Set - Roadway\FR05D10.DWG Model Tab: xerox-24x36



RECOMMENDED FOR APPROVAL: *B.K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
PROFILE LINE 'S-1-B'

HORIZONTAL SCALE 1:200	ROAD FILE
VERTICAL SCALE 1:50	DESIGNATION 0300259
SURVEY BOOK	SHEETS
ELECTRONIC	46 of 119
CONTRACT R-28625	PROJECT STP-5171(017)

2+140

SEC. 1, T37N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY

2+160

2+180

US 20 CENTRE
PARTNERSHIP

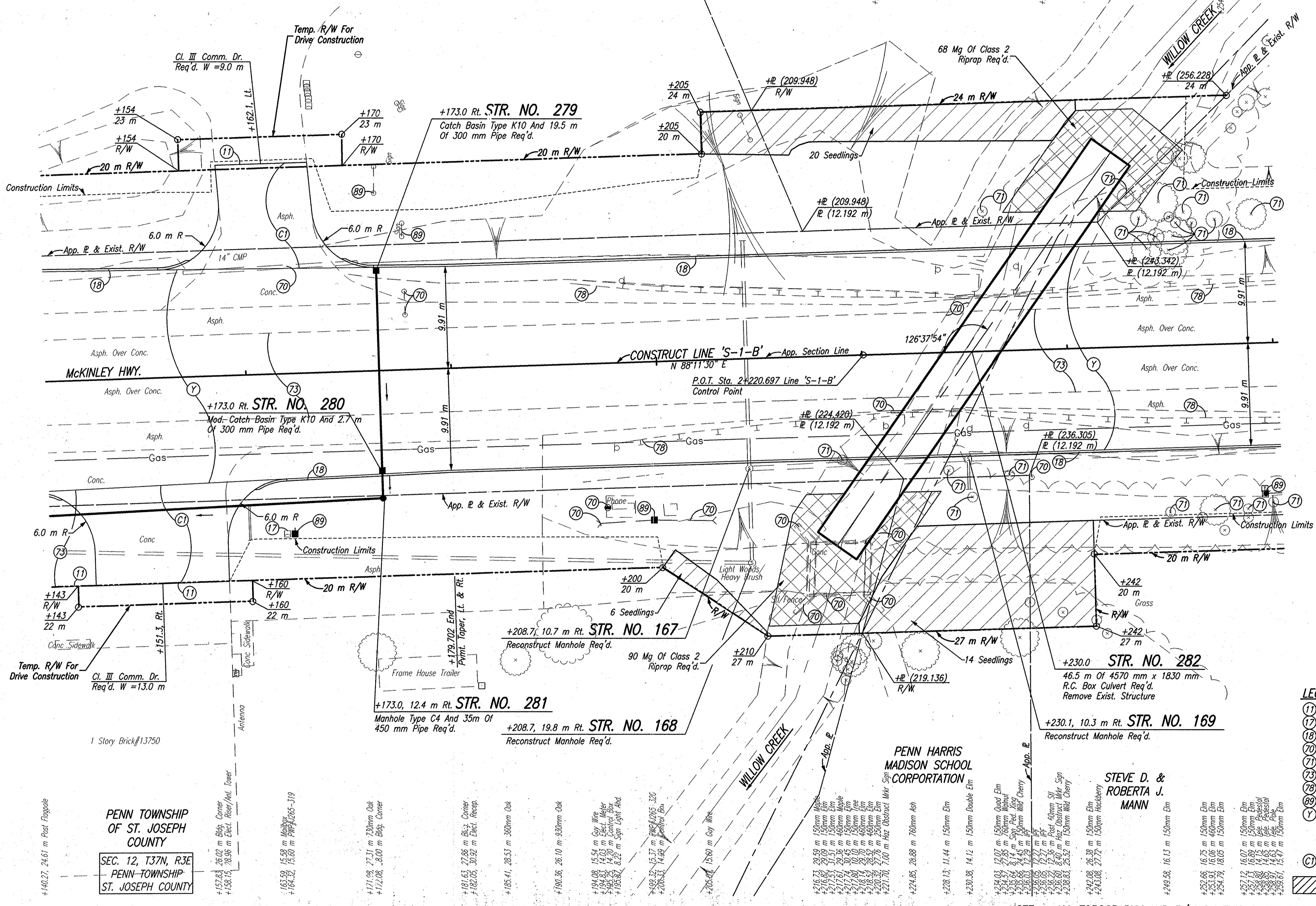
2+200

2+220

RAINTREE
PROPERTIES

2+240

2+260



LEGEND

- (1) Sawcut
- (17) Mailbox, Relocate
- (18) Curb, Integral, B, Concrete
- (70) Remove
- (71) Tree Removal
- (73) Pavement Removal
- (78) Guardrail Removal
- (89) Relocate (By Others)
- Y 275 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)
- (C) 150 mm Cement Concrete Pavement For Driveways On 150 mm Compacted Aggregate, No. 53, Base
- Seedlings At 2 m Spacing

NOTE: ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-1-B' UNLESS OTHERWISE NOTED

Date: Feb. 28, 2006, 10:00am User ID: BKA
File: M:\proj\016112218\civil\map\US-Line-S1-McKinley Hwy S1 - Roadway\map\2010.dwg Model Tool: xrow-24x26

PENN TOWNSHIP
OF ST. JOSEPH
COUNTY
SEC. 12, T37N, R3E
PENN-TOWNSHIP
ST. JOSEPH COUNTY



RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/21/06
DESIGN ENGINEER DATE

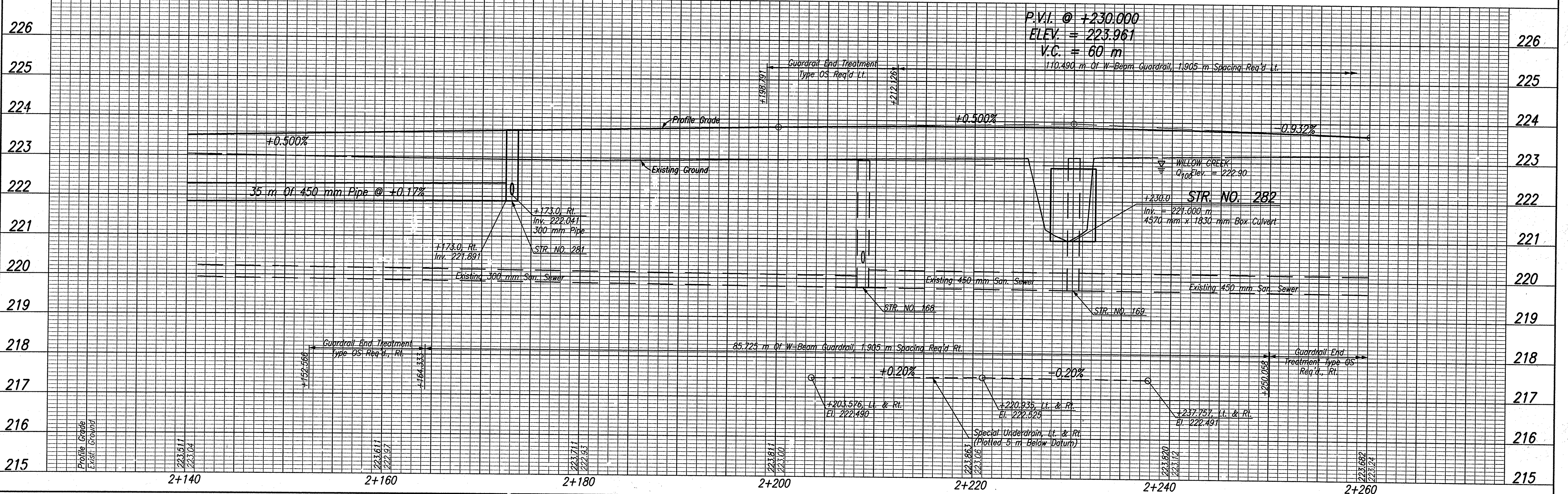
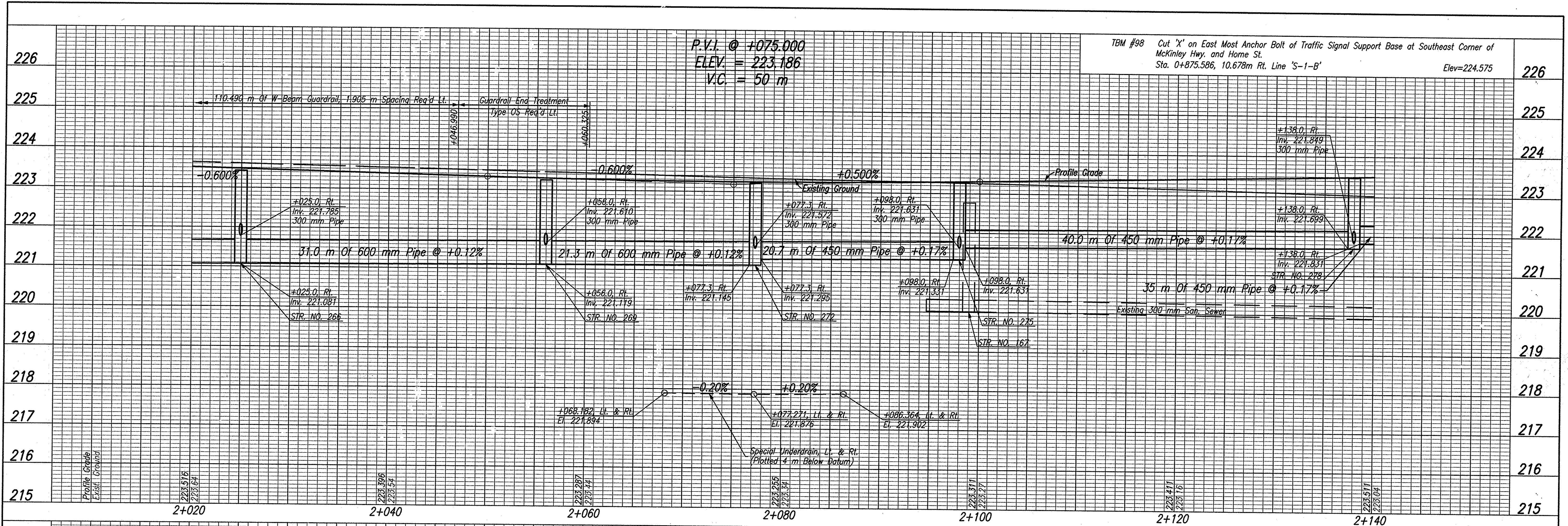
DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN
LINE 'S-1-B'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	48 of 119
CONTRACT	PROJECT
R-28625	STP-517(017)

Date: Feb 28, 2006, 10:05am User ID: ihill
 File: M:\proj\0161\2218\civil\dwg\5-Line Set\McKinley Hwy Set - Roadway\PROJ00010.DWG Model Tab: sww-24-36



RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/21/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
PROFILE LINE 'S-1-B'

HORIZONTAL SCALE 1:200	ROAD FILE
VERTICAL SCALE 1:50	DESIGNATION 0300259
SURVEY BOOK	SHEETS 49 of 119
ELECTRONIC CONTRACT R-28625	PROJECT SIP-5171(017)

11+040 INDIANA AND MICHIGAN ELECTRIC COMPANY

11+060

11+080

11+100

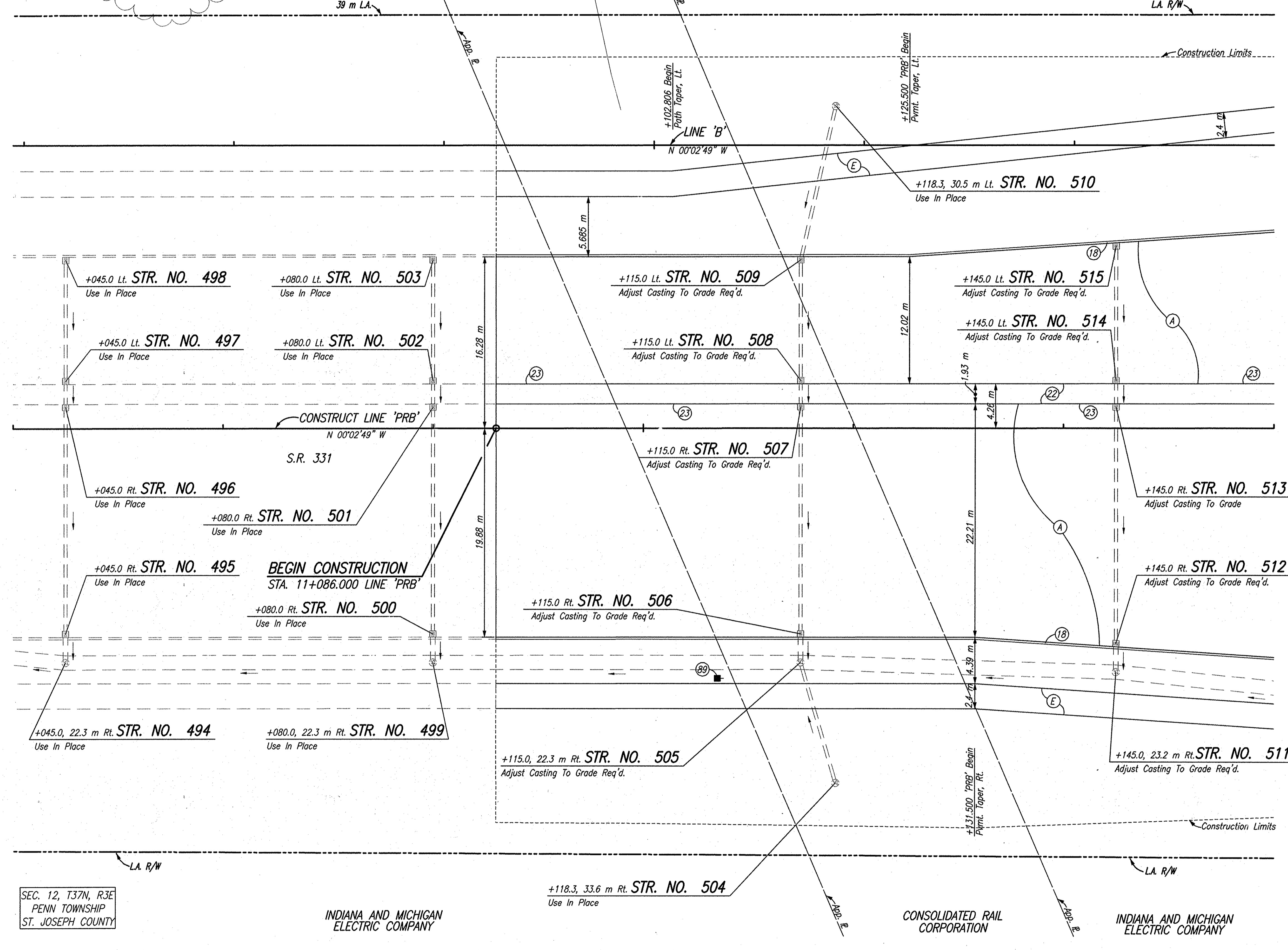
11+120

11+140

11+160

CONSOLIDATED RAIL CORPORATION

SEC. 12, T37N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY
INDIANA AND MICHIGAN ELECTRIC COMPANY



SEC. 12, T37N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY

INDIANA AND MICHIGAN ELECTRIC COMPANY

CONSOLIDATED RAIL CORPORATION

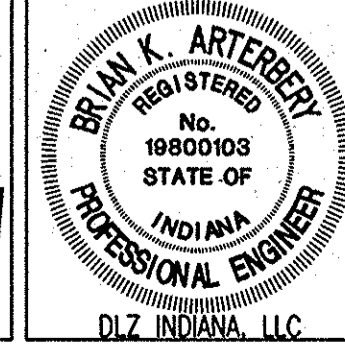
INDIANA AND MICHIGAN ELECTRIC COMPANY

LEGEND

- (18) Curb, Integral, B, Concrete
- (22) Concrete Center Curb, Type D
- (23) Remove Existing Concrete Center Curb
- (A) 300 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Compacted Aggregate, No. 53, Base)
- (E) Sidewalk, Concrete, 100 mm

NOTE: LIMITED ACCESS R/W PROVISIONS SHALL APPLY WHERE INDICATED ALL TOPOGRAPHY ON THIS SHEET DESCRIBED FROM LINE 'B' UNLESS OTHERWISE NOTED ALL R/W ON THIS SHEET DESCRIBED FROM LINE 'PRB' UNLESS OTHERWISE NOTED

Date: Mar 23, 2006 9:05am User: JD: All File: M:\proj\01611218\ch01.dwg [S:\Use Set\Michigan Hwy Set\Roadway\RC011102.DWG Model Tool: xref-24.26



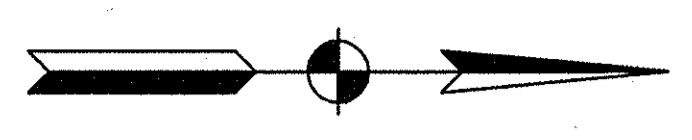
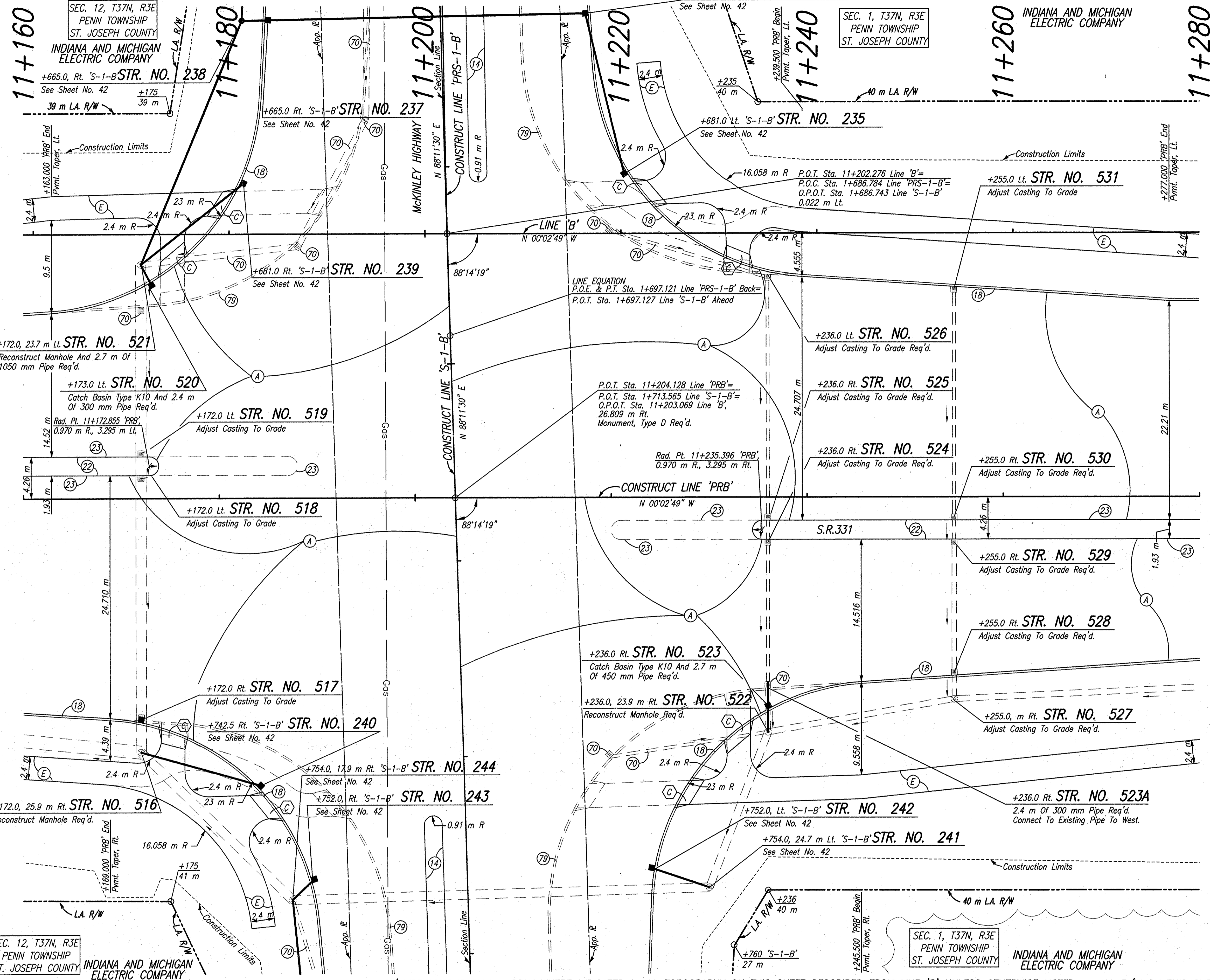
RECOMMENDED FOR APPROVAL *B. K. Atty* 3/27/06
DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN LINE 'PRB'

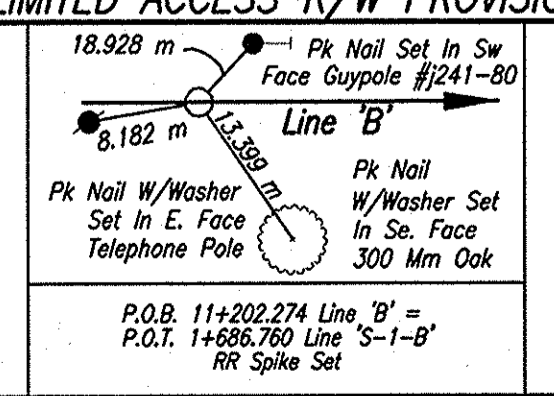
HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	9900300, 9103705
SURVEY BOOK	SHEETS
ELECTRONIC	52 of 119
CONTRACT	PROJECT
R-28625	NH-750(003)



Date: Mar. 27, 2006, 3:35pm User: B. K. Artberg
 File: R:\09\1071\1218\1218.dwg Plot: C:\Users\B. K. Artberg\Desktop\1218.dwg Plot Date: 3/27/06

BM 15 is 5 cm x 5 cm chisled sq in concrete base of N.W. leg of high tension tower #14 @ Sta 11+179.682, 81.614 m Rt Line 'B' El. 222.530

NOTE: LIMITED ACCESS R/W PROVISIONS SHALL APPLY WHERE INDICATED ALL TOPOGRAPHY ON THIS SHEET DESCRIBED FROM LINE 'B' UNLESS OTHERWISE NOTED ALL R/W ON THIS SHEET DESCRIBED FROM LINE 'PRB' UNLESS OTHERWISE NOTED



RECOMMENDED FOR APPROVAL	<i>B. K. Artberg</i>	3/27/06
DESIGNED:	ERW	DRAWN:
CHECKED:	BKA	CHECKED:
		TH
		ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 PLAN LINE 'PRB'

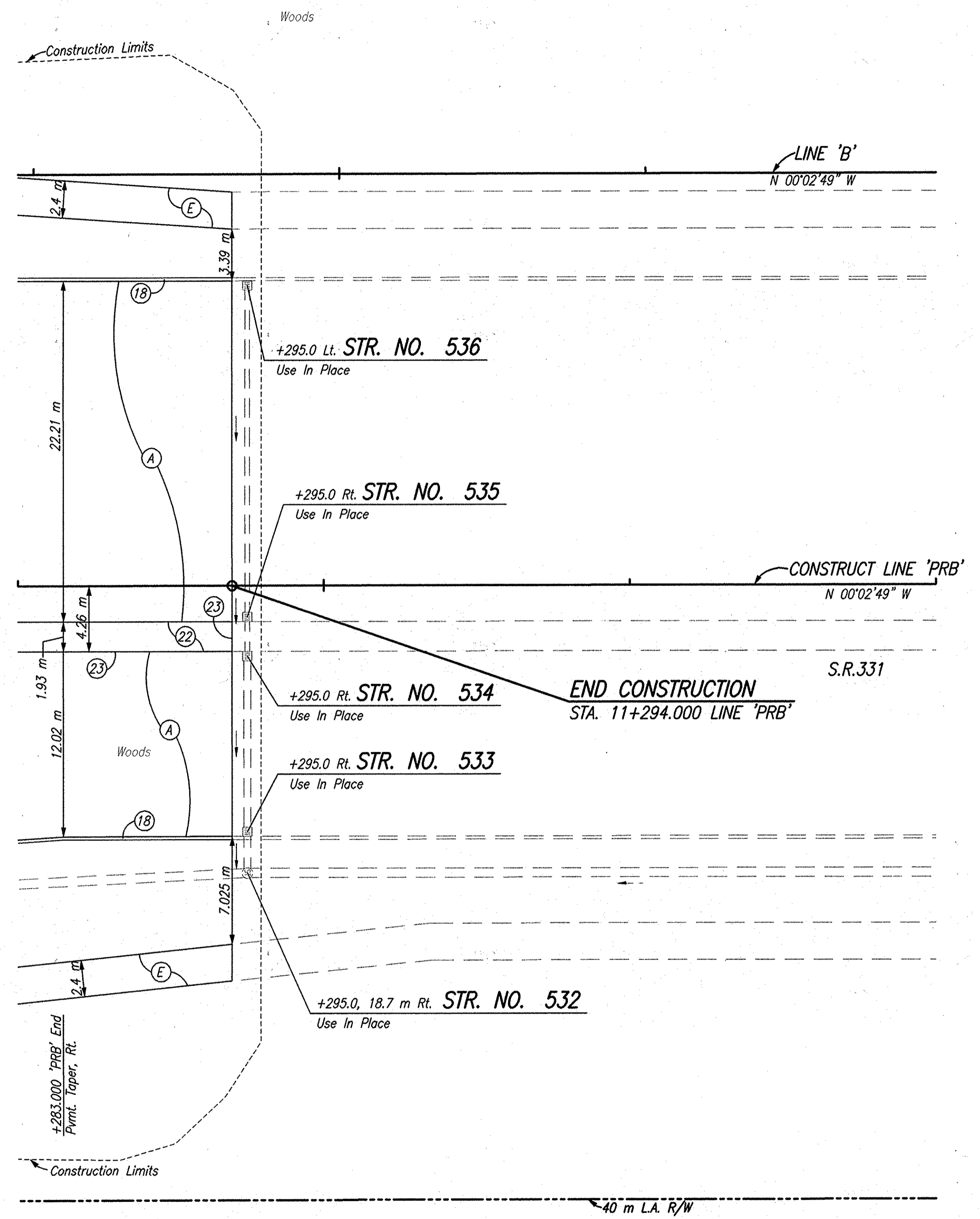
HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	9900300, 9103705
SURVEY BOOK	SHEETS
ELECTRONIC	53 of 119
CONTRACT	PROJECT
	NH-750(003)

- LEGEND**
- (14) Concrete Center Curb, For Detail, See Sheet No.
 - (18) Curb, Integral, B, Concrete
 - (22) Concrete Center Curb, Type D
 - (23) Remove Existing Concrete Center Curb
 - (70) Remove
 - (73) Pavement Removal
 - (79) Curb Removal
 - (89) Relocate (By Others)
 - (A) 300 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Compacted Aggregate, No. 53, Base)
 - (C) Modified Curb Ramp, Type 'C'
 - (E) Sidewalk, Concrete, 100 mm

11+280 11+300 11+320 11+340

INDIANA AND MICHIGAN ELECTRIC COMPANY

40 m L.A. R/W



SEC. 1, T37N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY

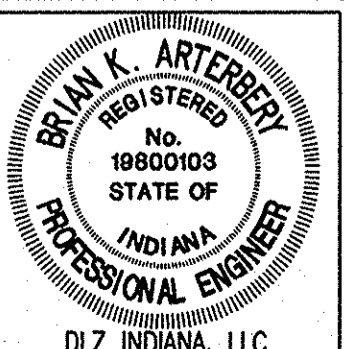
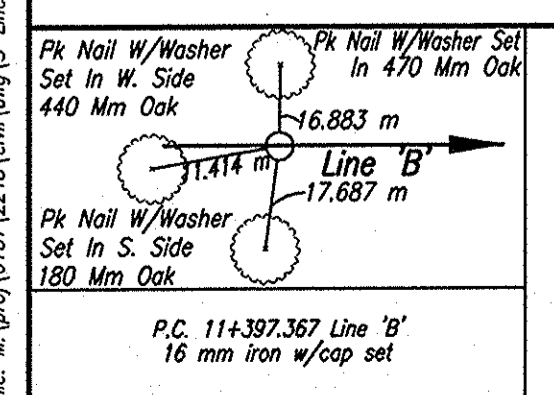
INDIANA AND MICHIGAN ELECTRIC COMPANY

LEGEND

- (B) Curb, Integral, B, Concrete
- (C) Concrete Center Curb, Type D
- (D) Remove Existing Concrete Center Curb
- (A) 300 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Compacted Aggregate, No. 53, Base)
- (E) Sidewalk, Concrete, 100 mm

NOTE: LIMITED ACCESS R/W PROVISIONS SHALL APPLY WHERE INDICATED ALL TOPOGRAPHY ON THIS SHEET DESCRIBED FROM LINE 'B' UNLESS OTHERWISE NOTED ALL R/W ON THIS SHEET DESCRIBED FROM LINE 'PRB' UNLESS OTHERWISE NOTED

Order: Mar 21, 2006, 9:03am User: ID: 488 File: A:\proj\106512\2181\15-Line Set\Michigan Hwy Set - Roadway\PCP1100.DWG Model Tab: swwp-24c.35



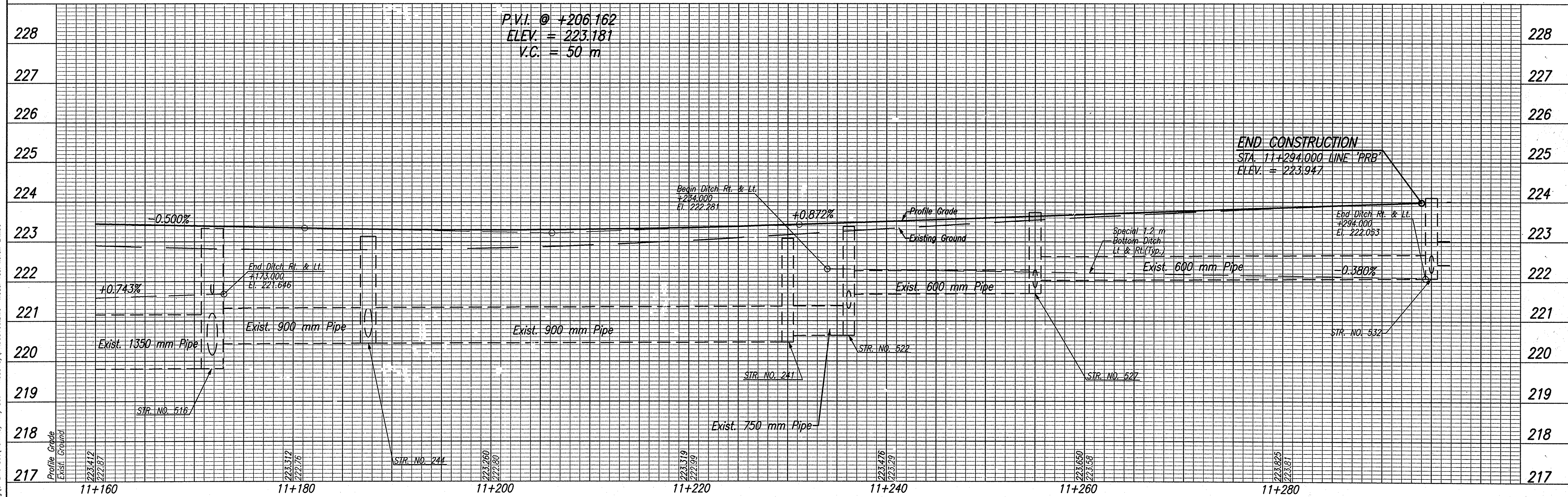
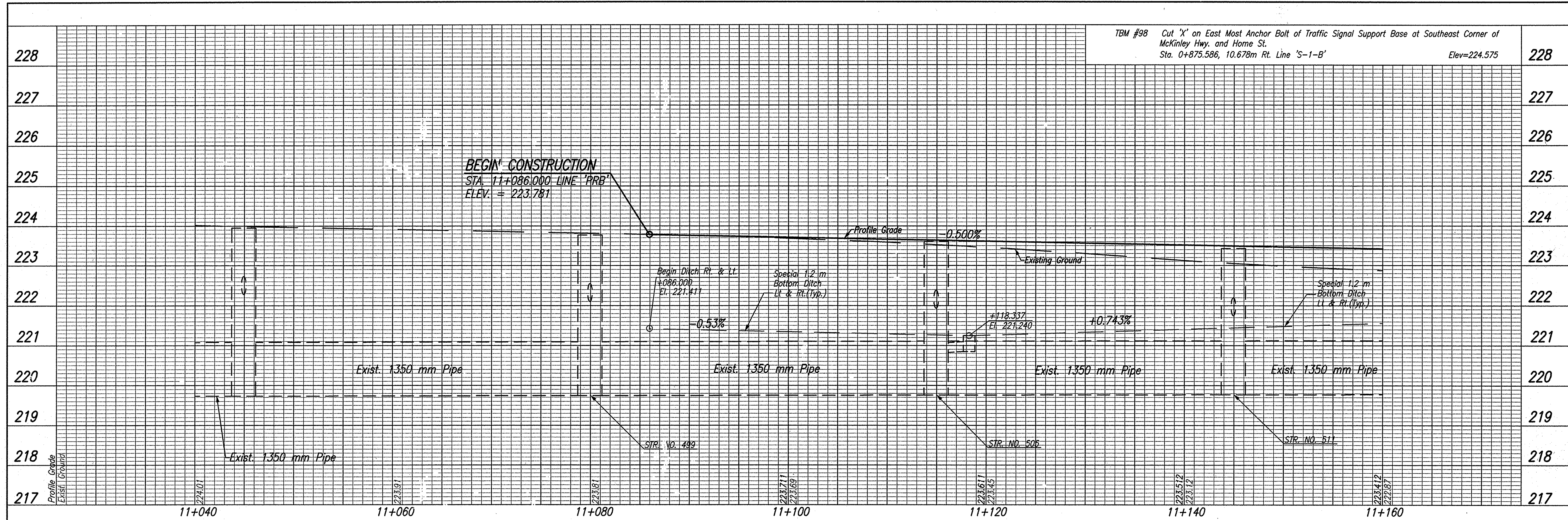
RECOMMENDED FOR APPROVAL	<i>B. K. Artbery</i>	3/27/06
DESIGNED:	ERW	DATE
DRAWN:	TH	
CHECKED:	BKA	ERW

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN LINE 'PRB'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	9900300, 9103705
SURVEY BOOK	SHEETS
ELECTRONIC	54 of 119
CONTRACT	PROJECT
R-28625	NH-750(003)

Date: Feb 28, 2006, 10:05am User ID: thl
 File: M:\proj\0161\2218\ch\ang\LS-Line Set\McKinley Hwy Set - Roadway\PR080100.DWG Model Tab: xerox-24x36



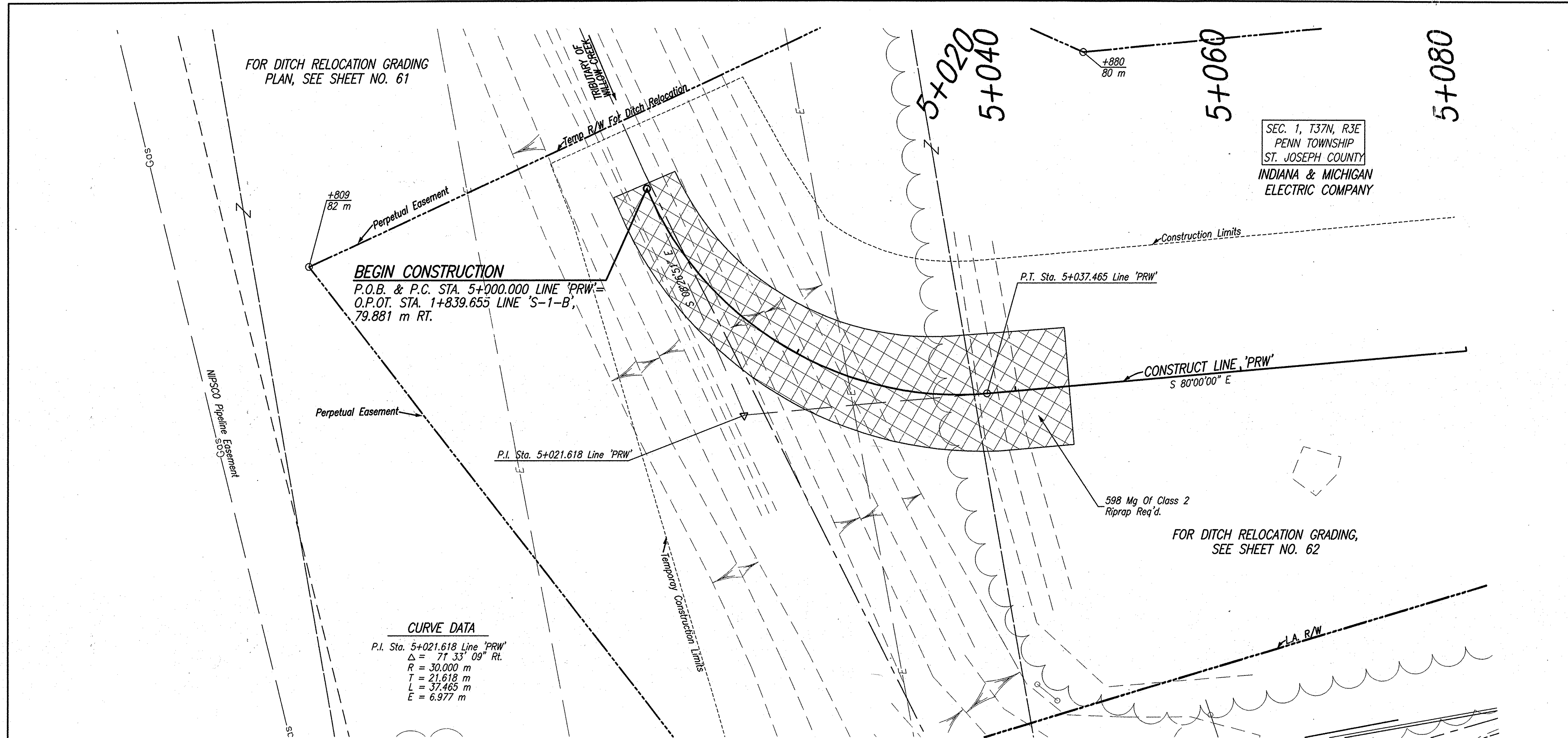
TBM #98 Cut 'X' on East Most Anchor Bolt of Traffic Signal Support Base at Southeast Corner of McKinley Hwy. and Home St.
 Sta. 0+875.586, 10.678m Rt. Line 'S-1-B' Elev=224.575



RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/21/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
PROFILE LINE 'PRB'

HORIZONTAL SCALE 1:200	ROAD FILE
VERTICAL SCALE 1:50	DESIGNATION 0300259
SURVEY BOOK ELECTRONIC	SHEETS 55 of 119
CONTRACT R-28625	PROJECT STP-5171(017)



FOR DITCH RELOCATION GRADING
PLAN, SEE SHEET NO. 61

SEC. 1, T37N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY
INDIANA & MICHIGAN
ELECTRIC COMPANY

BEGIN CONSTRUCTION
P.O.B. & P.C. STA. 5+000.000 LINE 'PRW'=
O.P.O.T. STA. 1+839.655 LINE 'S-1-B',
79.881 m RT.

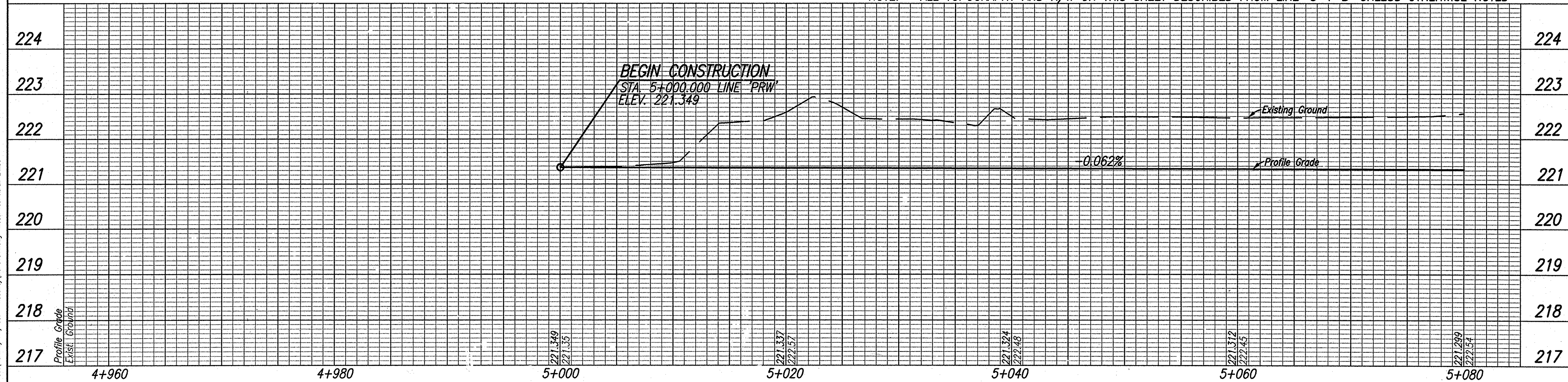
CURVE DATA
P.I. Sta. 5+021.618 Line 'PRW'
Δ = 71° 33' 09" RT.
R = 30.000 m
T = 21.618 m
L = 37.465 m
E = 6.977 m

CONSTRUCT LINE 'PRW'
S 80°00'00" E

598 Mg Of Class 2
Riprap Req'd.

FOR DITCH RELOCATION GRADING,
SEE SHEET NO. 62

NOTE: ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-1-B' UNLESS OTHERWISE NOTED



Date: Feb. 28, 2006, 10:05am User: D. Hill
File: M:\proj\0161\2218\plan\prw\prw-26a.dwg Model: Tab: area-26a.dwg



RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 2/22/06
DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN LINE 'PRW'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
1:50	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	56 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

5+080

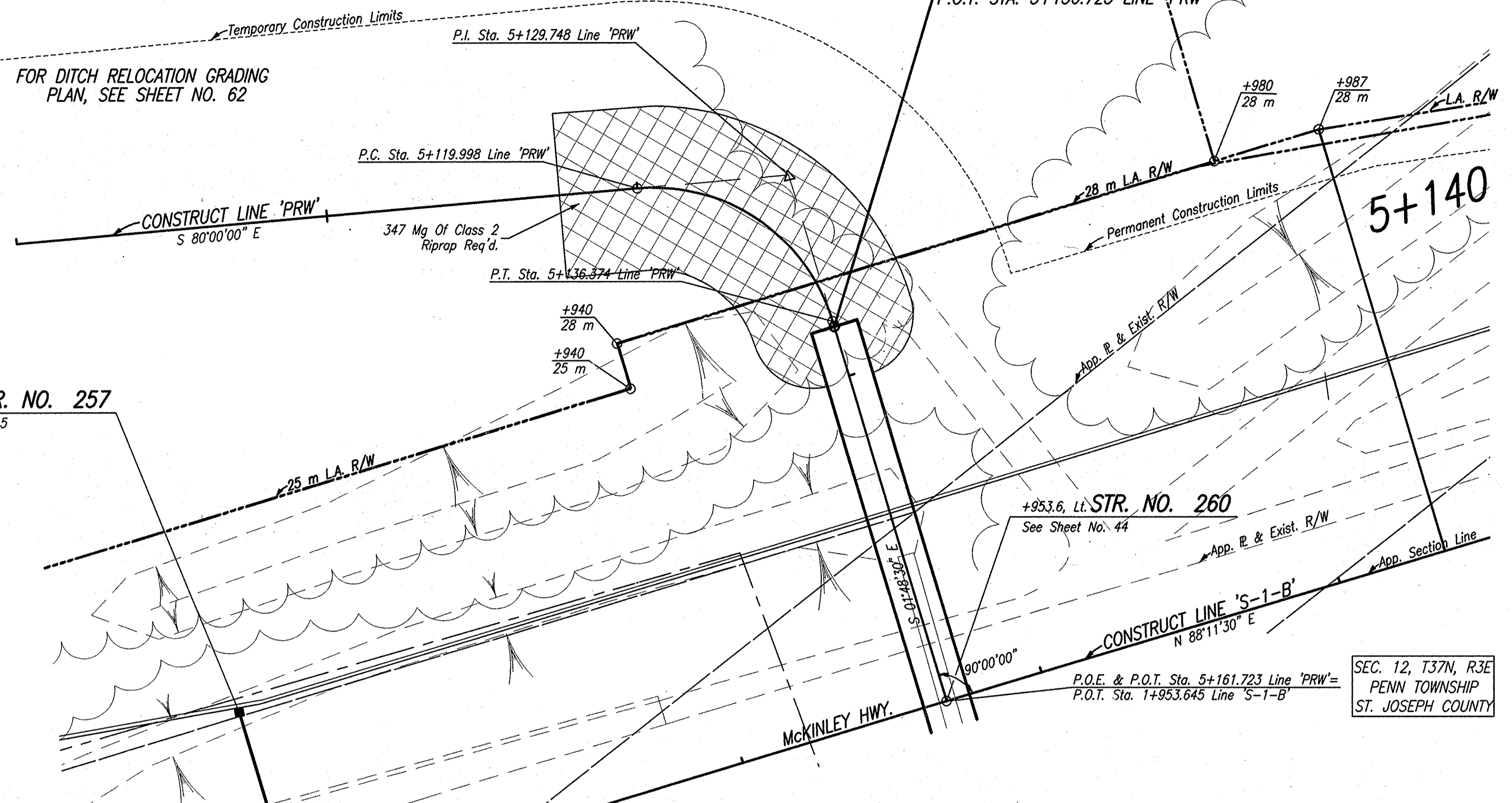
5+100

5+120

5+140

SEC. 1, T37N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY
INDIANA & MICHIGAN
ELECTRIC COMPANY

CURVE DATA
P.I. Sta. 5+129.748 Line 'PRW'
 $\Delta = 78^{\circ} 11' 30''$ Lt.
R = 12,000 m
T = 9,751 m
L = 16,376 m
E = 3,462 m

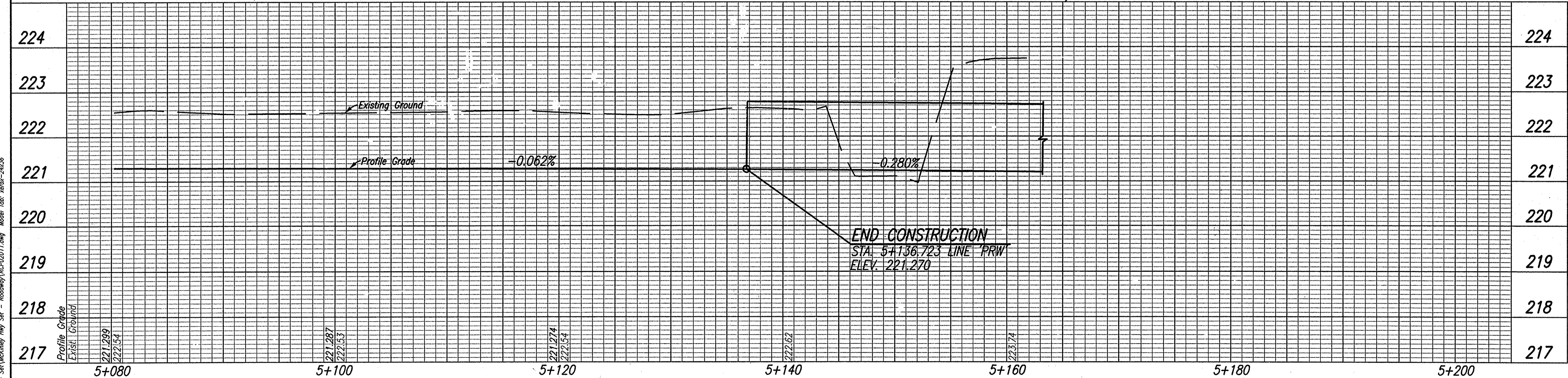


+910, Lt. STR. NO. 257
See Sheet No. 45

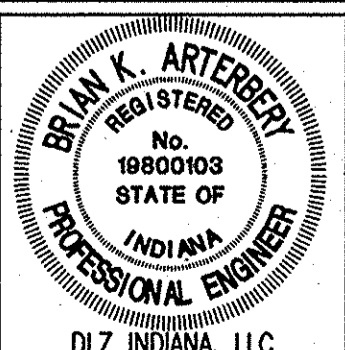
+953.6, Lt. STR. NO. 260
See Sheet No. 44

SEC. 12, T37N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY

NOTE: ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-1-B' UNLESS OTHERWISE NOTED



Plot: 04_28_2008_10:05am User: B. K. Artberg
File: H:\proj\101112218\101112218.dwg | User: B. K. Artberg | Plot: 04_28_2008_10:05am Model: Plot: 04_28_2008_10:05am



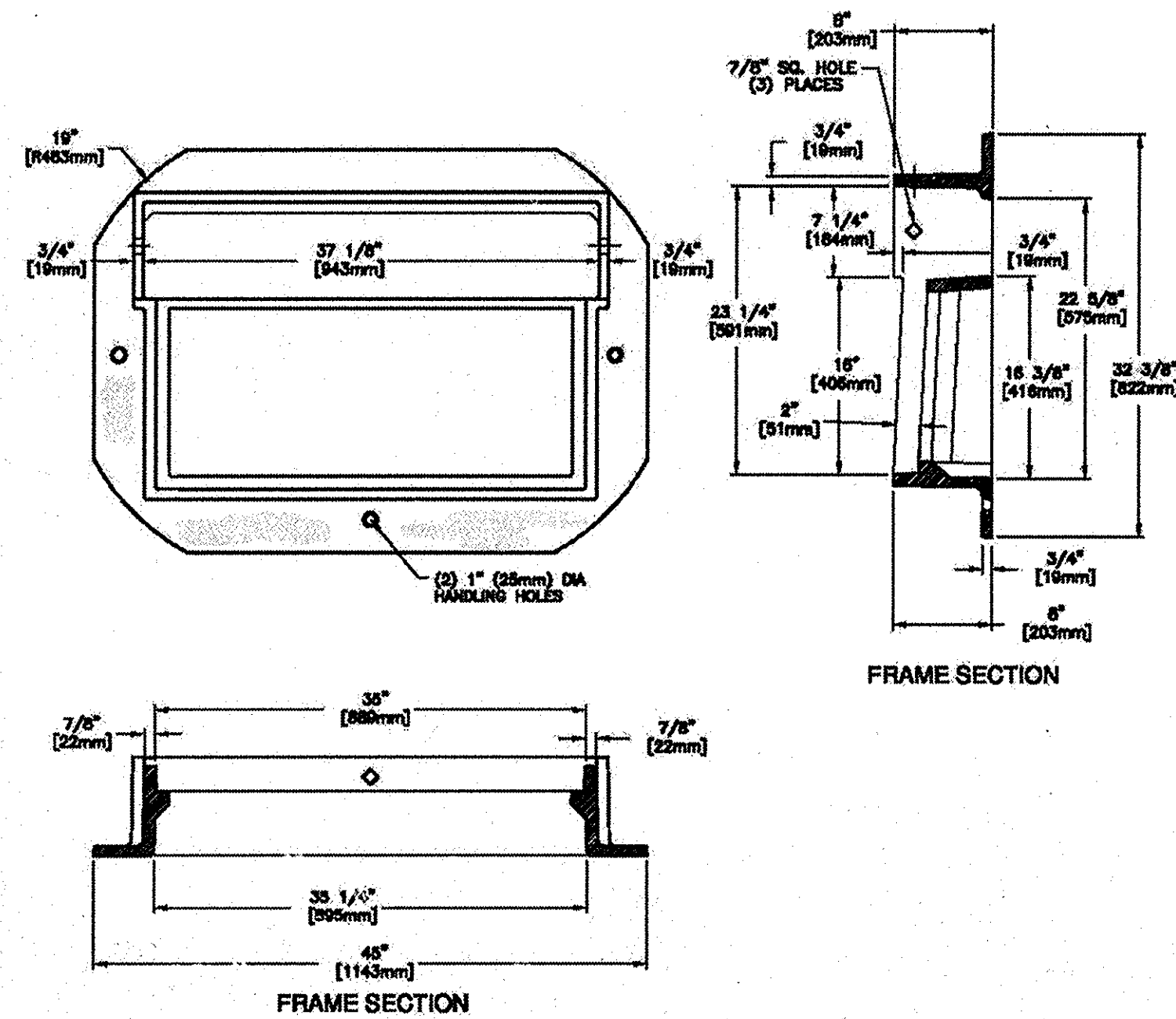
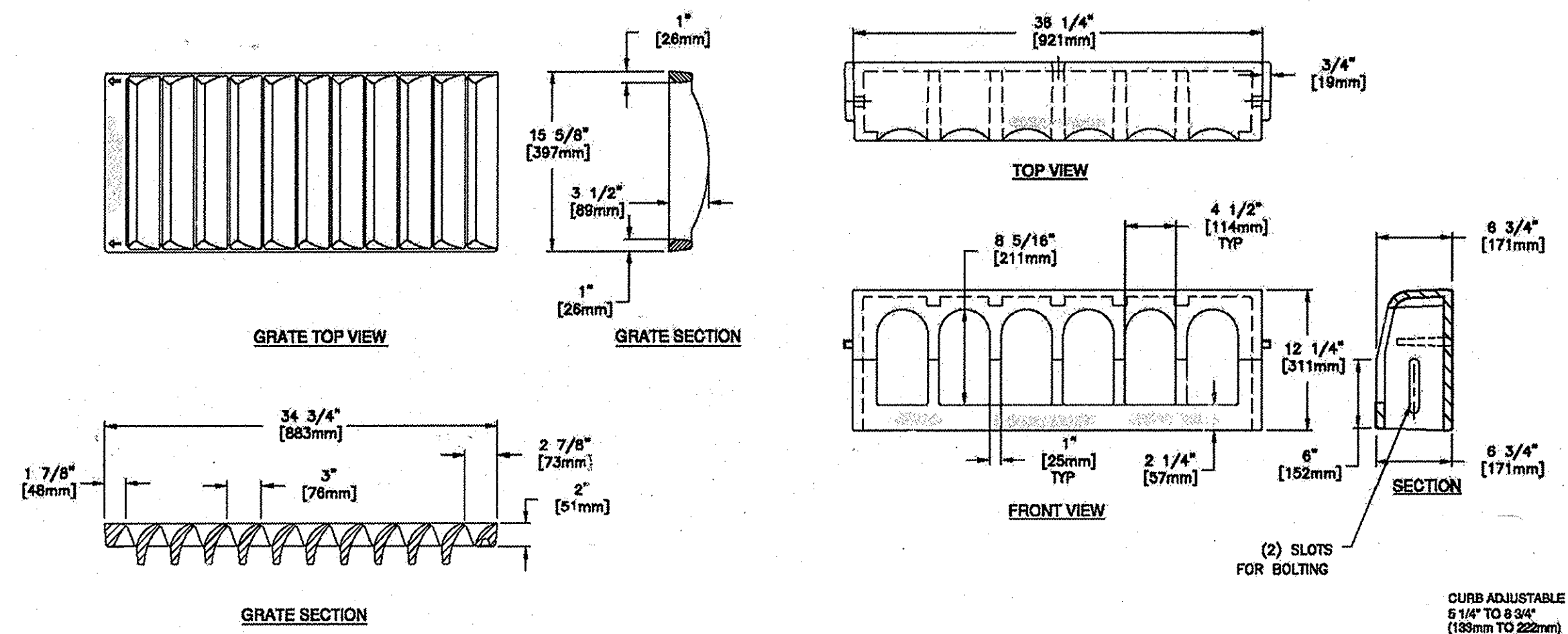
RECOMMENDED FOR APPROVAL: *B. K. Artberg* 2/27/06
DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

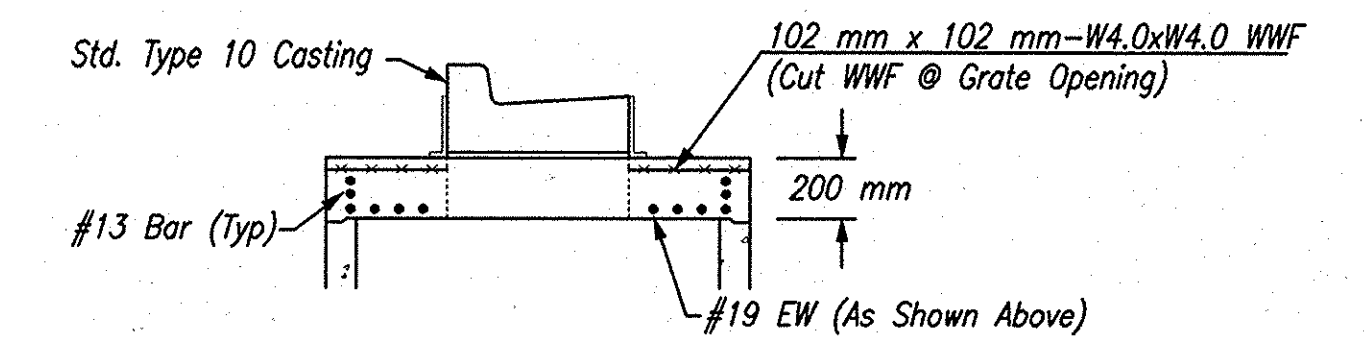
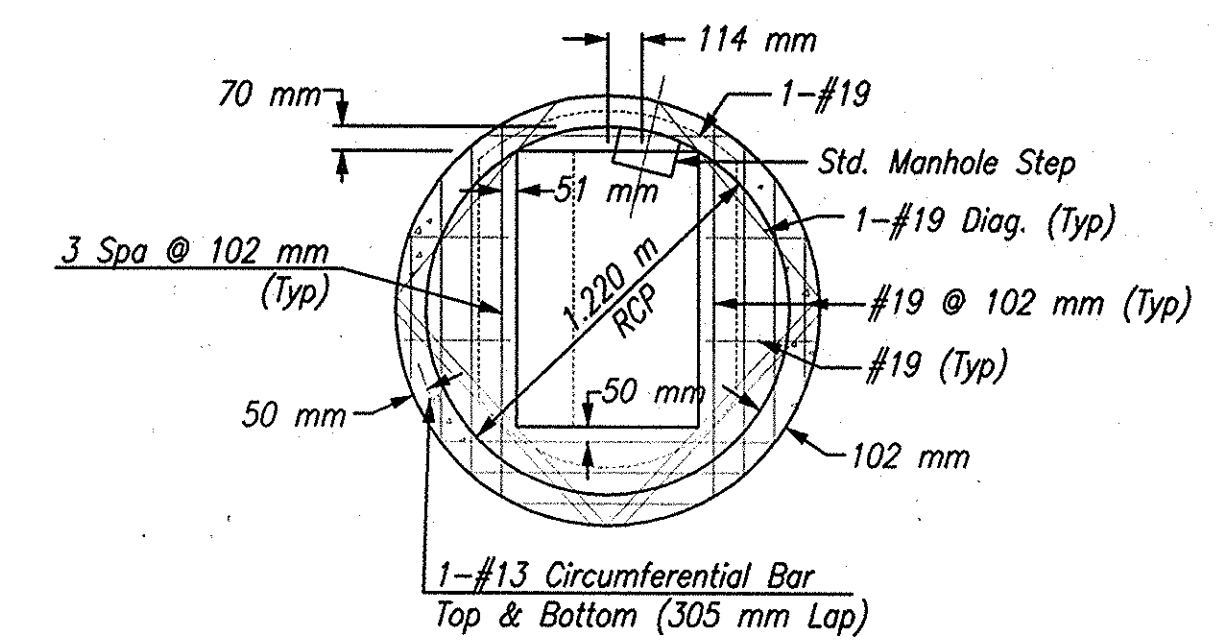
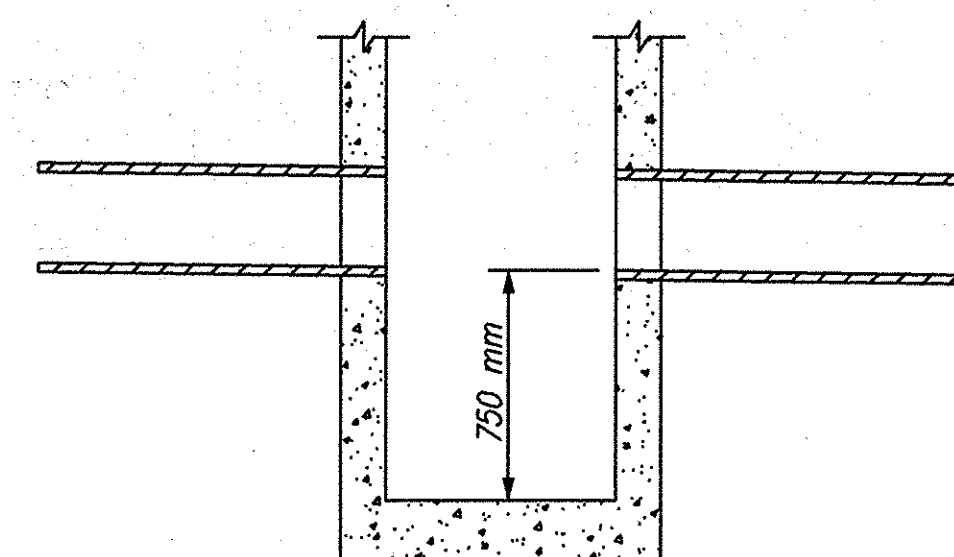
PLAN LINE 'PRW'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
1:50	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	57 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



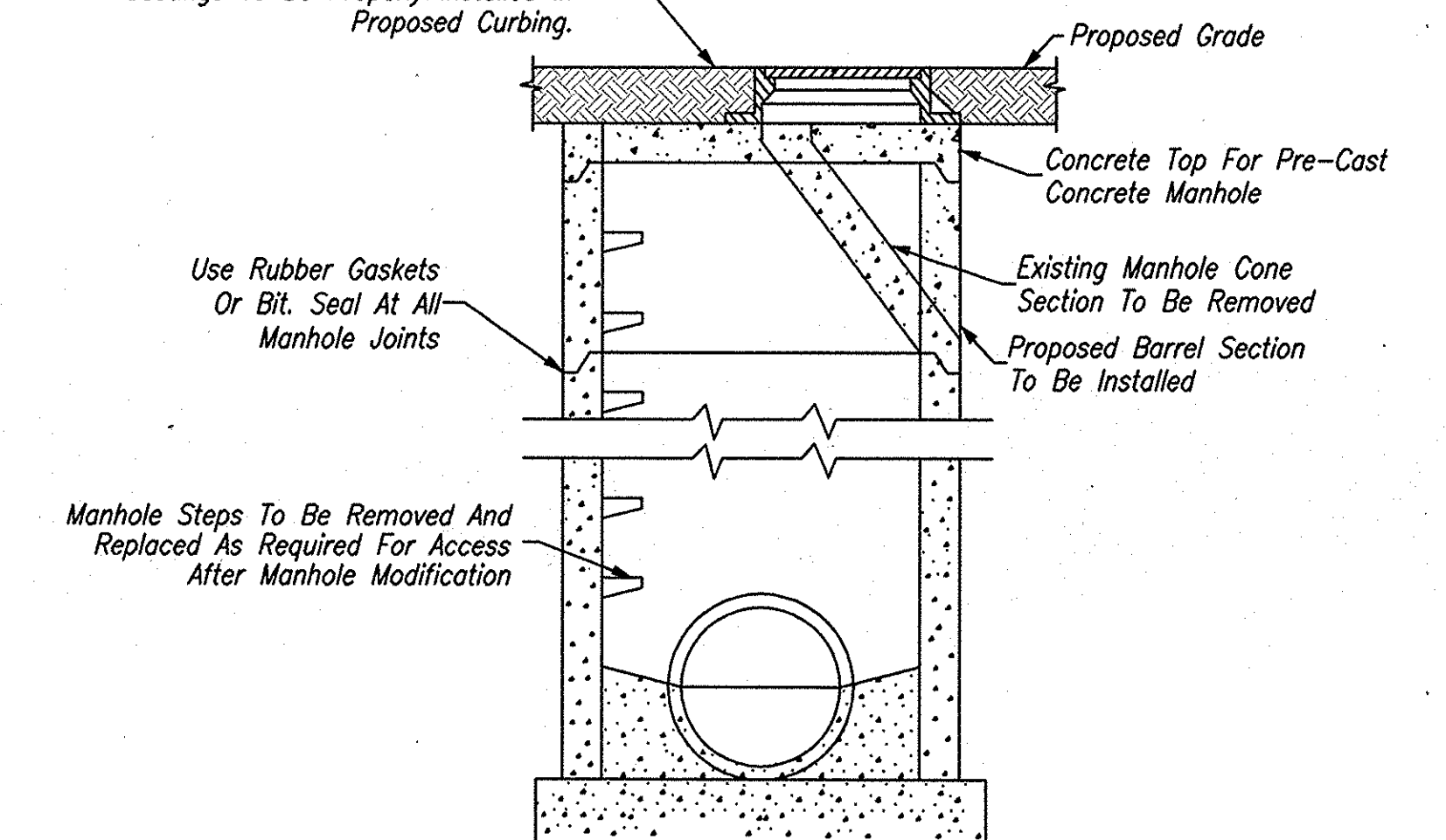
MODIFIED TYPE 10 CASTING
N.T.S.

Note: Modified Type 10 Castings Are Required At All Locations As Indicated In The Structure Data Table



MODIFIED TYPE C-10, J-10
MANHOLE
Scale: N.T.S.

Contractor Shall Remove And Replace Cone Section With New Barrel Section. Casting And Manhole Top Shall Be Replaced As Necessary To Allow Selected Castings To Be Properly Installed In Proposed Curbing.

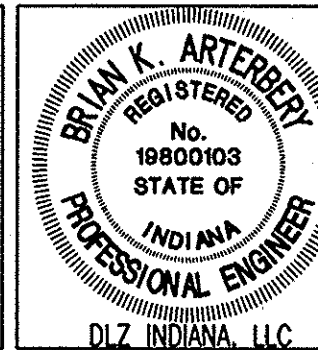


RECONSTRUCT MANHOLE DETAIL
NOT TO SCALE

NOTES

- Contractor Shall Supply And Install All Concrete Adjustment Rings Necessary To Properly Complete Work.
- Contractor Shall Field Verify All Elevations Prior To Fabrication.

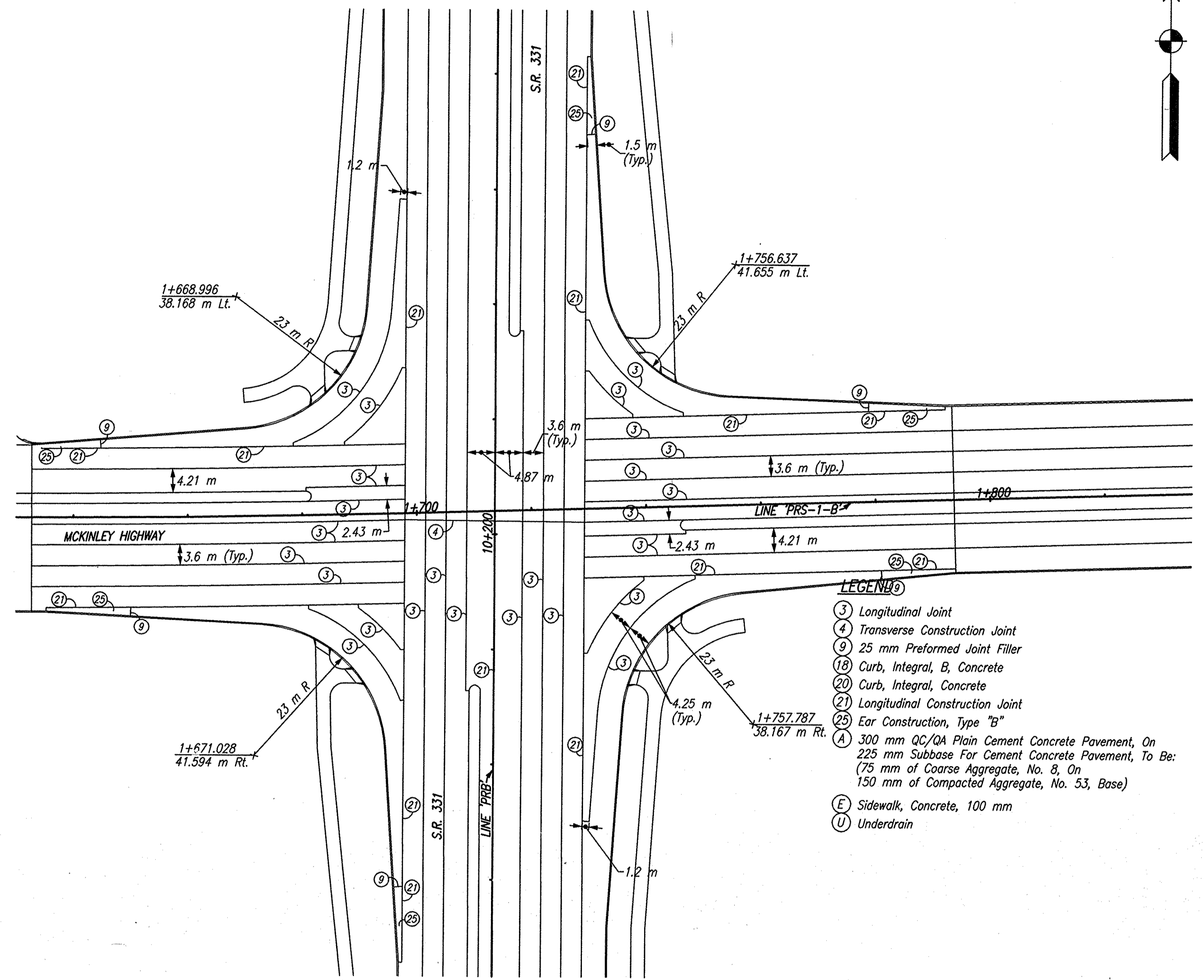
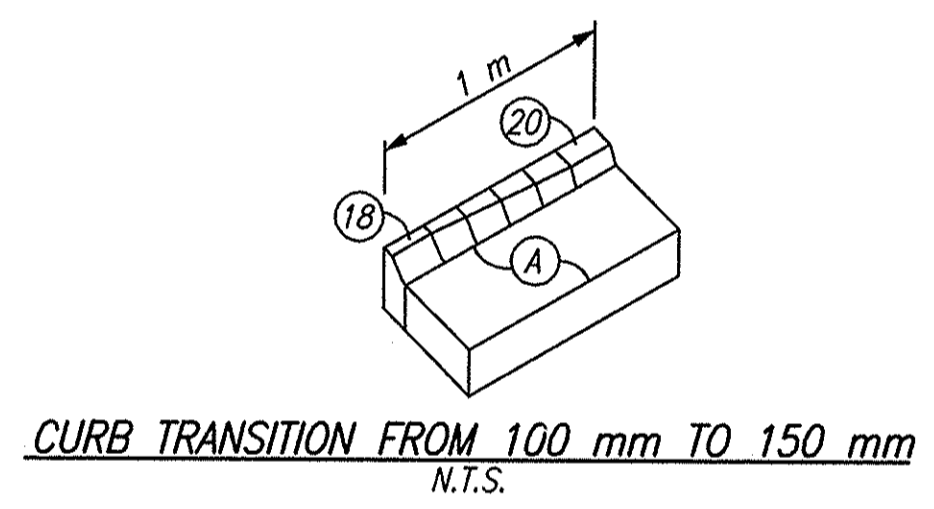
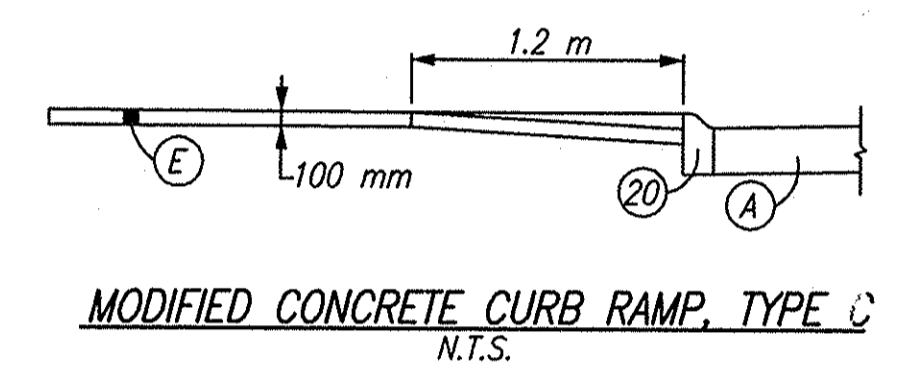
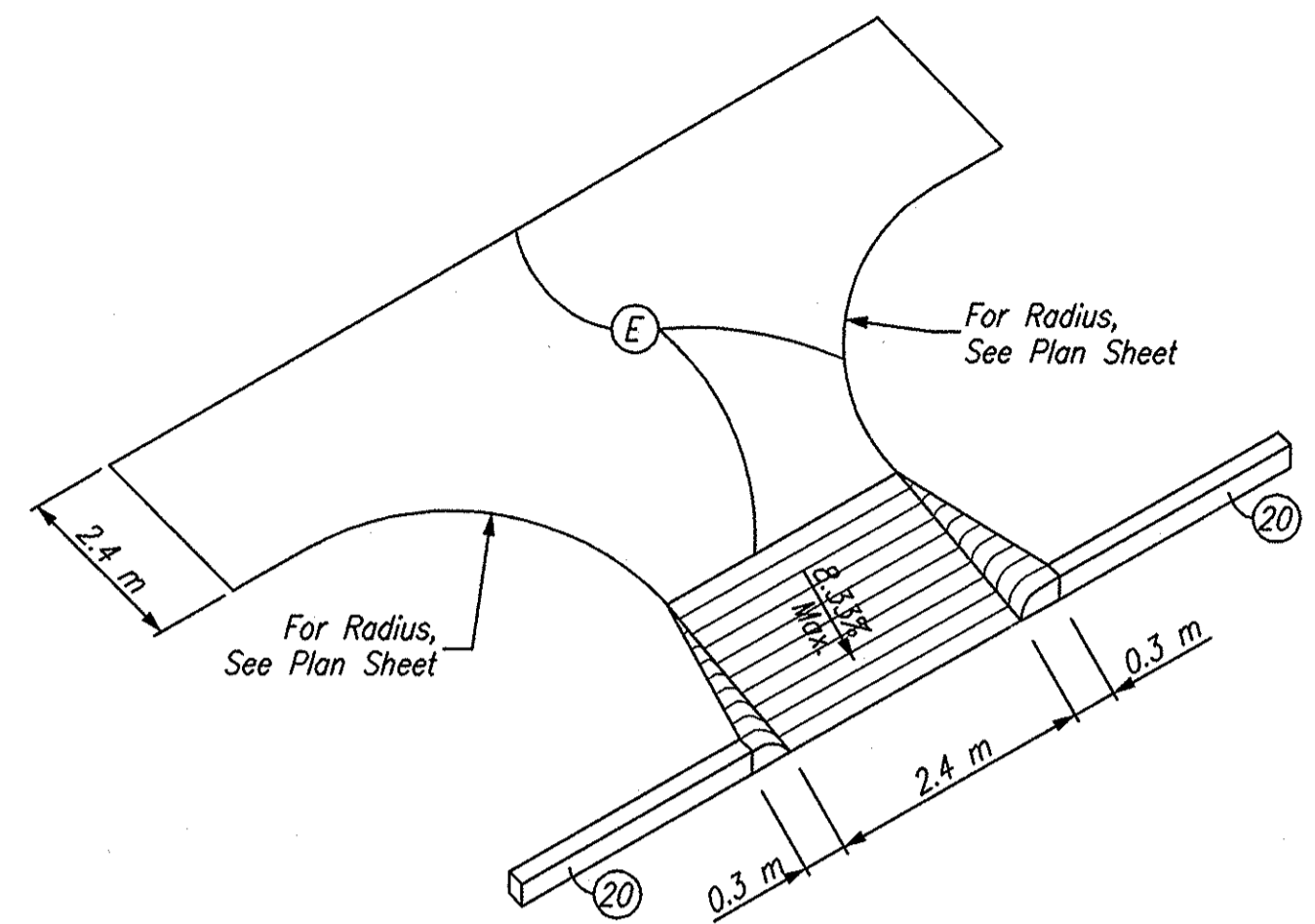
Date: Feb 28, 2006, 11:36am User ID: thill
File: M:\proj\0161\2218\civil\dwg\IS-Line Sat\Mckinley Hwy Sat - Roadway\2218D720.dwg Model Tab: xerox-24-35



RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	2/27/06	
	DESIGN ENGINEER	DATE	
DESIGNED:	ERW	DRAWN:	TH
CHECKED:	BKA	CHECKED:	ERW

INDIANA DEPARTMENT OF TRANSPORTATION	
CONSTRUCTION DETAILS	

HORIZONTAL SCALE	ROAD FILE
AS SHOWN	
VERTICAL SCALE	DESIGNATION
AS SHOWN	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	58 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



- LEGEND**
- ③ Longitudinal Joint
 - ④ Transverse Construction Joint
 - ⑨ 25 mm Preformed Joint Filler
 - ⑱ Curb, Integral, B, Concrete
 - ⑳ Curb, Integral, Concrete
 - ㉑ Longitudinal Construction Joint
 - ㉒ Ear Construction, Type "B"
 - Ⓐ 300 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Compacted Aggregate, No. 53, Base)
 - Ⓔ Sidewalk, Concrete, 100 mm
 - Ⓚ Underdrain

Date: Mar 27, 2006, 1:48pm User ID: thill
 File: M:\p05\0161\2218\civil\dwg\S-Line Set\McKinley Hwy Set - Roadway\22180721.dwg Model Tab: xerox-24x36

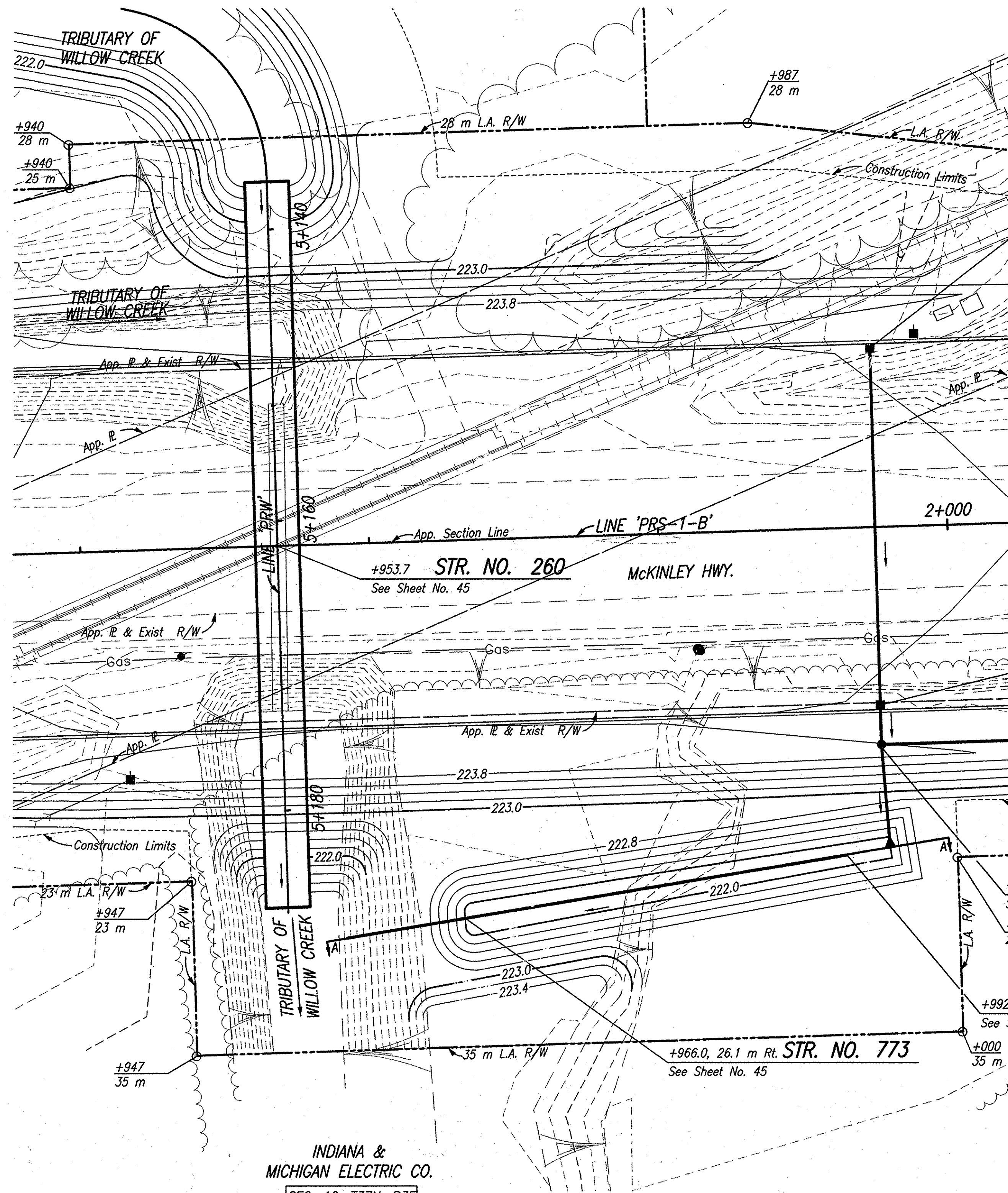


RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i> 3/27/06	
DESIGN ENGINEER	DATE	
DESIGNED: ERW	DRAWN: TH	
CHECKED: BKA	CHECKED: ERW	

INDIANA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DETAILS

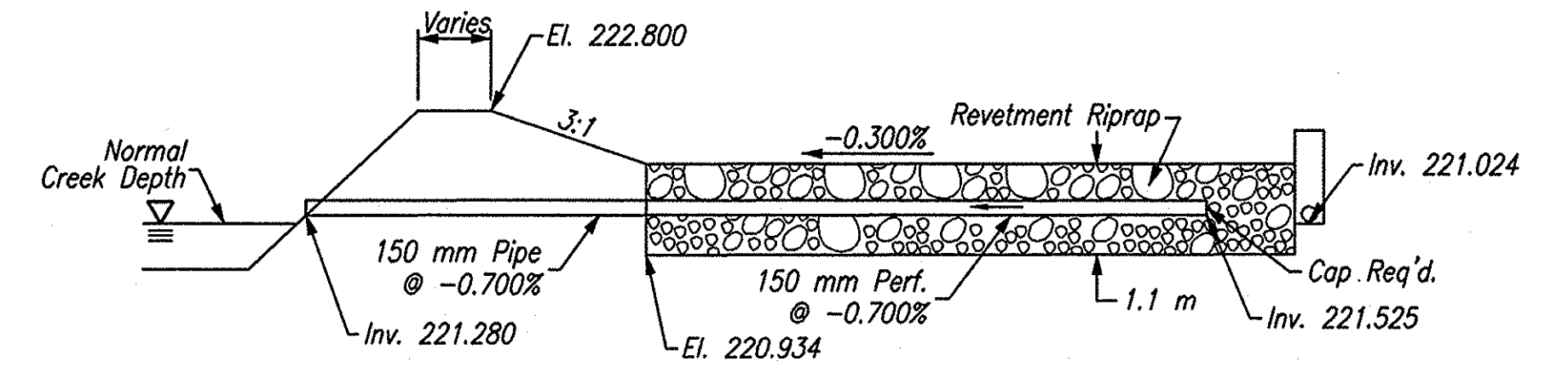
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As Shown	
VERTICAL SCALE	DESIGNATION
As Shown	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	59 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

SEC. 1, T37N, R3E
 PENN TOWNSHIP
 ST. JOSEPH COUNTY
 INDIANA AND MICHIGAN
 ELECTRIC COMPANY

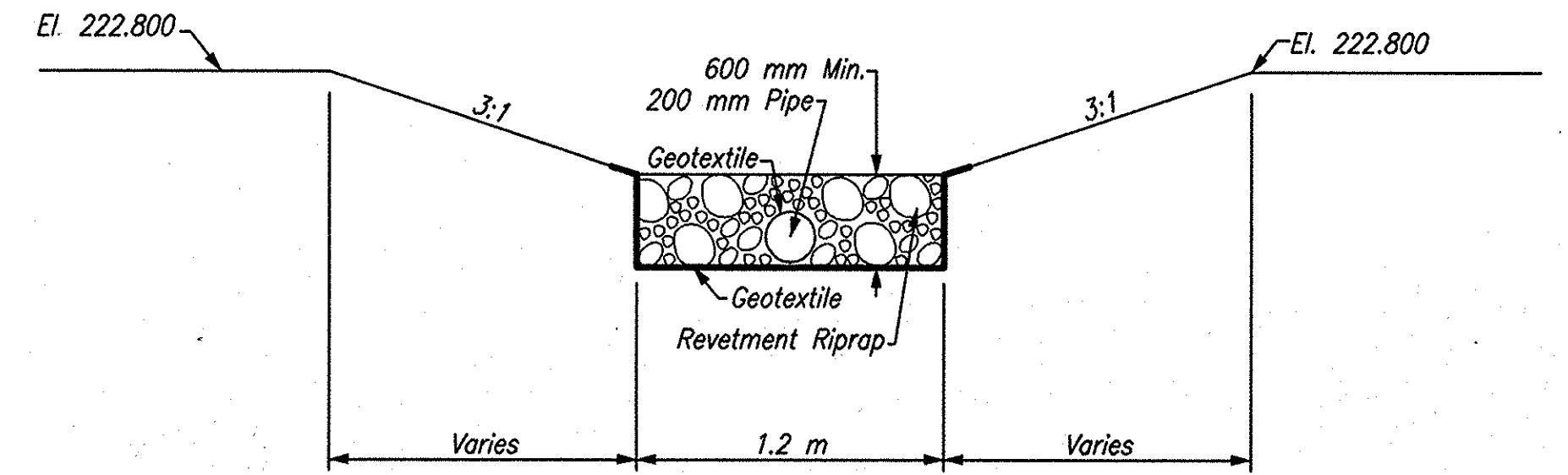


INDIANA &
 MICHIGAN ELECTRIC CO.
 SEC. 12, T37N, R3E
 PENN TOWNSHIP
 ST. JOSEPH COUNTY

CONSOLIDATED RAIL
 CORPORATION

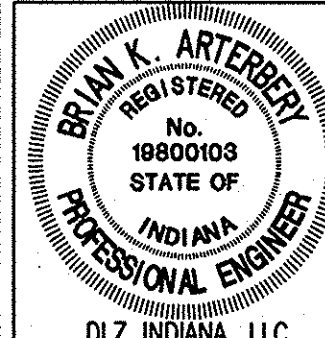


SECTION A-A
 N.T.S.



RIPRAP SPILLWAY SECTION
 N.T.S.

Date: Feb. 28, 2006, 11:40am User ID: ihill
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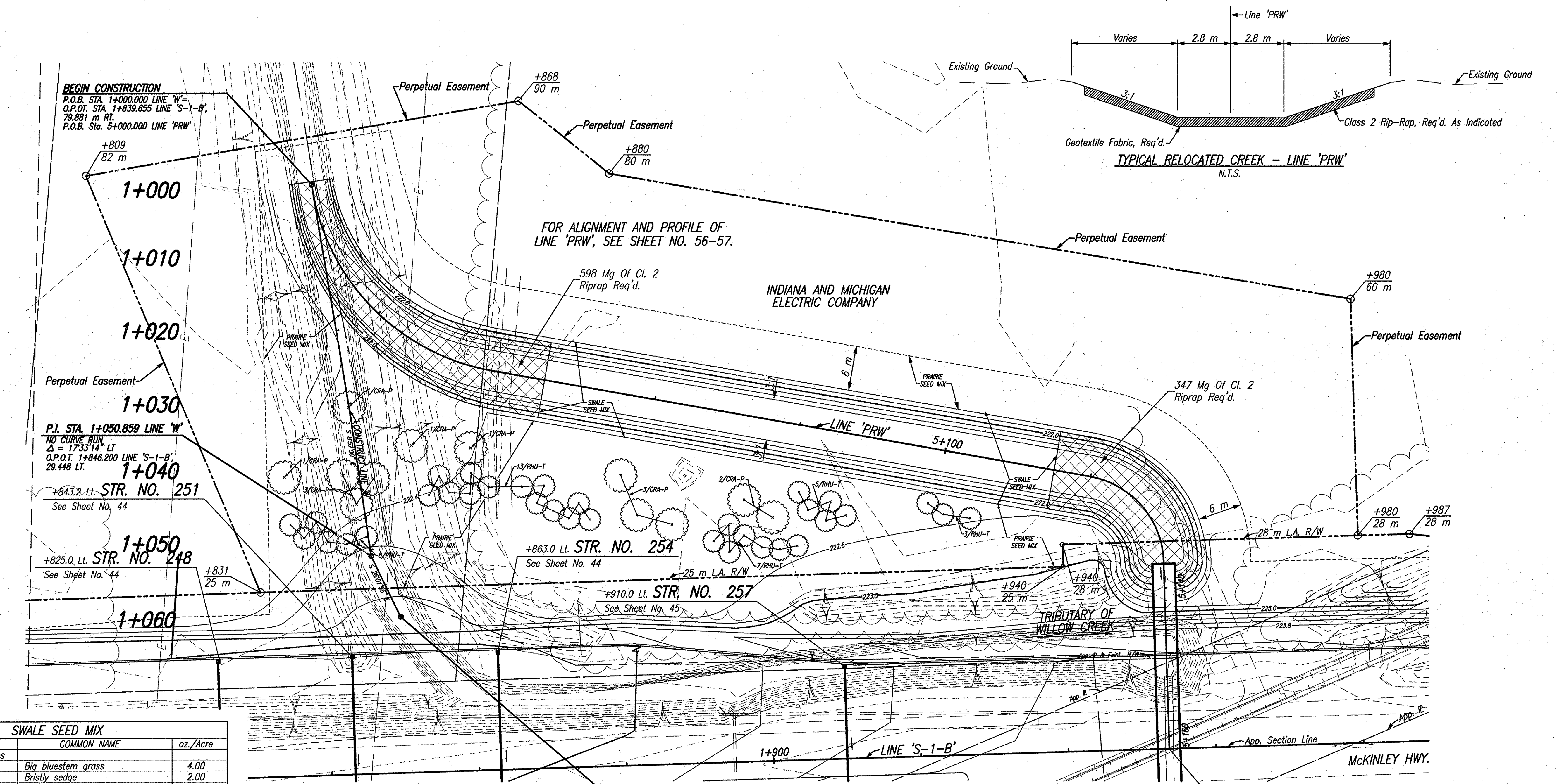


RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i> 2/27/06	DATE
DESIGNED:	ERW	DRAWN:
CHECKED:	BKA	CHECKED:
		TH
		ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION
 GRADING & DRAINAGE DETAIL
 COLD WATER FILTER #2

HORIZONTAL SCALE	ROAD FILE
1:200	DESIGNATION
VERTICAL SCALE	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	61 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Feb. 28, 2006, 9:51 am User ID: thill
 File: M:\proj\0161\2218\dwg\5-Line S-1-McKinley Hwy Set - Roadway\2218D06.dwg Model Tab: xerox-24x35



SWALE SEED MIX		
BOTANICAL NAME	COMMON NAME	oz./Acre
Permanent Grasses/Sedges		
<i>Andropogon gerardii</i>	Big bluestem grass	4.00
<i>Carex comosa</i>	Bristly sedge	2.00
<i>Carex hystericina</i>	Porcupine sedge	2.00
<i>Carex vulpinoidea</i>	Brown fox sedge	2.00
<i>Elymus canadensis</i>	Canada wild rye	4.00
<i>Glyceria virgatum</i>	Fowl manna grass	1.00
<i>Panicum virgatum</i>	Switch grass	2.00
<i>Scirpus atrovirens</i>	Dark green rush	0.50
<i>Scirpus cyperinus</i>	Wool grass	0.25
<i>Spartina pectinata</i>	Prairie cord grass	8.00
		25.75
Temporary Cover		
<i>Agrostis alba</i>	Redtop	8.00
<i>Avena sativa</i>	Seed oats	360.00
<i>Phleum pratense</i>	Timothy	20.00
		388.00
Forbs		
<i>Alisma subcordatum</i>	Common water plantain	0.50
<i>Asclepias incarnata</i>	Swamp milkweed	2.00
<i>Aster novae-angliae</i>	New England aster	0.25
<i>Coreopsis tripteris</i>	Tall coreopsis	0.50
<i>Eupatorium maculatum</i>	Spotted joe-pye weed	0.25
<i>Iris virginica shrevei</i>	Blue flag iris	3.00
<i>Liatris spicata</i>	Marsh blazing star	2.00
<i>Labelia cardinalis</i>	Cardinal flower	0.25
<i>Labelia siphilitica</i>	Great blue lobelia	0.25
<i>Sagittaria latifolia</i>	Common arrowhead	1.50
<i>Solidago rugosa</i>	Rough goldenrod	0.50
<i>Verbena hastata</i>	Blue vervain	1.00
<i>Zizia aurea</i>	Golden alexanders	1.25
		13.25

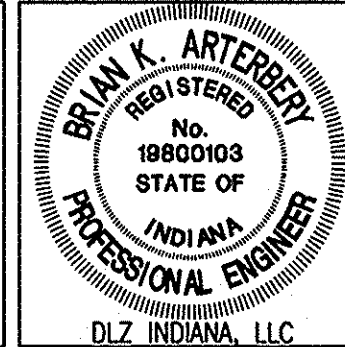
PRAIRIE SEED MIX		
BOTANICAL NAME	COMMON NAME	oz./Acre
Permanent Grasses		
<i>Andropogon gerardii</i>	Big bluestem grass	16.00
<i>Andropogon scoparius</i>	Little bluestem grass	20.00
<i>Bouteloua curtipendula</i>	Side-oats grama	12.00
<i>Elymus canadensis</i>	Canada wild rye	16.00
<i>Panicum virgatum</i>	Switch grass	2.00
<i>Sorghastrum nutans</i>	Indian grass	10.00
		76.00
Temporary Cover		
<i>Avena sativa</i>	Seed oats	360.00
<i>Lolium multiflorum</i>	Annual rye	100.00
<i>Phleum pratense</i>	Timothy	20.00
		480.00
Forbs		
<i>Asclepias incarnata</i>	Swamp milkweed	0.75
<i>Aster novae-angliae</i>	New England aster	0.75
<i>Cassia fasciculata</i>	Partridge pea	3.00
<i>Coreopsis lanceolata</i>	Sand coreopsis	2.00
<i>Echinacea purpurea</i>	Broad-leaved purple coneflower	2.00
<i>Liatris aspera</i>	Rough blazing star	1.25
<i>Lupinus perennis</i>	Wild lupine	3.00
<i>Ratibida pinnata</i>	Yellow coneflower	2.50
<i>Rudbeckia hirta</i>	Black-eyed susan	0.75
		16.00

TREES				
ABBREV.	BOTANICAL NAME	COMMON NAME	HEIGHT	REMARKS
RHU-T	<i>Rhus typhina</i>	Staghorn Sumac	3'	#5 CONTAINER
CRA-P	<i>Crataegus Phaenopyrum</i>	Washington Hawthorn	6'	BALLED AND BURLAPPED

END CONSTRUCTION
 P.O.E. STA. 1+060.000 LINE 'W'=
 O.P.O.T. STA. 1+849.957 LINE 'S-1-B',
 21.114 m LT.

- LANDSCAPE NOTES**
- CONTRACTOR SHALL FIELD LOCATE (STAKE AND MARK) PLANT AND BED LOCATIONS FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO INSTALLATION. THE ENGINEER RESERVES THE RIGHT TO FIELD ADJUST ALL PLANT LOCATIONS AS MAY BE NECESSARY.
 - SEED ALL AREAS DISTURBED BY CONSTRUCTION/INSTALLATION ACTIVITIES PER SEED SUPPLIER'S RECOMMENDATION WITH SEED MIXES INDICATED ON PLAN SHEETS.
 - SEED ALL DISTURBED AREAS WITHIN THE LIMITS OF THE PROPOSED DITCH WITH SWALE SEED MIX.
 - SEED ALL DISTURBED AREAS WITHIN THE LIMITS OF CONSTRUCTION EXCLUDING THE PROPOSED DITCH WITH PRAIRIE SEED MIX.

ALL R/W DESCRIBED FROM LINE 'S-1-B' UNLESS OTHERWISE NOTED



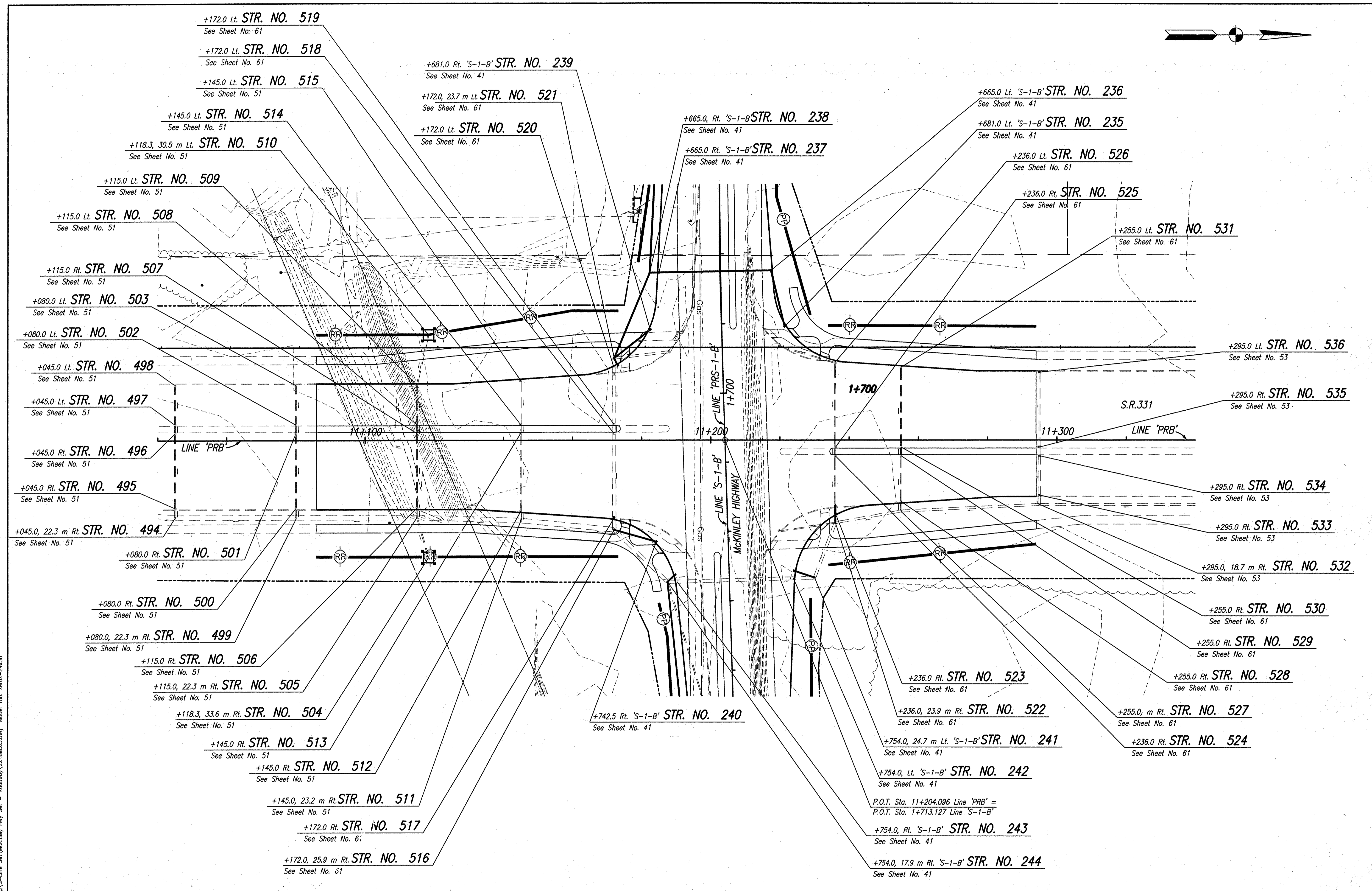
RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

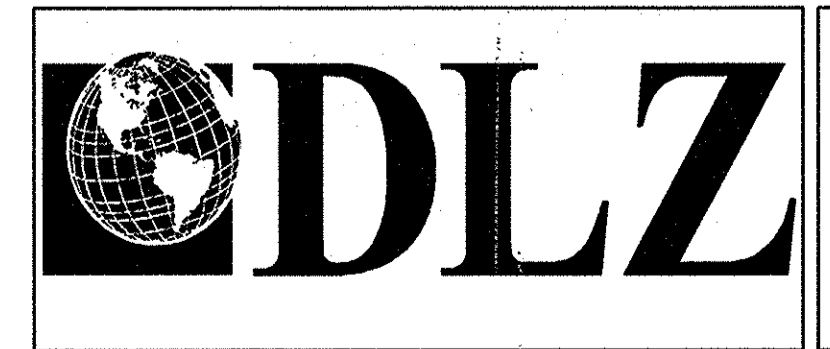
TRIBUTARY OF WILLOW CREEK
 RELOCATION GRADE DETAIL

HORIZONTAL SCALE	ROAD FILE
1:300	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	62 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



Date: Feb. 28, 2006, 9:52am, User: JD, A31
 File: M:\p01\01\22181\c00\veg\5-Line Set\Mckinley Hwy Set - Roadway.dwg Model Tab: xref-24x36

- LEGEND**
- Temporary Erosion Control, Perimeter Protection (Silt Fence)
(See Standard Drawing 205-TECP-01)
 - Temporary Check Dam, Revetment Riprap
(See Standard Drawing 205-TECD-01)
 - Temporary Ditch Inlet Protection, Geotextile Box
(See Standard Drawing 205-TEC1-02)



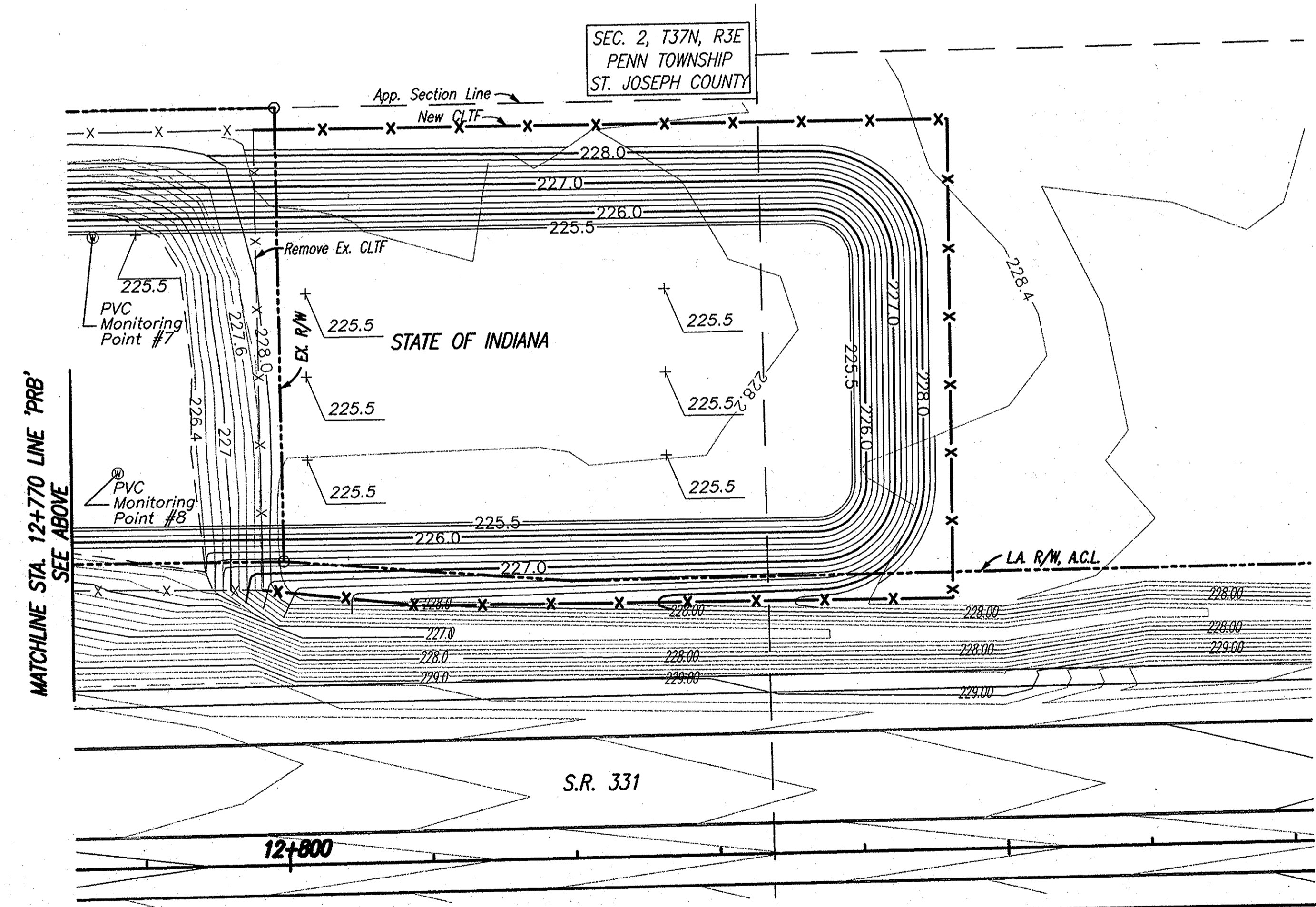
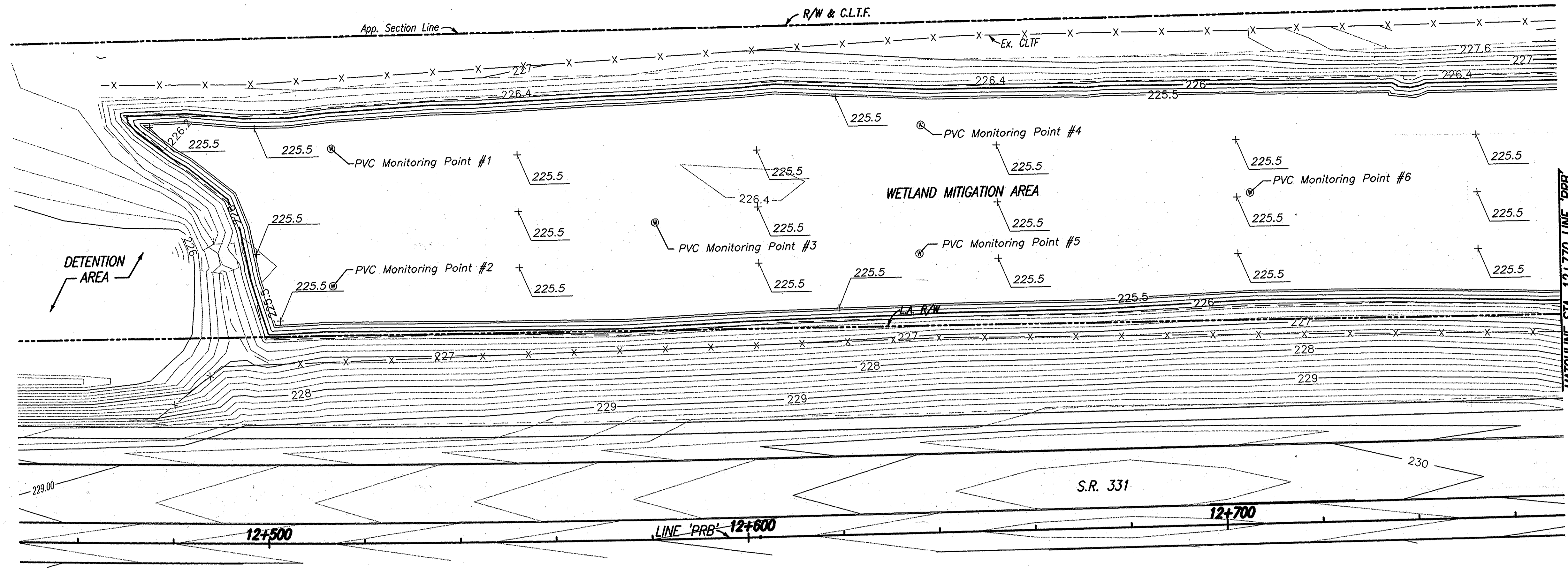
RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

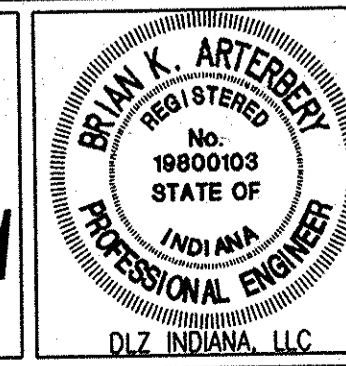
**EROSION CONTROL PLAN
 LINE 'PRB'**

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	9900300, 9103705
SURVEY BOOK	SHEETS
ELECTRONIC	63 of 119
CONTRACT	PROJECT
R-28625	NH-750(003)



Date: Sep 07, 2007, 8:34am User ID: thil File: M:\PROJ\0161\21218\1218\10.dwg Model Tab: xrow-24x35

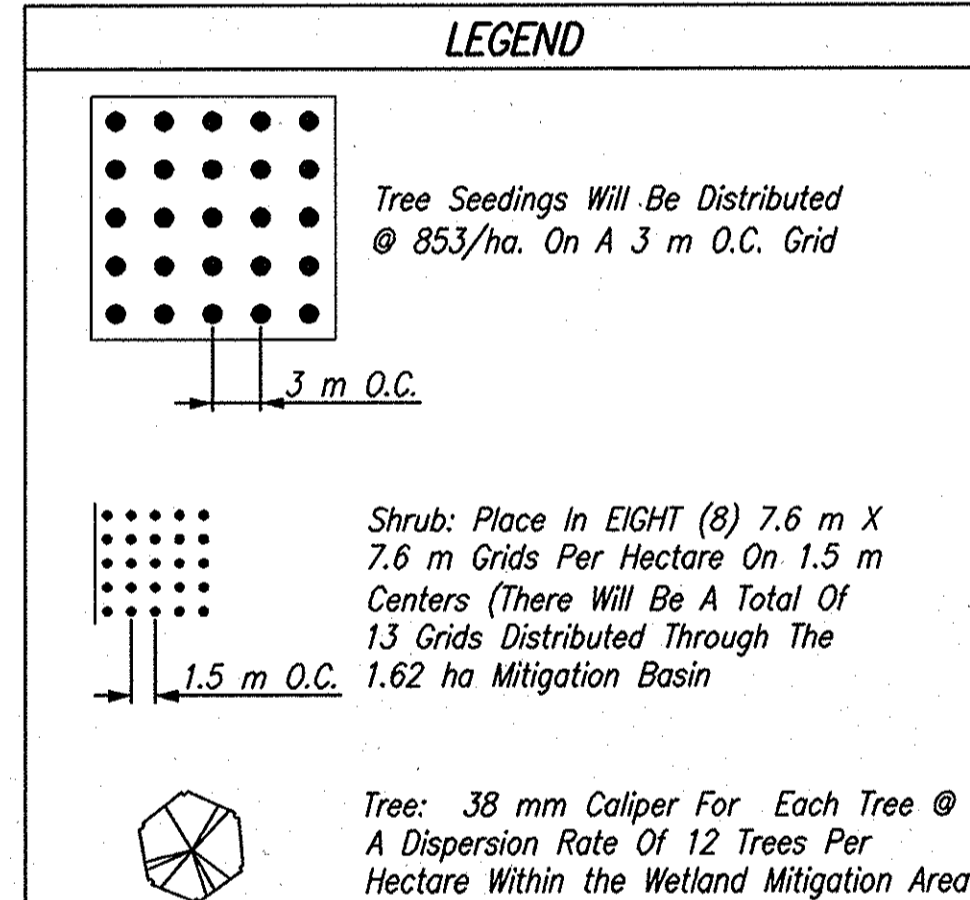
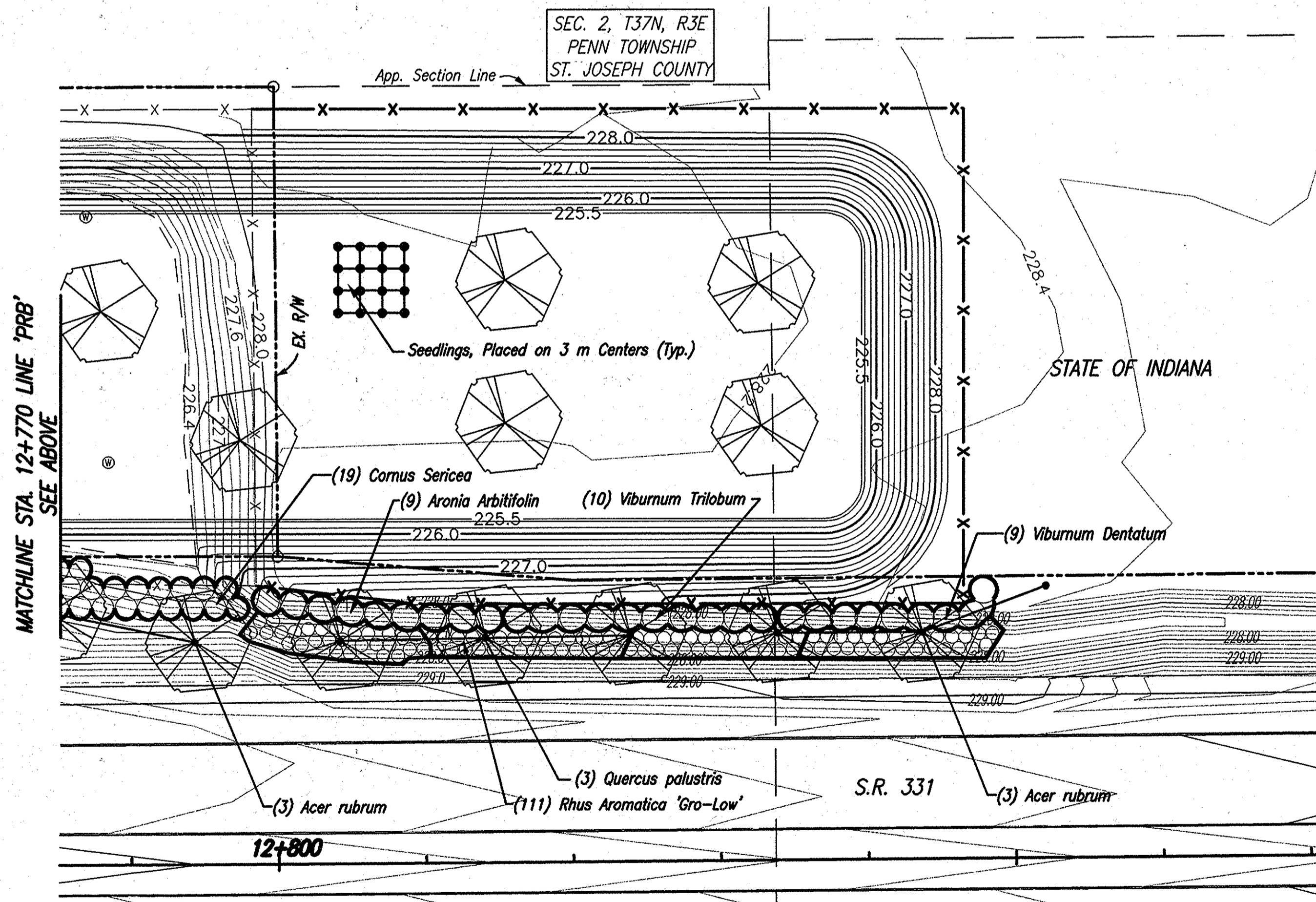
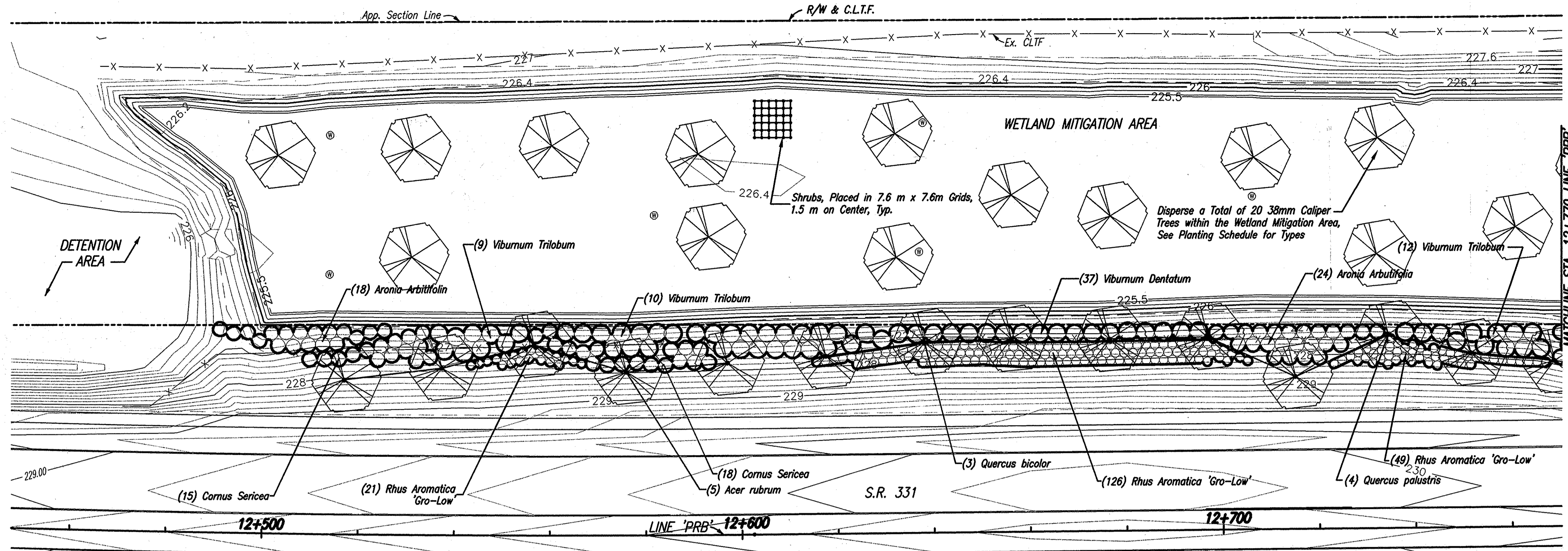
Added Sheet No. 63-1 09-07-2007 BKA



RECOMMENDED FOR APPROVAL *B.K. Arterbery* 9/7/07
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

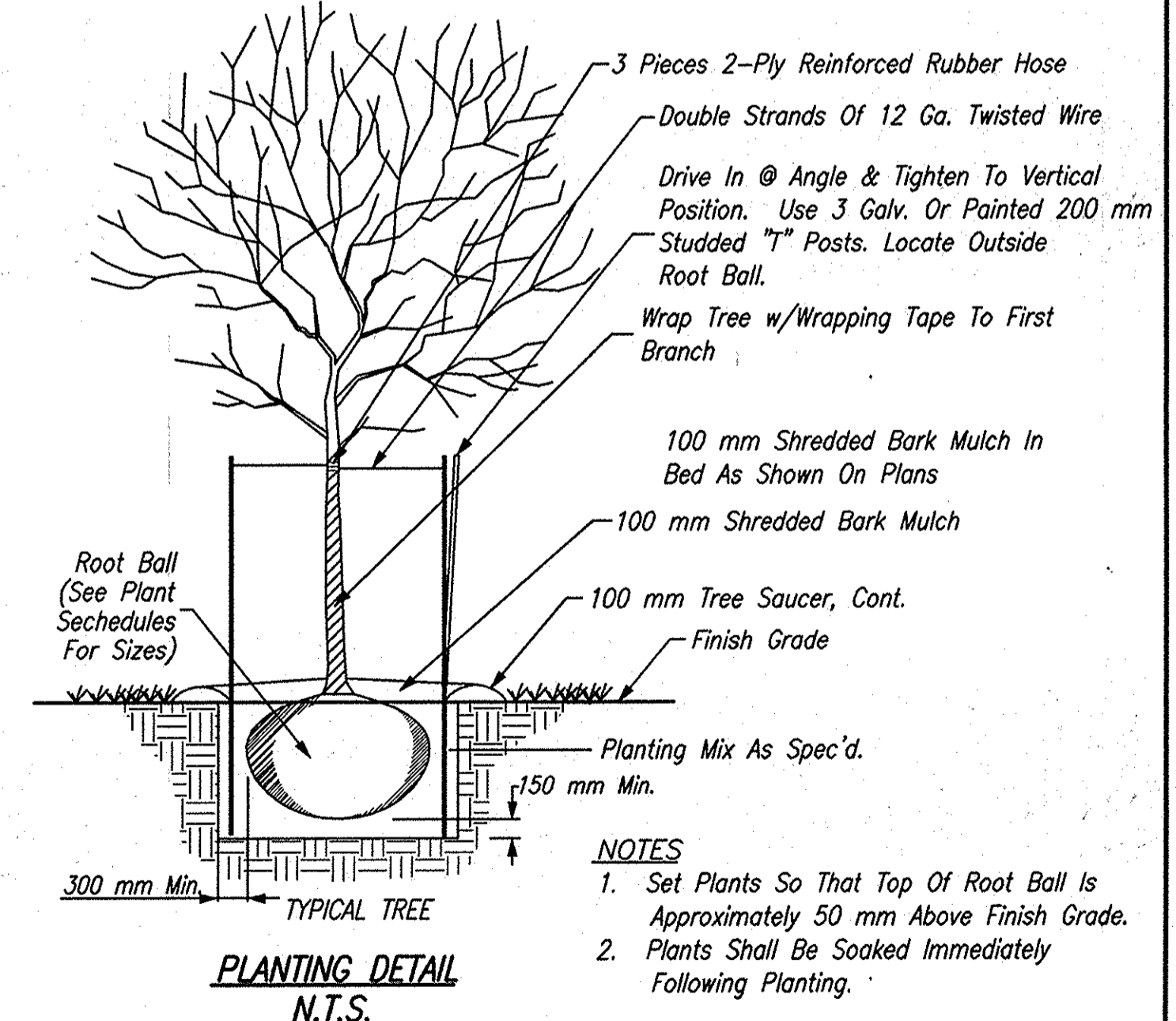
INDIANA DEPARTMENT OF TRANSPORTATION
 WETLAND MITIGATION GRADING PLAN

HORIZONTAL SCALE	ROAD FILE
1:500	-
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	63-1 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



Count	Botanical Name	Common Name	Size	Condition
11	Acer rubrum	Red Maple	38mm	B&B
7	Quercus bicolor	Swamp Oak	38mm	B&B
11	Quercus palustris	Pin Oak	38mm	B&B
4	Quercus macrocarpa	Bur Oak	38mm	B&B
4	Quercus rubra	Red Oak	38mm	B&B
4	Sambucus canadensis	Elderberry	38mm	B&B
277	Quercus macrocarpa	Bur Oak	2-0	bare root
277	Quercus bicolor	Swamp Oak	2-0	bare root
277	Acer rubrum	Red Maple	2-0	bare root
277	Quercus rubra	Red Oak	2-0	bare root
277	Quercus palustris	Pin Oak	2-0	bare root
65	Viburnum lentago	Nannyberry	1-0	bare root
65	Cephalanthus occidentalis	Buttobush	1-0	bare root
65	Cornus stolonifera	Redosier Dogwood	1-0	bare root
65	Sambucus canadensis	Elderberry	1-0	bare root
65	Lindera benzoin	Spicebush	1-0	bare root
307	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	1 Gallon	Container
51	Aronia arbutifolia	Red Chokeberry	3 Gallon	Container
46	Viburnum dentatum	Arrowwood Viburnum	5 Gallon	Container
41	Viburnum trilobum	American Cranberrybush Viburnum	5 Gallon	Container
52	Cornus sericea	Redosier Dogwood	3 Gallon	Container

PLANTING SCHEDULE



- NOTES
1. Set Plants So That Top Of Root Ball Is Approximately 50 mm Above Finish Grade.
 2. Plants Shall Be Soaked Immediately Following Planting.

Date: Sep 07 2007 9:35am User: ID: hhl
 File: W:\PRCA\0161\2218\DWG\5-Line Set\McKinley Hwy Set - Roadway\2218\MK1.dwg Model Tab: xcor-24256

Add Sheet No. 63-2 09-07-2007 BKA



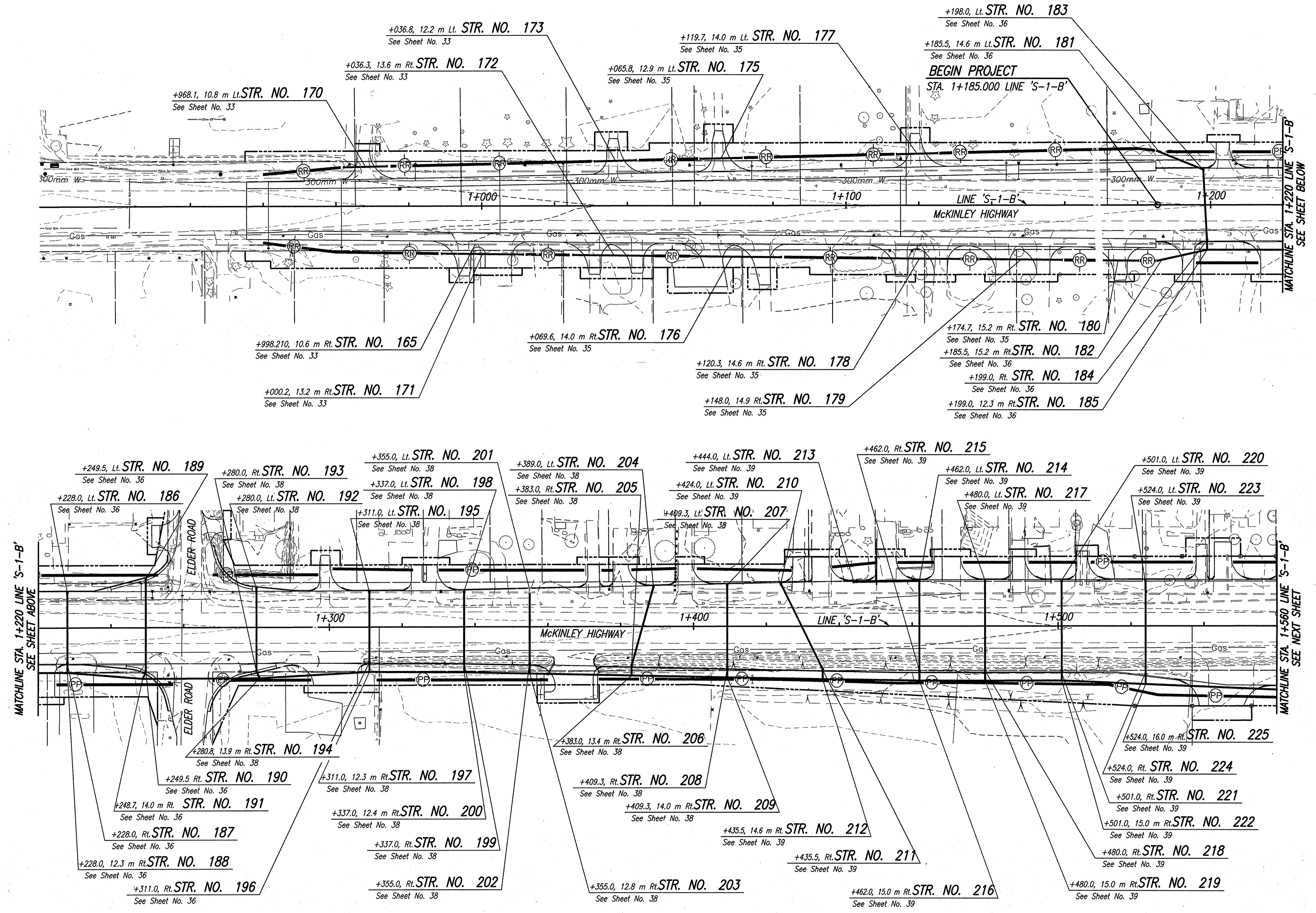
RECOMMENDED FOR APPROVAL: *Brian K. Arterbery* 9/7/07
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 WETLAND MITIGATION PLANTING PLAN

HORIZONTAL SCALE	ROAD FILE
1:500	-
VERTICAL SCALE	DESIGNATION
-	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	63-2 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Feb. 28, 2005, 9:52am, User: DLZ, File: M:\Projects\161\2218\000\Drawings\Line\Set\McKinley Hwy Set - Roadway\2218ec09.dwg Model Tab: wmm-24236



- LEGEND**
- Temporary Erosion Control, Perimeter Protection (Silt Fence)
(See Standard Drawing 205-TECP-01)
 - Temporary Check Dam, Revetment Riprap
(See Standard Drawing 205-TECD-01)



RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE

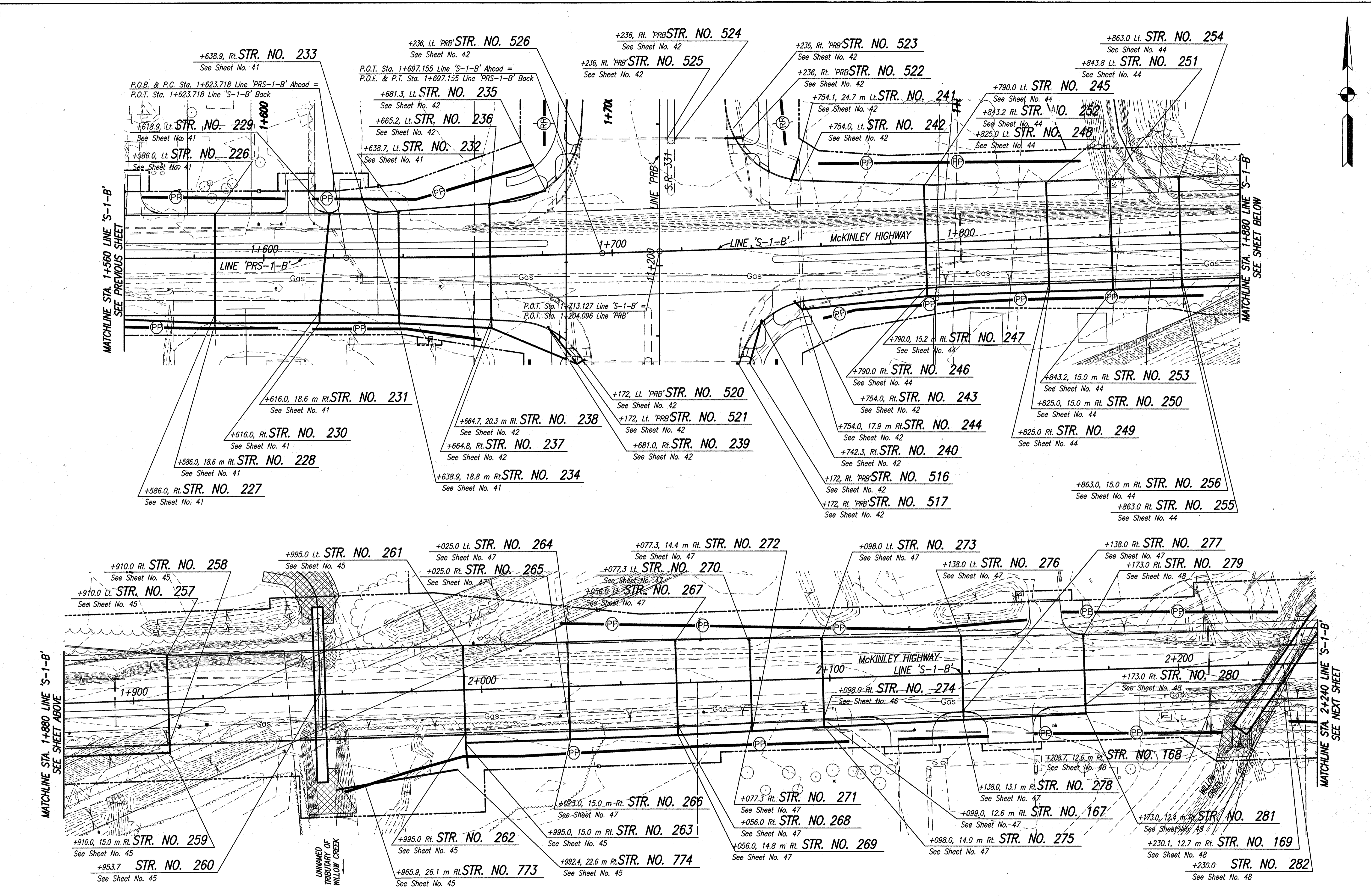
DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
LINE 'S-1-B'

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	64 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Feb 28, 2006, 9:52am, User: D:\bill, File: M:\proj\01611218\civil\wg\S-Line S-1-McKinley Hwy S-1-Roadway\2218ac10.dwg Model Tab: xerox-24x36



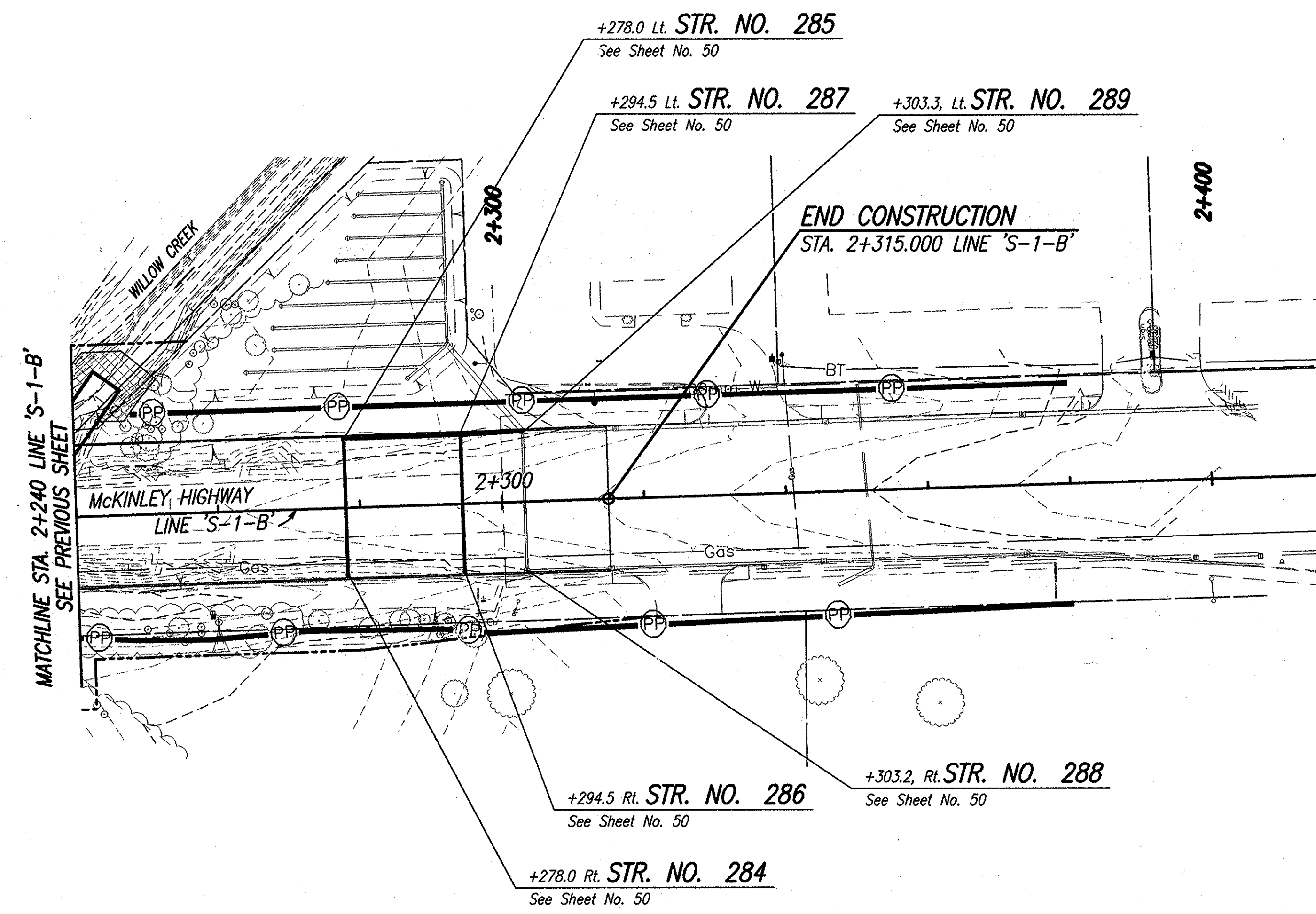
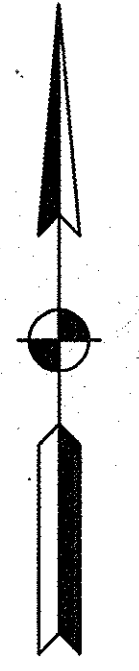
LEGEND
 -PP- Temporary Erosion Control, Perimeter Protection (Silt Fence)
 (See Standard Drawing 205-TECP-01)
 -RR- Temporary Check Dam, Revetment Riprap
 (See Standard Drawing 205-TECD-01)



RECOMMENDED FOR APPROVAL: *B. K. Artibeau* 2/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

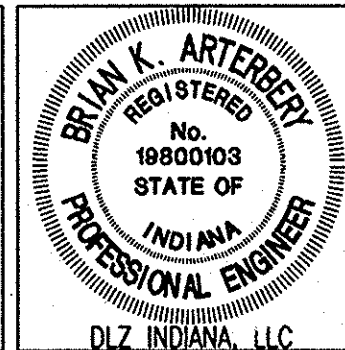
INDIANA DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
LINE 'PRS-1-B' AND LINE 'S-1-B'

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	65 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



Date: Feb 28, 2006, 9:53am User ID: thill
 File: M:\proj\0161\2218\civ\eng\S-Line Set\McKinley Hwy Set - Roadway\2218ec11.dwg Model Tab: xerox-24x36

LEGEND
 Temporary Erosion Control, Perimeter Protection (Silt Fence)
 (See Standard Drawing 205-TECP-01)

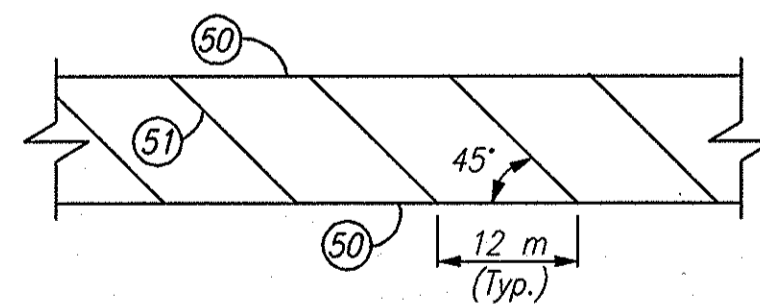
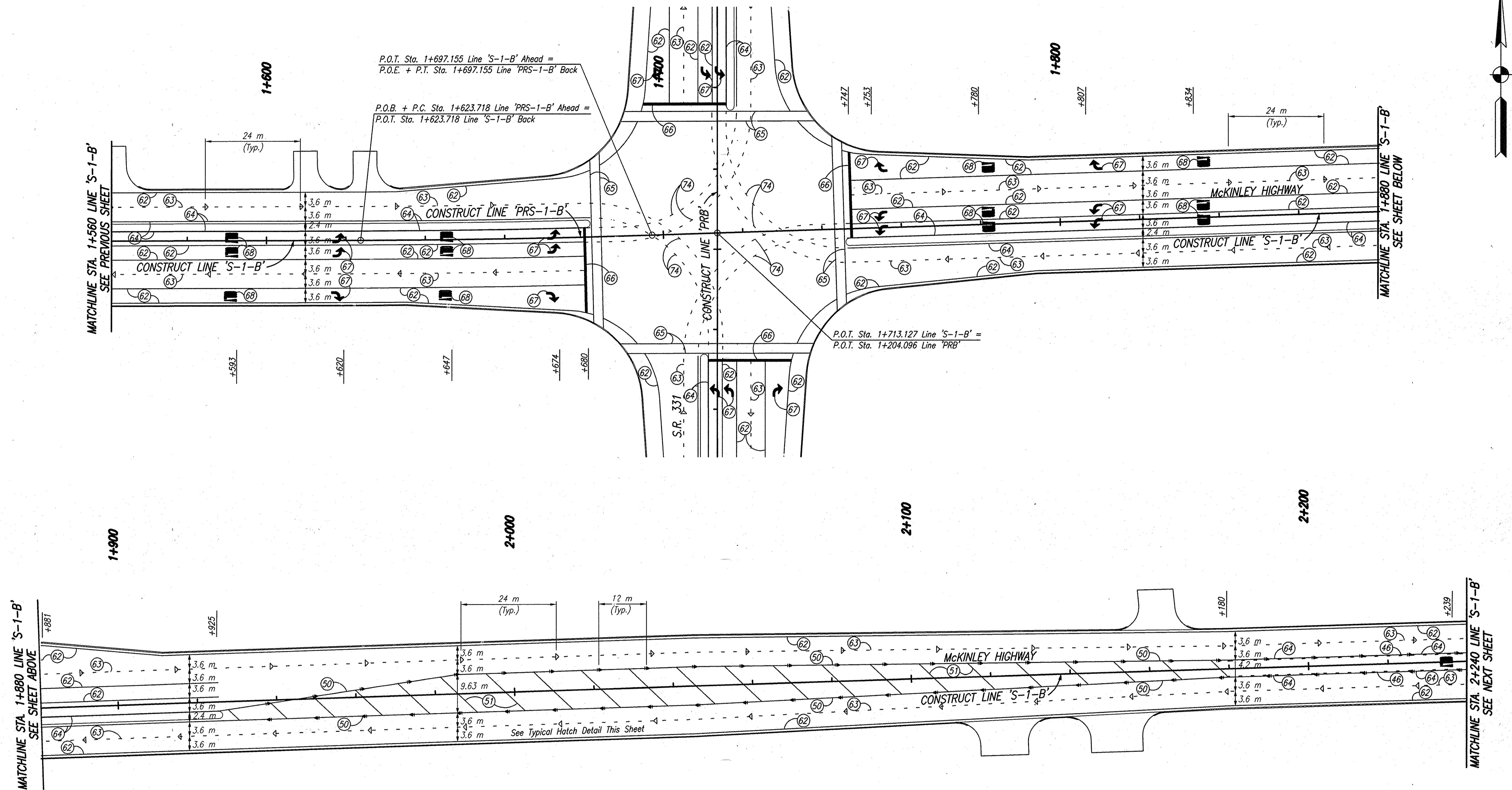


RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
LINE 'S-1-B'

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	66 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

Date: Mar 27, 2006, 1:47pm User ID: ihll
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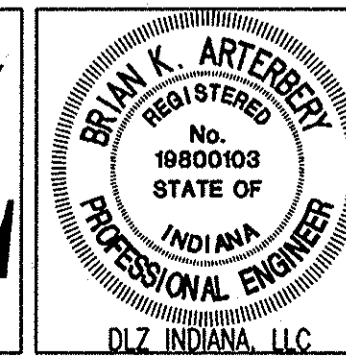
TYPICAL HATCH MARKING DETAIL
 LINE 'S-1-B'

LEGEND:

- 46 Line, Epoxy, Broken, Yellow, 100 mm
- 50 Line, Epoxy, Solid, Yellow, 200 mm
- 51 Line, Epoxy, Solid, Yellow, 600 mm
- 62 Line, Epoxy, Solid, White, 100 mm
- 63 Line, Epoxy, Broken, White, 100 mm
- 64 Line, Epoxy, Solid, Yellow, 100 mm
- 65 Transverse Marking, Preformed Plastic, Solid, White, 150 mm
- 66 Transverse Marking, Preformed Plastic, Solid, White, 600 mm
- 67 Pavement Message Marking, Preformed Plastic, Lane Indication Arrow
- 68 Pavement Message Marking, Preformed Plastic, "ONLY"
- 74 Line, Epoxy, Broken, White, 100 mm (600 mm Line Segment, 1200 mm Gap)
- ▷ Snowplowable, Raised Pavement Marker, One Way, White
- ◀ Snowplowable, Raised Pavement Marker, Two Way, Yellow

NOTES:

1. All Thermoplastic Edge Lines Must Be Broken To Provide A Spacing Of 2.4 m Of Line With A 0.3 m Break.
2. For Pavement Marking Plan, Line 'PRB', See Sheet No. 67.



RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	3/27/06
DESIGNED:	ERW	DRAWN:
CHECKED:	BKA	CHECKED:
		ERW

INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING PLAN LINE 'PRS-1-B' AND LINE 'S-1-B'	

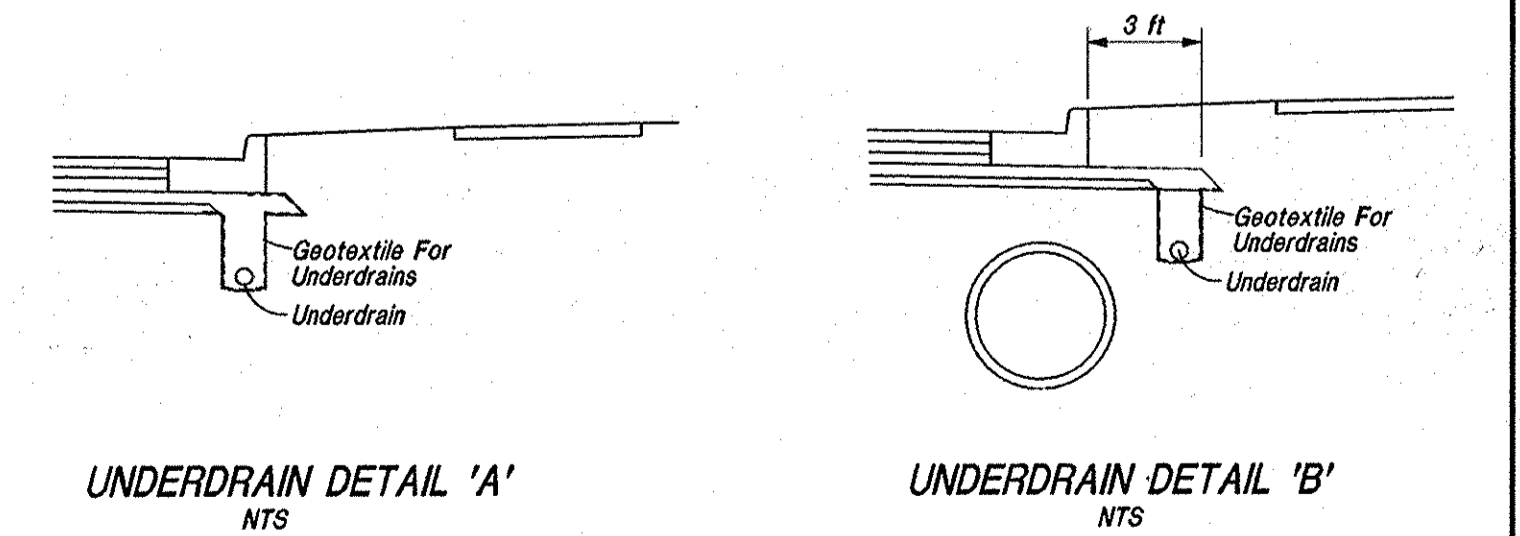
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1:500	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	69 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

UNDERDRAIN TABLE

LONGITUDINAL DRAINS										OUTLET PIPES										REMARKS
STATION	100 mm TYPE 4 PIPE	150 mm TYPE 4 PIPE	200 mm TYPE 4 PIPE	AGGREGATE FOR UNDERDRAINS	GEOTEXTILE FOR UNDERDRAINS	AT STATION	45° ELLS	WYES	100 mm PVC PIPE	150 mm PVC PIPE	STRUCTURE BACKFILL	OUTLET PROTECTOR TYPE B	DELINEATOR POST	SODDING	UNDERDRAIN DETAIL	CONNECT TO STRUCTURE NO.				
LT RT	LINE 'S-1-B'	m	m	m	m ³	m ²	EACH	EACH	m	m	m ³	EACH	EACH	m ²						
X		1+185.5														A	183			
X		1+198.0	13		3	43				0.5										
X		1+185.5	14		4	47				0.5						A	184			
X		1+199.0																		
X		1+198.0														A	186			
X		1+228.0	30		7	99				0.5										
X		1+199.0														A	187			
X		1+228.0	29		7	96				0.5										
X		1+228.0	22		5	73				0.5						A	189			
X		1+249.5														A	190			
X		1+228.0	22		5	73				0.5										
X		1+249.5														A	192			
X		1+280.0	31		8	103				0.5										
X		1+249.5	31		8	103				0.5						A	193			
X		1+280.0	31		8	103				0.5						A	195			
X		1+280.0	31		8	103				0.5						A	196			
X		1+311.0	26		6	86				0.5						A	198			
X		1+337.0														A	199			
X		1+311.0	26		6	86				0.5										
X		1+337.0														A	201			
X		1+355.0	18		5	60				0.5										
X		1+337.0	18		5	60				0.5						A	202			
X		1+355.0														A	204			
X		1+389.0	34		8	113				0.5										
X		1+355.0	28		7	93				0.5						A	205			
X		1+389.0	21		5	70				0.5						A	207	Special Profile, See Sheet 40		
X		1+409.3	27		7	90				0.5						A	208	Special Profile, See Sheet 40		
X		1+409.3	15		4	50				0.5						A	207	Special Profile, See Sheet 40		
X		1+409.3	27		7	90				0.5						A	208	Special Profile, See Sheet 40		
X		1+424.0														A	210			
X		1+444.0	20		5	66				0.5										
X		1+444.0	18		5	60				0.5						A	213			
X		1+435.5	27		7	90				0.5						A	212			
X		1+462.0														A	214			
X		1+462.0	18		5	60				0.5										
X		1+480.0														A	215			
X		1+462.0	18		5	60				0.5										
X		1+480.0																		
TOTAL THIS SIDE			595		150	1977				13										

LONGITUDINAL DRAINS										OUTLET PIPES										REMARKS
STATION	100 mm TYPE 4 PIPE	150 mm TYPE 4 PIPE	200 mm TYPE 4 PIPE	AGGREGATE FOR UNDERDRAINS	GEOTEXTILE FOR UNDERDRAINS	AT STATION	45° ELLS	WYES	100 mm PVC PIPE	150 mm PVC PIPE	STRUCTURE BACKFILL	OUTLET PROTECTOR TYPE B	DELINEATOR POST	SODDING	UNDERDRAIN DETAIL	CONNECT TO STRUCTURE NO.				
LT RT	LINE 'S-1-B'	m	m	m	m ³	m ²	EACH	EACH	m	m	m ³	EACH	EACH	m ²						
X		1+480.0														A	217			
X		1+501.0	21		5	84				0.5										
X		1+480.0	21		5	84				0.5						A	218			
X		1+501.0																		
X		1+501.0	23		6	92				0.5						A	220			
X		1+524.0																		
X		1+501.0	23		6	92				0.5						A	221			
X		1+524.0																		
X		1+524.0	35		8	140				0.5						A	223	Special Profile, See Sheets 40 & 43		
X		1+558.8																		
X		1+524.0	35		8	140				0.5						A	224	Special Profile, See Sheets 40 & 43		
X		1+558.8																		
X		1+586.0	28		7	112				0.5						A	226	Special Profile, See Sheet 43		
X		1+558.8	28		7	112				0.5						A	227	Special Profile, See Sheet 43		
X		1+586.0																		
X		1+586.0	79		18	316	2			8.6						A	232	Center Curb, Lt. Special Profile, See Sheet 43		
X		1+638.8																		
X		1+586.0	79		18	316	2			18.5						A	233	Center Curb, Rt. Special Profile, See Sheet 43		
X		1+638.8																		
X		1+586.0	33		8	132				0.5						A	229			
X		1+618.9																		
X		1+586.0	30		7	120				0.5						A	230			
X		1+618.9																		
X		1+638.7	20		5	80				0.5						A	232	Special Profile, See Sheet 43		
X		1+616.0	23		6	92				0.5						A	233	Special Profile, See Sheet 43		
X		1+638.9																		
X		1+638.9	27		7	108				0.5						A	232	Special Profile, See Sheet 43		
X		1+638.8	26		6	104				0.5						A	233	Special Profile, See Sheet 43		
X		1+638.8	43		10	172	2			8.6						A	232	Center Curb, Lt. Special Profile, See Sheet 43		
X		1+681.0																		
X		1+638.8	43		10	172	2			18.5						A	233	Center Curb, Rt. Special Profile, See Sheet 43		
X		1+681.0																		
X		1+665.2	17		4	68				0.5						A	236			
X		1+681.3																		
X		1+664.8	17		4	68				0.5						A	237			
X		1+681.0																		
TOTAL THIS SIDE			651		155	2604	8			63										
TOTAL THIS SHEET			1246		305	4581	8			76										

FOR UNDERDRAIN DETAIL, SEE SHEET NO. 3



RECOMMENDED FOR APPROVAL: *B. K. Artzberg* 2/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE

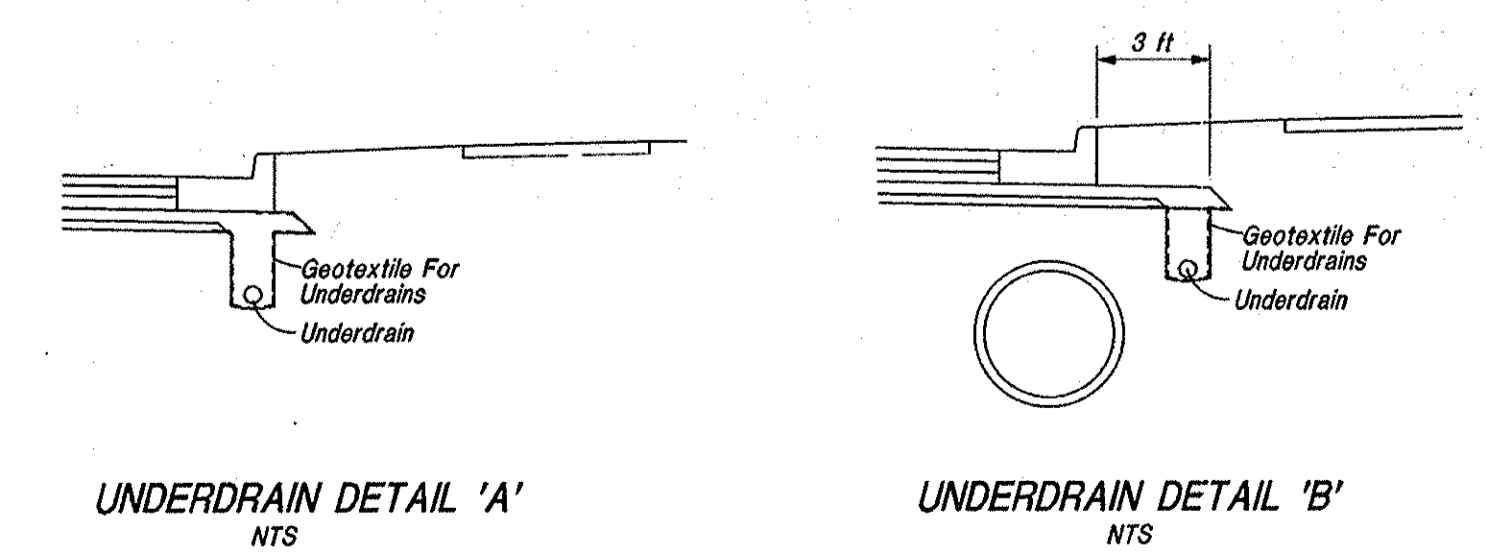
HORIZONTAL SCALE	ROAD FILE
N/A	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC CONTRACT	75 OF 119 PROJECT
R-28625	STP-5171(017)

UNDERDRAIN TABLE

LONGITUDINAL DRAINS							OUTLET PIPES										REMARKS
STATION	100 mm TYPE 4 PIPE	150 mm TYPE 4 PIPE	200 mm TYPE 4 PIPE	AGGREGATE FOR UNDERDRAINS	GEOTEXTILE FOR UNDERDRAINS	AT STATION	45° ELLS	WYES	100 mm PVC PIPE	150 mm PVC PIPE	STRUCTURE BACKFILL	OUTLET PROTECTOR TYPE B	DELINEATOR POST	SODDING	UNDERDRAIN DETAIL	CONNECT TO STRUCTURE NO.	
LT RT	LINE 'S-1-B'	m	m	m	m ³	m ²	EACH	EACH	m	m	m ³	EACH	EACH	m ²			
X		1+746.0															
X		1+843.2	98		23	324	2			18.3					A	251	Center Curb, Lt. Special Profile, See Sheet 46
X		1+746.0	98		23	324	2			8.1					A	252	Center Curb, Rt. Special Profile, See Sheet 46
X		1+754.0	36		9	119				0.5					A	245	
X		1+790.0	36		9	119				0.5					A	246	
X		1+754.0	36		9	119				0.5					A	246	
X		1+790.0	36		9	119				0.5					A	246	
X		1+790.0	35		8	116				0.5					A	248	
X		1+825.0	35		8	116				0.5					A	249	
X		1+790.0	35		8	116				0.5					A	249	
X		1+825.0	35		8	116				0.5					A	249	
X		1+825.0	19		5	63				0.5					A	251	Special Profile, See Sheet 46
X		1+843.2	19		5	63				0.5					A	252	Special Profile, See Sheet 46
X		1+825.0	19		5	63				0.5					A	252	Special Profile, See Sheet 46
X		1+843.2	19		5	63				0.5					A	252	Special Profile, See Sheet 46
X		1+843.2	20		5	66				0.5					A	251	Special Profile, See Sheet 46
X		1+863.0	20		5	66				0.5					A	251	Special Profile, See Sheet 46
X		1+843.2	20		5	66				0.5					A	252	Special Profile, See Sheet 46
X		1+863.0	20		5	66				0.5					A	252	Special Profile, See Sheet 46
X		1+843.2	83		19	274	2			18.3					A	251	Center Curb, Lt. Special Profile, See Sheet 46
X		1+926.0	83		19	274	2			8.1					A	252	Center Curb, Rt. Special Profile, See Sheet 46
X		1+843.2	83		19	274	2			8.1					A	252	Center Curb, Rt. Special Profile, See Sheet 46
X		1+926.0	83		19	274	2			8.1					A	252	Center Curb, Rt. Special Profile, See Sheet 46
X		1+863.0	47		11	156				0.5					A	254	
X		1+910.0	47		11	156				0.5					A	254	
X		1+863.0	47		11	156				0.5					A	255	
X		1+910.0	47		11	156				0.5					A	255	
X		1+910.0	56		13	185				0.5					A	257	Special Profile, See Sheet 46
X		1+965.7	56		13	185				0.5					A	258	Special Profile, See Sheet 46
X		1+910.0	56		13	185				0.5					A	258	Special Profile, See Sheet 46
X		1+965.7	56		13	185				0.5					A	258	Special Profile, See Sheet 46
X		1+965.7	30		7	99				0.5					A	261	Special Profile, See Sheet 46
X		1+995.0	30		7	99				0.5					A	262	Special Profile, See Sheet 46
X		1+965.7	30		7	99				0.5					A	262	Special Profile, See Sheet 46
X		1+995.0	30		7	99				0.5					A	262	Special Profile, See Sheet 46
X		1+995.0	30		7	99				0.5					A	265	
X		2+025.0	30		7	99				0.5					A	264	
X		1+995.0	30		7	99				0.5					A	265	
X		2+025.0	30		7	99				0.5					A	264	
X		2+025.0	31		8	103				0.5					A	267	
X		2+056.0	31		8	103				0.5					A	268	
X		2+025.0	31		8	103				0.5					A	268	
X		2+056.0	31		8	103				0.5					A	268	
X		2+056.0	22		5	73				0.5					A	270	Special Profile, See Sheet 49
X		2+077.3	22		5	73				0.5					A	271	Special Profile, See Sheet 49
X		2+056.0	22		5	73				0.5					A	271	Special Profile, See Sheet 49
X		2+077.3	22		5	73				0.5					A	271	Special Profile, See Sheet 49
X		2+077.3	21		5	70				0.5					A	270	Special Profile, See Sheet 49
X		2+098.0	21		5	70				0.5					A	271	Special Profile, See Sheet 49
X		2+077.3	21		5	70				0.5					A	271	Special Profile, See Sheet 49
X		2+098.0	21		5	70				0.5					A	271	Special Profile, See Sheet 49
TOTAL THIS SIDE			1056		250	3494	8			64							

LONGITUDINAL DRAINS							OUTLET PIPES										REMARKS	
STATION	100 mm TYPE 4 PIPE	150 mm TYPE 4 PIPE	200 mm TYPE 4 PIPE	AGGREGATE FOR UNDERDRAINS	GEOTEXTILE FOR UNDERDRAINS	AT STATION	45° ELLS	WYES	100 mm PVC PIPE	150 mm PVC PIPE	200 mm PVC PIPE	STRUCTURE BACKFILL	OUTLET PROTECTOR TYPE B	DELINEATOR POST	SODDING	UNDERDRAIN DETAIL		CONNECT TO STRUCTURE NO.
LT RT	LINE 'S-1-B'	m	m	m	m ³	m ²	EACH	EACH	m	m	m	m ³	EACH	EACH	m ²			
X		2+098.0																
X		2+138.0	40		10	160				0.5						A	273	
X		2+098.0	40		10	160				0.5						A	274	
X		2+138.0	40		10	160				0.5						A	274	
X		2+138.0	35		8	140				0.5						A	276	
X		2+173.0	35		8	140				0.5						A	276	
X		2+138.0	35		8	140				0.5						A	277	
X		2+173.0	35		8	140				0.5						A	277	
X		2+173.0	57		13	228				0.5						A	279	Special Profile, See Sheet 49
X		2+230.0	57		13	228				0.5						A	280	Special Profile, See Sheet 49
X		2+173.0	57		13	228				0.5						A	280	Special Profile, See Sheet 49
X		2+230.0	57		13	228				0.5						A	280	Special Profile, See Sheet 49
X		2+230.0	48		11	192				0.5						A	285	Special Profile, See Sheets 49 & 51
X		2+278.0	48		11	192				0.5						A	285	Special Profile, See Sheets 49 & 51
X		2+230.0	48		11	192				0.5						A	284	Special Profile, See Sheets 49 & 51
X		2+278.0	48		11	192				0.5						A	284	Special Profile, See Sheets 49 & 51
X		2+278.0	17		4	68				0.5						A	287	Special Profile, See Sheet 51
X		2+294.5	17		4	68				0.5						A	287	Special Profile, See Sheet 51
X		2+278.0	17		4	68				0.5						A	286	Special Profile, See Sheet 51
X		2+294.5	17		4	68				0.5						A	286	Special Profile, See Sheet 51
X		2+294.5	9		3	36				0.5						A	287	Special Profile, See Sheet 51
X		2+303.3	9		3	36				0.5						A	287	Special Profile, See Sheet 51
X		2+294.5	9		3	36				0.5						A	286	Special Profile, See Sheet 51
X		2+303.3	9		3	36				0.5						A	286	Special Profile, See Sheet 51
X		2+303.3	12		3	48				0.5						A	289	
X		2+315.0	12		3	48				0.5						A	289	
X		2+303.3	12		3	48				0.5						A	288	
X		2+315.0	12		3	48				0.5						A	288	
TOTAL THIS SIDE			436		104.0	1744.0				7								
TOTAL THIS SHEET			1492		354.0	5238.0	8			71								

FOR UNDERDRAIN DETAIL, SEE SHEET NO. 3



UNDERDRAIN DETAIL 'A'
NTS

UNDERDRAIN DETAIL 'B'
NTS

		RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i> DESIGN ENGINEER	2/27/06 DATE	INDIANA DEPARTMENT OF TRANSPORTATION UNDERDRAIN TABLE	HORIZONTAL SCALE	ROAD FILE
		DESIGNED: ERW	DRAWN: TH	SURVEY BOOK		DESIGNATION	
CHECKED: BKA	CHECKED: ERW	ELECTRONIC CONTRACT	0300259				
		R-28625	76 OF 119 SHEETS				
			PROJECT STP-5171(017)				

IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW IS TO BE USED

STRUCTURE DATA

IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW IS TO BE USED

STRUCTURE NUMBER	STATION	LEFT	RIGHT	CROSS	SIZE	DESCRIPTION		LENGTH	SKEW	COVER	FLOW LINE		TOP OF CASTING	SERVICE LIFE	SITE DESIGNATION	pH	BORROW FOR STRUCTURE BACKFILL	REVETMENT RIP-RAP	CONCRETE PIPE ANCHOR	PIPE END SECTION	GRATED BOX END SECTION		SAFETY METAL END SECTION		MOD. TYPE 10 CASTING REQ'D	REMARKS					
						PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE				UP STREAM	DOWN STREAM									ELEV.	ELEV.	ELEV.	YR			TYPE	SLOPE	EA	SLOPE	EA
LINE 'S-1-B'																															
170	0+988.1	X			375	3	Pipe	12.0				223.334	223.298	75	NA	7.0							6:1	2							
165	0+988.2	X					Adjust Casting to Grade																								
171	1+000.2	X			375	3	Pipe	22.5				223.253	223.186	75	NA	7.0							6:1	2							
172	1+036.3	X			375	3	Pipe	22.6				223.145	223.077	75	NA	7.0							6:1	2							
173	1+036.8	X			375	3	Pipe	10.9				223.126	223.093	75	NA	7.0							6:1	2							
173A	1+055.4	X					Adjust Casting to Grade																								
175	1+065.8	X			375	3	Pipe	11.0				223.039	223.006	75	NA	7.0							6:1	2							
176	1+069.6	X			375	3	Pipe	25.3				223.049	222.973	75	NA	7.0							6:1	2							
177	1+119.7	X			375	3	Pipe	10.8				222.877	222.845	75	NA	7.0							6:1	2							
178	1+120.3	X			375	3	Pipe	21.7				222.892	222.827	75	NA	7.0							6:1	2							
179	1+148.0	X			375	3	Pipe	22.1				222.809	222.743	75	NA	7.0							6:1	2							
180	1+174.7	X			375	3	Pipe	10.8				222.712	222.680	75	NA	7.0							6:1	2							
181	1+185.5	X			450	2	Pipe	13.5				222.664	222.539	75	NA	7.0							6:1	1		CONNECT TO STR. 183					
182	1+185.5	X			450	2	Pipe	13.8				222.664	222.637	75	NA	7.0							6:1	1		CONNECT TO STR. 185					
183	1+198	X			450	2	Mod. C.B. Type K-10	19.2	0.8		221.709	221.676	223.349	75	NA	7.0	28								X	CONNECT TO STR. 184					
184	1+199	X			450	2	Mod. C.B. Type K-10	2.7	1.0		221.676	221.671	223.345	75	NA	7.0	4									X	CONNECT TO STR. 185				
185	1+199	X			600	2	M.H. Type C-4	29.0	1.2		221.671	221.636	223.563	75	NA	7.0	67											CONNECT TO STR. 188			
186	1+228	X			300	2	C.B. Type K-10	19.2	0.7		221.917	221.859	223.245	75	NA	7.0	19									X	CONNECT TO STR. 187				
187	1+228	X			300	2	Mod. C.B. Type K-10	2.7	0.9		221.859	221.851	223.245	75	NA	7.0	3									X	CONNECT TO STR. 188				
188	1+228	X			600	2	M.H. Type C-4	20.8	1.2		221.548	221.523	223.463	75	NA	7.0	48											CONNECT TO STR. 191			
191	1+248.7	X			750	2	M.H. Type J-4	32.1	1.5		220.919	220.890	223.335	75	NA	7.0	116											CONNECT TO STR. 194			
189	1+249.5	X			300	2	C.B. Type K-10	25.5	0.6		221.857	221.780	223.097	75	NA	7.0	23											CONNECT TO STR. 190			
190	1+249.5	X			300	2	Mod. C.B. Type K-10	2.0	0.8		221.780	221.772	223.117	75	NA	7.0	2											CONNECT TO STR. 191			
192	1+280	X			300	2	C.B. Type K-10	22.8	0.7		221.749	221.681	223.043	75	NA	7.0	22											CONNECT TO STR. 193			
193	1+280	X			300	2	Mod. C.B. Type K-10	2.0	0.8		221.681	221.673	223.015	75	NA	7.0	2											CONNECT TO STR. 194			
194	1+280.8	X			750	2	M.H. Type J-4	30.2	1.5		220.890	220.863	223.233	75	NA	7.0	106											CONNECT TO STR. 197			
195	1+311	X			300	2	C.B. Type K-10	19.2	0.7		221.632	221.574	222.960	75	NA	7.0	19									X	CONNECT TO STR. 196				
196	1+311	X			300	2	Mod. C.B. Type K-10	2.7	0.9		221.574	221.566	222.960	75	NA	7.0	3									X	CONNECT TO STR. 197				
197	1+311	X			750	2	M.H. Type J-4	26.0	1.4		220.863	220.841	223.178	75	NA	7.0	89											CONNECT TO STR. 200			
198	1+337	X			300	2	C.B. Type K-10	19.5	0.7		221.540	221.482	222.868	75	NA	7.0	19									X	CONNECT TO STR. 199				
199	1+337	X			300	2	Mod. C.B. Type K-10	2.7	0.9		221.482	221.474	222.868	75	NA	7.0	3									X	CONNECT TO STR. 200				
200	1+337	X			750	2	M.H. Type J-4	18.0	1.4		220.841	220.825	223.086	75	NA	7.0	59											CONNECT TO STR. 203			
201	1+355	X			300	2	C.B. Type K-10	20.3	0.7		221.473	221.412	222.798	75	NA	7.0	20									X	CONNECT TO STR. 202				
202	1+355	X			300	2	Mod. C.B. Type K-10	2.7	0.9		221.412	221.404	222.798	75	NA	7.0	3									X	CONNECT TO STR. 203				
203	1+355	X			750	2	M.H. Type J-4	28.0	1.3		220.825	220.801	223.016	75	NA	7.0	89											CONNECT TO STR. 206			
205	1+383	X			300	2	Mod. C.B. Type K-10	2.7	0.9		221.275	221.267	222.690	75	NA	7.0	3									X	CONNECT TO STR. 206				
206	1+383	X			750	2	M.H. Type J-4	26.3	1.2		220.801	220.778	222.908	75	NA	7.0	80											CONNECT TO STR. 209			

STRUCTURE NUMBER	STATION	LEFT	RIGHT	CROSS	SIZE	DESCRIPTION		LENGTH	SKEW	COVER	FLOW LINE		TOP OF CASTING	SERVICE LIFE	SITE DESIGNATION	pH	BORROW FOR STRUCTURE BACKFILL	REVETMENT RIP-RAP	CONCRETE PIPE ANCHOR	PIPE END SECTION	GRATED BOX END SECTION		SAFETY METAL END SECTION		MOD. TYPE 10 CASTING REQ'D	REMARKS					
						PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE				UP STREAM	DOWN STREAM									ELEV.	ELEV.	ELEV.	YR			TYPE	SLOPE	EA	SLOPE	EA
LINE 'S-1-B'																															
204	1+389	X			300	2	C.B. Type K-10	22.4	0.8		221.342	221.275	222.667	75	NA	7.0	25									X	CONNECT TO STR. 206				
207	1+409.3	X			300	2	C.B. Type K-10	22.6	0.7		221.305	221.237	222.632	75	NA	7.0	23									X	CONNECT TO STR. 208				
208	1+409.3	X			300	2	Mod. C.B. Type K-10	2.7	0.9		221.237	221.229	222.630	75	NA	7.0	3									X	CONNECT TO STR. 209				
209	1+409.3	X			750	2	M.H. Type J-4	26.2	1.1		220.778	220.755	222.848	75	NA	7.0	74											CONNECT TO STR. 210			
210	1+424	X			300	2	C.B. Type K-10	26.1	0.7		221.312	221.233	222.637	75	NA	7.0	27									X	CONNECT TO STR. 211				
211	1+435.5	X			300	2	Mod. C.B. Type K-10	2.7	0.9		221.233	221.225	222.666	75	NA	7.0	3									X	CONNECT TO STR. 212				
212	1+435.5	X			900	2	M.H. Type J-4	26.5	1.3		220.576	220.558	222.884	75	NA	7.0	106											CONNECT TO STR. 216			
213	1+444	X			300	2	C.B. Type K-10	18.0	0.7		221.368	221.314	222.695	75	NA	7.0	18									X	CONNECT TO STR. 214				
214	1+462	X			300	2	Mod. C.B. Type K-10	24.6	0.8		221.314	221.240	222.754	75	NA	7.0	28									X	CONNECT TO STR. 215				
215	1+462	X			300	2	Mod. C.B. Type K-10	2.7	1.0		221.240	221.232	222.755	75	NA	7.0	3									X	CONNECT TO STR. 216				
216	1+462	X			900	2	M.H. Type J-4	18.0	1.4		220.558	220.546	222.973	75	NA	7.0	76											CONNECT TO STR. 219			
217	1+480	X			300	2	C.B. Type K-10	24.6	0.7		221.493	221.419	222.820	75	NA	7.0	25									X	CONNECT TO STR. 218				
21																															

IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW IS TO BE USED

STRUCTURE DATA

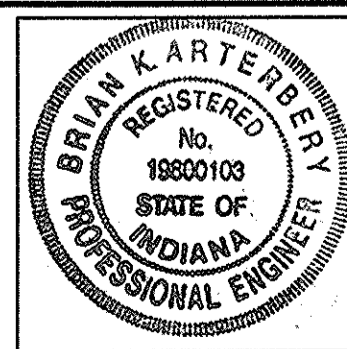
IF CONTRACTOR ELECTS TO USE METAL PIPE THICKNESS AS SHOWN BELOW IS TO BE USED

STRUCTURE NUMBER	STATION	LEFT	RIGHT	CROSS	SIZE	PIPE TYPE	DESCRIPTION		LENGTH	SKEW	COVER		FLOW LINE		TOP OF CASTING	SERVICE LIFE	SITE DESIGNATION	pH	B-BORROW FOR STRUCTURE BACKFILL	REVIEWMENT RIP-RAP	CONCRETE PIPE ANCHOR	PIPE END SECTION	GRATED BOX END SECTION		SAFETY METAL END SECTION		MOD. TYPE 10 CASTING REQ'D	REMARKS			
							MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE				ELEV.	ELEV.	ELEV.	EA									EA	SLOPE	EA	SLOPE			EA		
LINE 'S-1-B' (cont.)																															
244	1+754	X					Adjust Casting to Grade																								
241	1+754.1	X					Adjust Casting to Grade																								
245	1+790	X			300	2	C.B. Type K-10		28.6	0.7	221.342	221.256	222.588	75	NA	7.0	29										X	CONNECT TO STR. 246			
246	1+790	X			300	2	Mod. C.B. Type K-10		2.7	1.0	221.256	221.248	222.837	75	NA	7.0	4										X	CONNECT TO STR. 247			
247	1+790	X			750	2	M.H. Type C-4		36.1	1.7	220.599	220.556	223.072	75	NA	7.0	140														
248	1+825	X			300	2	C.B. Type K-10		28.2	0.8	221.219	221.134	222.463	75	NA	7.0	30										X	CONNECT TO STR. 249			
249	1+825	X			300	2	Mod. C.B. Type K-10		2.7	1.1	221.134	221.126	222.716	75	NA	7.0	4										X	CONNECT TO STR. 250			
250	1+825	X			600	2	M.H. Type C-4		35.0	1.6	220.779	220.737	222.947	75	NA	7.0	102														
251	1+843.2	X			300	2	Mod. Inlet Type C-15		28.2	1.1	221.175	221.090	222.756	75	NA	7.0	41														
252	1+843.2	X			300	2	Mod. Inlet Type C-15		2.7	1.4	221.090	221.082	223.009	75	NA	7.0	5														
253	1+843.2	X			600	2	M.H. Type C-4		18.2	1.6	220.802	220.779	223.227	75	NA	7.0	55														
254	1+863	X			300	2	C.B. Type K-10		28.2	0.8	221.225	221.140	222.474	75	NA	7.0	30										X	CONNECT TO STR. 255			
255	1+863	X			450	2	Mod. C.B. Type K-10		2.7	1.0	220.990	220.985	222.727	75	NA	7.0	5										X	CONNECT TO STR. 256			
256	1+863	X			450	2	M.H. Type C-4		19.8	1.6	220.985	220.952	222.952	75	NA	7.0	49														
257	1+910	X			300	2	C.B. Type K-10		24.8	0.7	221.819	221.745	223.066	75	NA	7.0	25										X	CONNECT TO STR. 258			
258	1+910	X			450	2	Mod. C.B. Type K-10		2.7	0.9	221.595	221.590	223.210	75	NA	7.0	4										X	CONNECT TO STR. 259			
259	1+910	X			450	2	M.H. Type C-4		47.0	1.2	221.498	221.418	223.434	75	NA	7.0	90														
260	1+953.6	X			3050 x 1520		R.C. Box Culvert		50.0		221.270	221.130		75	NA	7.0															
773	1+965.9	X			150	2	Pipe		8.3		221.338	221.280		75	NA	7.0						1									
774	1+992.4	X			150	4	Pipe		26.7		221.525	221.338		75	NA	7.0															
261	1+995	X			300	2	C.B. Type K-10		24.6	0.7	222.049	221.974	223.374	75	NA	7.0	25										X	CONNECT TO STR. 262			
262	1+995	X			300	2	Mod. C.B. Type K-10		2.7	0.9	221.974	221.965	223.373	75	NA	7.0	3										X	CONNECT TO STR. 263			
263	1+995	X			600	2	M.H. Type C-4		7.1		221.045	221.024	223.591	75	NA	7.0										6:1	1				
264	2+025	X			300	2	C.B. Type K-10		24.6	0.7	221.869	221.794	223.194	75	NA	7.0	25										X	CONNECT TO STR. 265			
265	2+025	X			300	2	Mod. C.B. Type K-10		2.7	0.9	221.794	221.785	223.193	75	NA	7.0	3										X	CONNECT TO STR. 266			
266	2+025	X			600	2	M.H. Type C-4		30.0	1.7	221.081	221.045	223.411	75	NA	7.0	97														
267	2+056	X			300	2	C.B. Type K-10		24.2	0.7	221.691	221.619	223.016	75	NA	7.0	24										X	CONNECT TO STR. 268			
268	2+056	X			300	2	Mod. C.B. Type K-10		2.7	0.9	221.619	221.610	223.016	75	NA	7.0	3										X	CONNECT TO STR. 269			
269	2+056	X			450	2	M.H. Type C-4		31.0	1.7	221.119	221.081	223.234	75	NA	7.0	81														
270	2+077.3	X			300	2	Mod. Inlet Type C-15		23.3	0.7	221.650	221.581	222.975	75	NA	7.0	23														
271	2+077.3	X			300	2	Mod. Inlet Type C-15		2.7	0.9	221.581	221.572	222.974	75	NA	7.0	3														
272	2+077.3	X			600	2	M.H. Type C-4		21.3	1.4	221.145	221.119	223.192	75	NA	7.0	56														
273	2+098	X			300	2	C.B. Type K-10		22.5	0.7	221.706	221.640	223.031	75	NA	7.0	22										X	CONNECT TO STR. 274			
274	2+098	X			300	2	Mod. C.B. Type K-10		2.7	0.9	221.640	221.631	223.031	75	NA	7.0	3										X	CONNECT TO STR. 275			
275	2+098	X			450	2	M.H. Type C-4		20.7	1.4	221.331	221.295	223.249	75	NA	7.0	45														
166	2+099.0	X					Reconstruct M.H.																								
276	2+138	X			300	2	C.B. Type K-10		20.9	0.7	221.921	221.858	223.246	75	NA	7.0	21										X	CONNECT TO STR. 277			

RECOMMENDED FOR APPROVAL *B. K. Alby* 3/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
STRUCTURE DATA

HORIZONTAL SCALE	ROAD FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	79 OF 119
CONTRACT	PROJECT
R-28625	STP-5171(017)



PIPE MATERIAL SHEET

		STRUCTURE NUMBER																						
		170	171	172	173	175	176	177	178	179	180	181	182	183	184	185	186	187	188	191	189	190	192	193
PIPE TYPE / SHAPE		3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2
SMOOTH PIPE SIZE (MM)		375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	450.0	450.0	450.0	450.0	600.0	300.0	300.0	600.0	750.0	300.0	300.0	300.0	
CORRUGATED PIPE SIZE (MM)		375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	450.0	450.0	450.0	450.0	600.0	300.0	300.0	600.0	750.0	300.0	300.0	300.0	
RCP / RCHEP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	
	U _{0.3} RATING	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																								
CORRUGATED PE PIPE, TYPE S (S)																								
RIBBED PE PIPE (S)																								
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR																								
PROFILE WALL PVC PIPE (S)																								
SMOOTH WALL PVC PIPE (S)																								
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																								
CORRUGATED STEEL PIPE- ARCH	FULLY BIT. PAVED & LINED (S)											68x13	68x13	68x13	68x13	68x13				68x13	68x13			
	THICKNESS (MM)											2.77	2.77	2.77	2.77	2.77				2.77	2.77			
CORRUGATED STEEL PIPE- ARCH	FULLY BIT. PAVED & LINED (S)																							
	THICKNESS (MM)																							
CORRUGATED STEEL PIPE- ARCH	ZINC COATED W/ BPI (C)	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13													
	THICKNESS (MM)	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77													
CORRUGATED STEEL PIPE- ARCH	ALUM. COATED TYPE 2 (C)	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13													
	THICKNESS (MM)	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77													
CORRUGATED STEEL PIPE- ARCH	ALUM. COATED TYPE 2 W/ BPI (C)	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13													
	THICKNESS (MM)	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77													
CORRUGATED STEEL PIPE- ARCH	POLYMER PRECOATED GALVANIZED (C)	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13													
	THICKNESS (MM)	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77													
CORRUGATED STEEL PIPE- ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13													
	THICKNESS (MM)	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77													
CORRUGATED STEEL PIPE- ARCH	FIBER BONDED BITUMINOUS COATED (C)	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13													
	THICKNESS (MM)	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77													
CORRUGATED STEEL PIPE- ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13													
	THICKNESS (MM)	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77													
CORRUGATED STEEL PIPE- ARCH	CORRUGATED ALUM. ALLOY PIPE (C)	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13													
	THICKNESS (MM)	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52													
CORRUGATED STEEL PIPE- ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13													
	THICKNESS (MM)	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52													
CORRUGATED STEEL PIPE- ARCH	STR. PLATE ALUMINUM ALLOY PIPE (C)																							
	THICKNESS (MM)																							
CORRUGATED STEEL PIPE- ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																							
	THICKNESS (MM)																							
CORRUGATED STEEL PIPE- ARCH	STR. PLATE STEEL PIPE (C)																							
	THICKNESS ** (MM)																							
CORRUGATED STEEL PIPE- ARCH	STR. PLATE STEEL PIPE W/ CFP (C)																							
	THICKNESS ** (MM)																							

		STRUCTURE NUMBER																	
		194	195	196	197	198	199	200	201	202	203	205	206	204	207	208	209	210	211
PIPE TYPE / SHAPE		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SMOOTH PIPE SIZE (MM)		750.0	300.0	300.0	750.0	300.0	300.0	750.0	300.0	300.0	750.0	300.0	750.0	300.0	300.0	300.0	750.0	300.0	300.0
CORRUGATED PIPE SIZE		750.0	300.0	300.0	750.0	300.0	300.0	750.0	300.0	300.0	750.0	300.0	750.0	300.0	300.0	300.0	750.0	300.0	300.0
RCP / RCHEP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
	U _{0.3} RATING	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																			
CORRUGATED PE PIPE, TYPE S (S)																			
RIBBED PE PIPE (S)																			
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR		26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00
PROFILE WALL PVC PIPE (S)																			
SMOOTH WALL PVC PIPE (S)																			
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																			
CORRUGATED STEEL PIPE- ARCH	FULLY BIT. PAVED & LINED (S)	68x13			68x13			68x13			68x13		68x13				68x13		
	THICKNESS (MM)	2.77			2.77			2.77			2.77		2.77				2.77		
CORRUGATED STEEL PIPE- ARCH	FULLY BIT. PAVED & LINED (S)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	ZINC COATED W/ BPI (C)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	ALUM. COATED TYPE 2 (C)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	ALUM. COATED TYPE 2 W/ BPI (C)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	POLYMER PRECOATED GALVANIZED (C)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	FIBER BONDED BITUMINOUS COATED (C)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	CORRUGATED ALUM. ALLOY PIPE (C)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	STR. PLATE ALUMINUM ALLOY PIPE (C)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																		
	THICKNESS (MM)																		
CORRUGATED STEEL PIPE- ARCH	STR. PLATE STEEL PIPE (C)																		
	THICKNESS ** (MM)																		
CORRUGATED STEEL PIPE- ARCH	STR. PLATE STEEL PIPE W/ CFP (C)																		
	THICKNESS ** (MM)																		

LEGEND

RCP- REINFORCED CONCRETE PIPE
 RCHEP- REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
 PE- POLYETHYLENE
 DR- DIMENSION RATION
 PVC- POLYVINYL CHLORIDE
 BIT- BITUMINOUS
 CORR- CORRUGATION
 BPI- BITUMINOUS PAVED INVERT
 ALUM- ALUMINUM
 STR- STRUCTURAL
 CFP- CONCRETE FIELD PAVING
 CIR- CIRCULAR PIPE
 DEF- DEFORMED PIPE
 (S)- SMOOTH PIPE MATERIAL
 (C)- CORRUGATED PIPE MATERIAL
 OK- ACCEPTABLE FOR USE
 (LS)- LOCK SEAM PIPE REQUIRED
 *- REFER TO STANDARD DRAWING 715-PHCL-18 OR 19 FOR NOMINAL DIAMETER APPROPRIATE FOR PAY ITEM DIAMETER
 **- TABULATED THICKNESS. REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.

Date: Feb 28, 2006, 10:0

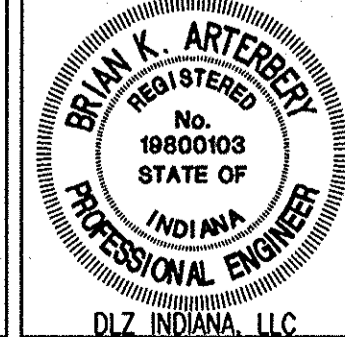
PIPE MATERIAL SHEET

PIPE TYPE / SHAPE SMOOTH PIPE SIZE (MM) CORRUGATED PIPE SIZE (MM)		STRUCTURE NUMBER																					
		212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	230	231	229	232	233
RCP / RCHEP (S)	CLASS D _{0.3} RATING	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CORRUGATED PE PIPE, TYPE S (S) *		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RIBBED PE PIPE (S) *		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR		26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00
PROFILE WALL PVC PIPE (S)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SMOOTH WALL PVC PIPE (S) *		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CORRUGATED STEEL PIPE/ PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE (MM) THICKNESS (MM)	68x13 2.77				68x13 2.77			68x13 2.77			68x13 2.77			68x13 2.77			68x13 2.77		68x13 2.77		68x13 2.77
	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE (MM) THICKNESS (MM)																					
CORRUGATED STEEL PIPE/ PIPE-ARCH	ZINC COATED W/ BPI (C)	CORR. PROFILE (MM) THICKNESS (MM)																					
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE (MM) THICKNESS (MM)																					
CORRUGATED STEEL PIPE/ PIPE-ARCH	ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE (MM) THICKNESS (MM)																					
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE (MM) THICKNESS (MM)																					
CORRUGATED STEEL PIPE/ PIPE-ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE (MM) THICKNESS (MM)																					
	FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE (MM) THICKNESS (MM)																					
CORRUGATED STEEL PIPE/ PIPE-ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE (MM) THICKNESS (MM)																					
	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE (MM) THICKNESS (MM)																					
CORRUGATED STEEL PIPE/ PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE (MM) THICKNESS (MM)																					
	STR. PLATE ALUMINUM ALLOY PIPE (C)	CORR. PROFILE (MM) THICKNESS (MM)																					
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)	CORR. PROFILE (MM) THICKNESS (MM)																					
	STR. PLATE STEEL PIPE (C)	CORR. PROFILE (MM) THICKNESS ** (MM)																					
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE (MM) THICKNESS ** (MM)																					

PIPE TYPE / SHAPE SMOOTH PIPE SIZE (MM) CORRUGATED PIPE SIZE		STRUCTURE NUMBER																				
		234	238	237	236	239	235	240	242	243	245	246	247	248	249	250	251	252	253	254		
RCP / RCHEP (S)	CLASS D _{0.3} RATING	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II		
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
CORRUGATED PE PIPE, TYPE S (S) *		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
RIBBED PE PIPE (S) *		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR				26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00		
PROFILE WALL PVC PIPE (S)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
SMOOTH WALL PVC PIPE (S) *		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
CORRUGATED STEEL PIPE/ PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE (MM) THICKNESS (MM)	68x13 2.77	68x13 2.77									68x13 2.77			68x13 2.77			68x13 2.77			
	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE (MM) THICKNESS (MM)																				
CORRUGATED STEEL PIPE/ PIPE-ARCH	ZINC COATED W/ BPI (C)	CORR. PROFILE (MM) THICKNESS (MM)																				
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE (MM) THICKNESS (MM)																				
CORRUGATED STEEL PIPE/ PIPE-ARCH	ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE (MM) THICKNESS (MM)																				
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE (MM) THICKNESS (MM)																				
CORRUGATED STEEL PIPE/ PIPE-ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE (MM) THICKNESS (MM)																				
	FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE (MM) THICKNESS (MM)																				
CORRUGATED STEEL PIPE/ PIPE-ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE (MM) THICKNESS (MM)																				
	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE (MM) THICKNESS (MM)																				
CORRUGATED STEEL PIPE/ PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE (MM) THICKNESS (MM)																				
	STR. PLATE ALUMINUM ALLOY PIPE (C)	CORR. PROFILE (MM) THICKNESS (MM)																				
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)	CORR. PROFILE (MM) THICKNESS (MM)																				
	STR. PLATE STEEL PIPE (C)	CORR. PROFILE (MM) THICKNESS ** (MM)																				
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE (MM) THICKNESS ** (MM)																				

- LEGEND**
- RCP- REINFORCED CONCRETE PIPE
 - RCHEP- REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
 - PE- POLYETHYLENE
 - DR- DIMENSION RATION
 - PVC- POLYVINYL CHLORIDE
 - BIT- BITUMINOUS
 - CORR- CORRUGATION
 - BPI- BITUMINOUS PAVED INVERT
 - ALUM- ALUMINUM
 - STR- STRUCTURAL
 - CFP- CONCRETE FIELD PAVING
 - CIR- CIRCULAR PIPE
 - DEF- DEFORMED PIPE
 - (S)- SMOOTH PIPE MATERIAL
 - (C)- CORRUGATED PIPE MATERIAL
 - OK- ACCEPTABLE FOR USE
 - (LS)- LOCK SEAM PIPE REQUIRED
 - *- REFER TO STANDARD DRAWING 715-PHCL-18 OR 19 FOR NOMINAL DIAMETER APPROPRIATE FOR PAY ITEM DIAMETER
 - **- TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.

Date: Feb 28, 2006, 10:04am User ID: ihill
File: M:\proj\0161\2218\dwg\S-Line Set\McKinney Hwy Sat - Roadway\2218P102.dwg Model Tab: xerox-2x-36



RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/27/06
DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA
DEPARTMENT OF TRANSPORTATION

**PIPE MATERIAL SHEET
LINE 'S-1-B'**

HORIZONTAL SCALE	ROAD FILE
N/A	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	82 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

PIPE MATERIAL SHEET

		STRUCTURE NUMBER																					
		255	256	257	258	259	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277
PIPE TYPE / SHAPE		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SMOOTH PIPE SIZE (MM)		450.0	450.0	300.0	450.0	450.0	300.0	300.0	600.0	300.0	300.0	600.0	300.0	300.0	450.0	300.0	300.0	600.0	300.0	300.0	450.0	300.0	300.0
CORRUGATED PIPE SIZE (MM)																							
RCP / RCHEP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
	D.O.S. RATING	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CORRUGATED PE PIPE, TYPE S (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
RIBBED PE PIPE (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR		26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00
PROFILE WALL PVC PIPE (S)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SMOOTH WALL PVC PIPE (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE (MM)	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13	68x13
		THICKNESS (MM)	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	ZINC COATED W/ BPI (C)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 (C)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE (C)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)	CORR. PROFILE (MM)																					
		THICKNESS (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE (C)	CORR. PROFILE (MM)																					
		THICKNESS ** (MM)																					
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE (MM)																					
		THICKNESS ** (MM)																					

		STRUCTURE NUMBER											
		278	279	280	281	284	285	286	287	520	523	523A	
PIPE TYPE / SHAPE		2	2	2	2	2	2	2	2	2	2	2	
SMOOTH PIPE SIZE (MM)		450.0	300.0	300.0	450.0	375.0	375.0	375.0	375.0	300.0	450.0	300.0	
CORRUGATED PIPE SIZE (MM)													
RCP / RCHEP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	II	
	D.O.S. RATING	50.0	50.0	50.0	50.0	60.0	50.0	60.0	50.0	50.0	50.0	50.0	
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		.	.	.	.	.	.	.	.	.	.	.
CORRUGATED PE PIPE, TYPE S (S) *		.	.	.	.	.	.	.	.	.	.	.
RIBBED PE PIPE (S) *		.	.	.	.	.	.	.	.	.	.	.
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR		26.00	26.00	26.00	26.00					26.00	26.00	26.00	
PROFILE WALL PVC PIPE (S)		.	.	.	.	.	.	.	.	.	.	.
SMOOTH WALL PVC PIPE (S) *		.	.	.	.	.	.	.	.	.	.	.
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		.	.	.	.	.	.	.	.	.	.	.
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE (MM)	68x13		68x13	68x13	68x13	68x13	68x13		68x13		
		THICKNESS (MM)	2.77		2.77	2.77	2.77	2.77	2.77		2.77		
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	ZINC COATED W/ BPI (C)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 (C)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE (C)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)	CORR. PROFILE (MM)											
		THICKNESS (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE (C)	CORR. PROFILE (MM)											
		THICKNESS ** (MM)											
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE (MM)											
		THICKNESS ** (MM)											

- LEGEND**
- RCP- REINFORCED CONCRETE PIPE
 - RCHEP- REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
 - PE- POLYETHYLENE
 - DR- DIMENSION RATION
 - PVC- POLYVINYL CHLORIDE
 - BIT- BITUMINOUS
 - CORR- CORRUGATION
 - BPI- BITUMINOUS PAVED INVERT
 - ALUM- ALUMINUM
 - STR- STRUCTURAL
 - CFP- CONCRETE FIELD PAVING
 - CIR- CIRCULAR PIPE
 - DEF- DEFORMED PIPE
 - (S)- SMOOTH PIPE MATERIAL
 - (C)- CORRUGATED PIPE MATERIAL
 - OK- ACCEPTABLE FOR USE
 - (LS)- LOCK SEAM PIPE REQUIRED
 - *- REFER TO STANDARD DRAWING 715-PHCL-18 OR 19 FOR NOMINAL DIAMETER APPROPRIATE FOR PAY ITEM DIAMETER
 - **- TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.

Date: Feb 28, 2006, 10:04am User ID: thill
File: M:\p06\0161\2218\civil\dwg\S-Line Set\McKinley Hwy Set - Roadway\2218RPT03.dwg Model Tab: xerox-24x36



RECOMMENDED FOR APPROVAL *B. K. Artberger* 2/27/06
DESIGN ENGINEER DATE

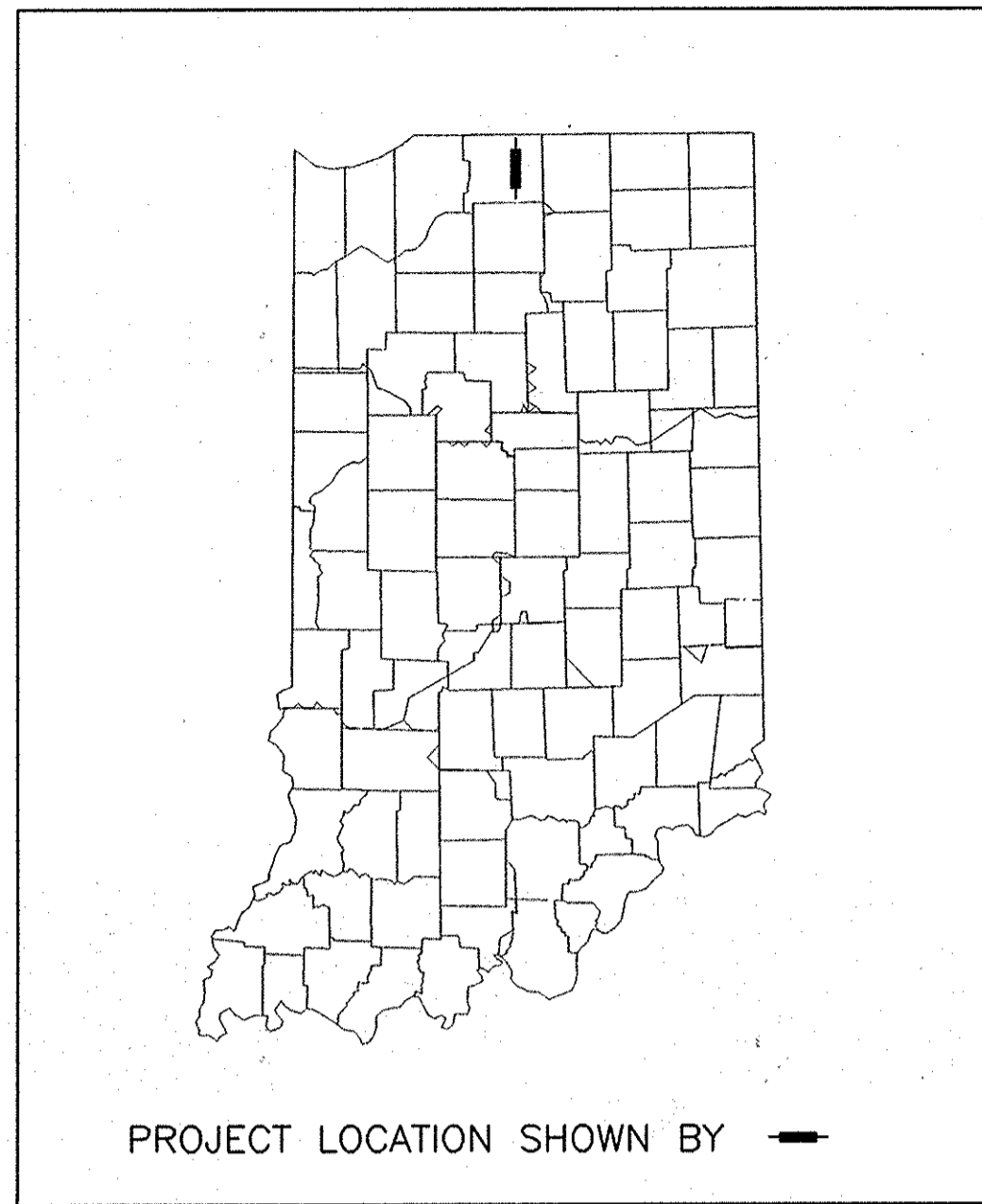
DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA
DEPARTMENT OF TRANSPORTATION

**PIPE MATERIAL SHEET
LINE 'S-1-B'**

HORIZONTAL SCALE	ROAD FILE
N/A	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	83 of 119
CONTRACT	PROJECT
R-28625	STP-5171(017)

PROJECT	DESIGNATION
STP-5171(018)	0300260
CONTRACT	
R-28625	



INDIANA
DEPARTMENT OF
TRANSPORTATION

ROAD PLANS
S.R. 331

PROJECT NO. STP-5171(018)

(X)P.E.
()R/W
()CONST.

TRAFFIC DATA		S.R. 331
A.A.D.T. (2003 PROJECTED)	27,012	V.P.D.
A.A.D.T. (2025 PROJECTED)	43,600	V.P.D.
D.H.V. (2025 PROJECTED)	4,360	V.P.H.
DIRECTIONAL DISTRIBUTION	50% NB 50% SB	
TRUCKS	5% D.H.V.	
	10% A.A.D.T.	
DESIGN DATA		
DESIGN SPEED	80	km/h
PROJECT DESIGN CRITERIA	NEW CONSTRUCTION (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL (EXPRESSWAY)	
RURAL/URBAN	URBAN (SUBURBAN)	
TERRAIN	LEVEL	
ACCESS CONTROL	FULL	

TRAFFIC DATA		DAY ROAD
A.A.D.T. (2003 PROJECTED)	13,568	V.P.D.
A.A.D.T. (2025 PROJECTED)	21,900	V.P.D.
D.H.V. (2025 PROJECTED)	1,862	V.P.H.
DIRECTIONAL DISTRIBUTION	50% EB/ 50% WB	
TRUCKS	4% D.H.V.	
	5% A.A.D.T.	
DESIGN DATA		
DESIGN SPEED	70	km/h
PROJECT DESIGN CRITERIA	RECONSTRUCTION (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	LOCAL AGENCY COLLECTOR	
RURAL/URBAN	URBAN (SUBURBAN)	
TERRAIN	LEVEL	
ACCESS CONTROL	NONE	

NEW CONSTRUCTION ON DAY ROAD FROM 480 METERS WEST OF THE INTERSECTION WITH S.R. 331 TO 370 METERS EAST OF THE INTERSECTION WITH S.R. 331, PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

GROSS LENGTH 0.847 km
NET LENGTH 0.847 km

SCALES:

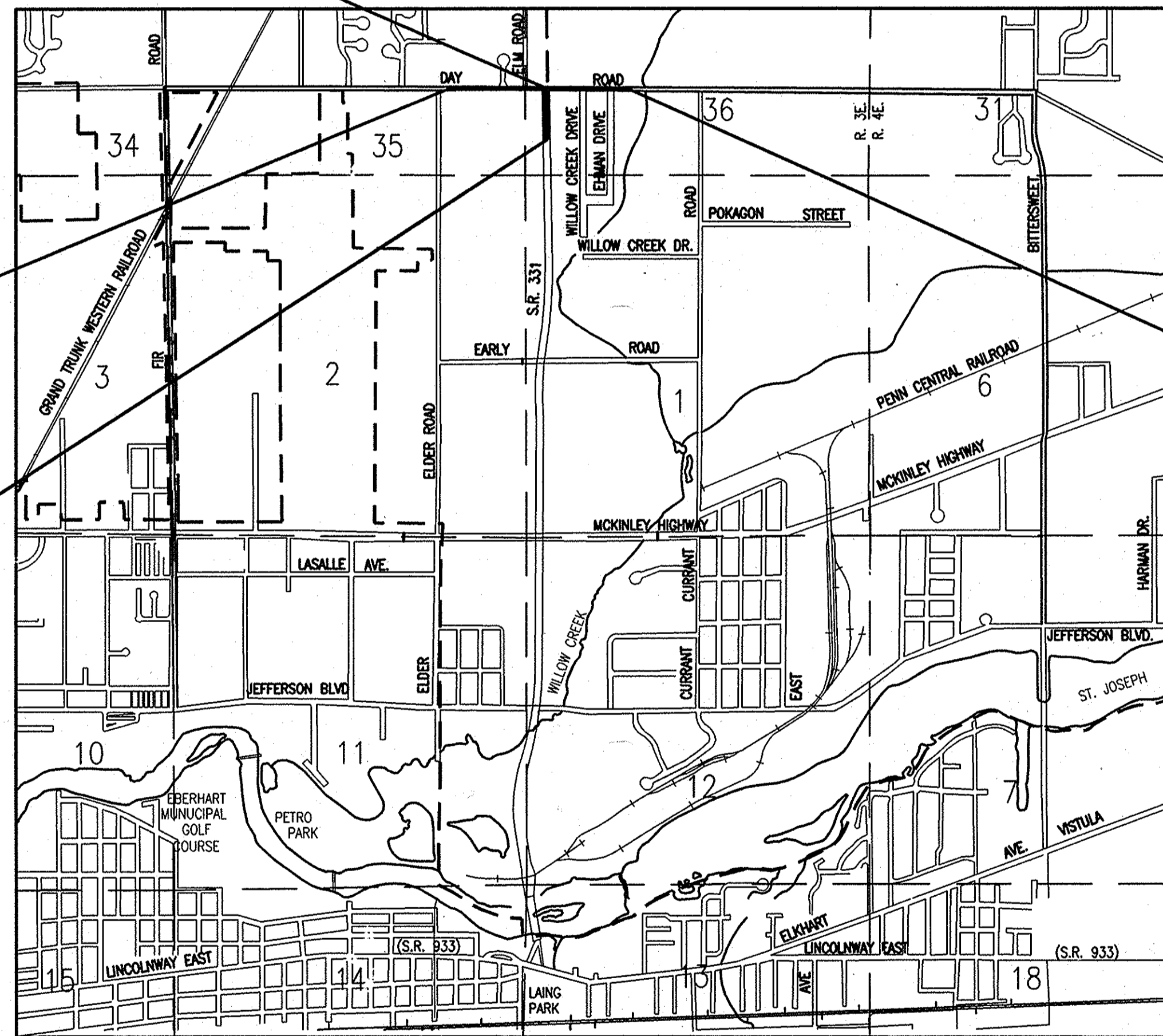
PLAN LONG: 1:200 PROFILE HORIZONTAL: 1:200 MAXIMUM GRADE = 0.592%
TRANS: 1:200 VERTICAL: 1:50

END CONSTRUCTION
STA. 13+306.986 LINE 'PRB'

BEGIN PROJECT NO. STP-5171(018)
STA. 3+074.000 LINE 'S-3-B'

BEGIN CONSTRUCTION
STA. 13+196.000 LINE 'PRB'

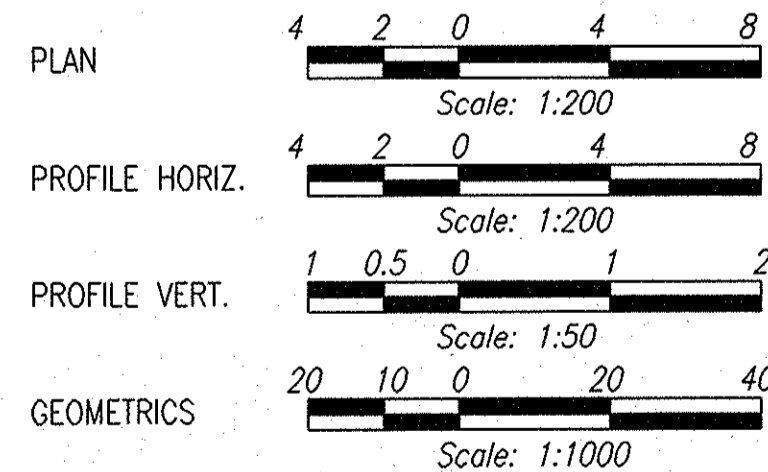
END PROJECT NO. STP-5171(018)
STA. 3+921.135 LINE 'S-3-B'



PENN TOWNSHIP
ST. JOSEPH COUNTY

SCALE: 1:20 000

SCALES:



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

Date: Feb. 24, 2006, 2:45pm User: G. H. B. File: M:\proj\0181\122191.dwg Plot: Day Road S&T - Roadway\22186201.dwg Model Tab: none-24x36



FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPT. OF TRANSPORTATION

APPROVED: _____
DATE _____

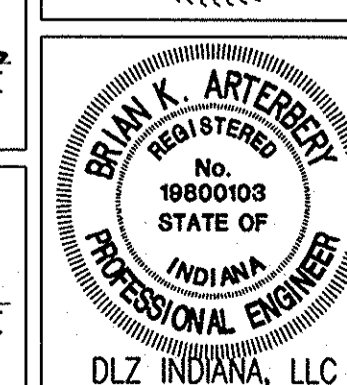
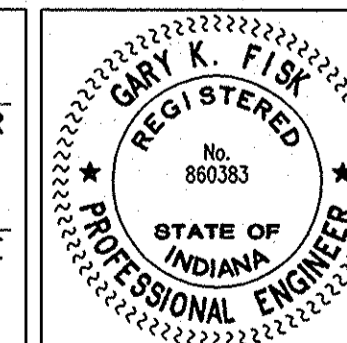
DIVISION ADMINISTRATOR

PLANS PREPARED BY: DLZ INDIANA, LLC
2211 E. JEFFERSON BLVD.
SOUTH BEND, INDIANA 46615 (574) 236 - 4400
PHONE NUMBER

CERTIFIED BY: *Ray K. Fisk* 02-24-2006
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 860383 DATE

CERTIFIED BY: *B. K. Atch* 2/27/06
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 19800103 DATE

APPROVED FOR LETTING: *James A. Goad* 3/20/06
CHIEF, DIVISION OF DESIGN DATE

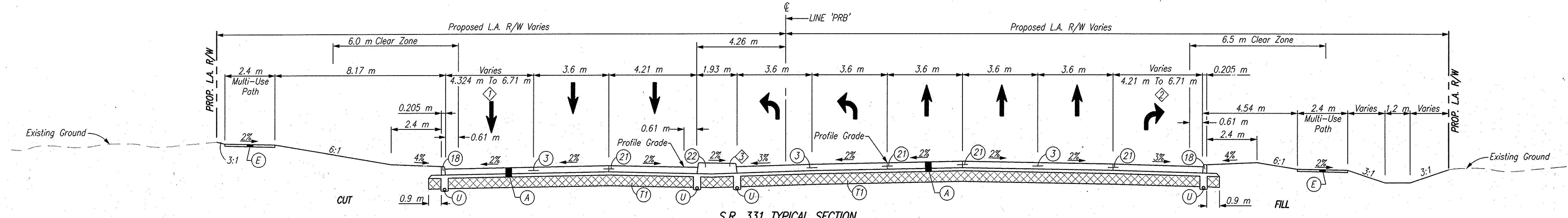


INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2006
TO BE USED WITH THESE PLANS

ROAD FILE	
DESIGNATION	0300260
SHEETS	1 of 93
CONTRACT	R-28625
PROJECT	STP-5171(018)

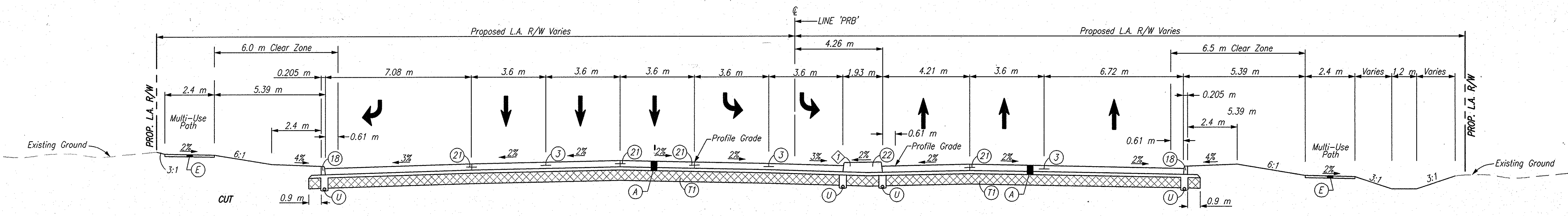
R-28625

2 of 6



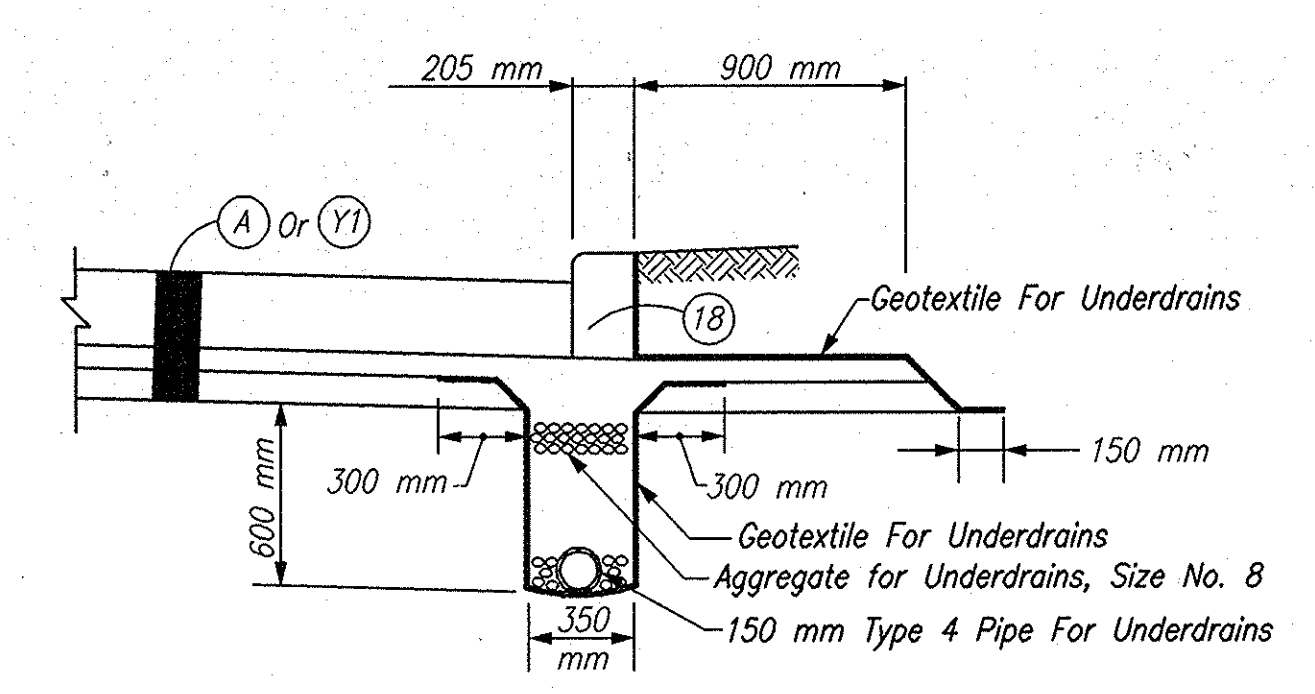
S.R. 331 TYPICAL SECTION
 Sta. 13+196.000 Line 'PRB' To Sta. 13+269.267 Line 'PRB'
 SCALE: 1:100

- ◇ Varies 4.324 m @ Sta. 13+196.000 Line 'PRB' To 6.71 m @ Sta. 13+241.500 Line 'PRB'
- ◇ Varies 4.21 m @ Sta. 13+197.865 Line 'PRB' To 6.71 m @ Sta. 13+235.500 Line 'PRB'
- ◇ Concrete Center Curb Ends @ Sta. 13+239.372 Line 'PRB'



S.R. 331 TYPICAL SECTION
 Sta. 13+269.267 Line 'PRB' To Sta. 13+306.986 Line 'PRB'
 SCALE: 1:100

- ◇ Concrete Center Curb Begins @ Sta. 13+000.00 Line 'PRB'

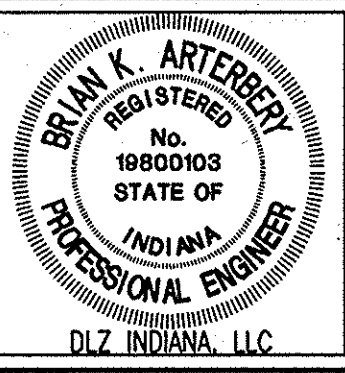


UNDERDRAIN DETAIL, PCCP PAVEMENT
 Scale: 1:25

EARTHWORK SUMMARY	
FILL	m³
VOLUME OF FILL	2,688
SUB-TOTAL	2,688
15% SWELL	403
TOTAL FILL VOLUME	3,091
EXCAVATION	m³
VOLUME OF CUT	13,671
SUB-TOTAL	13,671
LESS PAVEMENT REMOVAL	578
TOTAL COMMON EXCAVATION	13,093
LESS TOTAL FILL	3,091
TOTAL EXCESS EXCAVATION	10,002

- LEGEND**
- ③ Longitudinal Joint
 - ⑱ Curb, Integral, B, Concrete
 - ⑳ Longitudinal Construction Joint
 - ㉑ Concrete Center Curb, Type D
 - Ⓐ 300 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Compacted Aggregate, No. 53, Base)
 - Ⓔ Sidewalk, Concrete, 100 mm
 - Ⓣ Subgrade Treatment, Type III
 - Ⓤ Underdrain
 - Ⓨ 250 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)

Date: Mar 27, 2006, 1:33pm, User: JD, Title: File: M:\Users\JD\16122181\Drawings\Road\Set - Roadway\22181d02.dwg, Model Tab: xrow-24x36



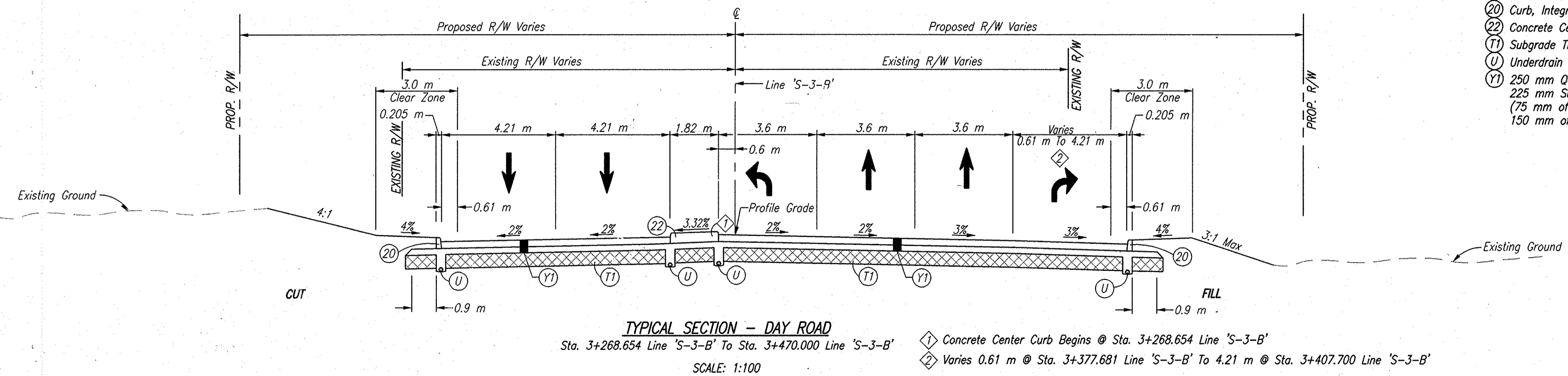
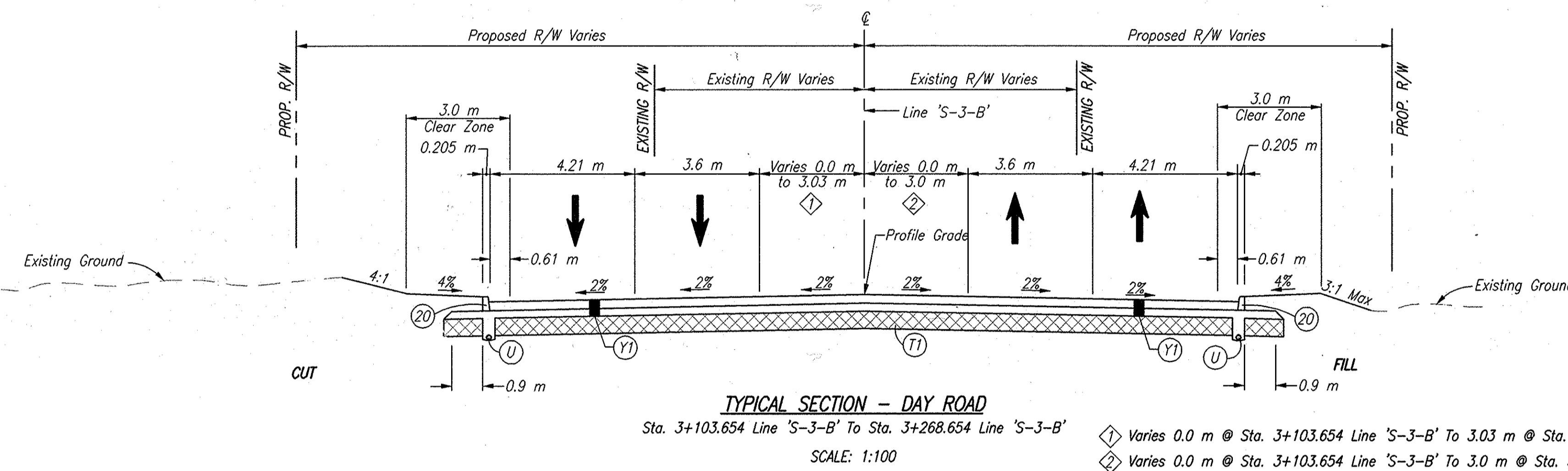
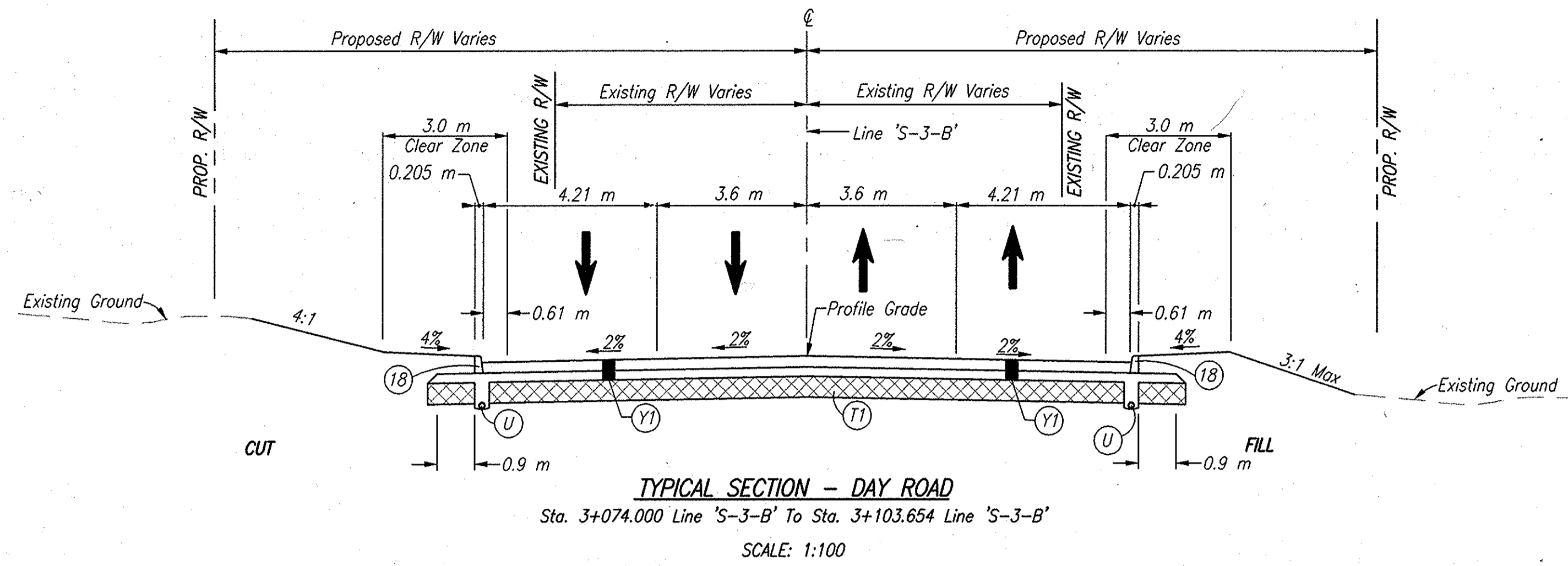
RECOMMENDED FOR APPROVAL *B. K. Arterberry* 3/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS LINE 'PRB'

HORIZONTAL SCALE	ROAD FILE
AS NOTED	DESIGNATION
VERTICAL SCALE	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



LEGEND

- (18) Curb, Integral, B, Concrete
- (20) Curb, Integral, Concrete
- (22) Concrete Center Curb, Type D
- (T1) Subgrade Treatment, Type II
- (U) Underdrain
- (Y1) 250 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)

Date: Mar 27, 2006, 12:55pm User ID: thill
File: M:\Proj\016112218\ch\Day Road Sct - Roadway\2218\Day Road Sct.dwg Model Tab: xrow-24x36



RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 3/27/06
DESIGN ENGINEER DATE

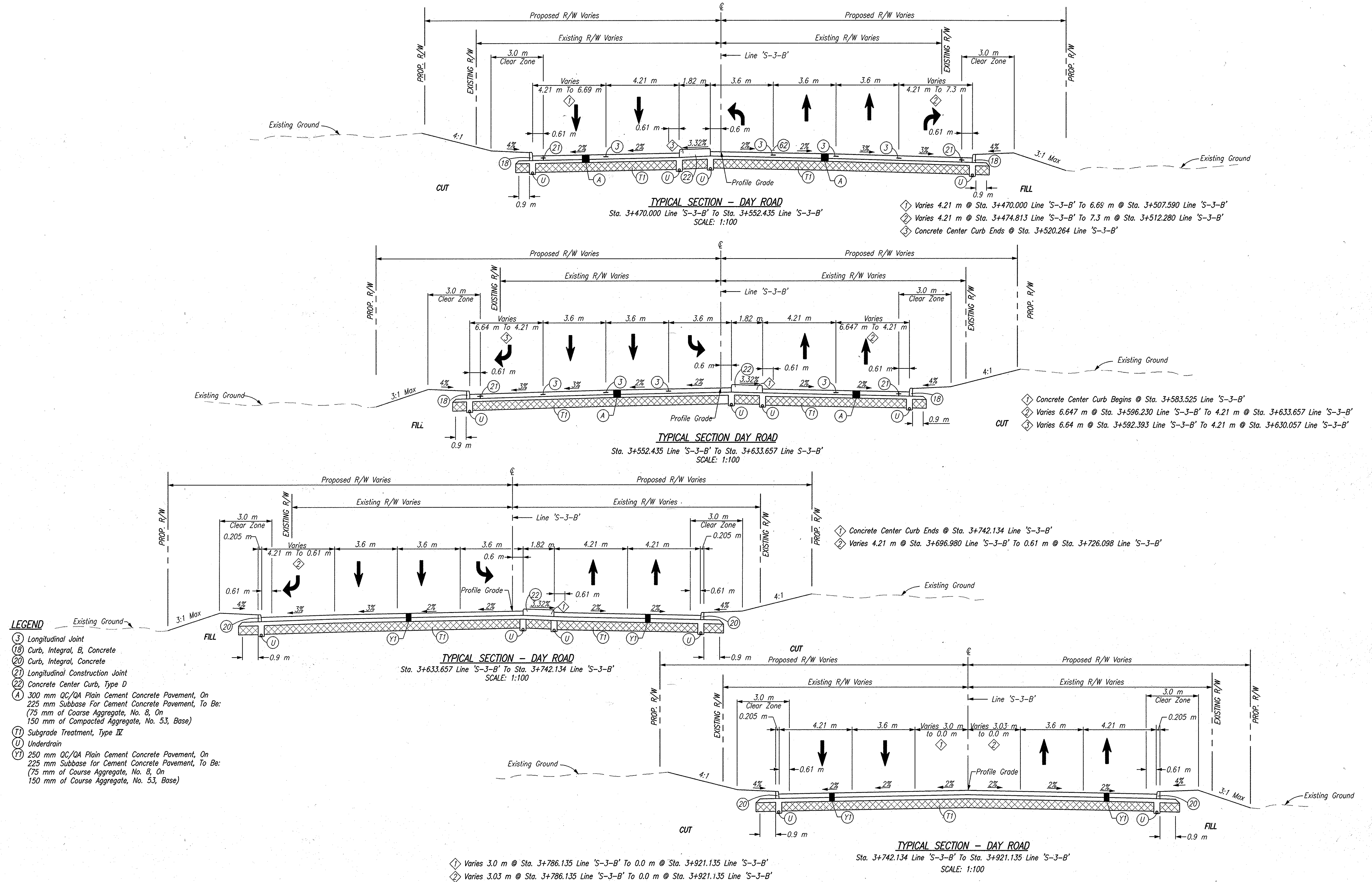
DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

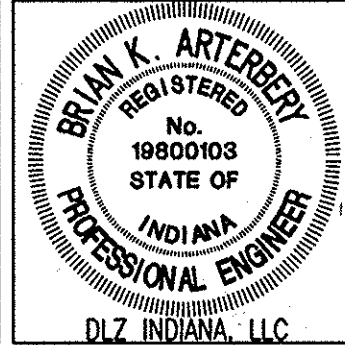
TYPICAL SECTIONS
LINE 'S-3-B'

HORIZONTAL SCALE	ROAD FILE
AS NOTED	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

Date: Mar 27, 2006, 12:48pm User ID: thill
 File: M:\proj\0161\2218\Line Set\Day Road Set - Roadway\2218\06.dwg Model Tab: xerox-24x36



- LEGEND**
- (3) Longitudinal Joint
 - (18) Curb, Integral, B, Concrete
 - (20) Curb, Integral, Concrete
 - (21) Longitudinal Construction Joint
 - (22) Concrete Center Curb, Type D
 - (A) 300 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Compacted Aggregate, No. 53, Base)
 - (TI) Subgrade Treatment, Type II
 - (U) Underdrain
 - (Y) 250 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Coarse Aggregate, No. 53, Base)



RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 3/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS LINE 'S-3-B'

HORIZONTAL SCALE	ROAD FILE
AS NOTED	DESIGNATION
VERTICAL SCALE	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	5 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

SEC. 2 T37N R3E
PENN TWP.
ST. JOSEPH CO.

SEC. 35 T38N R3E
PENN TWP.
ST. JOSEPH CO.

- INDEX**
- ⓐ Anthony J. & Le-An Lopez
 - ⓑ William F. & Lula M. & Philip T. Smith
 - ⓒ Jack A. Barnett
 - ⓓ Lesley E. & Connie L. Wilson
 - ⓔ Brian & Kelly Magyar
 - ⓕ William H. & Betty R. Probst
 - ⓖ Robert F. & Shirley M. Hanes
 - ⓗ Randy W. & Patricia Sanders
 - ⓓ Lloyd R. & Dawn R. Campbell
 - ⓞ Arthur D. & Pamela S. Conner
 - ⓢ Oscar P. & Virginia E. Galley

S.E. Cor., S.E. 1/4, Sec. 35
S.W. Cor., S.W. 1/4, Sec. 36

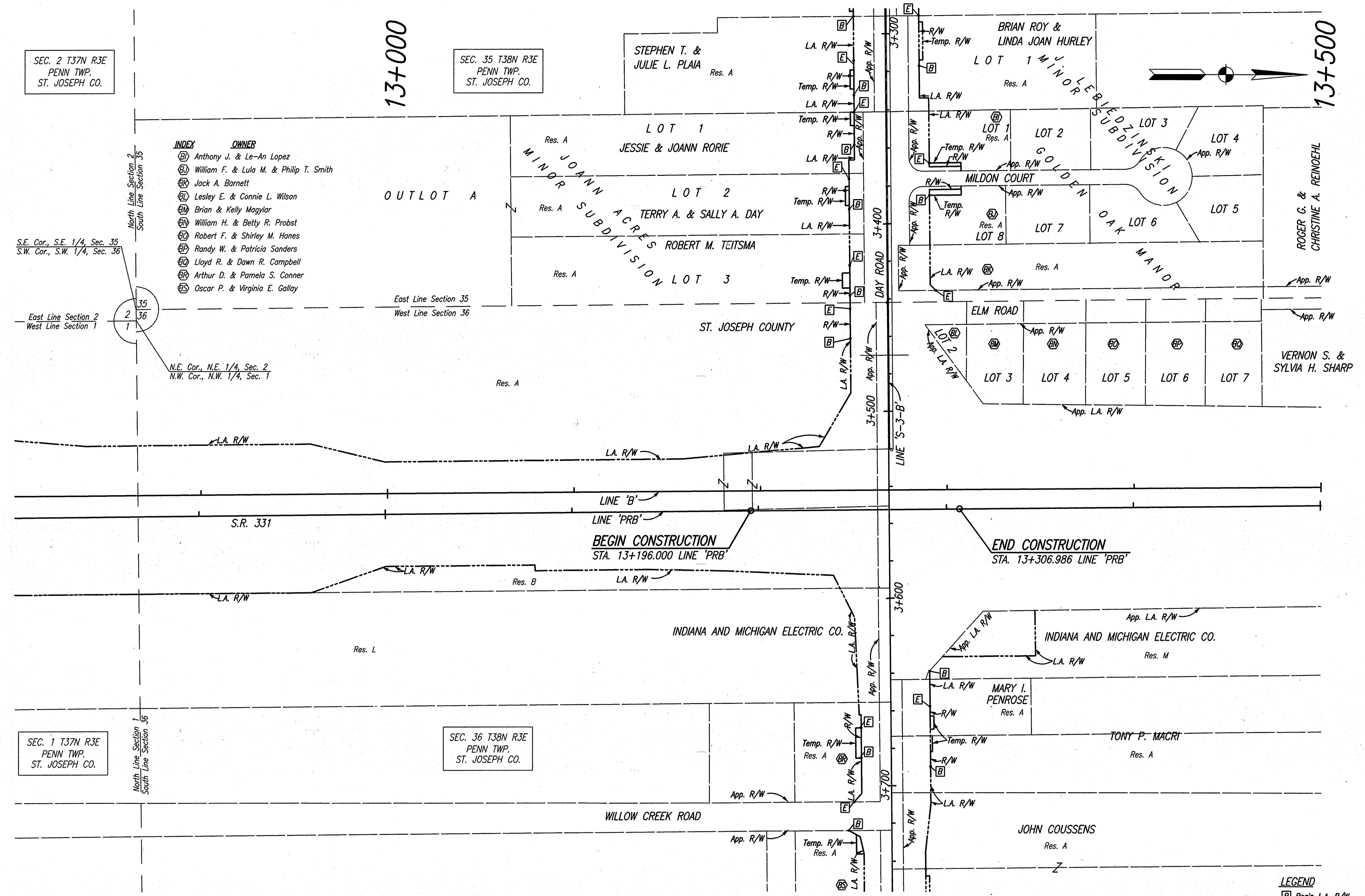
East Line Section 2
West Line Section 1

N.E. Cor., N.E. 1/4, Sec. 2
N.W. Cor., N.W. 1/4, Sec. 1

SEC. 1 T37N R3E
PENN TWP.
ST. JOSEPH CO.

SEC. 36 T38N R3E
PENN TWP.
ST. JOSEPH CO.

Date: Feb. 28, 2006, 8:28am User: B. K. Arterberry
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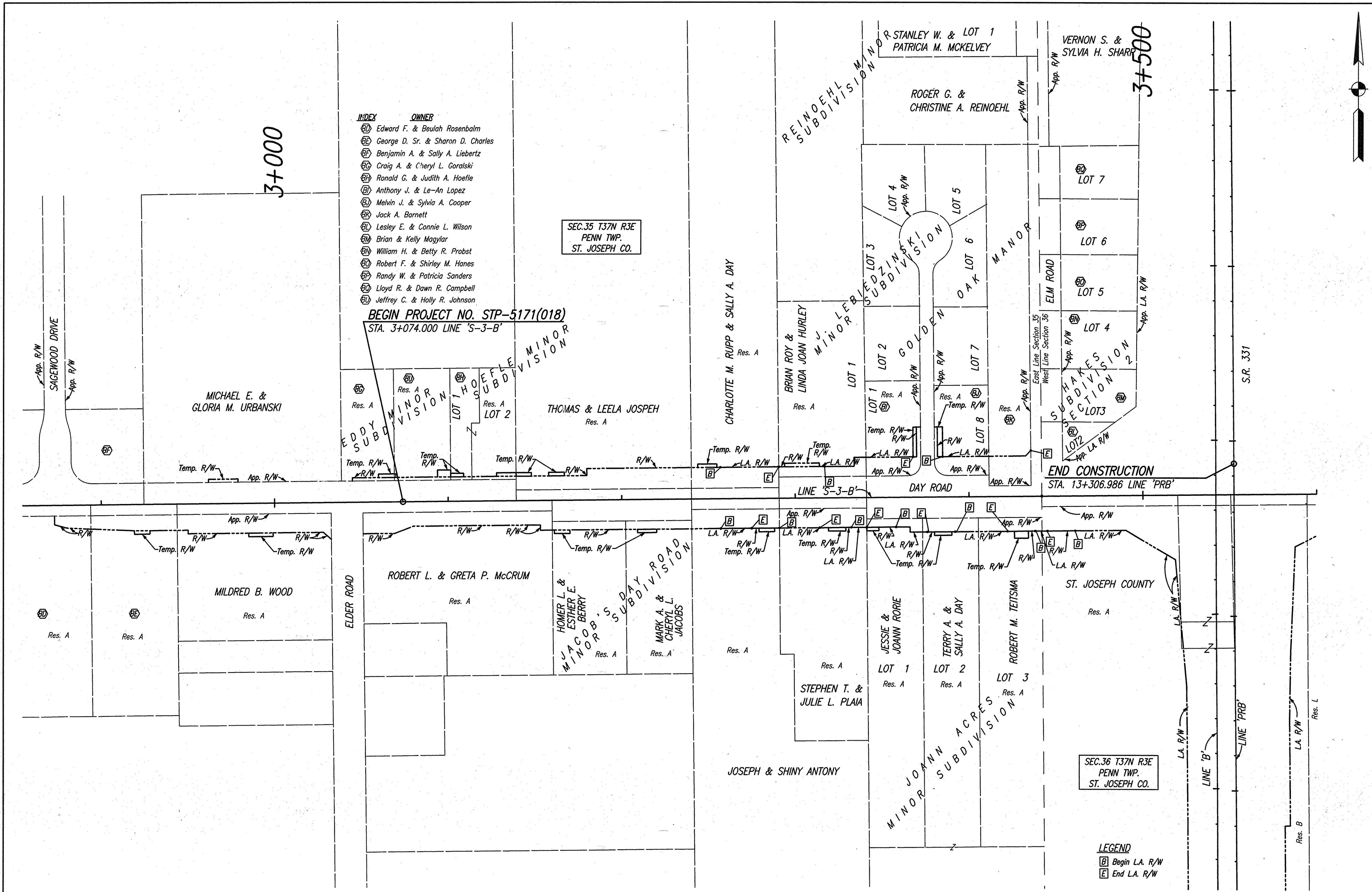
LEGEND
 ⓑ Begin L.A. R/W
 ⓔ End L.A. R/W



RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/21/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 PLAT 1

HORIZONTAL SCALE	ROAD FILE
1:1000	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	6 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



- INDEX OWNER**
- Ⓜ Edward F. & Beulah Rosenbalm
 - Ⓜ George D. Sr. & Sharon D. Charles
 - Ⓜ Benjamin A. & Sally A. Liebertz
 - Ⓜ Craig A. & Cheryl L. Goralski
 - Ⓜ Ronald G. & Judith A. Hoefle
 - Ⓜ Anthony J. & Le-An Lopez
 - Ⓜ Melvin J. & Sylvia A. Cooper
 - Ⓜ Jack A. Barnett
 - Ⓜ Lesley E. & Connie L. Wilson
 - Ⓜ Brian & Kelly Magylar
 - Ⓜ William H. & Betty R. Probst
 - Ⓜ Robert F. & Shirley M. Hanes
 - Ⓜ Randy W. & Patricia Sanders
 - Ⓜ Lloyd R. & Dawn R. Campbell
 - Ⓜ Jeffrey C. & Holly R. Johnson

SEC.35 T37N R3E
PENN TWP.
ST. JOSEPH CO.

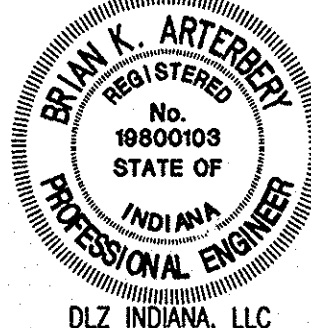
BEGIN PROJECT NO. STP-5171(018)
STA. 3+074.000 LINE 'S-3-B'

END CONSTRUCTION
STA. 13+306.986 LINE 'PRB'

SEC.36 T37N R3E
PENN TWP.
ST. JOSEPH CO.

LEGEND
 [B] Begin L.A. R/W
 [E] End L.A. R/W

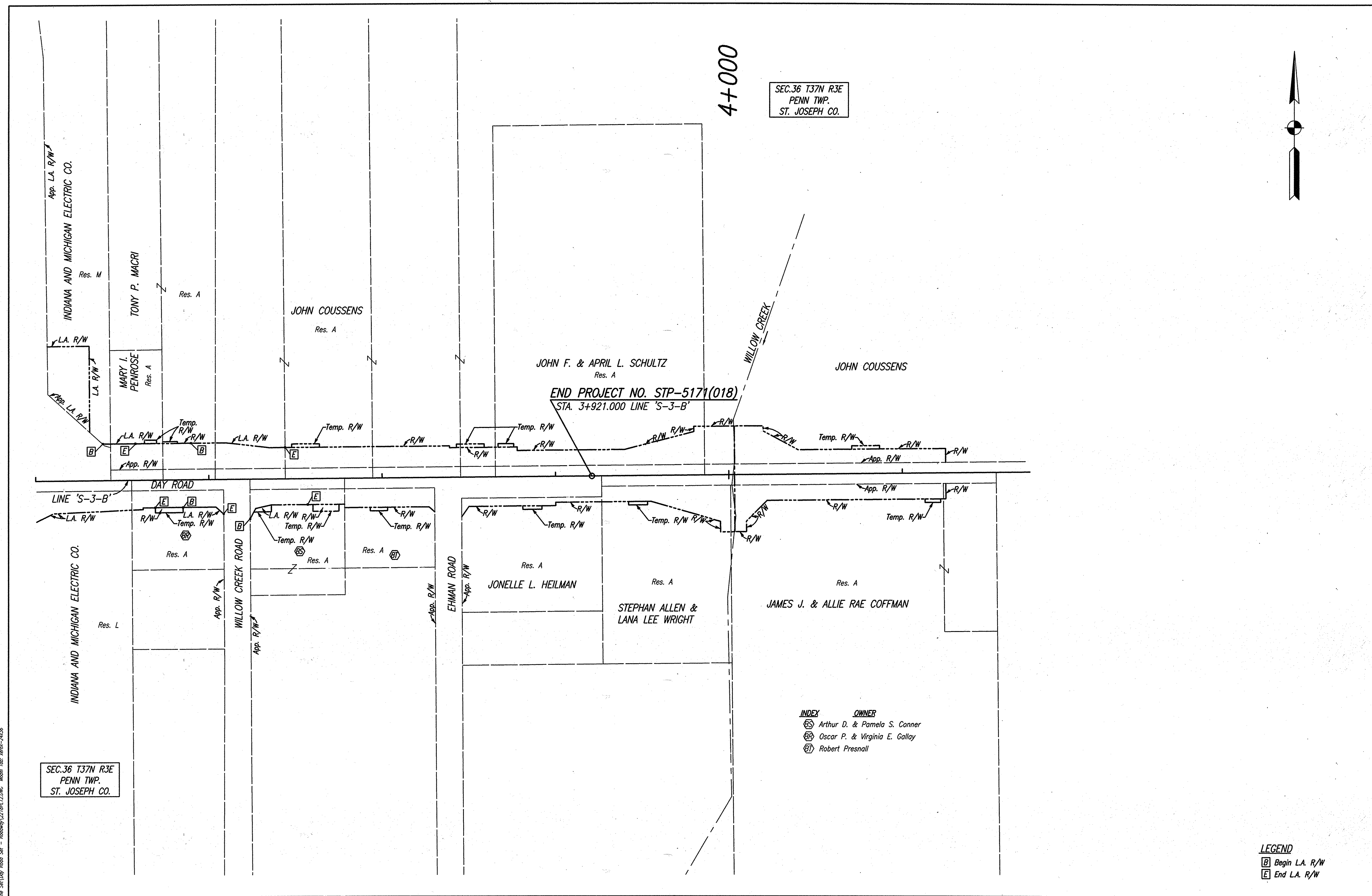
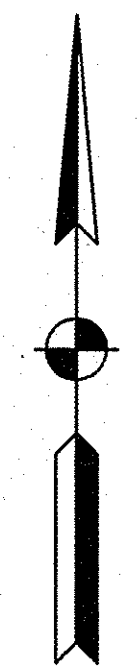
Date: Feb 28, 2008, 9:28am User: GJ: All
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RECOMMENDED FOR APPROVAL *B. K. Atty* 2/27/08
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 PLAT 1

HORIZONTAL SCALE	ROAD FILE
1:1000	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	7 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



SEC.36 T37N R3E
PENN TWP.
ST. JOSEPH CO.

SEC.36 T37N R3E
PENN TWP.
ST. JOSEPH CO.

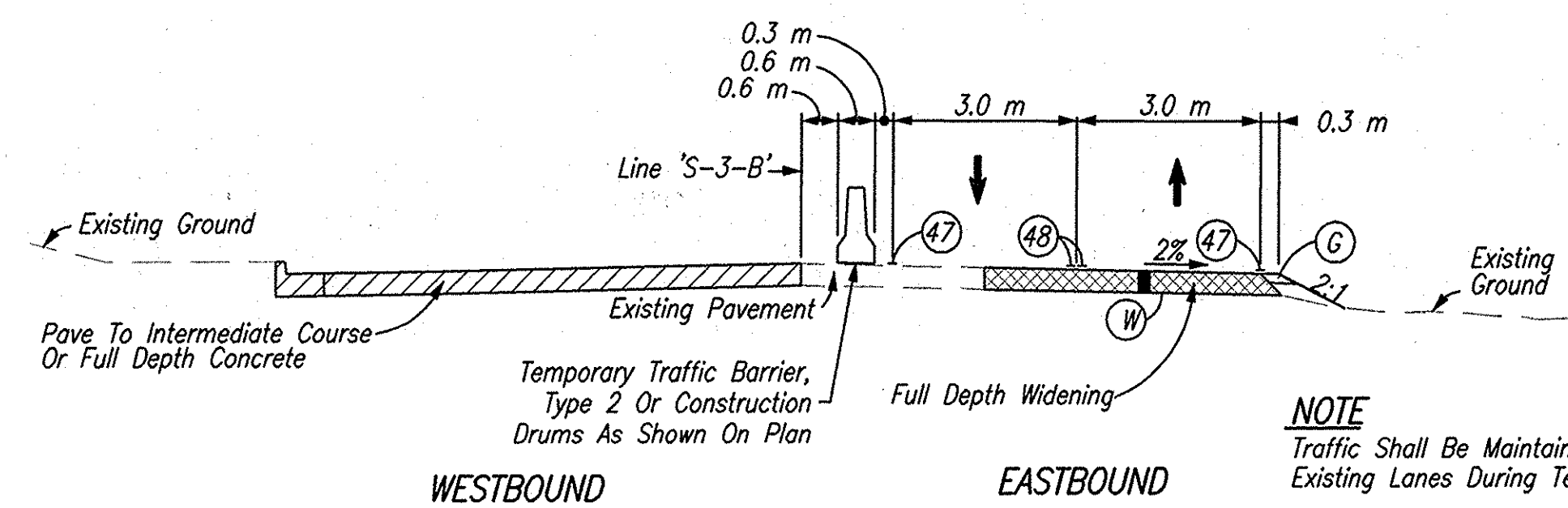
- INDEX** **OWNER**
- ⊗ Arthur D. & Pamela S. Conner
 - ⊗ Oscar P. & Virginia E. Gally
 - ⊗ Robert Presnall

LEGEND

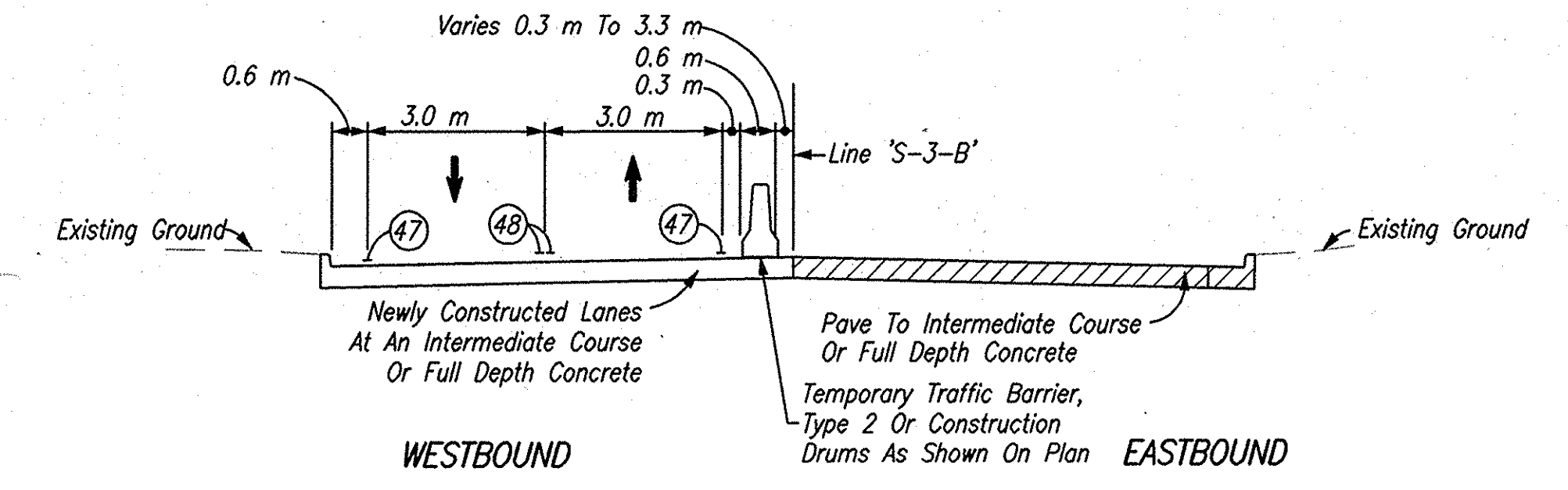
- ⊗ Begin L.A. R/W
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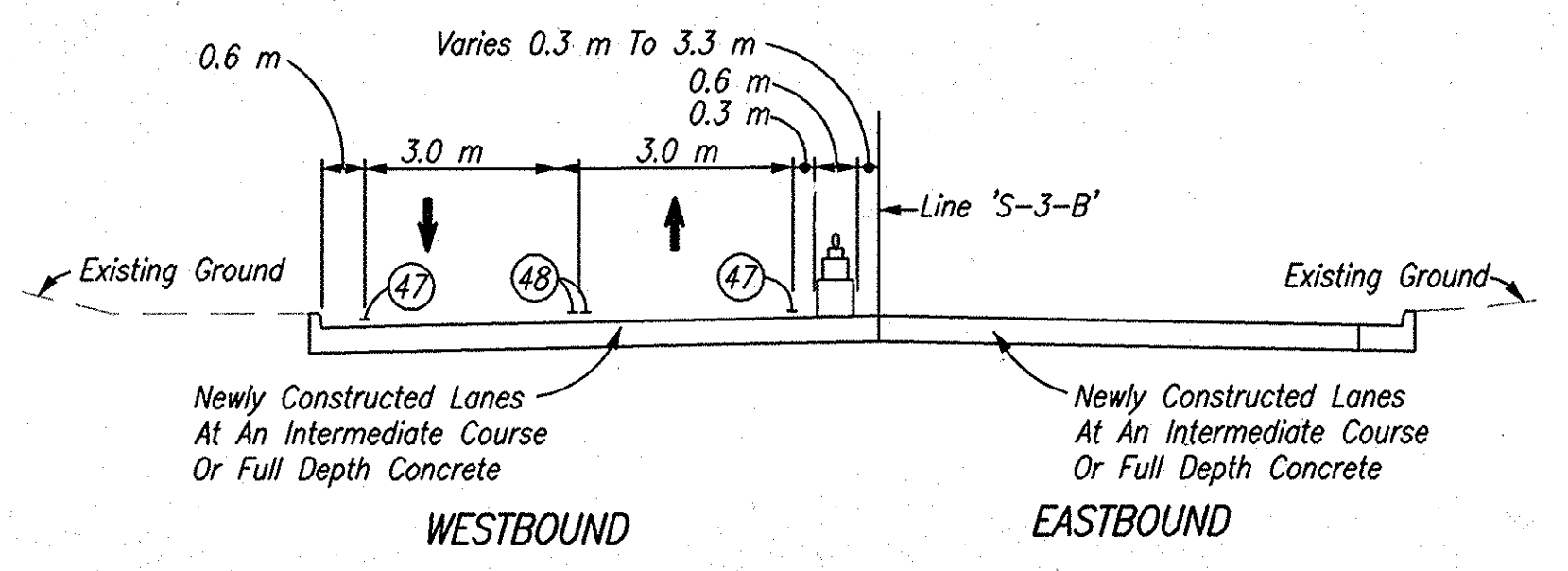
		RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i> 2/27/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION PLAT 1	HORIZONTAL SCALE	ROAD FILE
		DESIGNED: ERW	DRAWN: TH		VERTICAL SCALE	DESIGNATION
CHECKED: BKA	CHECKED: ERW			SURVEY BOOK	SHEETS	
				ELECTRONIC	8 of 93	
				CONTRACT	PROJECT	
				R-28625	STP-5171(018)	



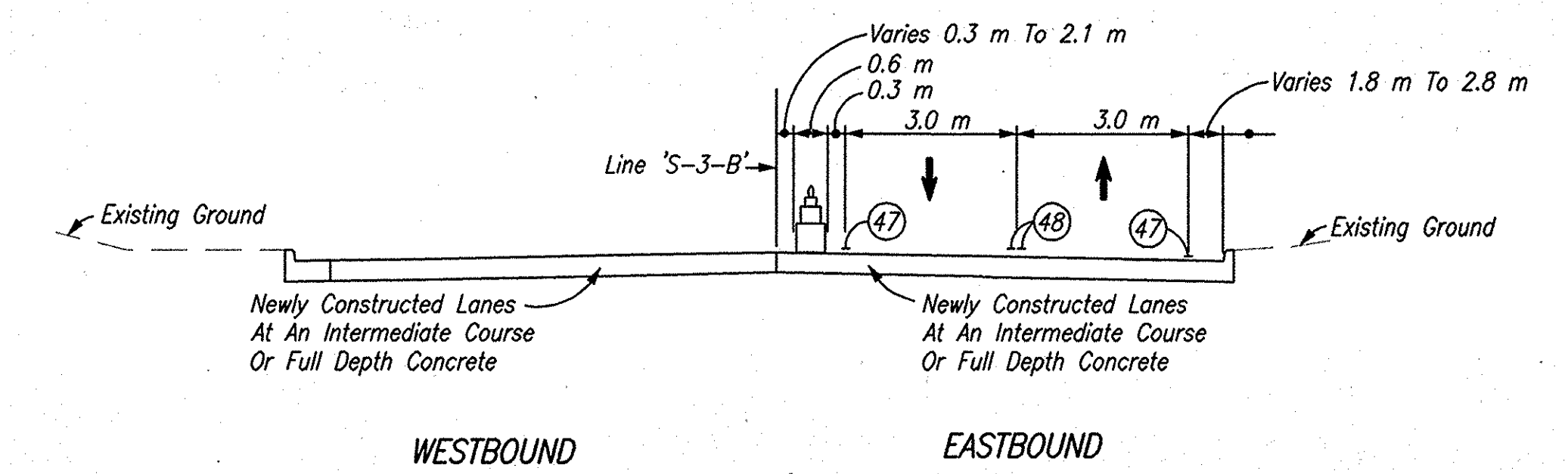
PHASE I (DAY) - MAINTAIN TWO LANES OF TRAFFIC
Sta. 3+074.000 Line 'S-3-B' To Sta. 3+921.000 Line 'S-3-B'



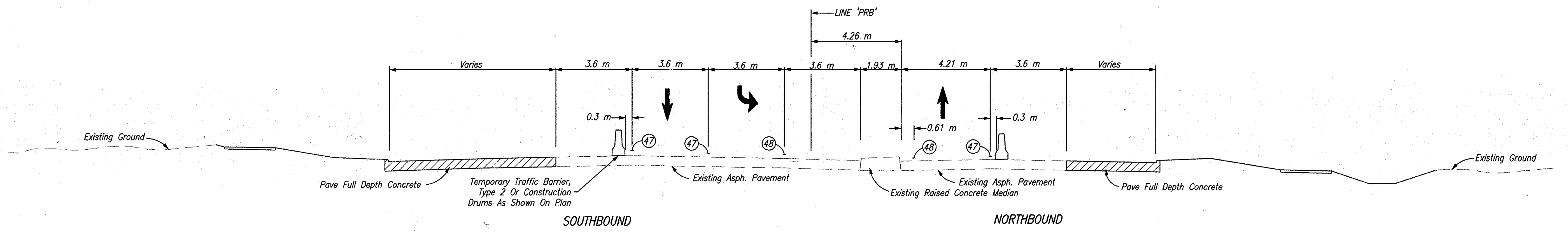
PHASE II (DAY) - MAINTAIN TWO LANES OF TRAFFIC
Sta. 3+074.000 Line 'S-3-B' To Sta. 3+921.000 Line 'S-3-B'



PHASE III (DAY) - MAINTAIN TWO LANES OF TRAFFIC
Sta. 3+074.000 Line 'S-3-B' To Sta. 3+921.000 Line 'S-3-B'



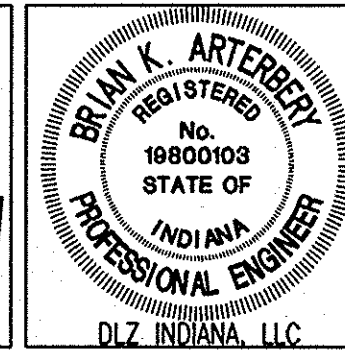
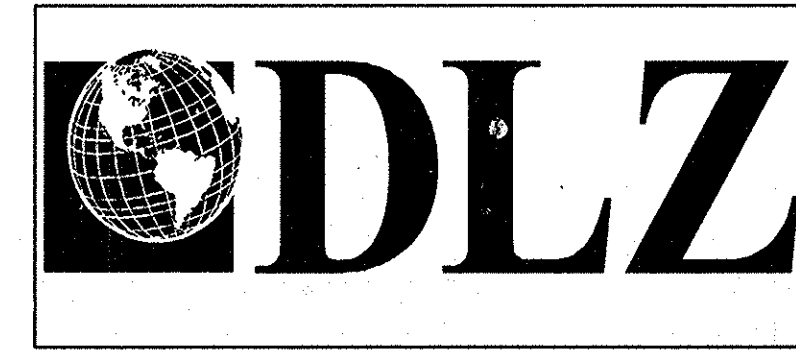
PHASE IV (DAY) - MAINTAIN TWO LANES OF TRAFFIC
Sta. 3+074.000 Line 'S-3-B' To Sta. 3+921.000 Line 'S-3-B'



PHASE I (S.R. 331) - MAINTAIN TWO LANES OF TRAFFIC
Sta. 13+270.067 Line 'PRB' To Sta. 13+306.986 Line 'PRB'

- LEGEND**
- (C) 150 mm Compacted Aggregate, No. 73
 - (W) HMA For Temporary Pavement To Be:
90 Kg/m² HMA, Type A, Surface, On
150 Kg/m² HMA, Type A, Intermediate, On
300 Kg/m² HMA, Type A, Base, On
150 mm Compacted Aggregate, No. 53, Base
 - (7) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - (8) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - [Hatched Box] Area Under Construction

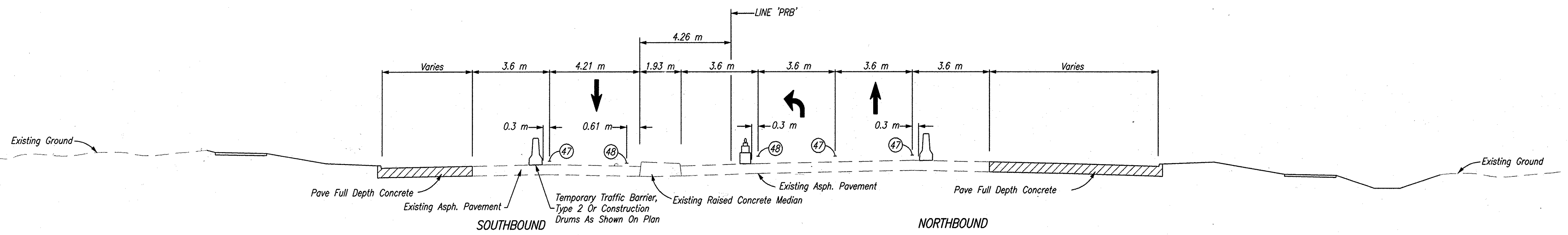
Date: Mar 27, 2006, 11:36am User: ID: thill File: M:\Proj\0161\2218\civil\dwg\S-Line SHA Day Road SH - Roadway\2218MT01.dwg Model Tab: xerox-24x36



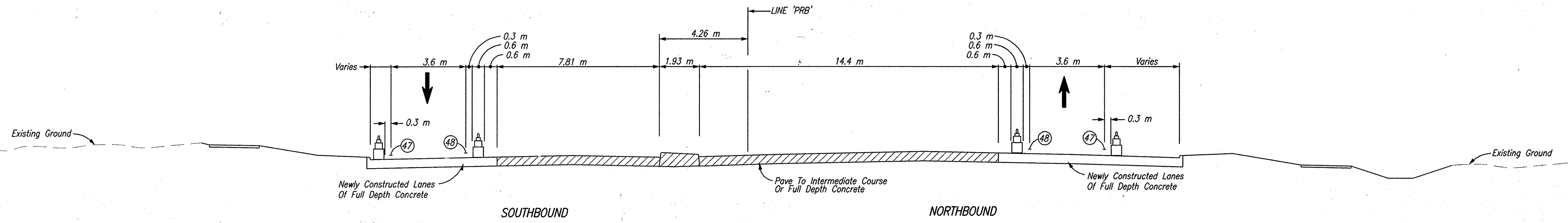
RECOMMENDED FOR APPROVAL	<i>B. K. Arterbery</i>	3/27/06	DATE
DESIGNED:	ERW	DRAWN:	TH
CHECKED:	BKA	CHECKED:	ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC TYPICALS

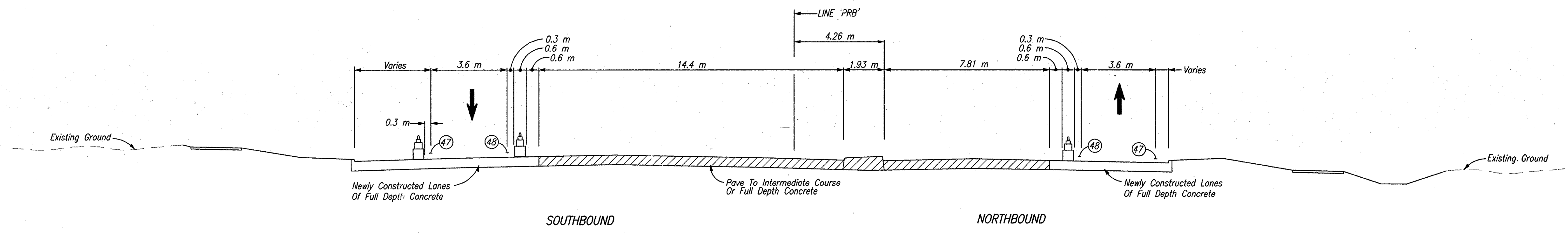
HORIZONTAL SCALE	ROAD FILE
1:100	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	9 of 93
CONTRACT	PROJECT
R-28625	STP-5171(017)



PHASE II (S.R. 331) - MAINTAIN TWO LANES OF TRAFFIC
 Sta. 13+196.000 Line 'PRB' To Sta. 13+270.067 Line 'PRB'



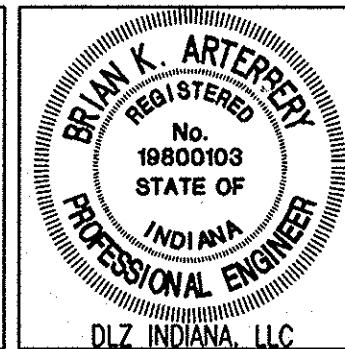
PHASE III (S.R. 331) - MAINTAIN TWO LANES OF TRAFFIC
 Sta. 13+196.000 Line 'PRB' To Sta. 13+270.067 Line 'PRB'



PHASE IV (S.R. 331) - MAINTAIN TWO LANES OF TRAFFIC
 Sta. 13+270.067 Line 'PRB' To Sta. 13+306.986 Line 'PRB'

- LEGEND**
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - ▨ Area Under Construction

Date: Mar 23, 2006, 1:20pm User ID: thill
 File: M:\proj\0161\2218\civil\veg\S-Line Set\Day Road Set - Roadway\2218MT02.dwg Model Tab: xerox-24x36



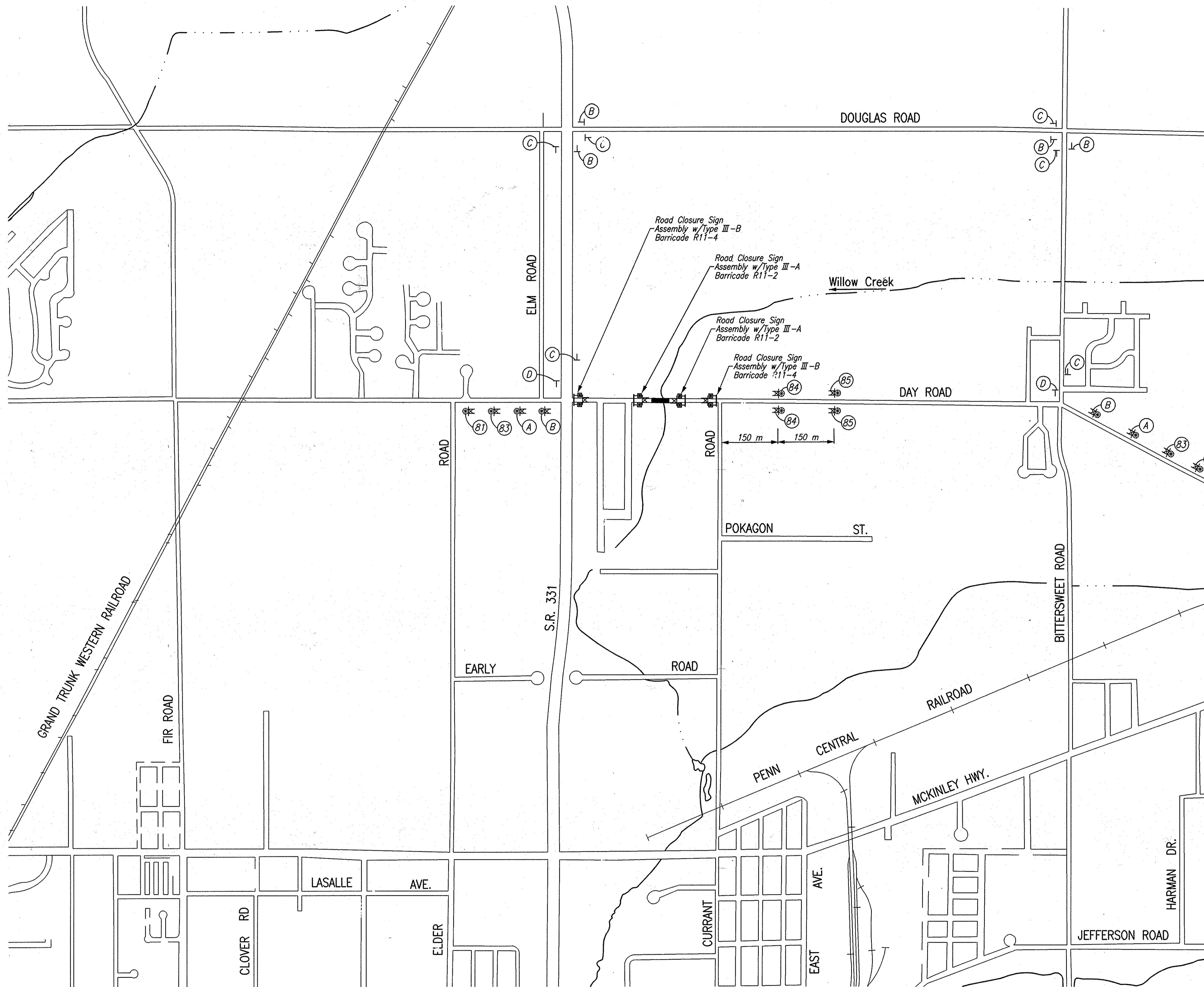
RECOMMENDED FOR APPROVAL *B. K. Arterberry* 3/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TYPICALS

HORIZONTAL SCALE	ROAD FILE
1:100	
VERTICAL SCALE	DESIGNATION
	0300259
SURVEY BOOK	SHEETS
ELECTRONIC	10 of 93
CONTRACT	PROJECT
R-28625	STP-5171(017)



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	8 EACH
Detour Route Marker Assembly	16 EACH
Type III-A Barricade	14.4 m
Type III-B Barricade	23.0 m

LEGEND

- (81) XW20-3 'ROAD CLOSED AHEAD' Sign
- (83) XW20-2 'DETOUR AHEAD'
- (84) XW20-3 'ROAD CLOSED 500 FT' Sign
- (85) XW20-3 'ROAD CLOSED 1000 FT' Sign
- (A) Advance Turn Detour Route Marker Assembly
- (B) Directional Detour Route Marker Assembly
- (C) Confirming Detour Route Marker Assembly
- (D) End Detour Route Marker Assembly
- Type III - Barricade
- ⊥ Route Marker Assembly
- ⊥ Construction Sign
- Type 'A' Construction Warning Light
- ⊗ Type 'B' Construction Warning Light

NOTES

1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
3. Phase IA, Structure No. 394, May Be Constructed Concurrently With Phase IB East Of S.R. 331, But Phase IA Shall Be Completed Within A 30 Calendar Day Closure Of Day Road.

Date: Mar 27, 2006, 11:35am User ID: thill
 File: M:\proj\0181\2218\ch\Day Road Set - Roadway\2218MT03.dwg Model Tab: serex-24x36

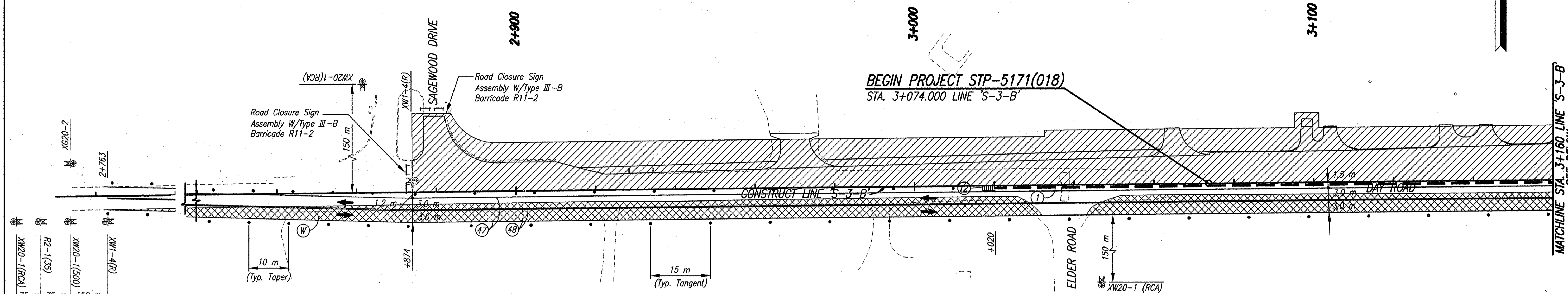
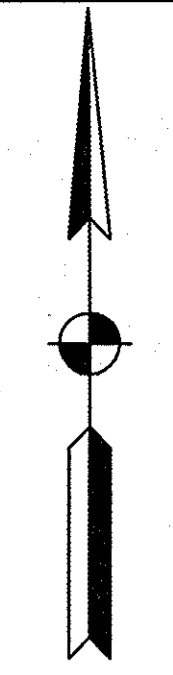


RECOMMENDED FOR APPROVAL *B. K. Arterberry* 3/27/06 DATE
 DESIGN ENGINEER
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
 PHASE IA - DETOUR

HORIZONTAL SCALE	ROAD FILE
1:300	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	11 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



LEGEND

- ① Temporary Traffic Barrier, Type 2
- ⑫ Energy Absorbing Terminal, CZ, TL-3
- ④⑩ Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- ④⑦ Temporary Pavement Markings, Removable, Solid, White, 100 mm
- ④⑧ Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- ④⑨ Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
- ⊠ HMA For Temporary Pavement To Be:
90 Kg/m² HMA, Type A, Surface, On
150 Kg/m² HMA, Type A, Intermediate, On
300 Kg/m² HMA, Type A, Base, On
150 mm Compacted Aggregate, No. 53, Base
- ▨ Area Under Construction
- Standard Drum
- ⚡ Construction Sign
- ⊥ Barricade, Type III-(A or B)
- ⊙ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic

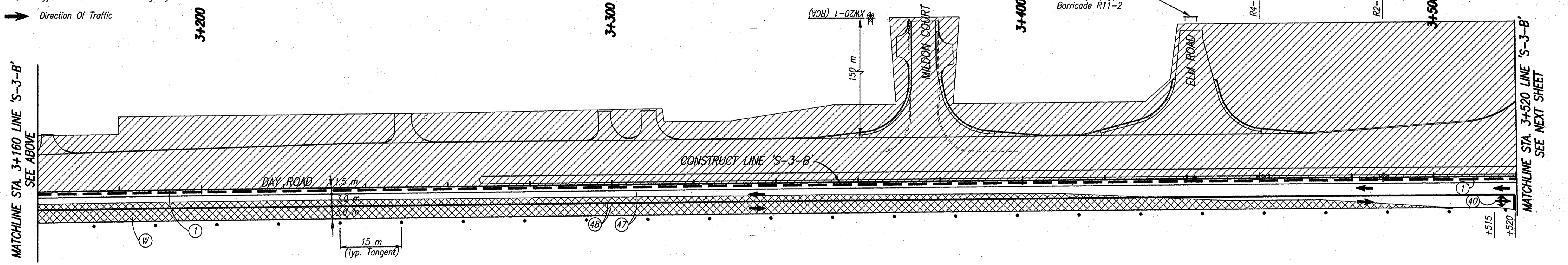
NOTES

1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
3. Remove Existing Pavement Markings As Req'd.
4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.
5. Traffic Shall Be Maintained On Existing Lanes During Temporary Widening.

SIGN LEGEND

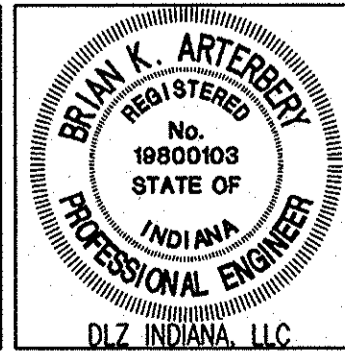
- R2-1(35) "Speed Limit 35" Sign
- XG20-2 "End Construction" Sign
- XW20-1 "Road Construction Ahead" Sign
- XW20-1(RCA) "Road Construction Ahead" Sign
- XW1-4 Lane Shift Arrow (R Or L) Symbol
- R11-2 "Road Closed" Sign
- R11-4 "Road Closed To Thru Traffic" Sign
- R4-1 "Do Not Pass" Sign

CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	8 EACH
Road Closure Sign Assembly	4 EACH
Type III-A Barricade	7.2 m
Type III-B Barricade	18.0 m



DAY ROAD CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

Date: Mar 27, 2006, 4:11pm User ID: thill
File: M:\proj\0161\2218\chm\cong\S-Line Set\Day Road Set - Roadway\2218MT11.dwg Model Tab: serov-24x36



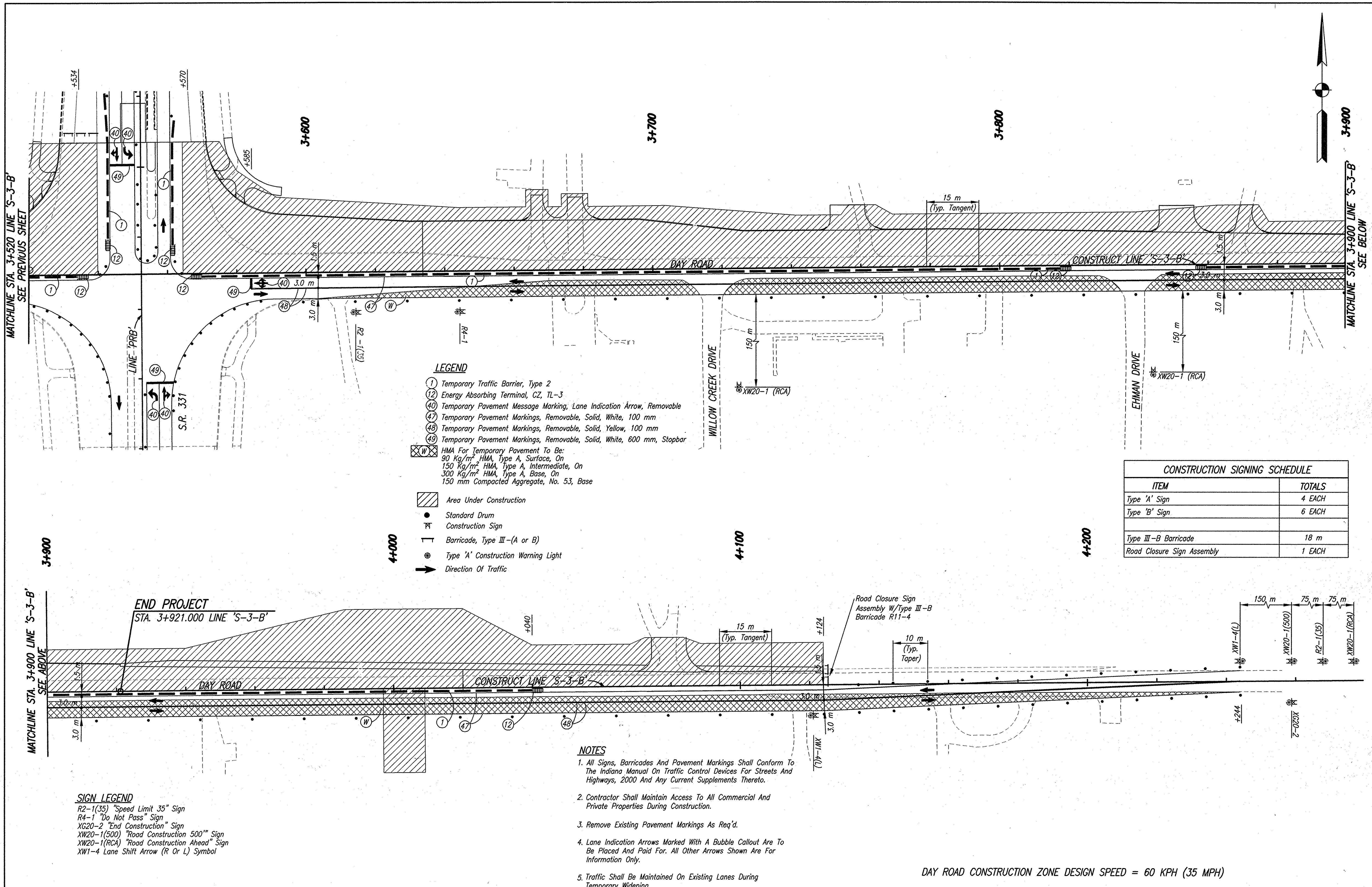
RECOMMENDED FOR APPROVAL *B. K. Arterberry* 3/27/06
DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE IB

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
ELECTRONIC	12 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

Date: Mar 27, 2006, 6:58am User ID: boriberry
 File: M:\Proj\0161\2218\veh\dwg\S-Line Sta\Day Road Set - Roadway\2218M12.dwg Model Tab: xerox-24x36



- LEGEND**
- ① Temporary Traffic Barrier, Type 2
 - ② Energy Absorbing Terminal, CZ, TL-3
 - ④⑦ Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 - ④⑦ Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - ④⑧ Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - ④⑨ Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 - ⊗ HMA For Temporary Pavement To Be:
 90 Kg/m² HMA, Type A, Surface, On
 150 Kg/m² HMA, Type A, Intermediate, On
 300 Kg/m² HMA, Type A, Base, On
 150 mm Compacted Aggregate, No. 53, Base
 - ▨ Area Under Construction
 - Standard Drum
 - ⊠ Construction Sign
 - ⊥ Barricade, Type III-(A or B)
 - ⊙ Type 'A' Construction Warning Light
 - ➔ Direction Of Traffic

CONSTRUCTION SIGNING SCHEDULE

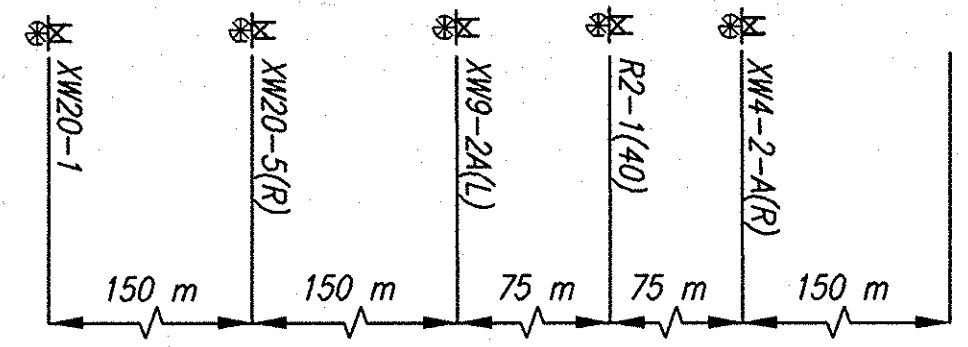
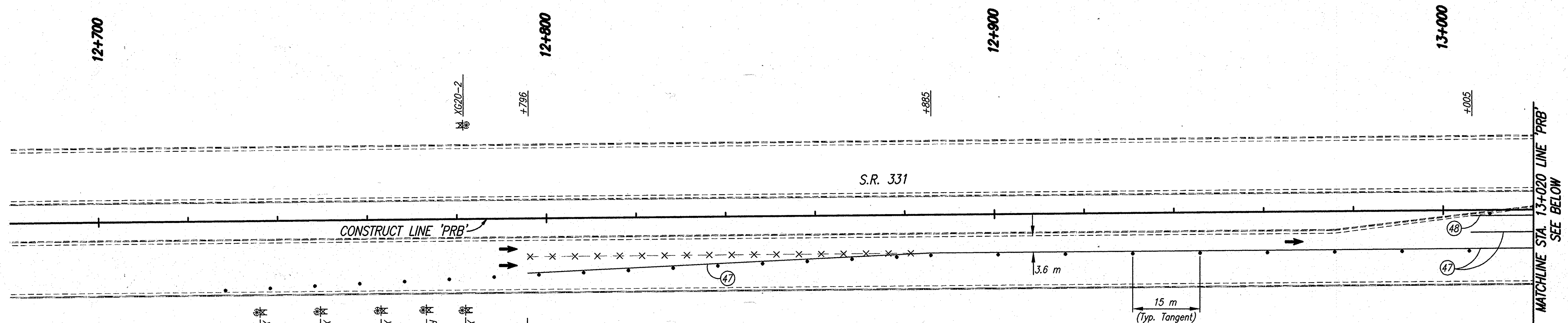
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	6 EACH
Type III-B Barricade	18 m
Road Closure Sign Assembly	1 EACH

- SIGN LEGEND**
- R2-1(35) "Speed Limit 35" Sign
 - R4-1 "Do Not Pass" Sign
 - XG20-2 "End Construction" Sign
 - XW20-1(500) "Road Construction 500'" Sign
 - XW20-1(RCA) "Road Construction Ahead" Sign
 - XW1-4 Lane Shift Arrow (R Or L) Symbol

- NOTES**
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 - Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 - Remove Existing Pavement Markings As Req'd.
 - Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.
 - Traffic Shall Be Maintained On Existing Lanes During Temporary Widening.

DAY ROAD CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

		RECOMMENDED FOR APPROVAL: <i>B. K. Arterbery</i> 3/27/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1:500	ROAD FILE
		DESIGNED: ERW DRAWN: TH	MAINTENANCE OF TRAFFIC PHASE IB	VERTICAL SCALE DESIGNATION 0300260	SURVEY BOOK ELECTRONIC CONTRACT R-28625	SHEETS 13 of 93 PROJECT STP-5171(018)
CHECKED: BKA	CHECKED: ERW				



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	2 EACH
Road Closure Sign Assembly	1 EACH

NOTES

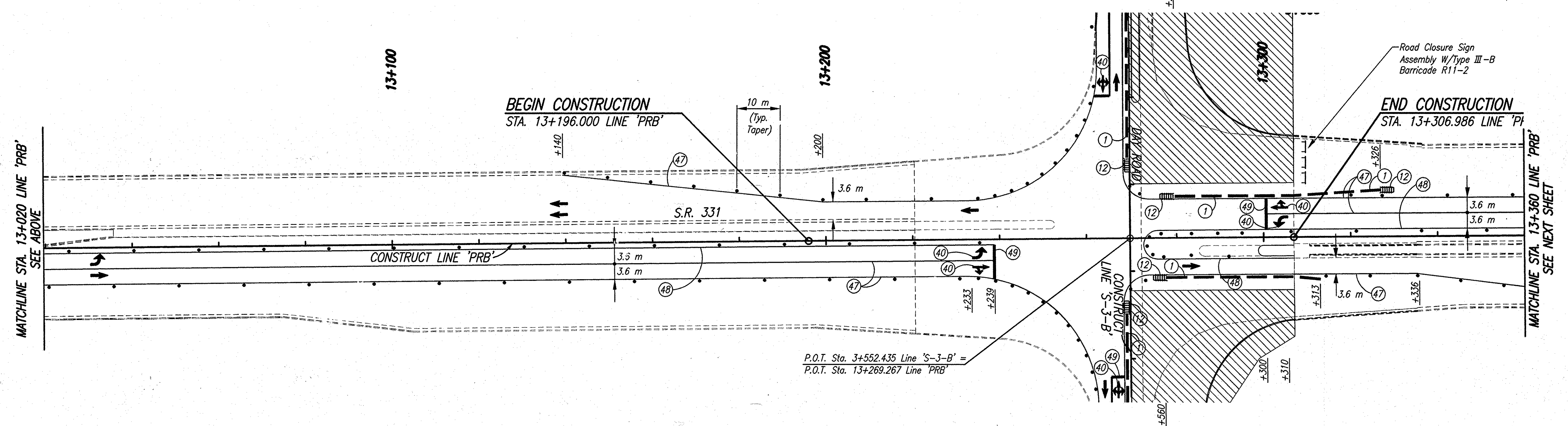
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
- Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
- Remove Existing Pavement Markings As Req'd.
- Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

SIGN LEGEND

- R2-1(40) "Speed Limit 40" Sign
- XG20-2 "End Construction" Sign
- XW20-1 "Road Construction Ahead" Sign
- XW20-5(R) "Right Lane Closed Ahead" Sign
- XW9-2A(L) "Lane Ends Merge Left" Sign
- XW4-2-A(R) (Lane Ends Merge Left Symbol)
- R11-2 "Road Closed" Sign

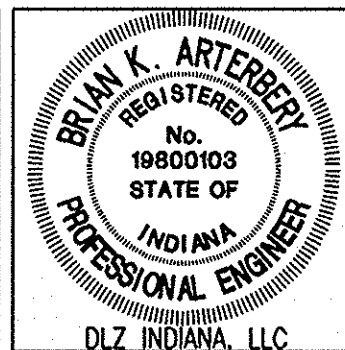
LEGEND

- ① Temporary Traffic Barrier, Type 2
- ② Energy Absorbing Terminal, CZ, TL-3
- ④ Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- ④⑦ Temporary Pavement Markings, Removable, Solid, White, 100 mm
- ④⑧ Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- ④⑨ Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
- ▨ Area Under Construction
- Standard Drum
- ⊠ Construction Sign
- ⊙ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic
- X-X- Line, Remove



S.R. 331 CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (40 MPH)

Date: Mar 23, 2006, 1:22pm User ID: thil
 File: M:\Proj\0161\2218\ch\13\Line Set\Day Road Set - Roadway\2218MT13.dwg Model Tab: xerex-24x36



RECOMMENDED FOR APPROVAL *B. K. Arterberry* 3/27/06
 DESIGN ENGINEER DATE

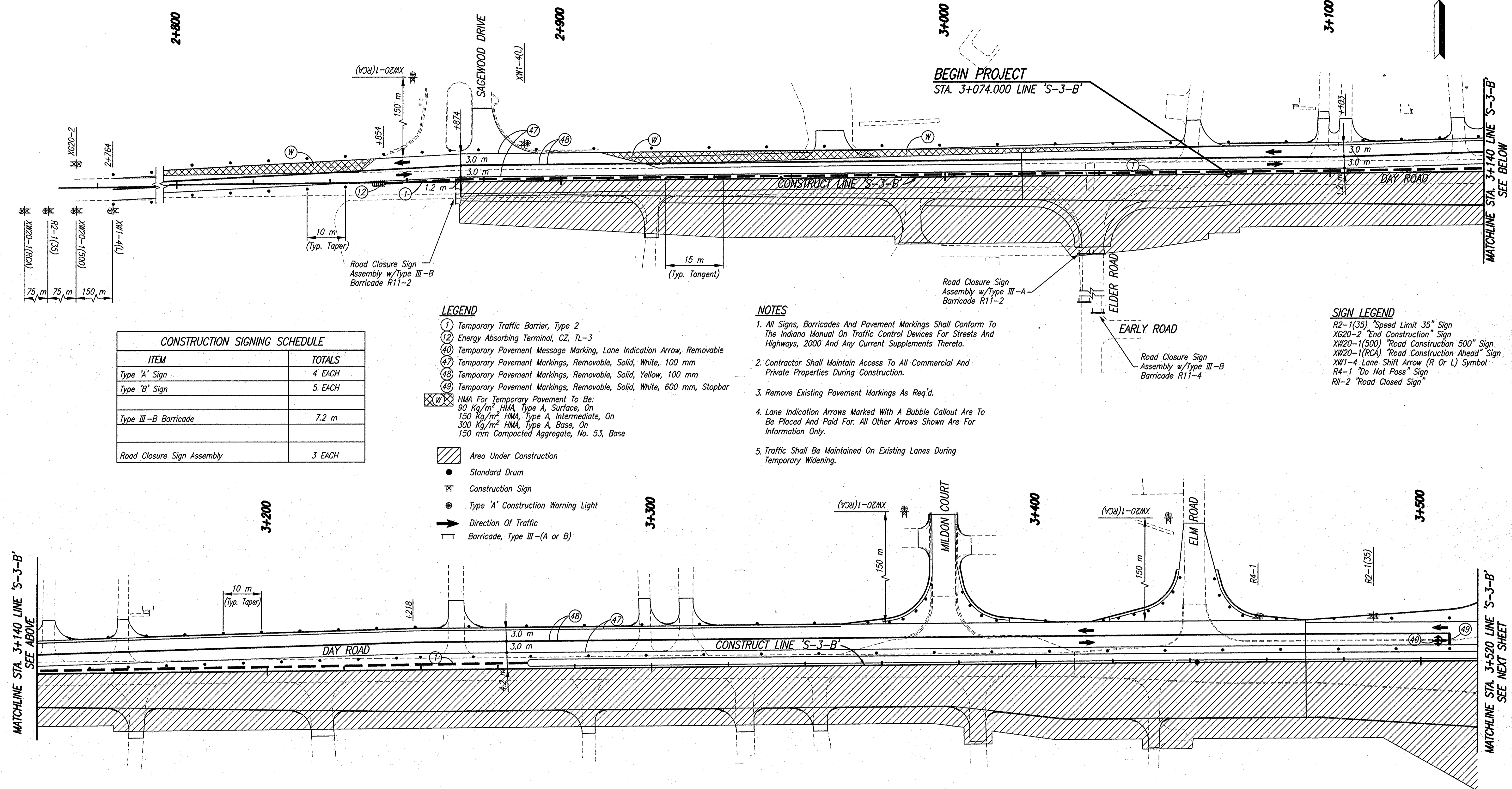
DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE IB

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	14 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

Date: Mar 23, 2006, 1:23pm User ID: thill
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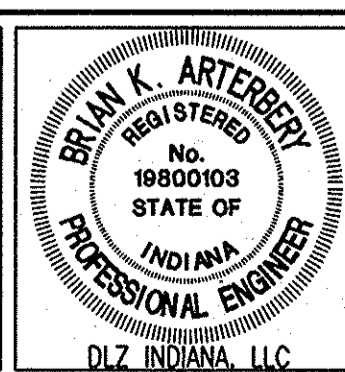
CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	5 EACH
Type III-B Barricade	7.2 m
Road Closure Sign Assembly	3 EACH

- LEGEND**
- (1) Temporary Traffic Barrier, Type 2
 - (12) Energy Absorbing Terminal, CZ, TL-3
 - (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 - (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 - ⊗ HMA For Temporary Pavement To Be:
 90 Kg/m² HMA, Type A, Surface, On
 150 Kg/m² HMA, Type A, Intermediate, On
 300 Kg/m² HMA, Type A, Base, On
 150 mm Compacted Aggregate, No. 53, Base
 - ▨ Area Under Construction
 - Standard Drum
 - ⊞ Construction Sign
 - ⊙ Type 'A' Construction Warning Light
 - ➔ Direction Of Traffic
 - ⊥ Barricade, Type III-(A or B)

- NOTES**
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 - Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 - Remove Existing Pavement Markings As Req'd.
 - Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.
 - Traffic Shall Be Maintained On Existing Lanes During Temporary Widening.

- SIGN LEGEND**
- R2-1(35) "Speed Limit 35" Sign
 - XG20-2 "End Construction" Sign
 - XW20-1(500) "Road Construction 500" Sign
 - XW1-4 Lane Shift Arrow (R Or L) Symbol
 - R4-1 "Do Not Pass" Sign
 - R11-2 "Road Closed Sign"

DAY ROAD CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

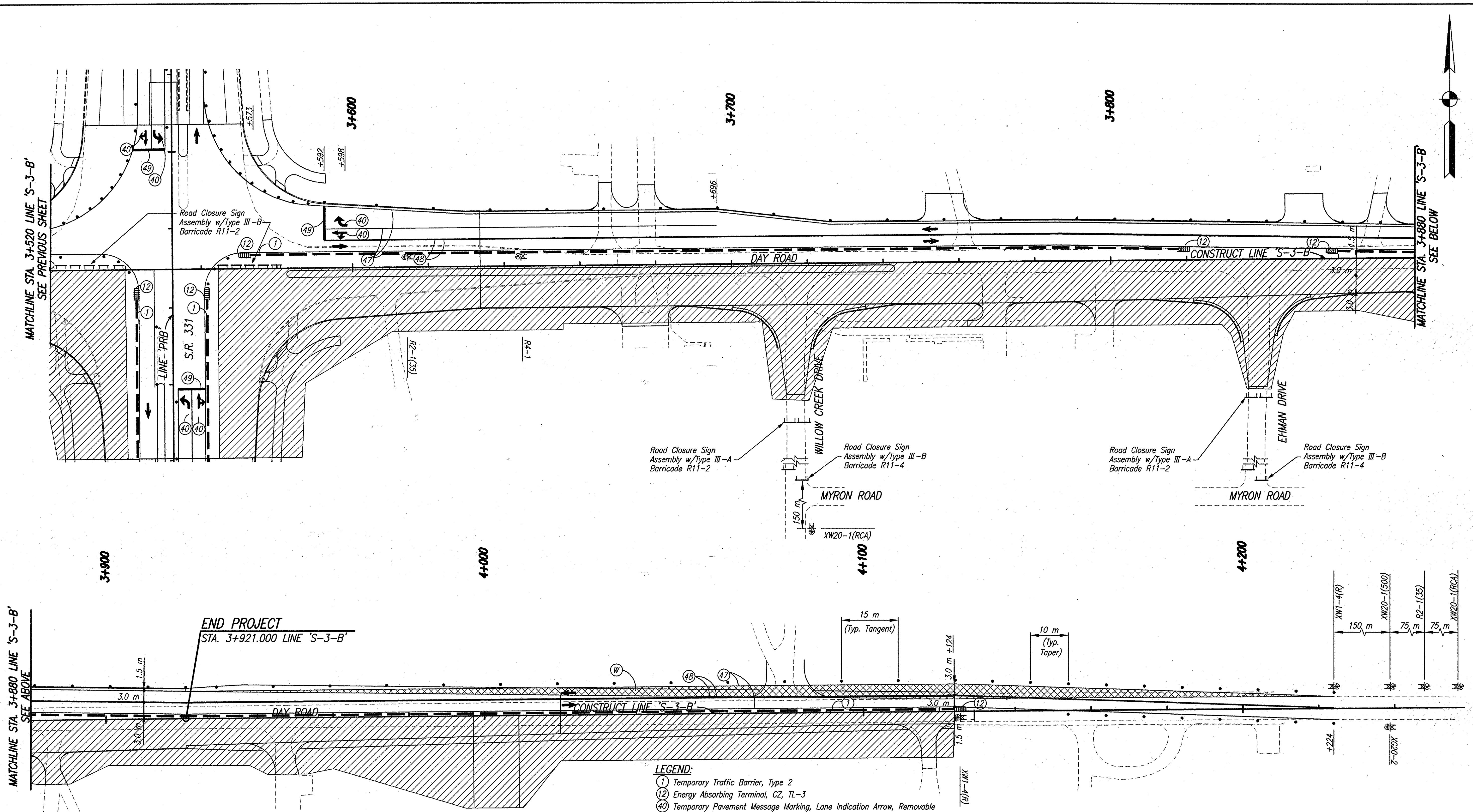


RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	3/27/06
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE II

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	16 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

Date: Mar 27, 2006, 7:05am User: ID: bntsbary
 File: M:\Projects\0161\2218\CON\Draw\S-Line Set\Day.Road Set - Roadway\2218MT22.dwg Model Tab: xrow-24x36



SIGN LEGEND
 R2-1(35) "Speed Limit 35" Sign
 XG20-2 "End Construction" Sign
 XW20-1(500) "Road Construction 500'" Sign
 XW20-1(RCA) "Road Construction Ahead" Sign
 XW1-4 Lane Shift Arrow (R Or L) Symbol
 R4-1 "Do Not Pass" Sign
 R11-2 "Road Closed" Sign

NOTES
 1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 3. Remove Existing Pavement Markings As Req'd.
 4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.
 5. Traffic Shall Be Maintained On Existing Lanes During Temporary Widening.

LEGEND:
 (1) Temporary Traffic Barrier, Type 2
 (12) Energy Absorbing Terminal, CZ, TL-3
 (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 [XW] HMA For Temporary Pavement To Be:
 90 Kg/m² HMA, Type A, Surface, On
 150 Kg/m² HMA, Type A, Intermediate, On
 300 Kg/m² HMA, Type A, Base, On
 150 mm Compacted Aggregate, No. 53, Base
 [Hatched] Area Under Construction
 ● Standard Drum
 [Symbol] Construction Sign
 [Symbol] Type 'A' Construction Warning Light
 [Symbol] Barricade, Type III-(A or B)
 [Arrow] Direction Of Traffic

CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	4 EACH
Road Closure Sign Assembly	6 EACH

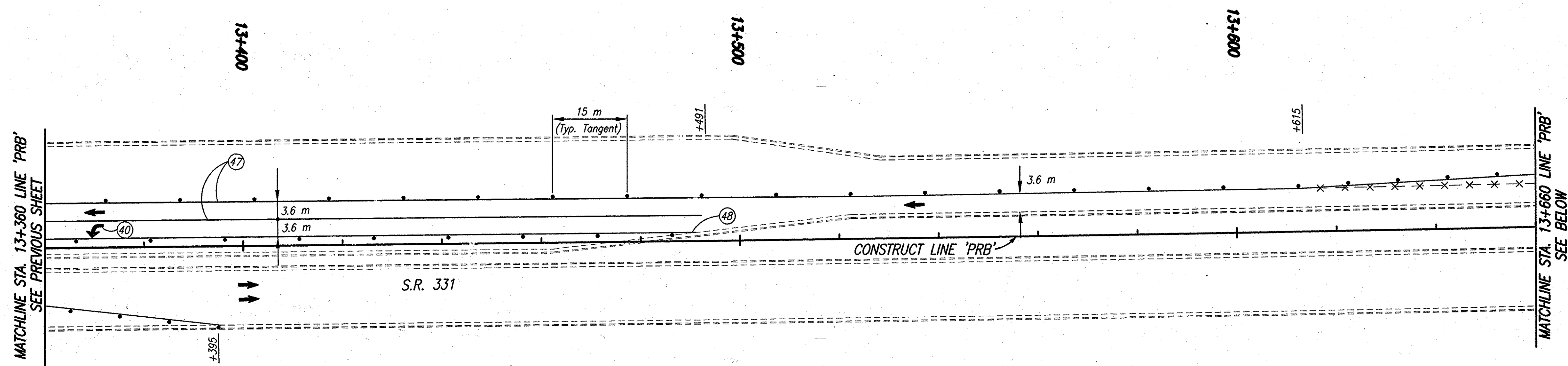
DAY ROAD CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)



RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 3/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE II

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	17 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	2 EACH

NOTES

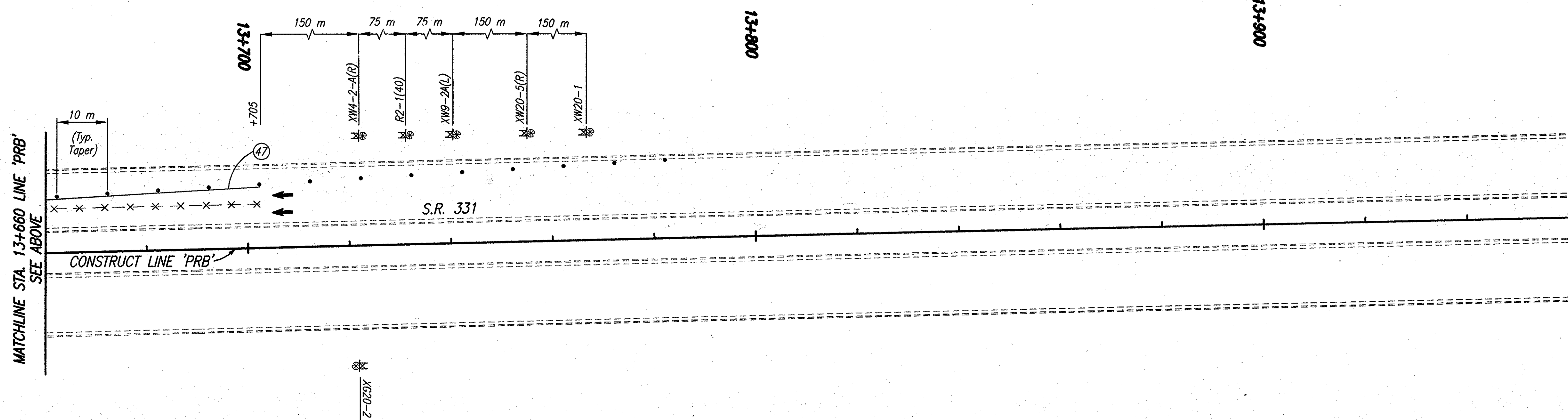
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
- Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
- Remove Existing Pavement Markings As Req'd.
- Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

SIGN LEGEND

- R2-1(40) "Speed Limit 40" Sign
- XG20-2 "End Construction" Sign
- XW20-1 "Road Construction Ahead" Sign
- XW20-5(R) "Right Lane Closed Ahead" Sign
- XW9-2A(L) "Lane Ends Merge Left" Sign
- XW4-2-A(R) (Lane Ends Merge Left Symbol)

LEGEND

- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- [Hatched Box] Area Under Construction
- Standard Drum
- ⊥ Construction Sign
- ⊙ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic
- X-X- Line, Remove



S.R. 331 CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (40 MPH)

Date: Feb 28, 2006, 9:35am User: D: bhil File: M:\Projects\13+660 Line PRB\13+660 Line PRB.dwg Model Tab: version-24x36

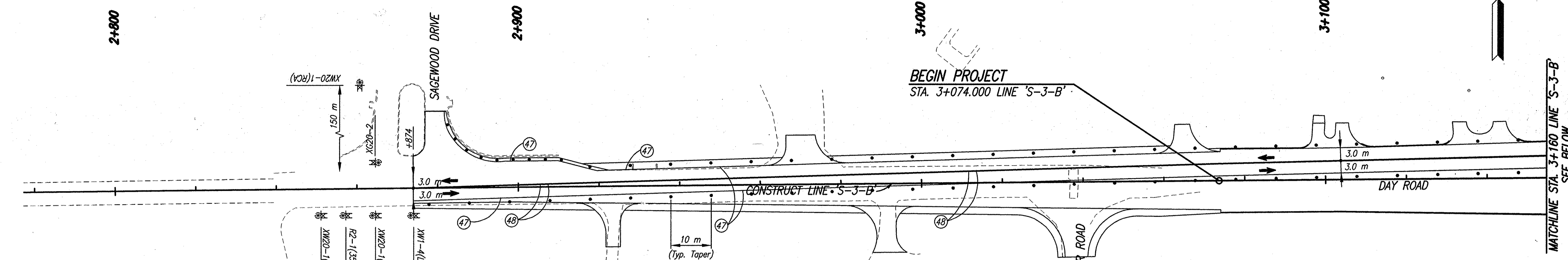


RECOMMENDED FOR APPROVAL	<i>B. K. Arterbery</i> 2/27/06	
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE II

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	19 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

Date: Feb 28, 2006, 9:35am User: D:\In\I File: M:\Proj\01\2218\2218\Day Road Set - Roadway\2218\MT31.dwg Model Tab: xeno-2425

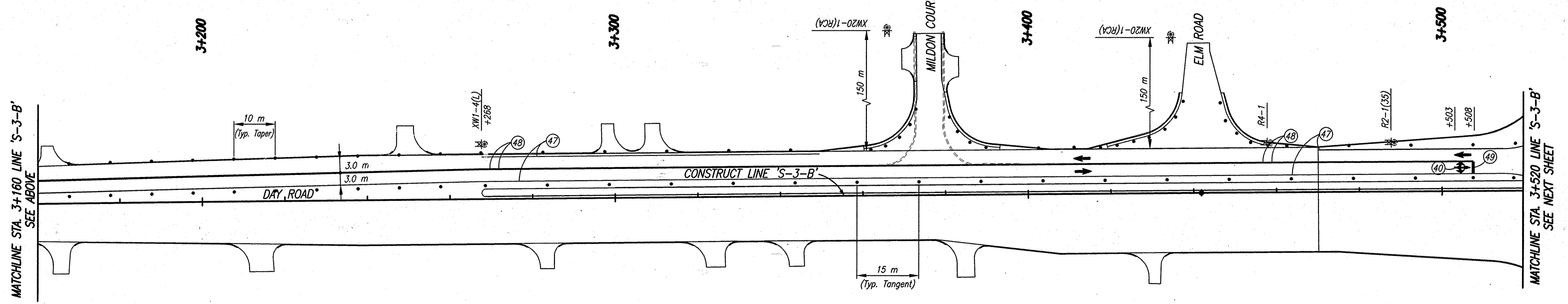


CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	7 EACH
Type 'B' Sign	4 EACH

- NOTES**
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 - Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 - Remove Existing Pavement Markings As Req'd.
 - Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

- SIGN LEGEND**
- R2-1(35) "Speed Limit 35" Sign
 - XG20-2 "End Construction" Sign
 - XW20-1(500) "Road Construction 500'" Sign
 - XW20-1(RCA) "Road Construction Ahead" Sign
 - XW1-4 Lane Shift Arrow (R Or L) Symbol
 - R4-1 "Do Not Pass" Sign

- LEGEND**
- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 - (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 - [Hatched Box] Area Under Construction
 - Standard Drum
 - [Square with X] Construction Sign
 - ⊙ Type 'A' Construction Warning Light
 - ➔ Direction Of Traffic



DAY ROAD CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)



RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE

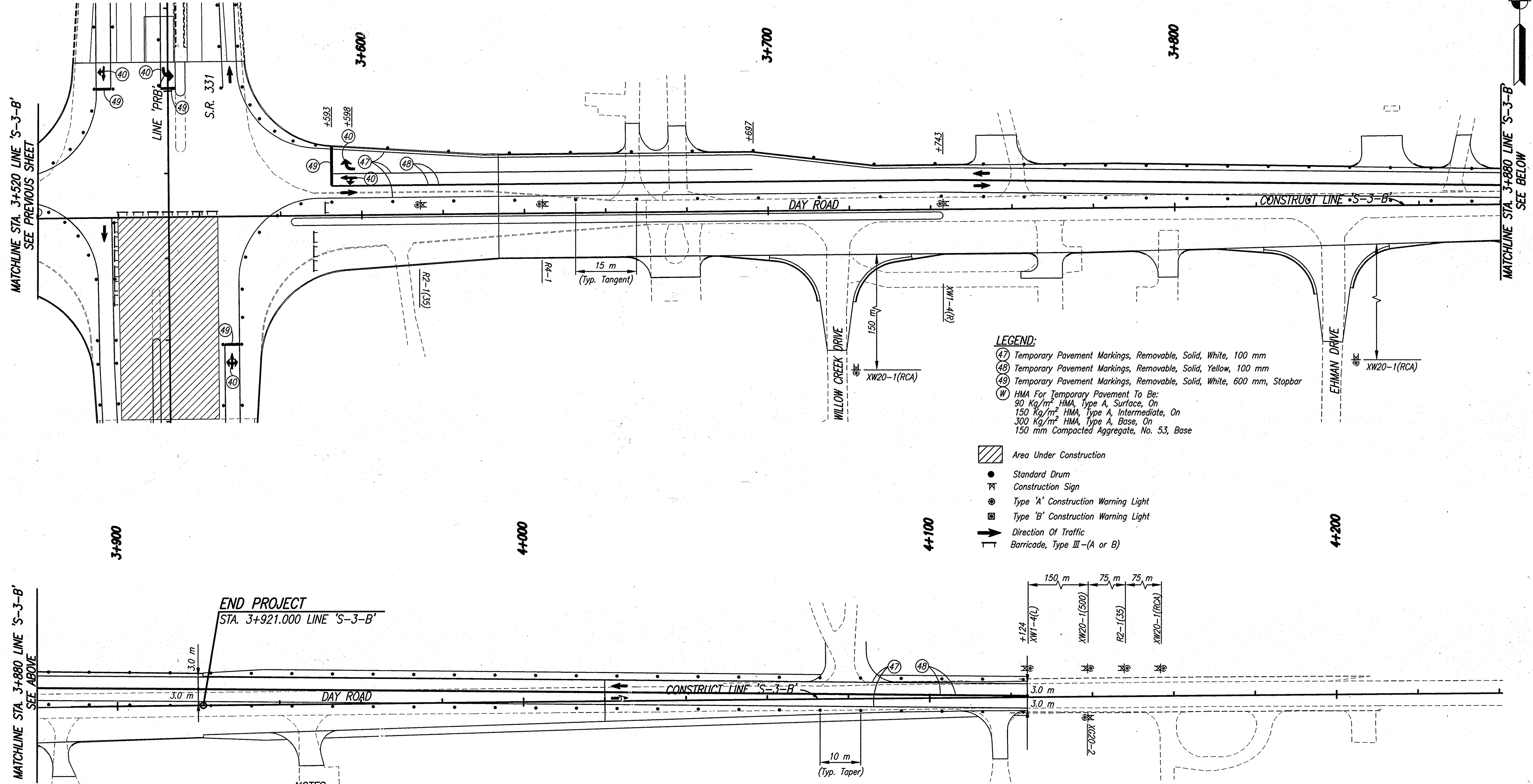
DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE III

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	20 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

Date: Feb 26, 2006, 9:35am User ID: bhll
 File: M:\proj\0191\2218\con\day Road Set - Roadway\2218MT32.dwg Model Tab: version-24x36



LEGEND:

- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
- (W) HMA For Temporary Pavement To Be:
 90 Kg/m² HMA, Type A, Surface, On
 150 Kg/m² HMA, Type A, Intermediate, On
 300 Kg/m² HMA, Type A, Base, On
 150 mm Compacted Aggregate, No. 53, Base
- [Hatched Box] Area Under Construction
- Standard Drum
- ⊠ Construction Sign
- ⊙ Type 'A' Construction Warning Light
- ⊞ Type 'B' Construction Warning Light
- ➔ Direction Of Traffic
- ⊥ Barricade, Type III-(A or B)

SIGN LEGEND

- R2-1(35) "Speed Limit 35" Sign
- XG20-2 "End Construction" Sign
- XW20-1 "Road Construction Ahead" Sign
- XW20-5(R) "Right Lane Closed Ahead" Sign
- XW9-2A(L) "Lane Ends Merge Left" Sign
- XW4-2-A(L) (Lane Ends Merge Left Symbol)
- R4-1 "Do Not Pass" Sign

NOTES

1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
3. Remove Existing Pavement Markings As Req'd.
4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

CONSTRUCTION SIGNING SCHEDULE

ITEM	TOTALS
Type 'A' Sign	5 EACH
Type 'B' Sign	4 EACH

DAY ROAD CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

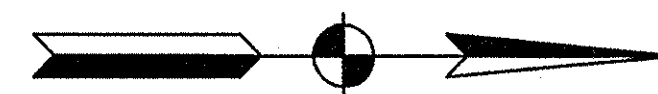


RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE III

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
ELECTRONIC	21 of 93
CONTRACT	PROJECT
R-28625	NH-750(003)

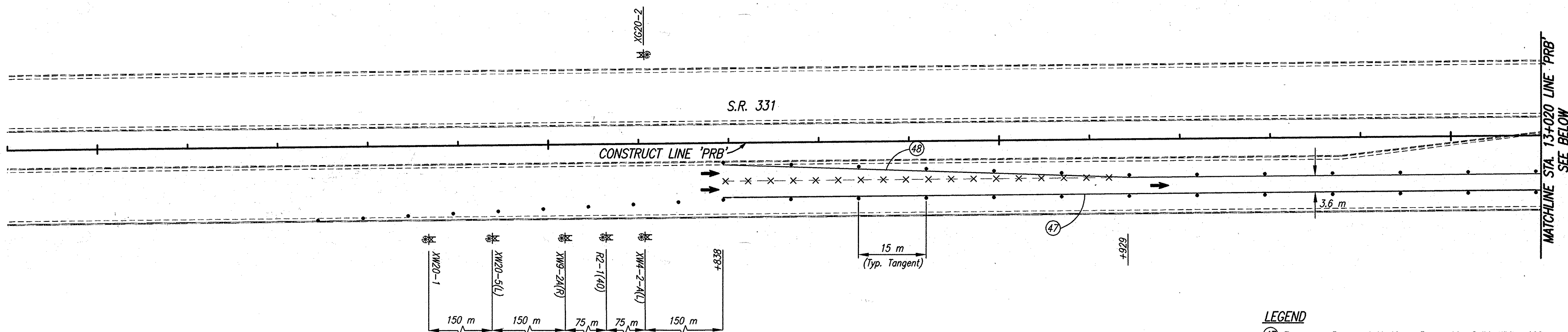


12+700

12+800

12+900

13+000

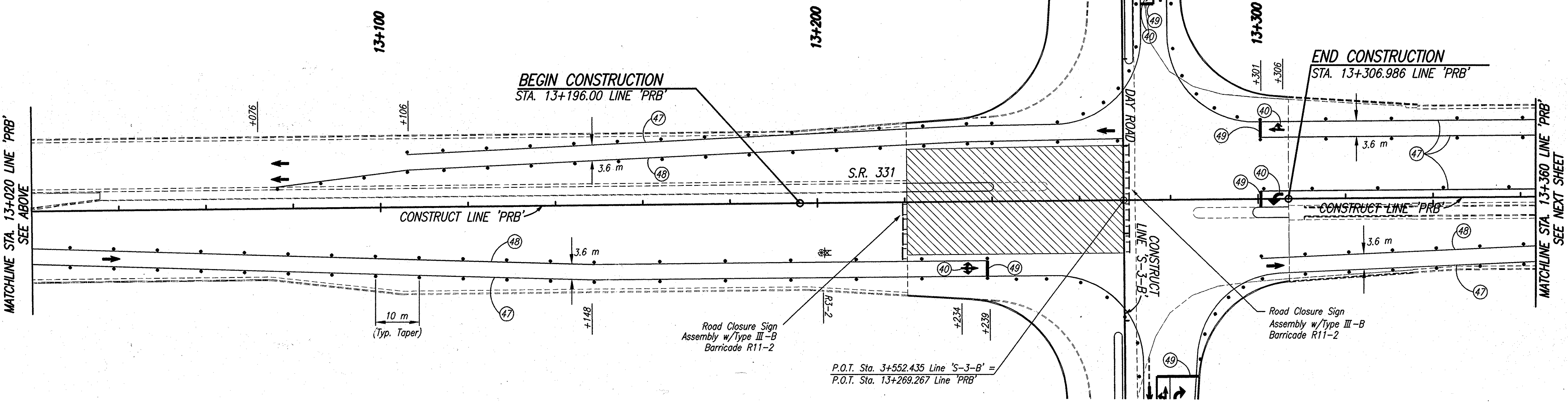


CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	3 EACH
Road Closure Sign Assembly	2 EACH

- NOTES**
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 - Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 - Remove Existing Pavement Markings As Req'd.
 - Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

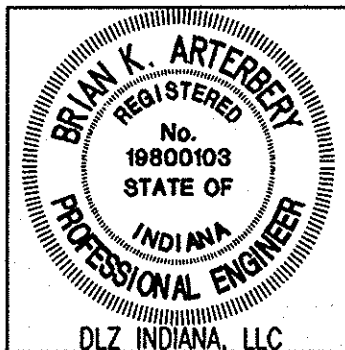
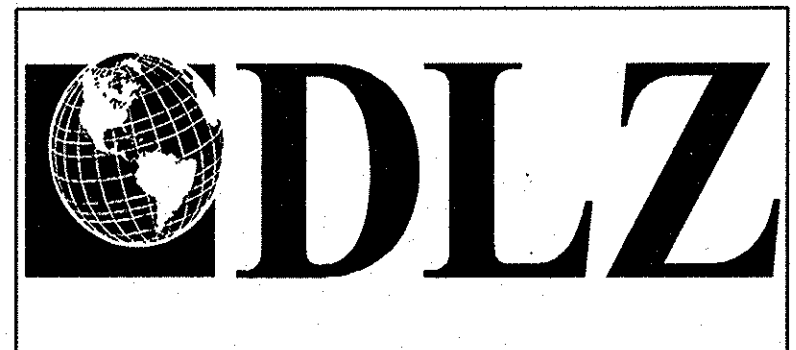
- SIGN LEGEND**
- R2-1(40) "Speed Limit 40" Sign
 - XG20-2 "End Construction" Sign
 - XW20-1 "Road Construction Ahead" Sign
 - XW20-5(L) "Left Lane Closed Ahead" Sign
 - XW9-2A(R) "Lane Ends Merge Right" Sign
 - XW4-2-A(L) (Lane Ends Merge Right Symbol)
 - R3-2 (No Left Turn Symbol)
 - R11-2 "Road Closed" Sign

- LEGEND**
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 - [Hatched Box] Area Under Construction
 - Standard Drum
 - ⊠ Construction Sign
 - ⊙ Type 'A' Construction Warning Light
 - ➔ Direction Of Traffic
 - X-X- Line, Remove
 - ⊥ Barricade, Type III-(A or B)



S.R. 331 CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

Date: Feb 28, 2006, 9:37am User ID: thlll
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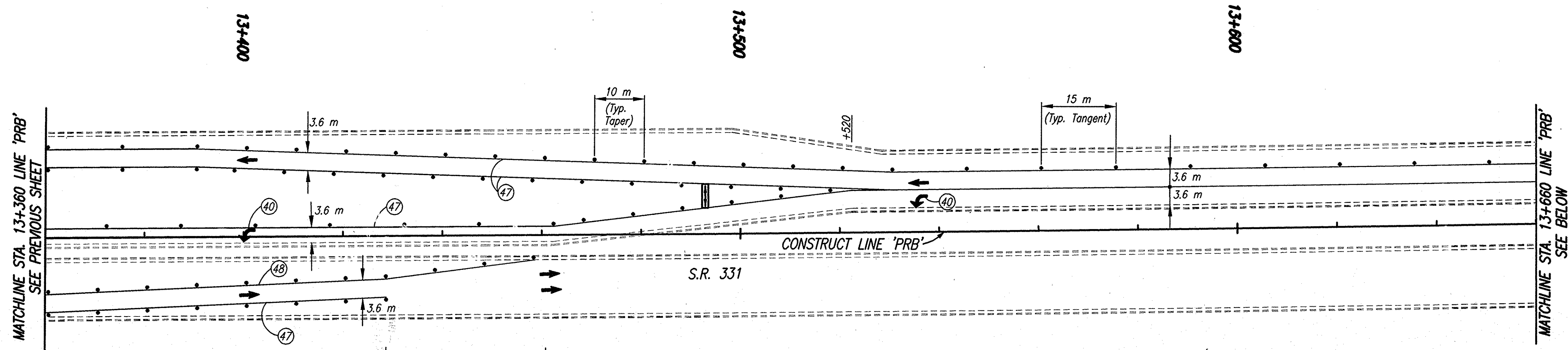


RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 2/27/06
DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE III

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	22 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	1 EACH
Type 'B' Sign	4 EACH

NOTES

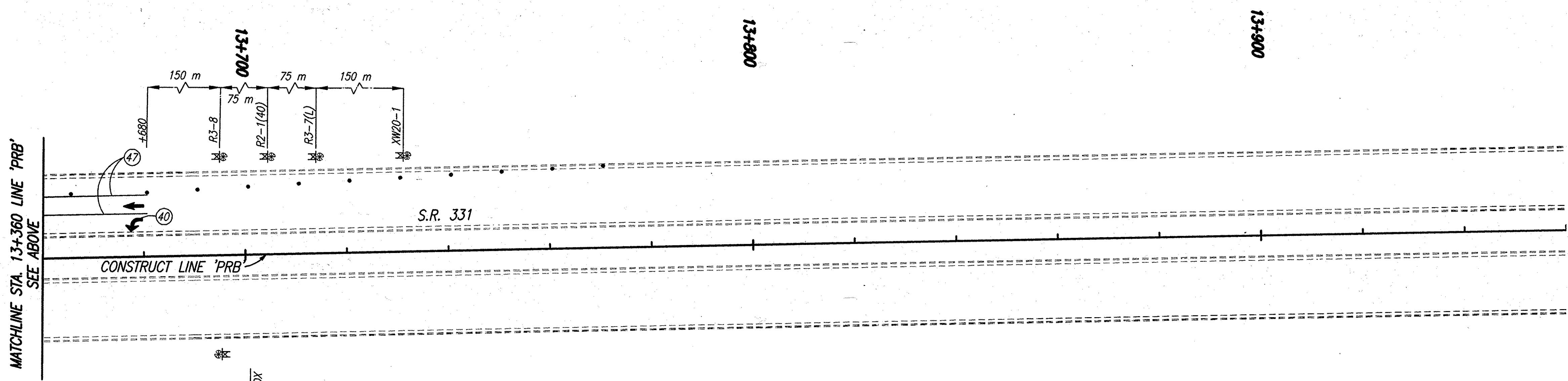
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
- Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
- Remove Existing Pavement Markings As Req'd.
- Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

SIGN LEGEND

- R2-1(40) "Speed Limit 40" Sign
- XG20-2 "End Construction" Sign
- XW20-1 "Road Construction Ahead" Sign
- R3-7L "Left Lane Must Turn Left" Sign
- R3-8 Advance Intersection Lane Control Sign

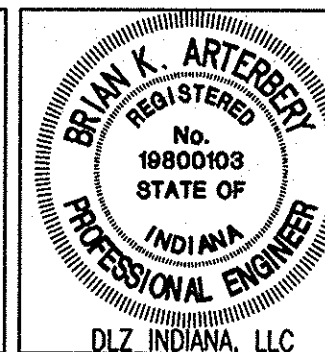
LEGEND

- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- [Hatched Box] Area Under Construction
- Standard Drum
- [Square with X] Construction Sign
- ⊙ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic
- [Rectangular with Arrow] Flashing Arrow Panel



S.R. 331 CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (40 MPH)

Date: Feb. 28, 2006, 9:37am User: dlz File: M:\proj\0161\2218\civil\dwg\S-Line Set\Day Road Set - Roadway\2218\MT34.dwg Model Tab: xrow-24x36



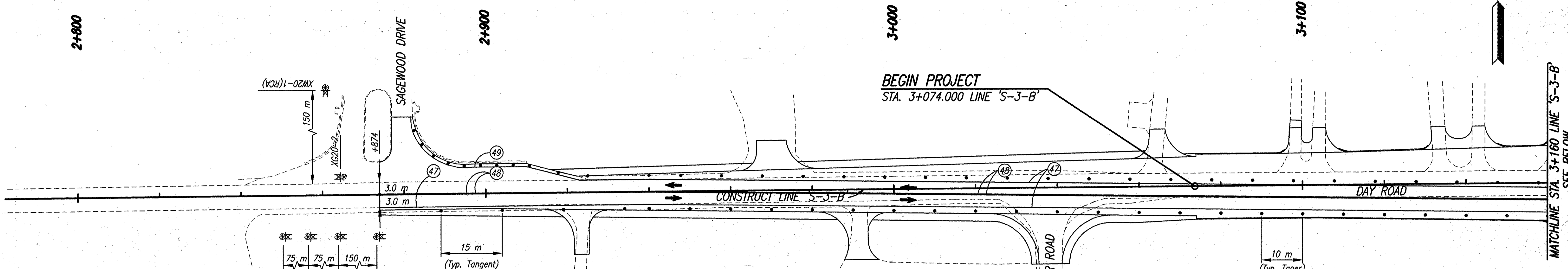
RECOMMENDED FOR APPROVAL *B. K. Arterbery* 2/27/06
DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE III

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	23 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

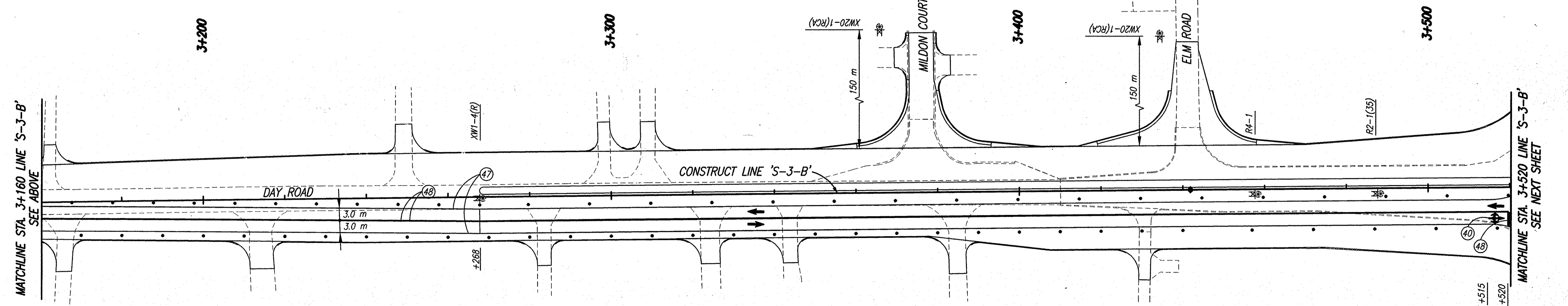


CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	4 EACH

- NOTES**
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 - Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 - Remove Existing Pavement Markings As Req'd.
 - Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

- SIGN LEGEND**
- R2-1(35) "Speed Limit 35" Sign
 - XG20-2 "End Construction" Sign
 - XW20-1(500) "Road Construction 500" Sign
 - XW20-1(RCA) "Road Construction Ahead" Sign
 - XW1-4 Lane Shift Arrow (R Or L) Symbol
 - R4-1 "Do Not Pass" Sign

- LEGEND**
- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 - (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 - [Hatched Box] Area Under Construction
 - [Circle with dot] Standard Drum
 - [Triangle with X] Construction Sign
 - [Circle with X] Type 'A' Construction Warning Light
 - [Arrow] Direction Of Traffic



DAY ROAD CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)

Date: Feb 28, 2006, 9:37am User: ID: thill File: M:\proj\0161\2218\civil\wg\S-Line Saf\Day Road Set - Roadway\2218B1.dwg Model Tab: xrow-24x36

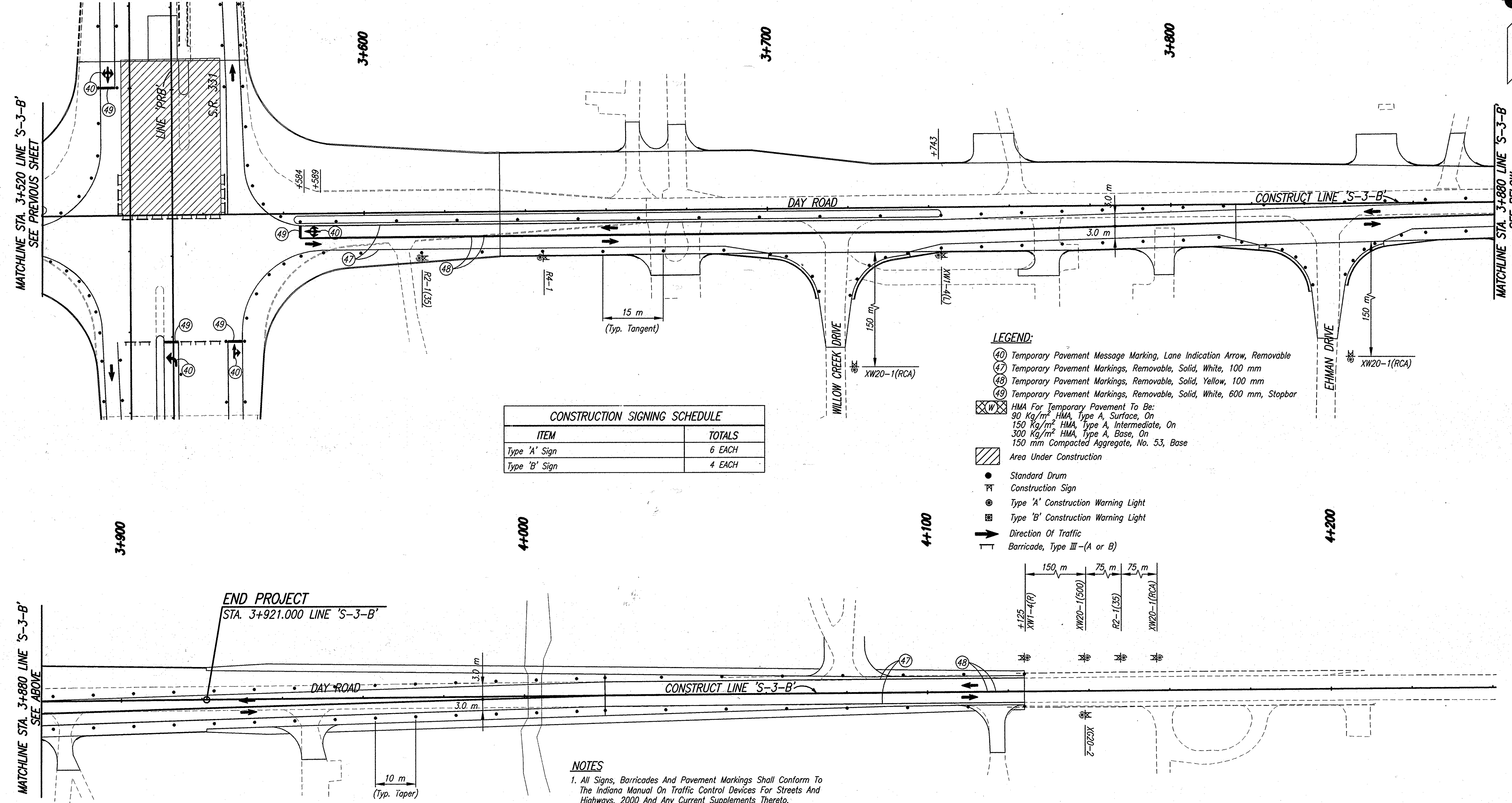


RECOMMENDED FOR APPROVAL	<i>B.K. Arterberry</i>	2/27/06
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE IV

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	24 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

Date: Mar 23, 2006, 1:24pm, User: D: ihill
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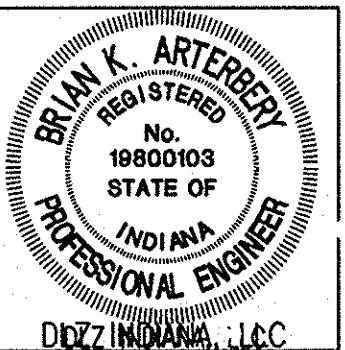
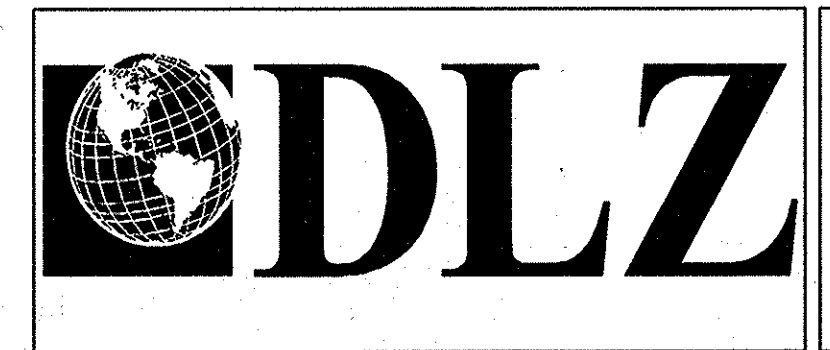
CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	6 EACH
Type 'B' Sign	4 EACH

- LEGEND:**
- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
 - (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
 - (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
 - (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
 - ⊗ HMA For Temporary Pavement To Be:
 90 Kg/m² HMA, Type A, Surface, On
 150 Kg/m² HMA, Type A, Intermediate, On
 300 Kg/m² HMA, Type A, Base, On
 150 mm Compacted Aggregate, No. 53, Base
 - ▨ Area Under Construction
 - Standard Drum
 - ⊠ Construction Sign
 - ⊙ Type 'A' Construction Warning Light
 - ⊞ Type 'B' Construction Warning Light
 - ➔ Direction Of Traffic
 - ⊥ Barricade, Type III - (A or B)

- SIGN LEGEND**
- R2-1(35) "Speed Limit 35" Sign
 - XG20-2 "End Construction" Sign
 - XW20-1 "Road Construction Ahead" Sign
 - XW20-5(R) "Right Lane Closed Ahead" Sign
 - XW9-2A(L) "Lane Ends Merge Left" Sign
 - XW4-2-A(L) (Lane Ends Merge Left Symbol)
 - R4-1 "Do Not Pass" Sign

- NOTES**
1. All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
 2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 3. Remove Existing Pavement Markings As Req'd.
 4. Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.
 5. Traffic Shall Be Maintained On Existing Lanes During Temporary Widening.

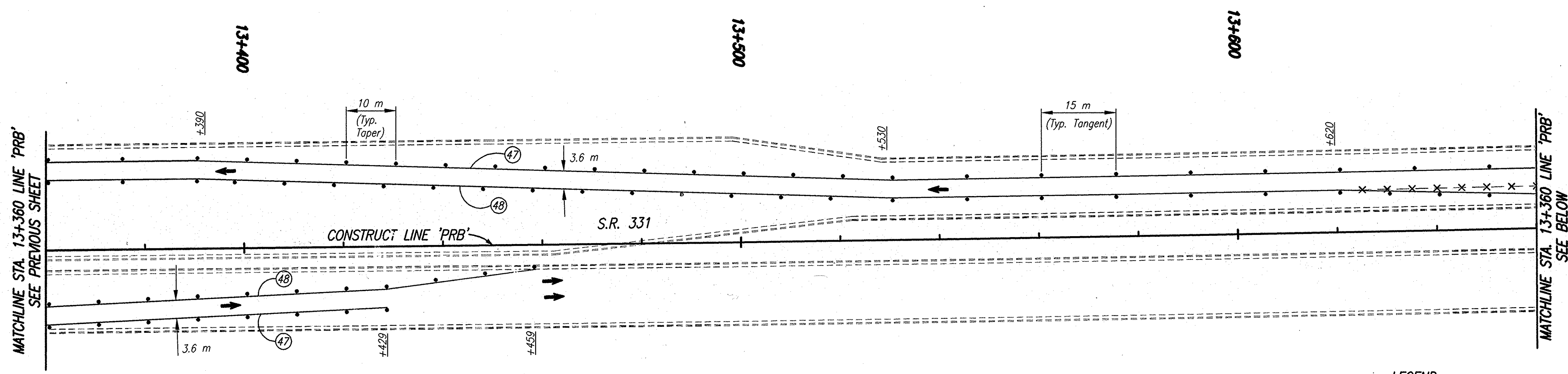
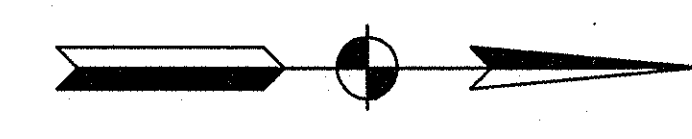
DAY ROAD CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (35 MPH)



RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	3/27/06
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE IV

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	9900300, 9103705
SURVEY BOOK	SHEETS
ELECTRONIC	25 of 93
CONTRACT	PROJECT
R-28625	NH-750(003)



CONSTRUCTION SIGNING SCHEDULE	
ITEM	TOTALS
Type 'A' Sign	4 EACH
Type 'B' Sign	2 EACH

NOTES

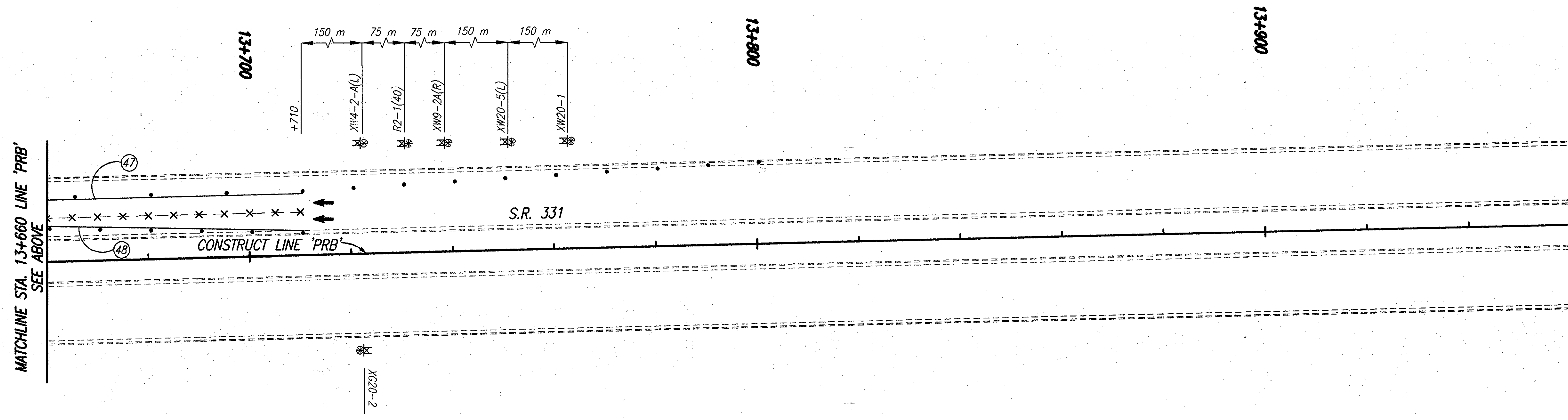
- All Signs, Barricades And Pavement Markings Shall Conform To The Indiana Manual On Traffic Control Devices For Streets And Highways, 2000 And Any Current Supplements Thereto.
- Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
- Remove Existing Pavement Markings As Req'd.
- Lane Indication Arrows Marked With A Bubble Callout Are To Be Placed And Paid For. All Other Arrows Shown Are For Information Only.

SIGN LEGEND

- R2-1(40) "Speed Limit 40" Sign
- XG20-2 "End Construction" Sign
- XW20-1 "Road Construction Ahead" Sign
- XW20-5(L) "Left Lane Closed Ahead" Sign
- XW9-2A(R) "Lane Ends Merge Right" Sign
- XW4-2-A(R) (Lane Ends Merge Right Symbol)

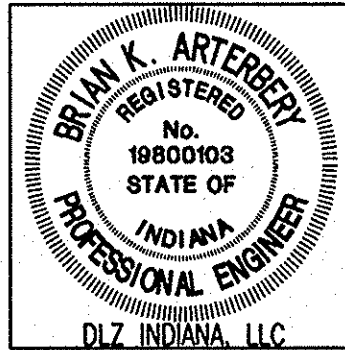
LEGEND

- (40) Temporary Pavement Message Marking, Lane Indication Arrow, Removable
- (47) Temporary Pavement Markings, Removable, Solid, White, 100 mm
- (48) Temporary Pavement Markings, Removable, Solid, Yellow, 100 mm
- (49) Temporary Pavement Markings, Removable, Solid, White, 600 mm, Stopbar
- ▨ Area Under Construction
- Standard Drum
- ⊠ Construction Sign
- ⊙ Type 'A' Construction Warning Light
- ➔ Direction Of Traffic
- X-X- Line, Remove



S.R. 331 CONSTRUCTION ZONE DESIGN SPEED = 60 KPH (40 MPH)

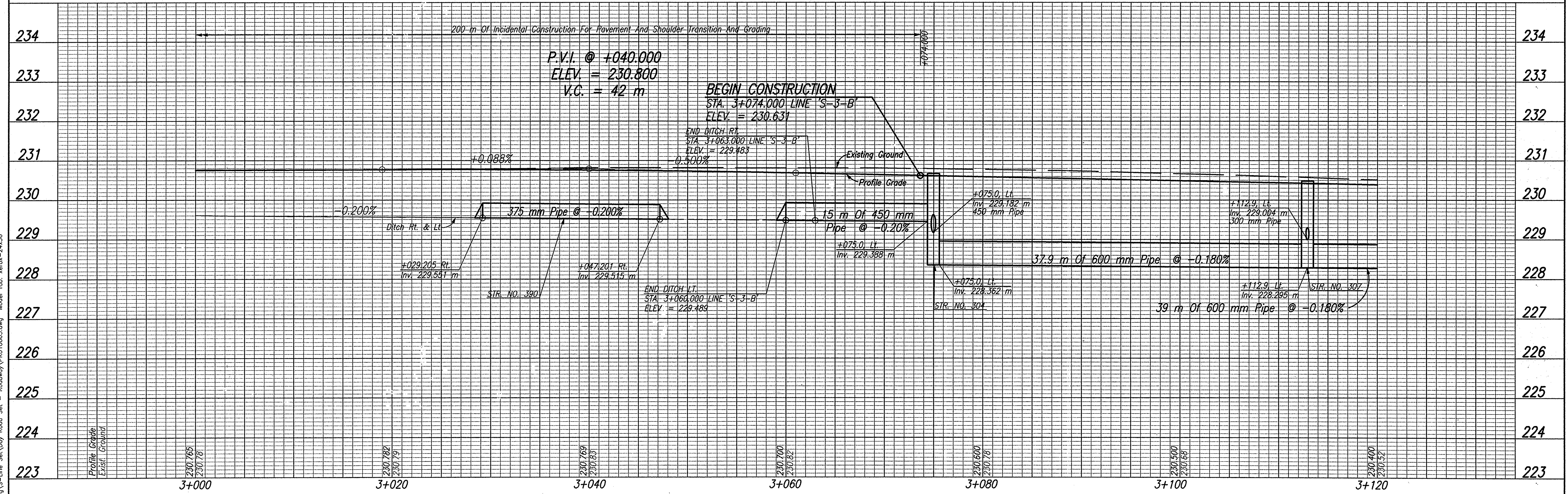
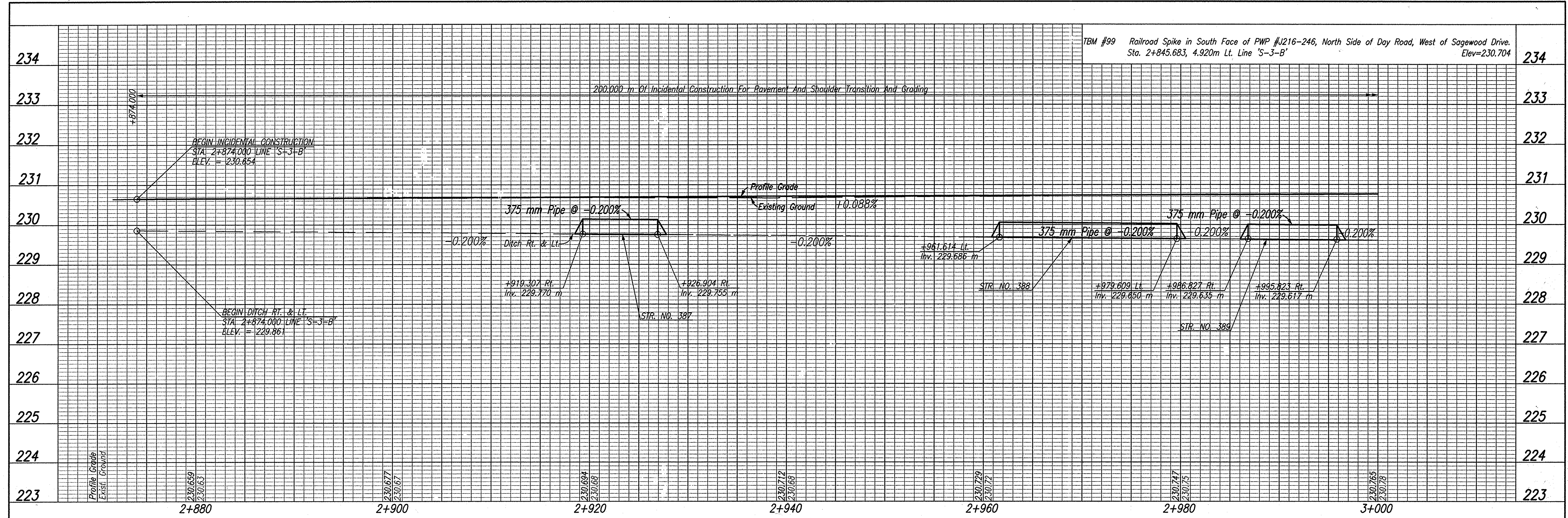
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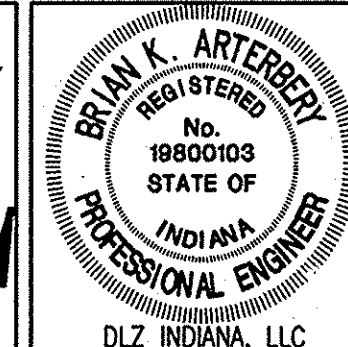
RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	2/27/06	DATE
DESIGNED:	ERW	DRAWN:	TH
CHECKED:	BKA	CHECKED:	ERW

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE IV

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	27 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



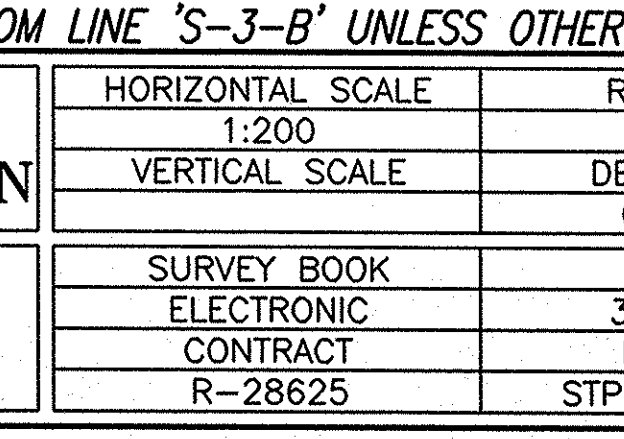
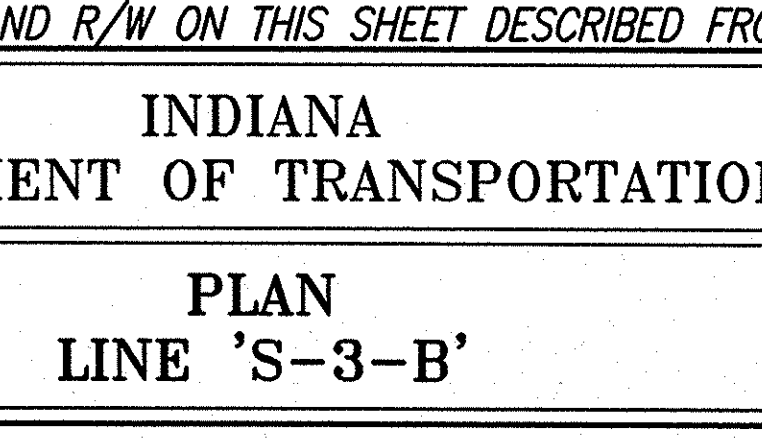
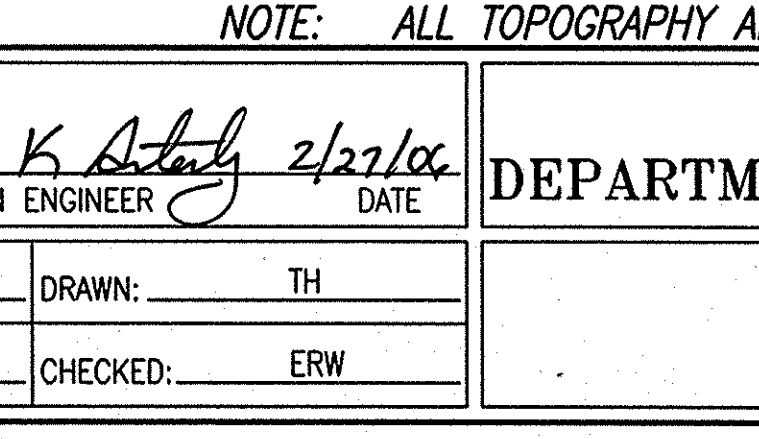
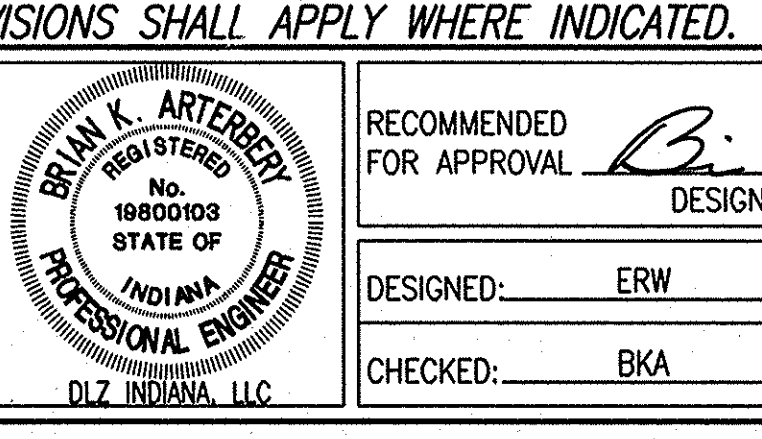
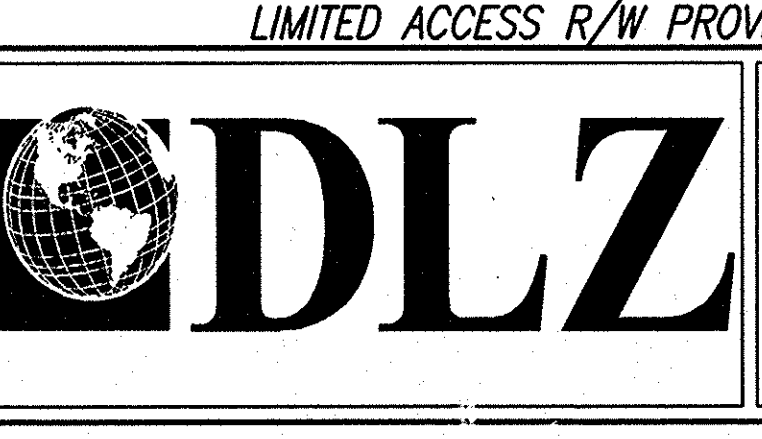
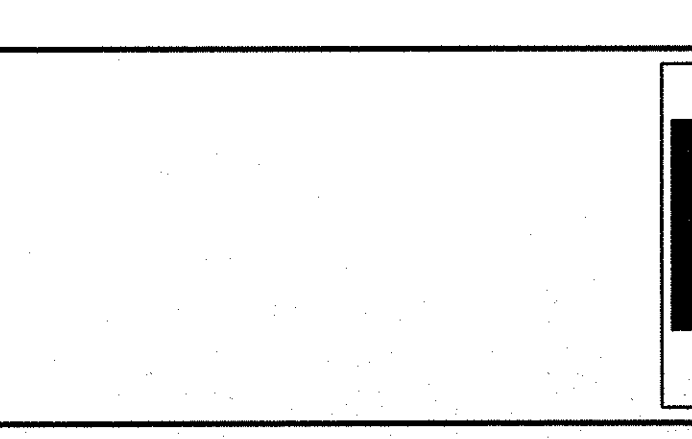
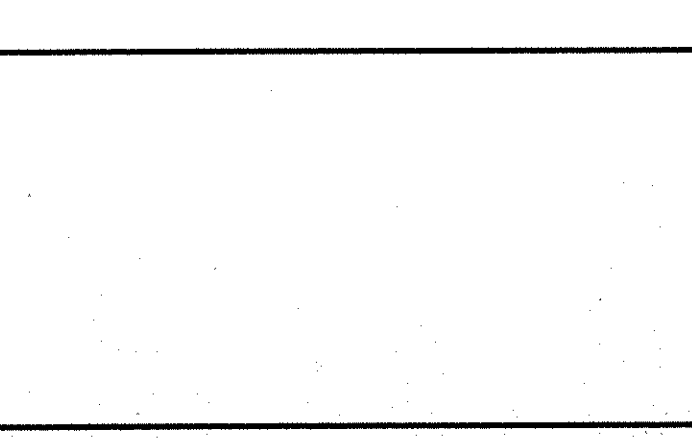
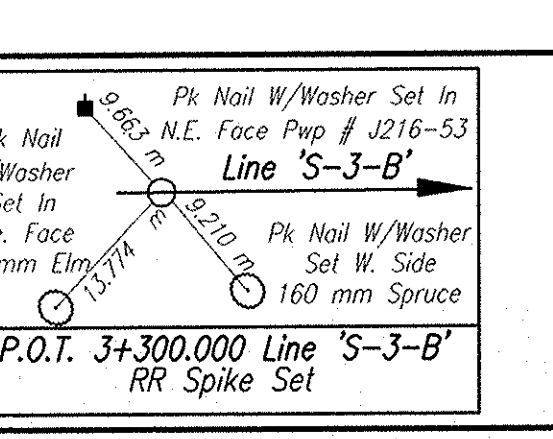
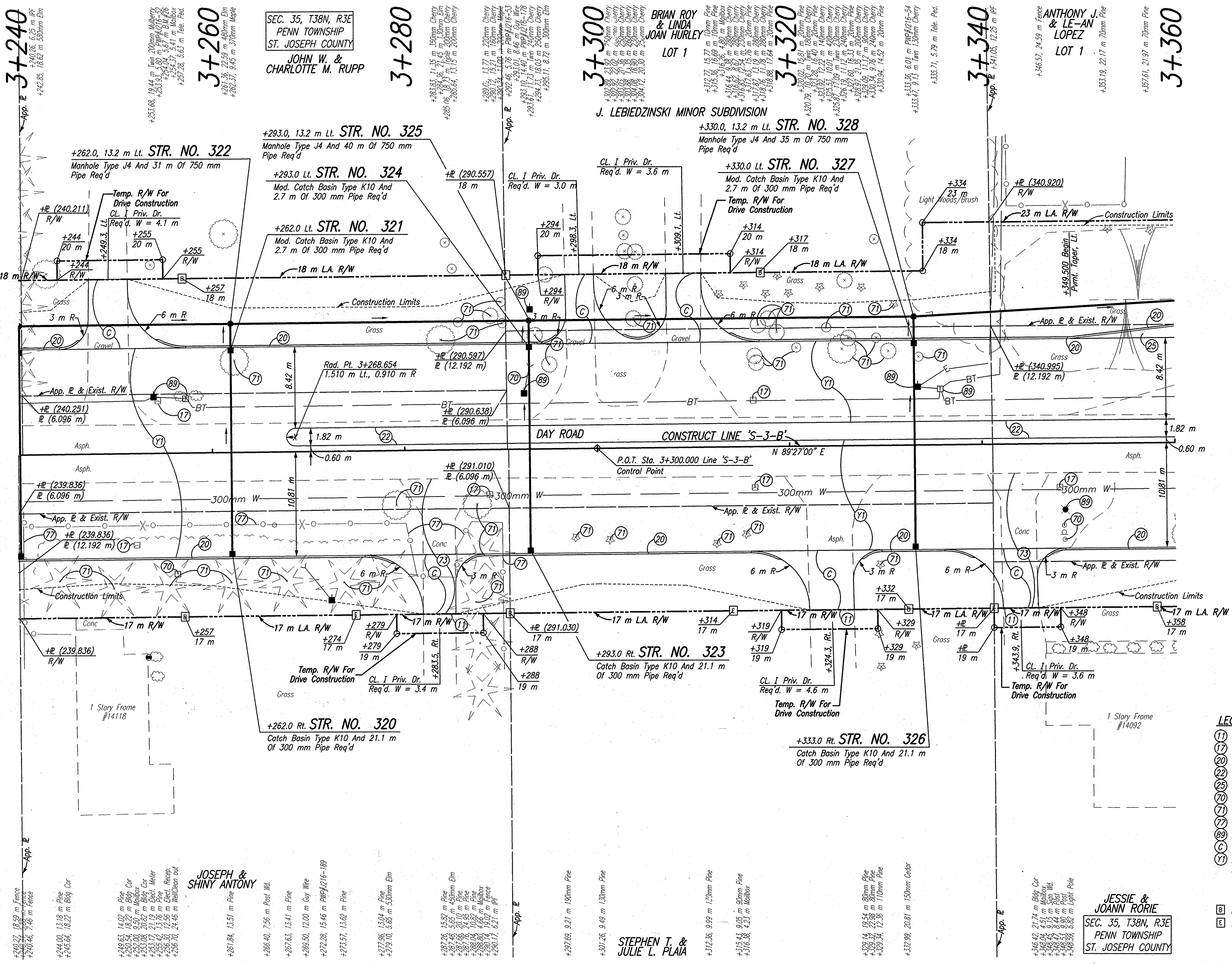
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RECOMMENDED FOR APPROVAL *B. K. Arterbery* 3/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION
 PROFILE
 LINE 'S-3-B'

HORIZONTAL SCALE 1:200	ROAD FILE
VERTICAL SCALE 1:50	DESIGNATION 0300260
SURVEY BOOK ELECTRONIC	SHEETS 30 of 93
CONTRACT R-28625	PROJECT STP-5171(018)



DATE: Feb. 28, 2005, 04:00pm, User: B. K. A. (BKA)
 FILE: M:\proj\01611216\plan\01611216\plan\01611216-53-1.dwg
 PLOT: 01611216-53-1.dwg

Model: 1000-24x25

SEC. 35, T38N, R3E
 PENN TOWNSHIP
 ST. JOSEPH COUNTY
 JOHN W. &
 CHARLOTTE M. RUPP

BRIAN ROY & LINDA
 JOAN HURLEY
 LOT 1

ANTHONY J. & LE-AN
 LOPEZ
 LOT 1

JESSIE &
 JOANN RORIE
 SEC. 35, T38N, R3E
 PENN TOWNSHIP
 ST. JOSEPH COUNTY

LIMITED ACCESS R/W PROVISIONS SHALL APPLY WHERE INDICATED.

NOTE: ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-3-B' UNLESS OTHERWISE NOTED



RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 2/22/05
 DESIGN ENGINEER DATE

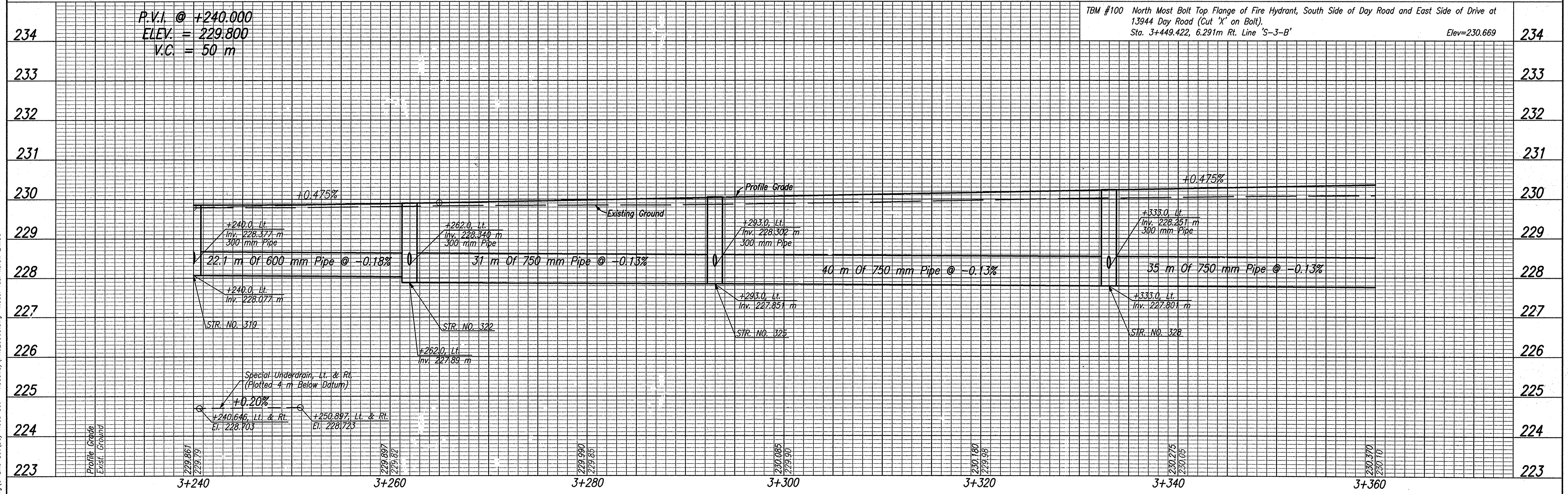
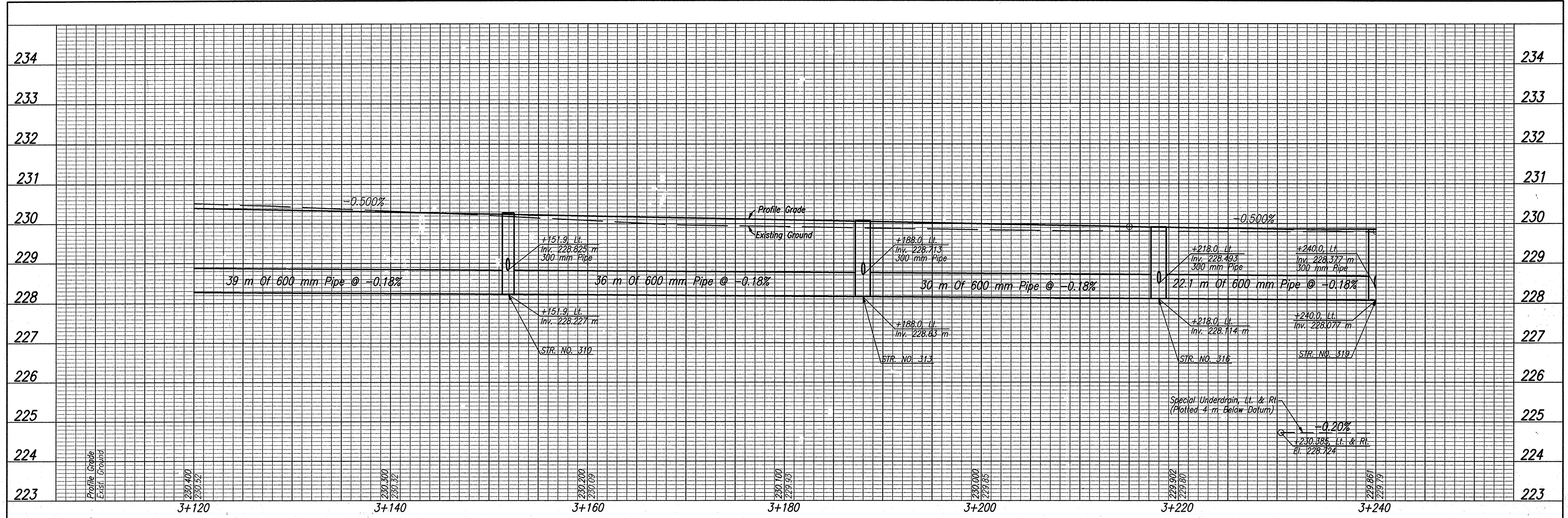
DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN LINE 'S-3-B'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	32 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

- LEGEND**
- (1) Sawcut
 - (17) Mailbox, Relocate
 - (20) Curb, Integral, Concrete
 - (22) Concrete Center Curb, Type D
 - (25) Ear Construction, Type "B"
 - (70) Remove
 - (71) Tree Removal
 - (72) Fence Removal
 - (89) Relocate (By Others)
 - (C) 150 mm Cement Concrete Pavement For Driveways
 - (Y) 250 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)
 - [B] Begin L.A. R/W
 - [E] End L.A. R/W



P.V.I. @ +240.000
ELEV. = 229.800
V.C. = 50 m

TBM #100 North Most Bolt Top Flange of Fire Hydrant, South Side of Day Road and East Side of Drive at 13944 Day Road (Cut 'X' on Bolt), Sta. 3+449.422, 6.291m Rt. Line 'S-3-B' Elev=230.669

Date: Mar 27, 2006, 10:29am User: ID: thill
File: M:\proj\0161\2218\Chen\dwg\S-Line Sta\Day Road Set - Roadway\PRO200005.dwg Model Top: xerox-24x36



RECOMMENDED FOR APPROVAL *B. K. Arterbery* 3/27/06
DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

PROFILE LINE 'S-3-B'

HORIZONTAL SCALE 1:200	ROAD FILE
VERTICAL SCALE 1:50	DESIGNATION 0300260
SURVEY BOOK ELECTRONIC	SHEETS 33 of 93
CONTRACT R-28625	PROJECT STP-5171(018)

3+480

3+500

3+520

3+540

3+560

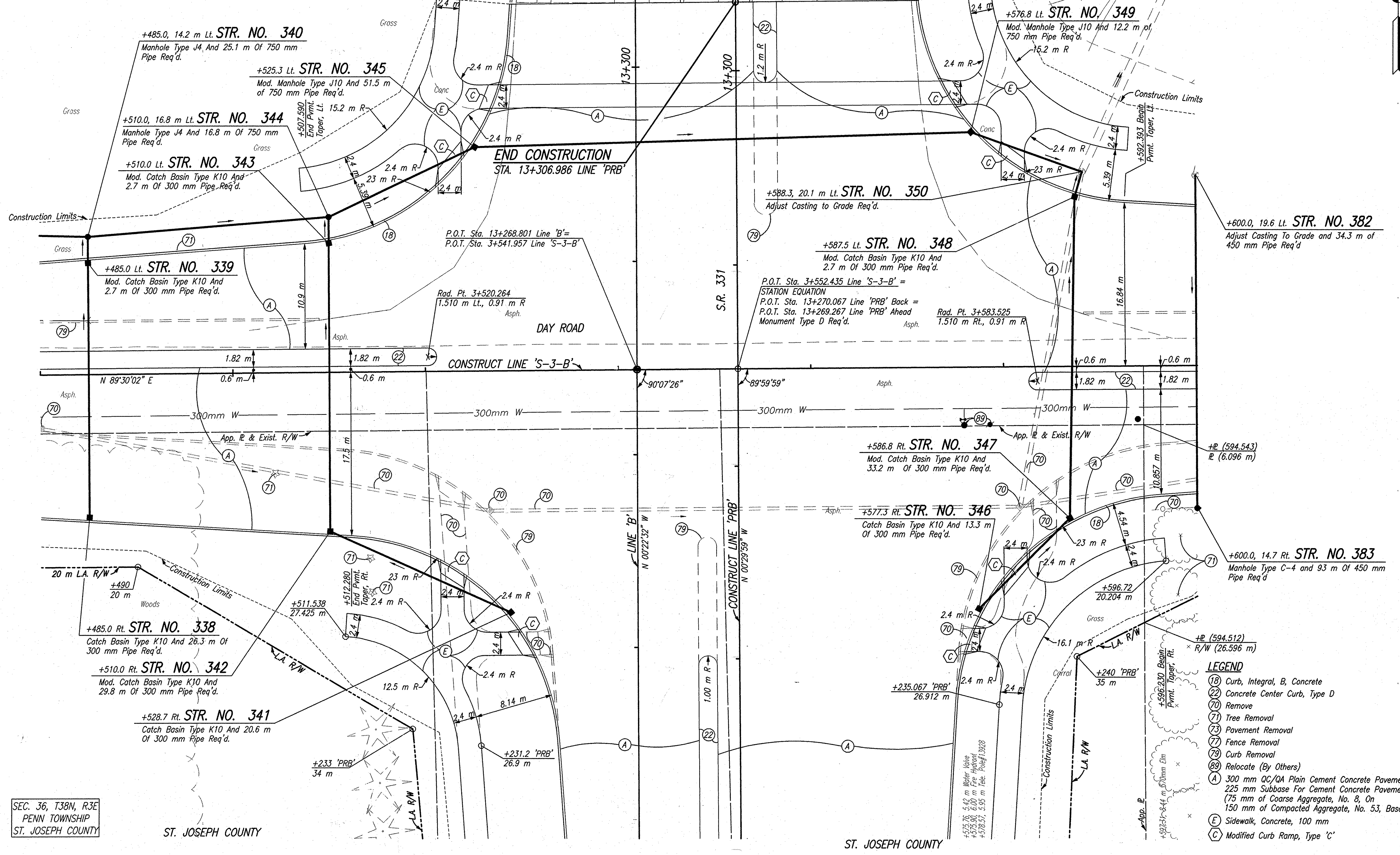
3+580

3+600

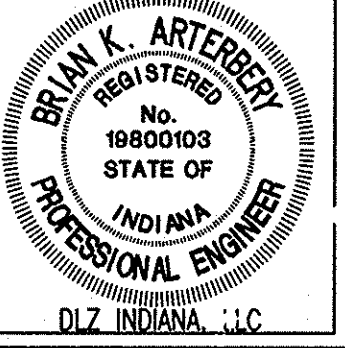
SEC. 36, T38N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY

SEC. 36, T38N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY

Date: Mar 27, 2006, 10:18am User: DLZ
File: M:\proj\0161\2219\cml\cml\15-Line_S-3-B\Day_Road_Sht.dwg Model: Tab: sheet-24-36



NOTE: LIMITED ACCESS R/W PROVISIONS SHALL APPLY WHERE INDICATED ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-3-B' UNLESS OTHERWISE NOTED



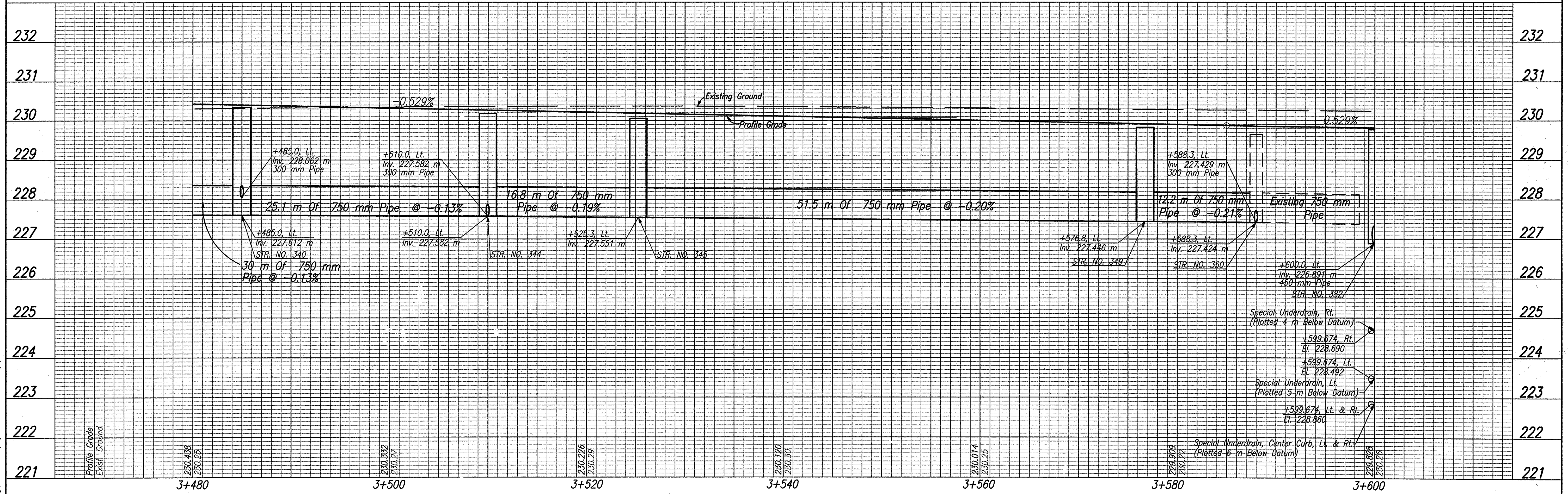
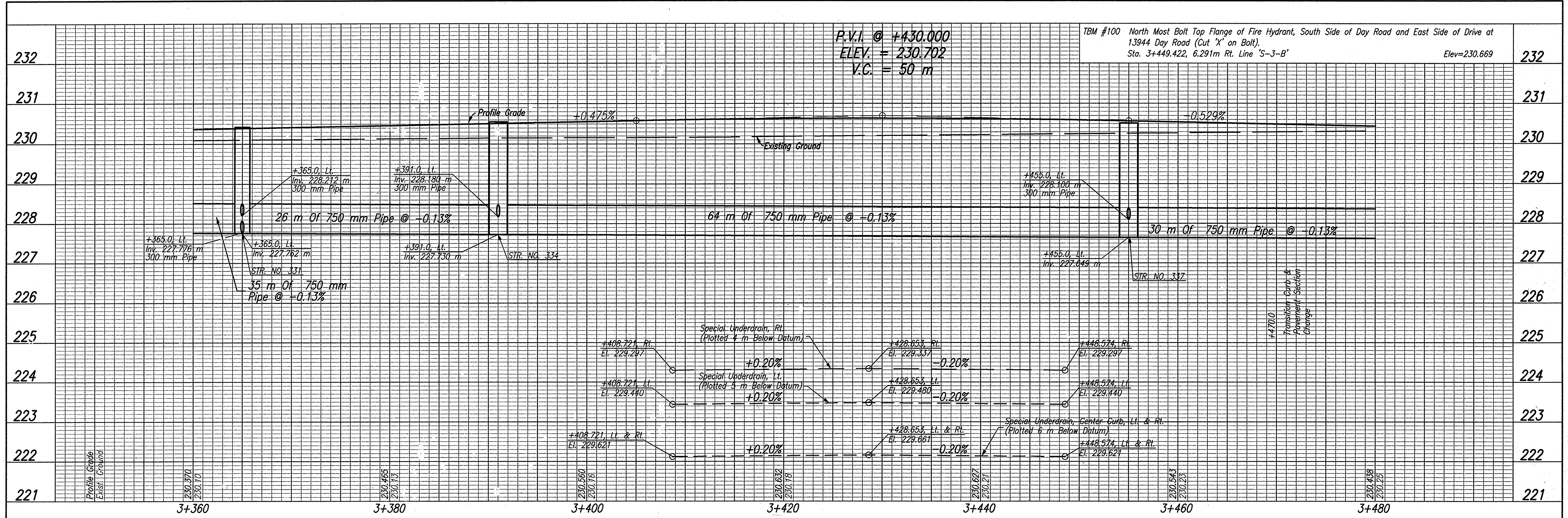
RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 3/27/06
DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

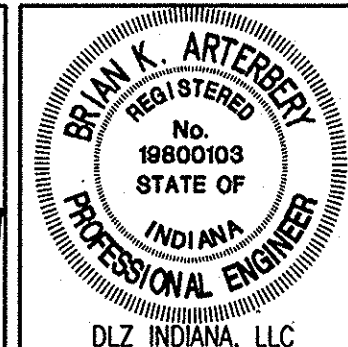
INDIANA DEPARTMENT OF TRANSPORTATION

PLAN LINE 'S-3-B'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	35 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



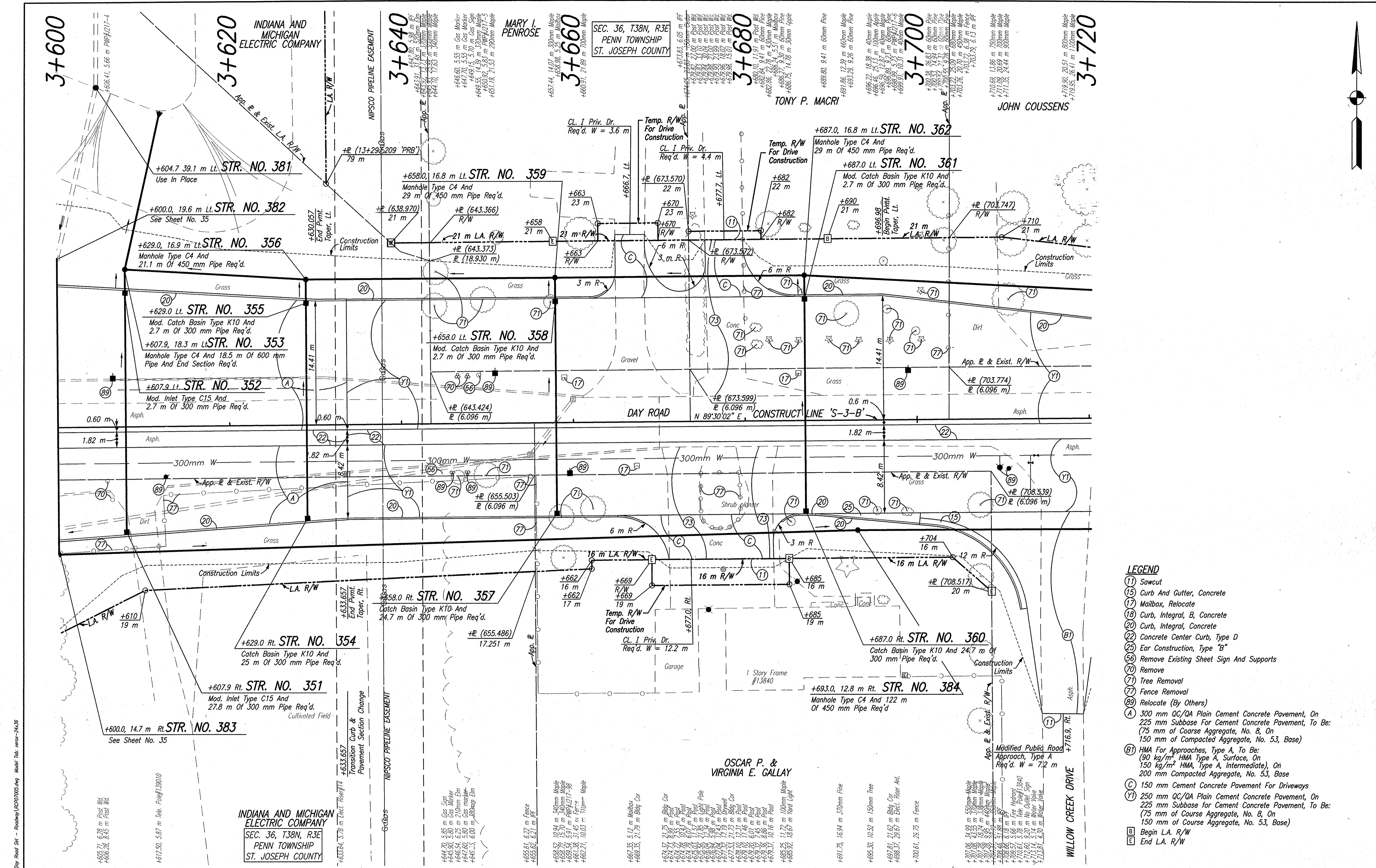
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RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 3/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 PROFILE LINE 'S-3-B'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
1:50	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	36 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



Date: Mar. 27, 2006, 10:05am User: DP: ANJ
 File: M:\proj\0161121701\con\fig15-1.dwg Plot: S:\Draw Road SH - Roadway\RD002025.dwg Model Tab: area-2436

NOTE: LIMITED ACCESS R/W PROVISIONS SHALL APPLY WHERE INDICATED ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-3-B' UNLESS OTHERWISE NOTED



RECOMMENDED FOR APPROVAL: *B. K. Arterbery* 3/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN LINE 'S-3-B'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	37 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

- LEGEND**
- (1) Sawcut
 - (15) Curb And Gutter, Concrete
 - (17) Mailbox, Relocate
 - (18) Curb, Integral, B, Concrete
 - (20) Curb, Integral, Concrete
 - (22) Concrete Center Curb, Type D
 - (25) Ear Construction, Type "B"
 - (56) Remove Existing Sheet Sign And Supports
 - (70) Remove
 - (71) Tree Removal
 - (72) Fence Removal
 - (89) Relocate (By Others)
 - (A) 300 mm QC/QA Plain Cement Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Compacted Aggregate, No. 53, Base)
 - (B) HMA For Approaches, Type A, To Be: (50 kg/m³ HMA Type A, Surface, On 150 kg/m³ HMA, Type A, Intermediate), On 200 mm Compacted Aggregate, No. 53, Base
 - (C) 150 mm Cement Concrete Pavement For Driveways
 - (Y) 250 mm QC/QA Plain Cement Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Coarse Aggregate, No. 53, Base)
 - [B] Begin L.A. R/W
 - [E] End L.A. R/W

3+720

SEC. 36, T38N, R3E
PENN TOWNSHIP
ST. JOSEPH COUNTY
JOHN COUSSENS

3+740

3+760

JOHN COUSSENS

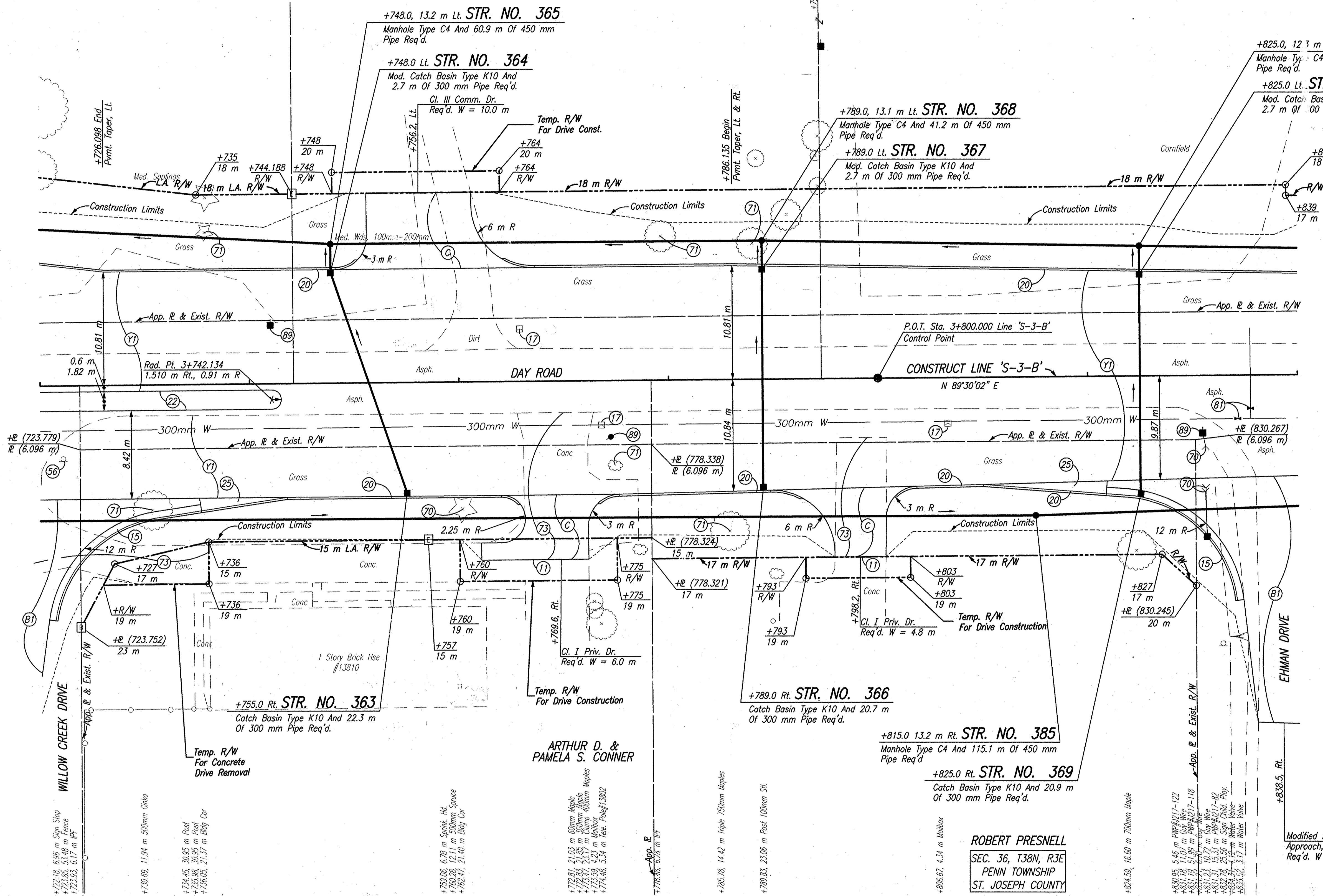
3+780

3+800

JOHN COUSSENS

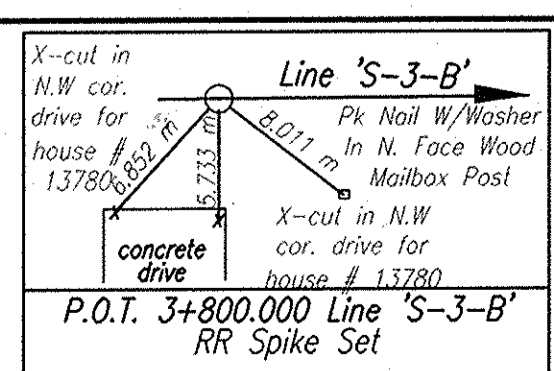
3+820

3+840



- LEGEND**
- (1) Sawcut
 - (15) Curb And Gutter, Concrete
 - (17) Mailbox, Relocate
 - (20) Curb, Integral, Concrete
 - (22) Concrete Center Curb, Type D
 - (25) Ear Construction, Type "B"
 - (56) Remove Existing Sheet Sign And Supports
 - (70) Remove
 - (71) Tree Removal
 - (81) Adjust Valve Box To Grade
 - (89) Relocate (By Others)
 - (B) HMA For Approaches, Type A, To Be: (90 kg/m² HMA Type A, Surface, On 150 kg/m² HMA, Type A, Intermediate), On 200 mm Compacted Aggregate, No. 53, Base
 - (C) 150 mm Cement Concrete Pavement For Driveways
 - (Y) 250 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)
- Modified Public Road Approach, Type A Req'd. W = 7.2 m

Date: Mar 27, 2006, 10:18am User ID: JHL
 File: K:\proj\01611218\DWG\Road\Sec36\Day_Road_Sht1.dwg Model Tab: rsvr-24x36



NOTE: LIMITED ACCESS R/W PROVISIONS SHALL APPLY WHERE INDICATED ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-3-B' UNLESS OTHERWISE NOTED



RECOMMENDED FOR APPROVAL: *B. K. Arterberry*
 DESIGN ENGINEER DATE _____

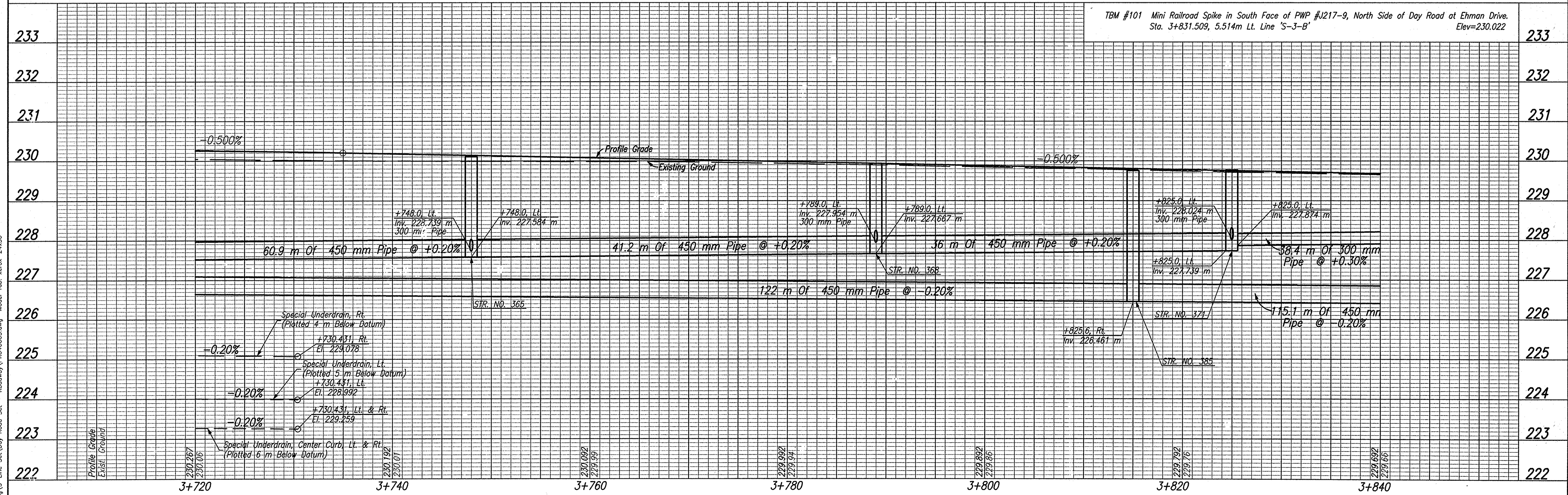
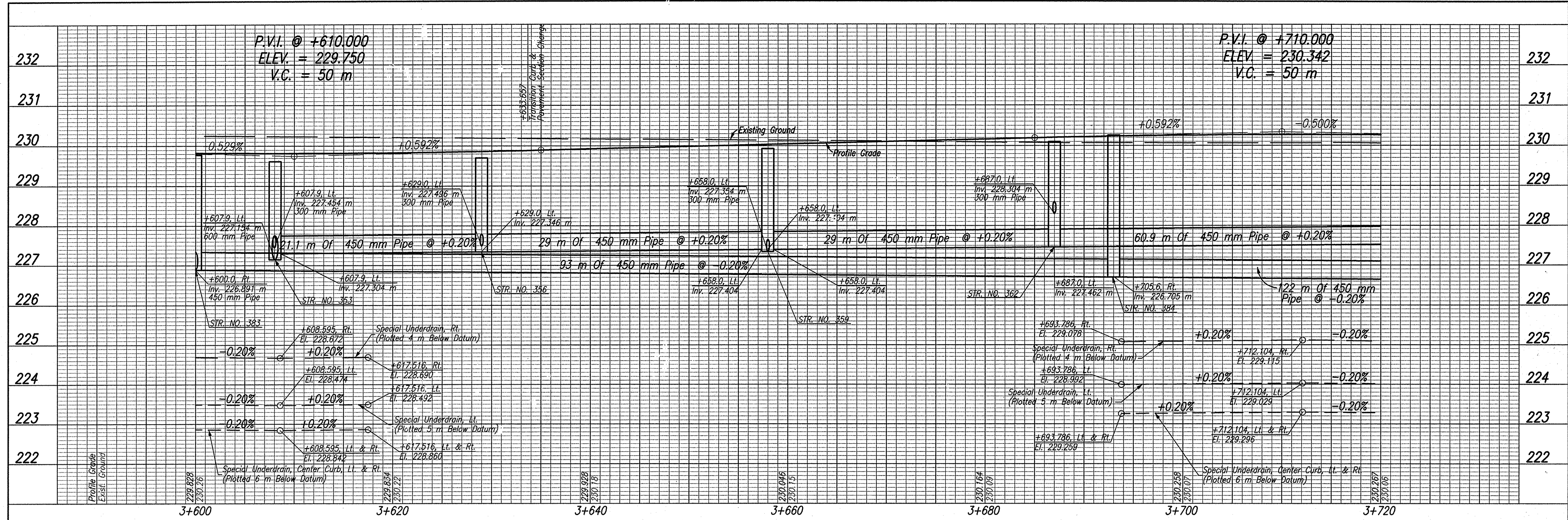
DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

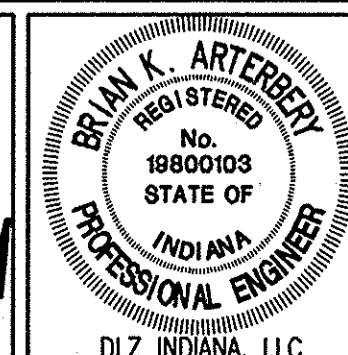
PLAN LINE 'S-3-B'

HORIZONTAL SCALE	ROAD FILE
1:200	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	38 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

ROBERT PRESNELL
 SEC. 36, T38N, R3E
 PENN TOWNSHIP
 ST. JOSEPH COUNTY



Date: Mar 27, 2006, 10:18am User ID: thill
 File: M:\proj\0161\2218\csm\dwg\13-Line Set\Day Road Set - Roadway\Profile\0005.dwg Moral Tab: ver=2436

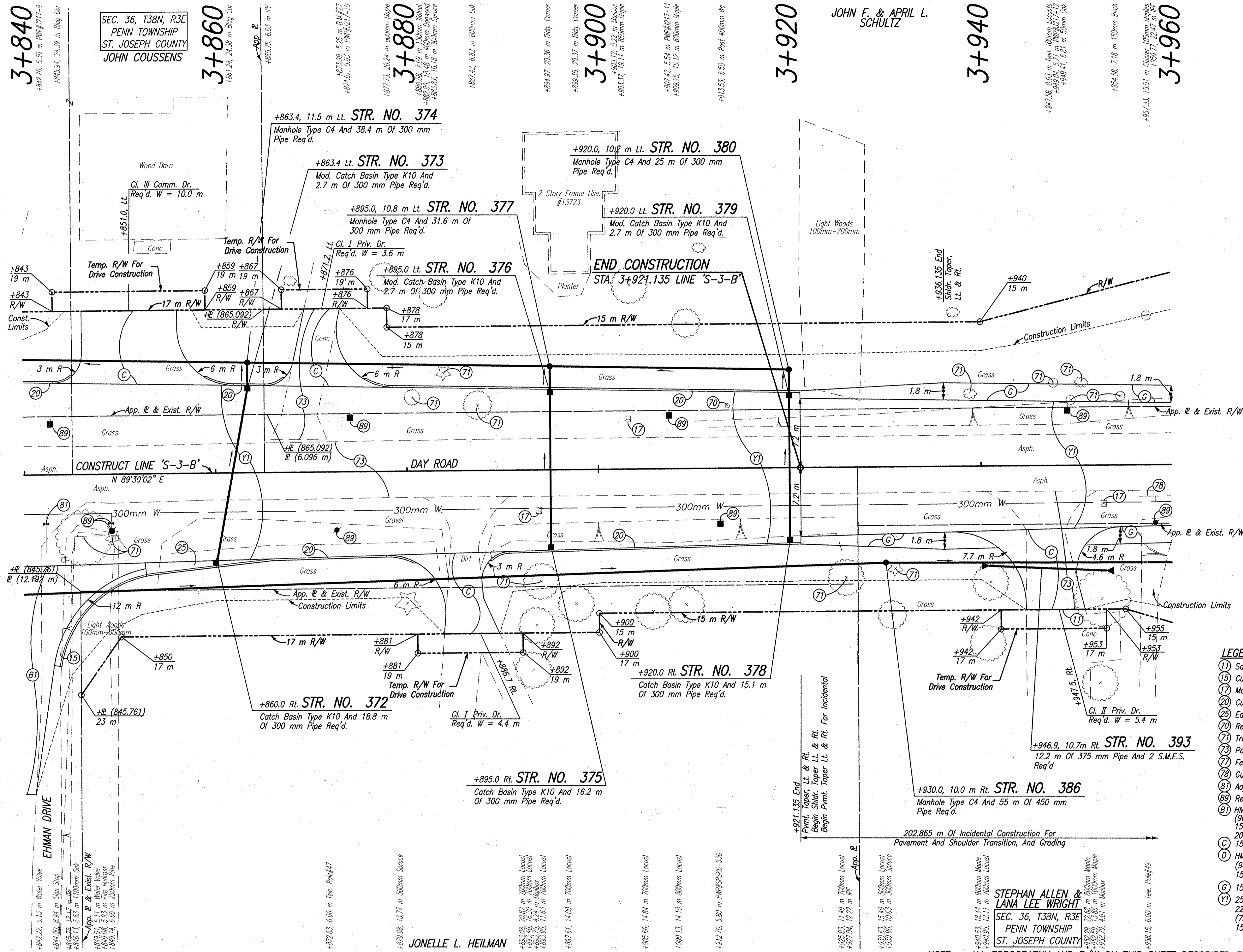


RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 3/27/06 DATE
 DESIGN ENGINEER
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
 PROFILE LINE 'S-3-B'

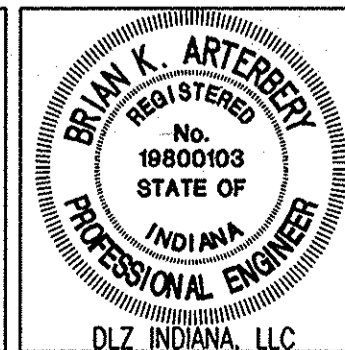
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VERTICAL SCALE 1:50	DESIGNATION 0300260
SURVEY BOOK ELECTRONIC	SHEETS 39 of 93
CONTRACT R-28625	PROJECT STP-5171(018)

Date: Mar 27, 2006, 8:55am User ID: ihll
 File: M:\Proj\01612218\cvt\veg\S-Line Set\Day Road Set - Roadway\PCP09005.DWG Model Tab: xerox-24x36



- LEGEND**
- (1) Sawcut
 - (15) Curb And Gutter, Concrete
 - (17) Mailbox, Relocate
 - (20) Curb, Integral, Concrete
 - (25) Ear Construction, Type "B"
 - (70) Remove
 - (71) Tree Removal
 - (73) Pavement Removal
 - (77) Fence Removal
 - (78) Guardrail Removal
 - (81) Adjust Valve Box To Grade
 - (89) Relocate (By Others)
 - (B) HMA For Approaches, Type A, To Be: (90 kg/m² HMA Type A, Surface, On 150 kg/m² HMA, Type A, Intermediate), On 200 mm Compacted Aggregate, No. 53, Base
 - (C) 150 mm Cement Concrete Pavement For Driveways
 - (D) HMA for Approaches, Type A, To Be: (90 kg/m² HMA, Type A, Surface On 150 kg/m² HMA, Type A, Intermediate)
 - (G) 150 mm Compacted Aggregate No. 73
 - (Y) 250 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)

NOTE: ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-3-B' UNLESS OTHERWISE NOTED



RECOMMENDED FOR APPROVAL: *Brian K. Arterberry* 3/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

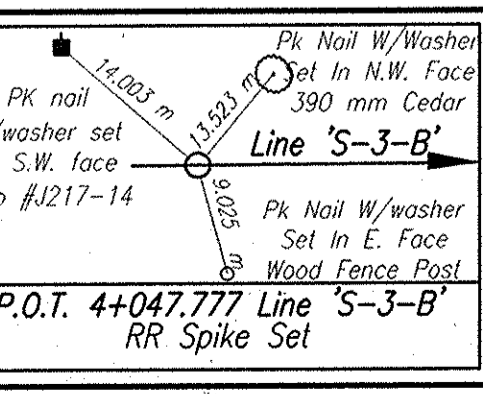
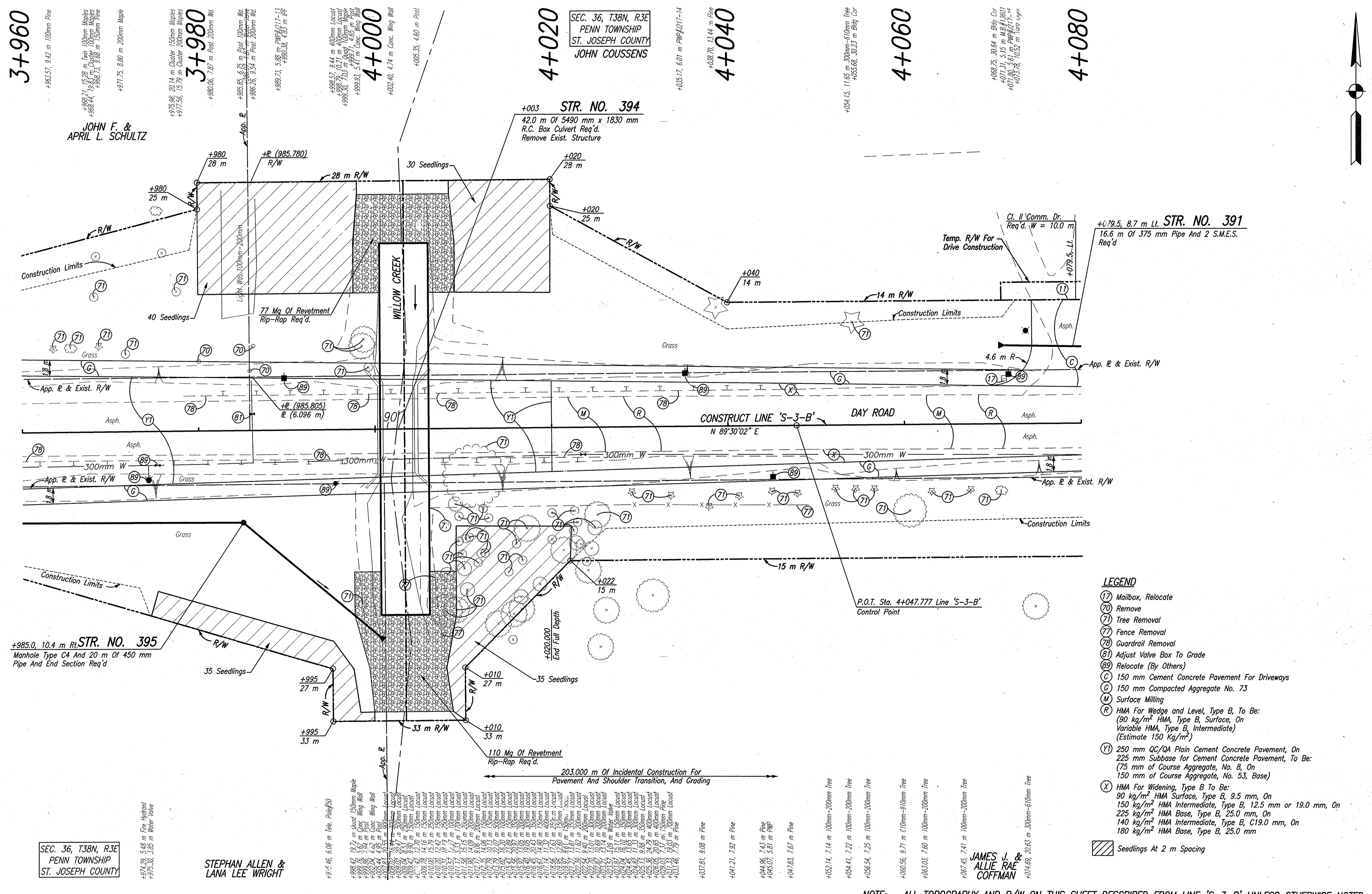
INDIANA DEPARTMENT OF TRANSPORTATION

STEPHAN ALLEN & LANA LEE WRIGHT
 SEC. 36, T38N, R3E
 PENN TOWNSHIP
 ST. JOSEPH COUNTY

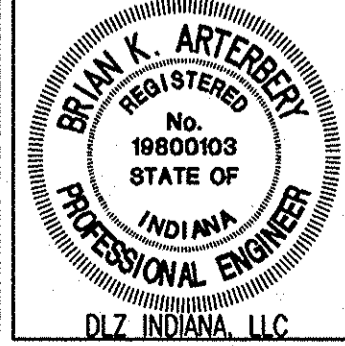
PLAN LINE 'S-3-B'

HORIZONTAL SCALE	ROAD FILE
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	40 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

Date: Feb 28, 2006, 9:43am User: ID: thil File: W:\proj\0161\221B\civil\dwg\S-Line Set - Roadway\ROP10005.dwg Model Tab: xrow-24-36



SEC. 36, T38N, R3E
 PENN TOWNSHIP
 ST. JOSEPH COUNTY
 STEPHAN ALLEN &
 LANA LEE WRIGHT



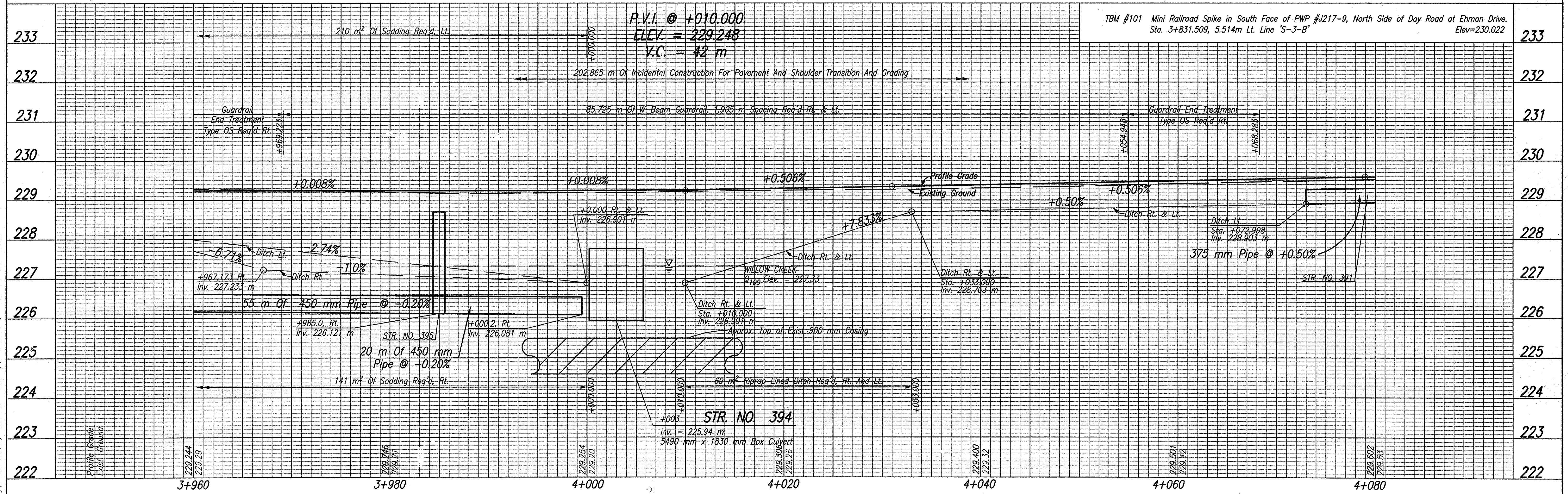
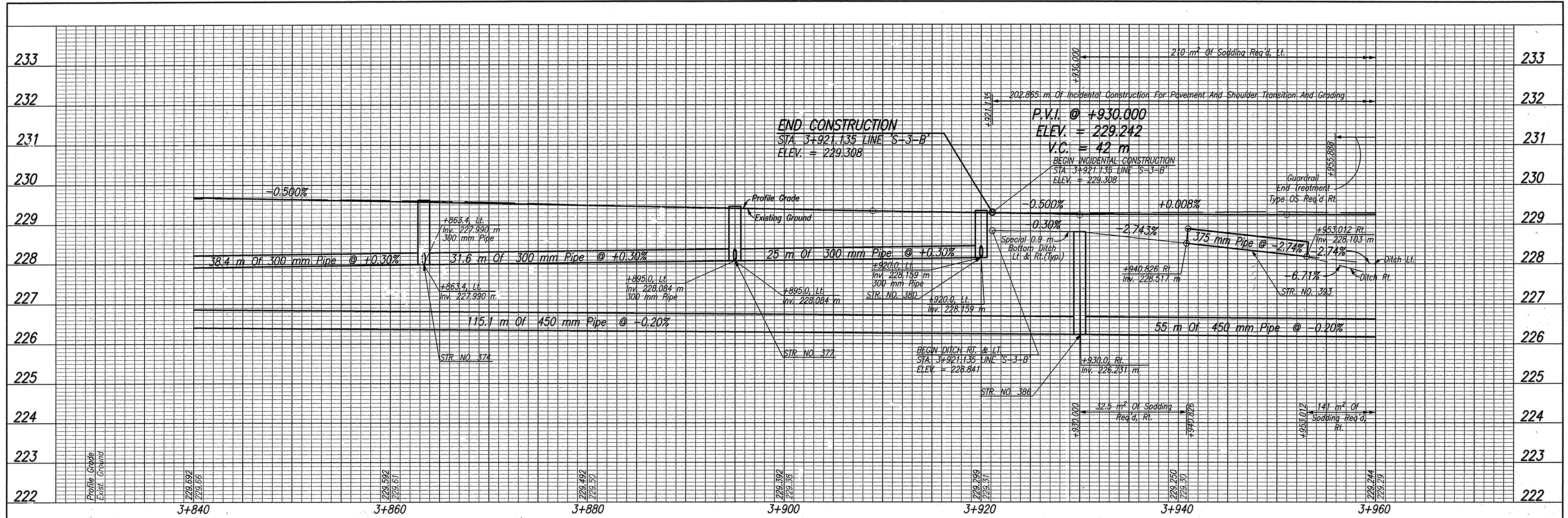
RECOMMENDED FOR APPROVAL	<i>B. K. Artberger</i>	2/21/06
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION
 PLAN
 LINE 'S-3-B'

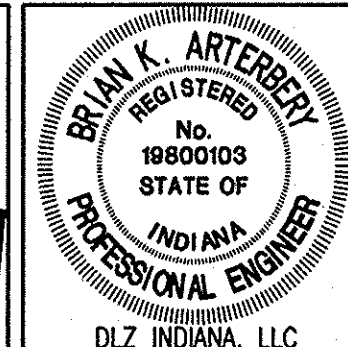
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VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	41 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

- LEGEND**
- (17) Mailbox, Relocate
 - (70) Remove
 - (71) Tree Removal
 - (77) Fence Removal
 - (78) Guardrail Removal
 - (81) Adjust Valve Box To Grade
 - (89) Relocate (By Others)
 - (C) 150 mm Cement Concrete Pavement For Driveways
 - (G) 150 mm Compacted Aggregate No. 73
 - (M) Surface Milling
 - (R) HMA For Wedge and Level, Type B, To Be:
 - 90 kg/m² HMA, Type B, Surface, On Variable HMA, Type B, Intermediate) (Estimate 150 Kg/m²)
 - (Y1) 250 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Course Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)
 - (X) HMA For Widening, Type B To Be:
 - 90 kg/m² HMA Surface, Type B, 9.5 mm, On 150 kg/m² HMA Intermediate, Type B, 12.5 mm or 19.0 mm, On 225 kg/m² HMA Base, Type B, 25.0 mm, On 140 kg/m² HMA Intermediate, Type B, C19.0 mm, On 180 kg/m² HMA Base, Type B, 25.0 mm
 - Seedlings At 2 m Spacing

NOTE: ALL TOPOGRAPHY AND R/W ON THIS SHEET DESCRIBED FROM LINE 'S-3-B' UNLESS OTHERWISE NOTED



Date: Mar 27, 2008, 3:21pm User: D:\barbierney File: M:\proj\0161\2218\chm\dwg\S-Line Set\Day Road Set - Roadway\PROJ0005.dwg Model Tab: serox-24x36



RECOMMENDED FOR APPROVAL *B. K. Arterberry* 3/27/08 DATE
 DESIGN ENGINEER

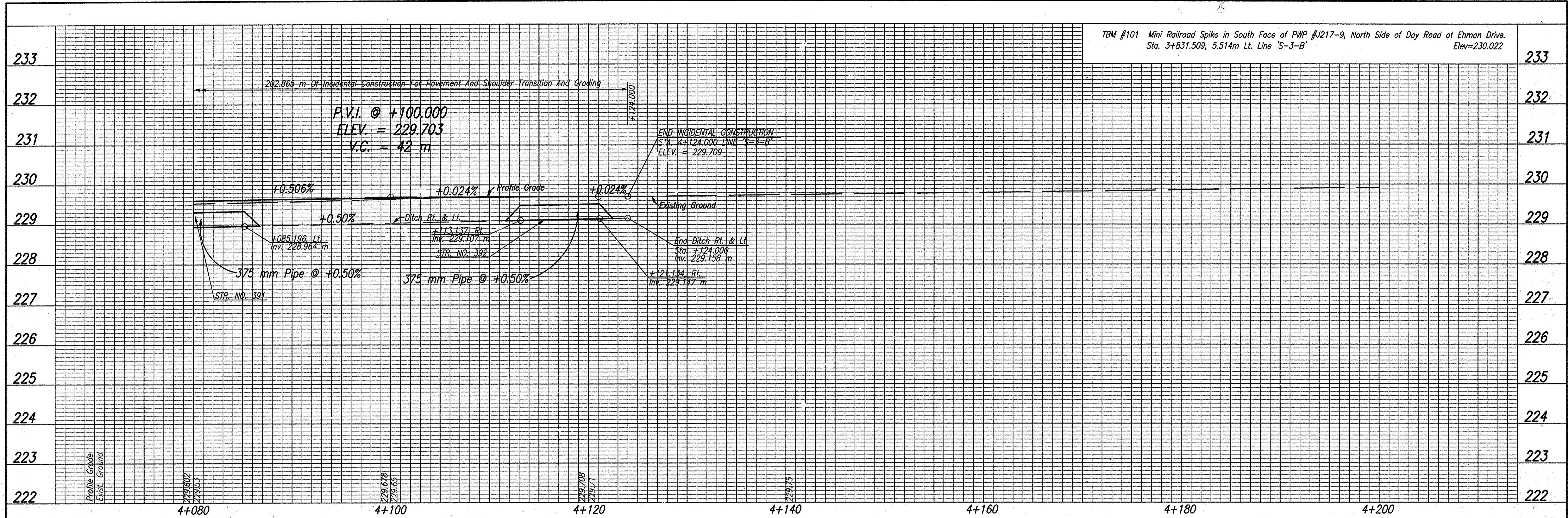
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 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

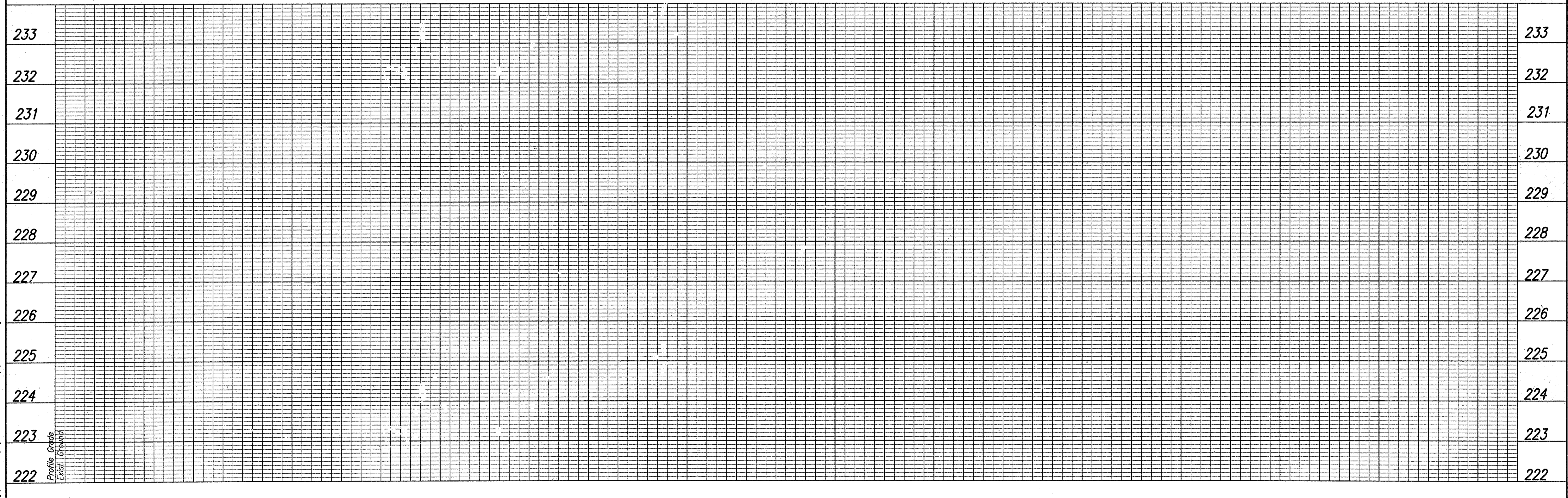
PROFILE LINE 'S-3-B'

HORIZONTAL SCALE 1:200	ROAD FILE
VERTICAL SCALE 1:50	DESIGNATION 0300260
SURVEY BOOK ELECTRONIC	SHEETS 42 of 93
CONTRACT R-28625	PROJECT STP-5171(018)

TBM #101 Mini Railroad Spike in South Face of PWP #J217-9, North Side of Day Road at Ehman Drive.
Sta. 3+831.509, 5.514m Lt. Line 'S-3-B'
Elev=230.022



Date: Feb 28, 2006, 9:40am, User ID: ihill
File: M:\proj\0161\2218\civil\dwg\S-Line Sat\Day Road Sat - Roadway\PRO00005.dwg Model Tab: xerox-24x36



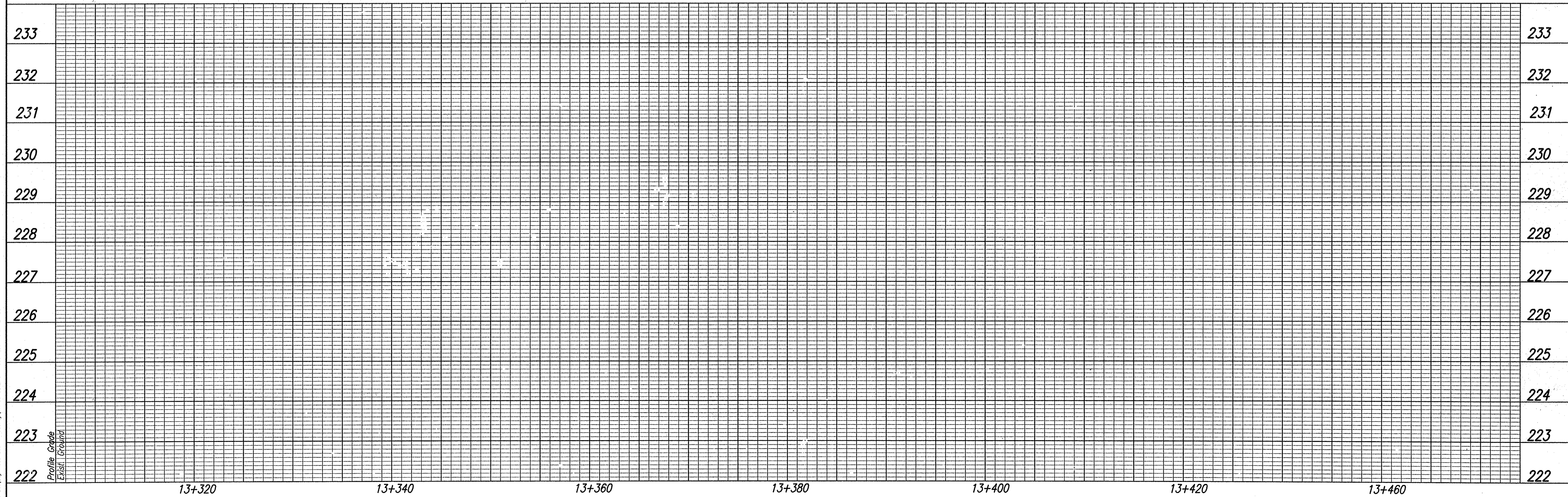
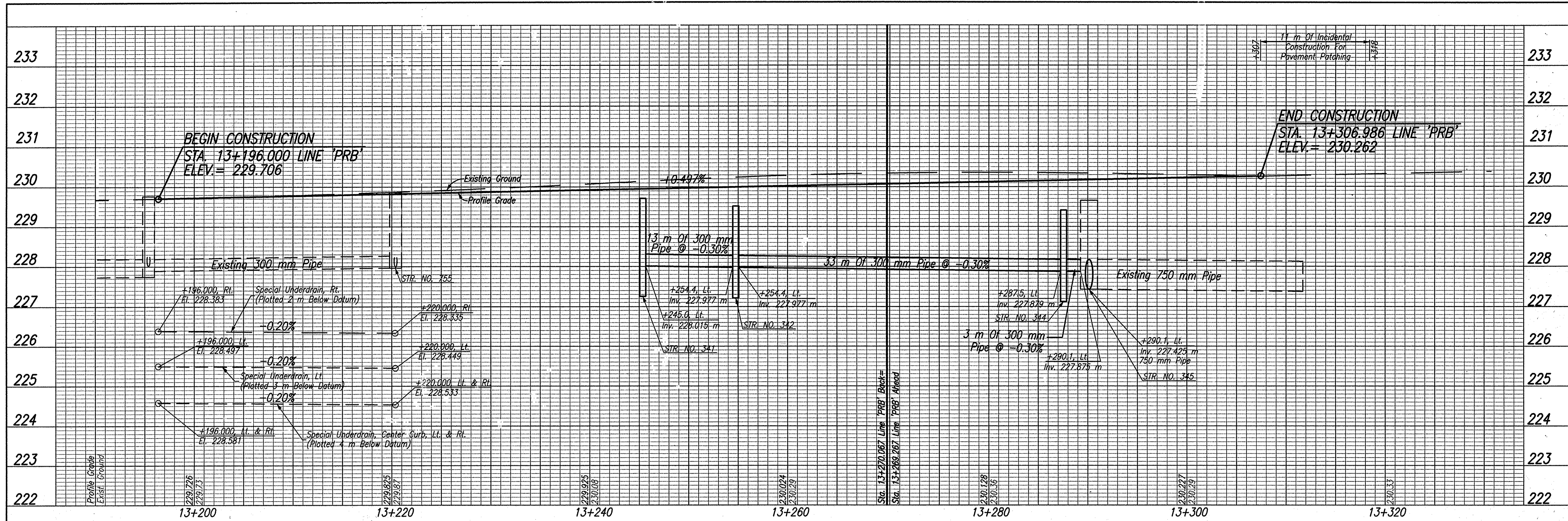
RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 2/27/06
DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

PROFILE LINE 'S-3-B'

HORIZONTAL SCALE 1:200	ROAD FILE
VERTICAL SCALE 1:50	DESIGNATION 0300260
SURVEY BOOK ELECTRONIC	SHEETS 44 of 93
CONTRACT R-28625	PROJECT STP-5171(018)



Date: Feb. 28, 2005, 9:40am User ID: hll
File: R:\proj\10161\2219\civil\wg15-Line Ser Day Road Ser - Roadway\PR150100.DWG Model Plot: wmm-2x35



RECOMMENDED FOR APPROVAL *Brian K. Arterberry* 2/27/05
DESIGN ENGINEER DATE

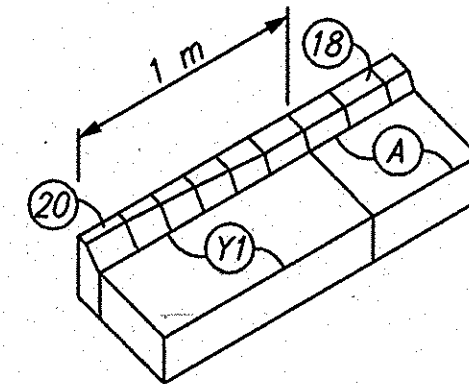
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CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

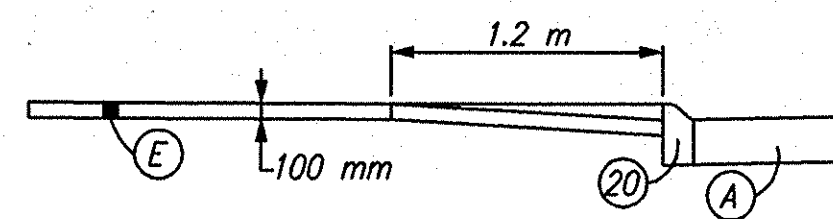
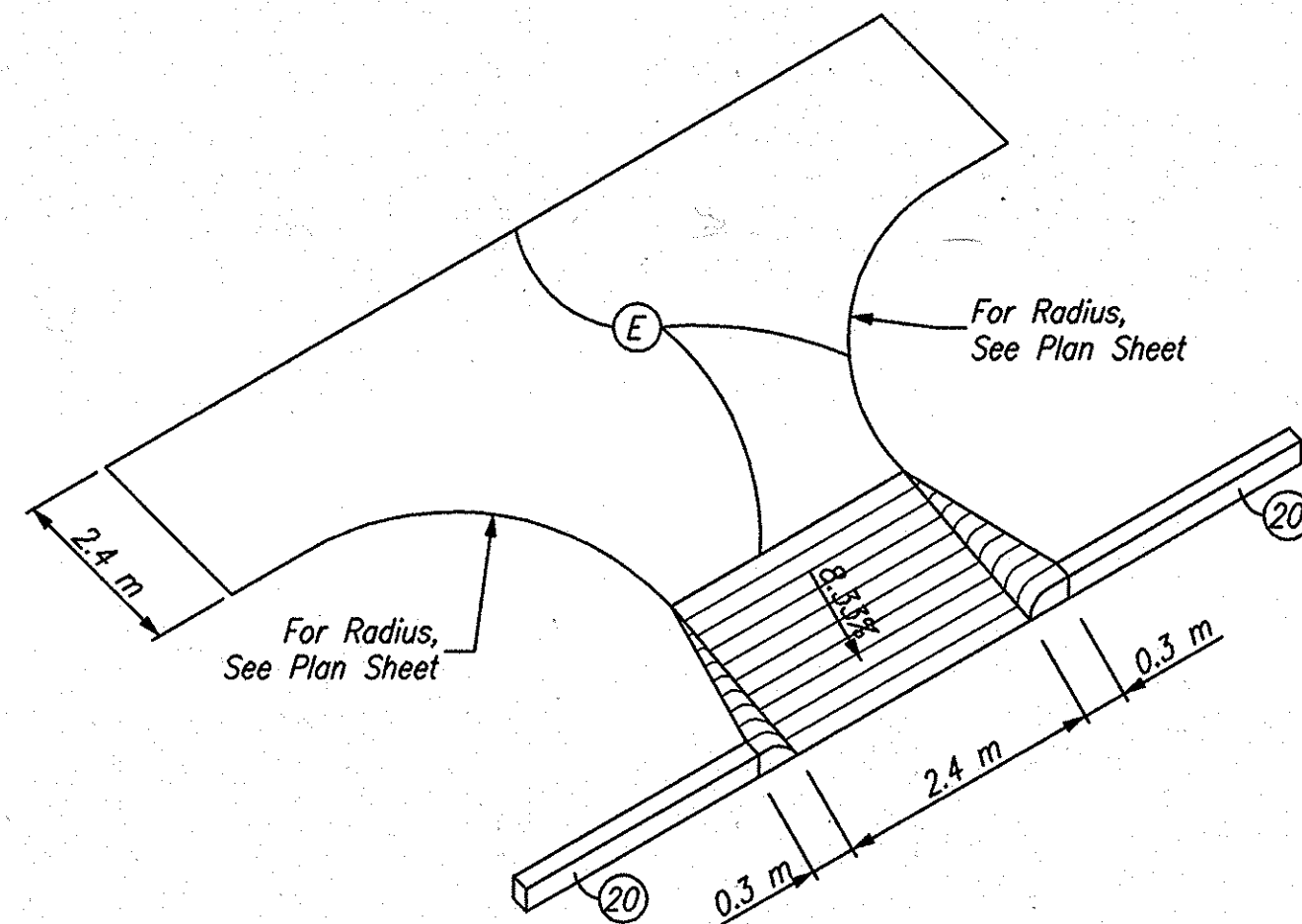
PROFILE LINE 'PRB'

HORIZONTAL SCALE 1:200	ROAD FILE
VERTICAL SCALE	DESIGNATION 0300260
SURVEY BOOK ELECTRONIC	SHEETS 46 of 93
CONTRACT R-28625	PROJECT STP-5171(018)

Date: Feb 28, 2006, 1:15pm, User ID: ihill
 File: M:\Proj\0161\2218\civil\dwg\S-Line SHA Day Road Set - Roadway\2218DT20.dwg Model Tab: xerox-24x36



CURB TRANSITION FROM 100 mm TO 150 mm
N.T.S.



MODIFIED CONCRETE CURB RAMP, TYPE C
N.T.S.

LEGEND

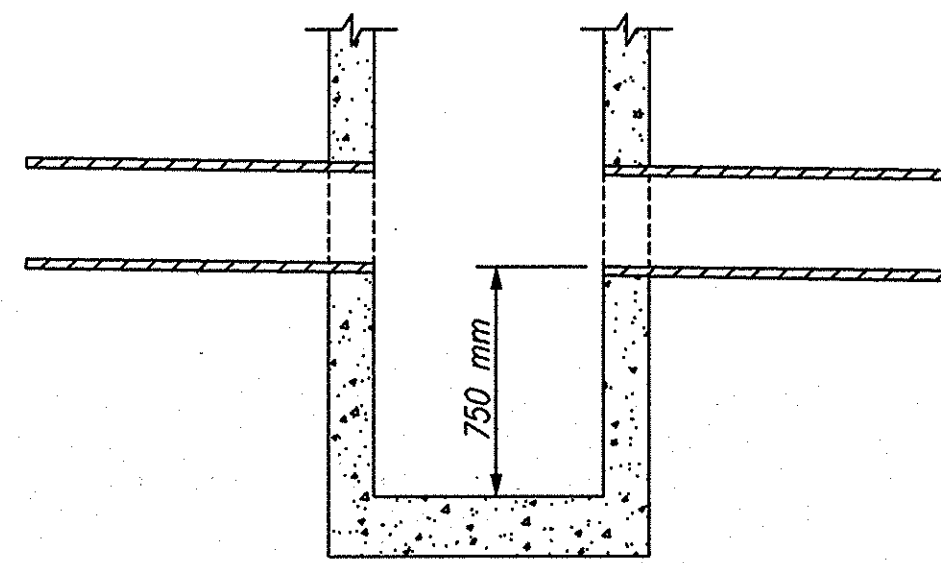
- (18) Curb, Integral, B, Concrete
- (20) Curb, Integral, Concrete
- (A) 300 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase For Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Compacted Aggregate, No. 53, Base)
- (E) Sidewalk, Concrete, 100 mm
- (Y1) 250 mm QC/QA Plain Cement Concrete Pavement, On 225 mm Subbase for Cement Concrete Pavement, To Be: (75 mm of Coarse Aggregate, No. 8, On 150 mm of Course Aggregate, No. 53, Base)



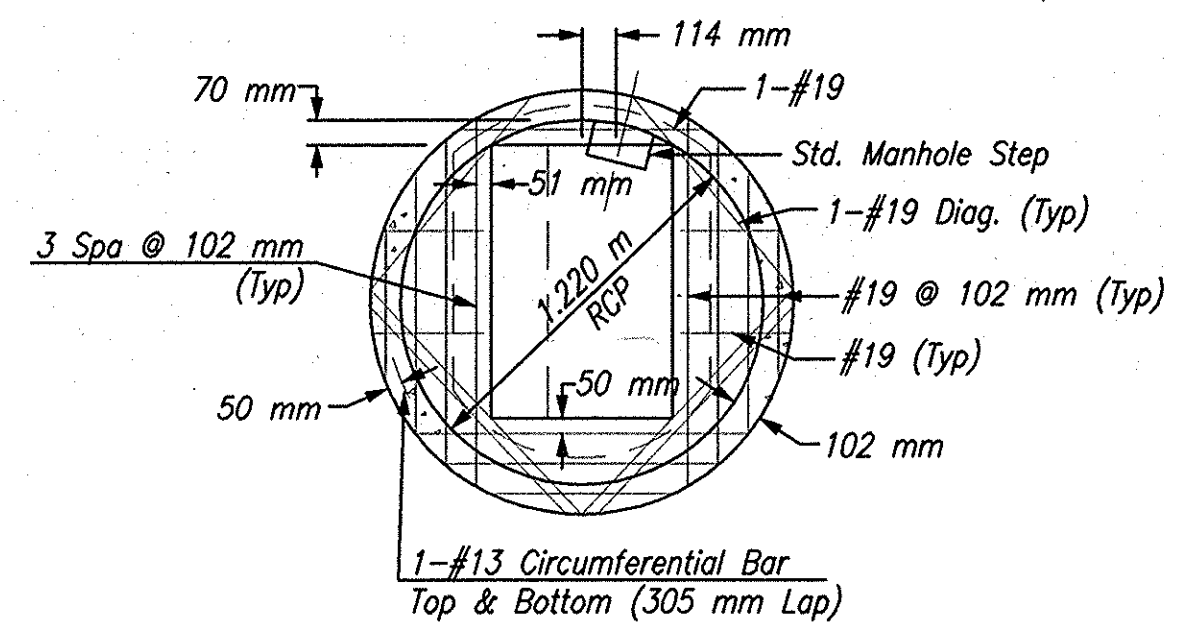
RECOMMENDED FOR APPROVAL	<i>B. K. Arterbery</i> 2/27/06	
	DESIGN ENGINEER	DATE
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DETAILS

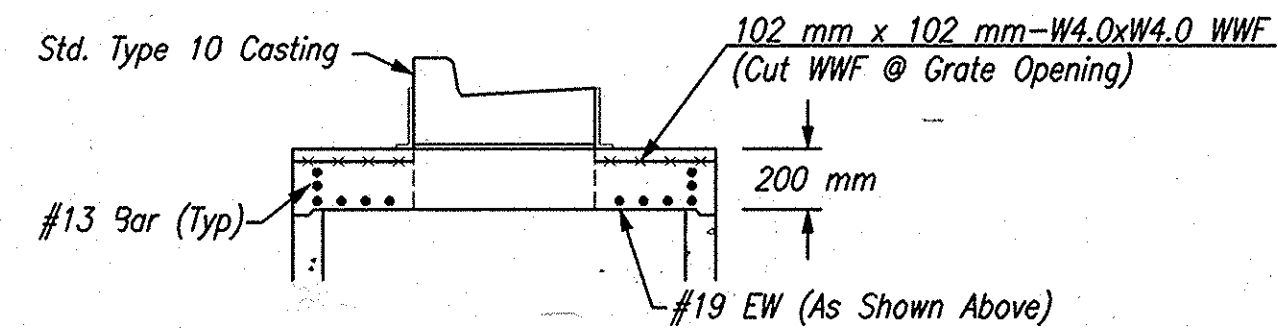
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AS SHOWN	
VERTICAL SCALE	DESIGNATION
AS SHOWN	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	47 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



MODIFIED INLET, TYPE 'C'



PLAN



PRECAST LID

MODIFIED TYPE C-10, J-10
MANHOLE

Scale: N.T.S.

Date: Mar 27, 2006, 11:34am User ID: thill
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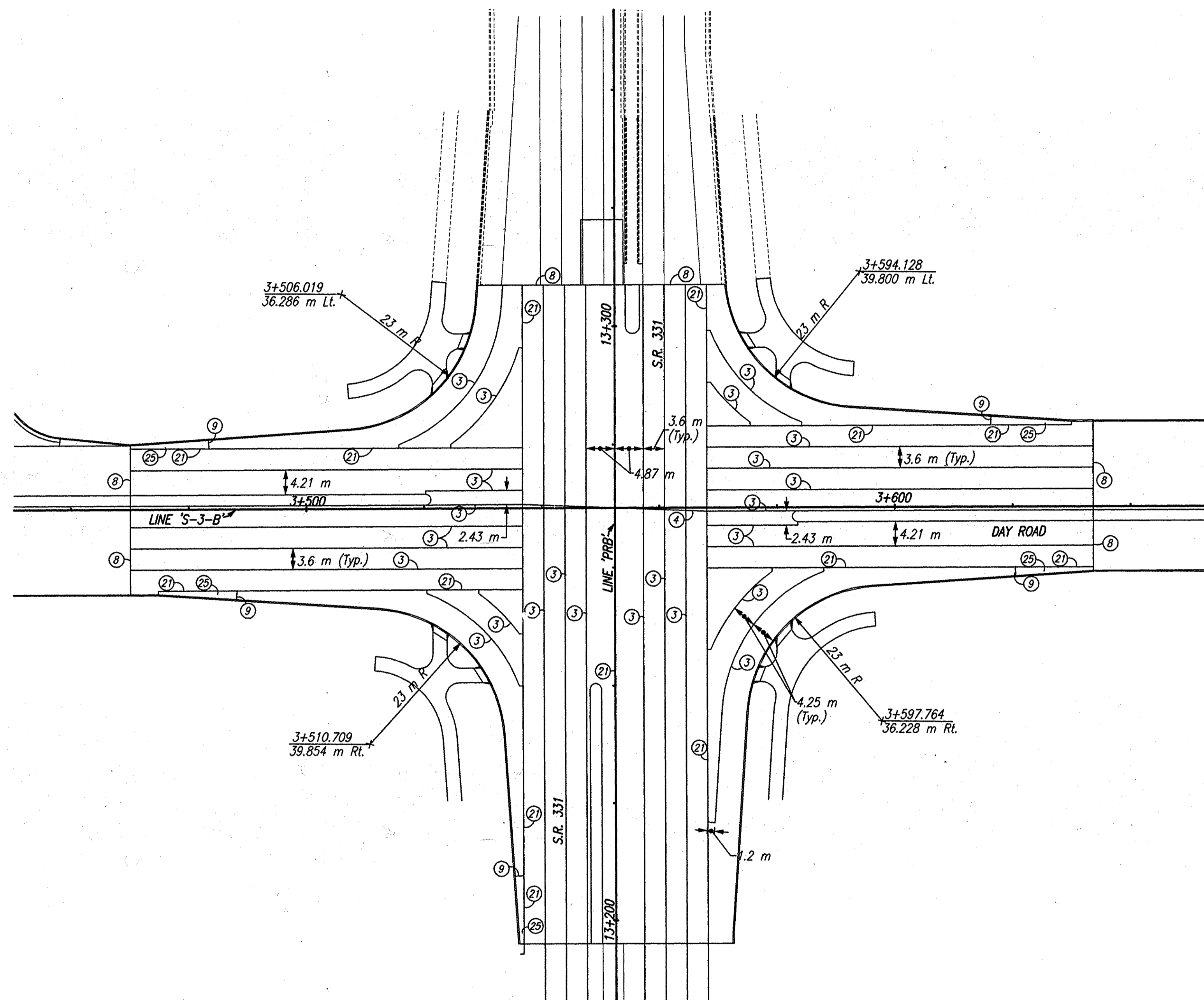


RECOMMENDED FOR APPROVAL	<i>B. K. Arterbery</i>	DESIGN ENGINEER	DATE
DESIGNED:	ERW	DRAWN:	TH
CHECKED:	BKA	CHECKED:	ERW

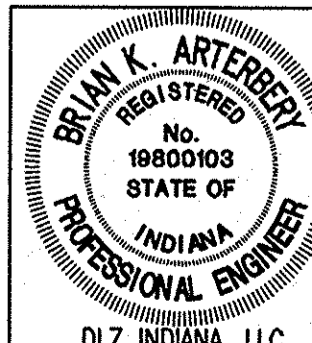
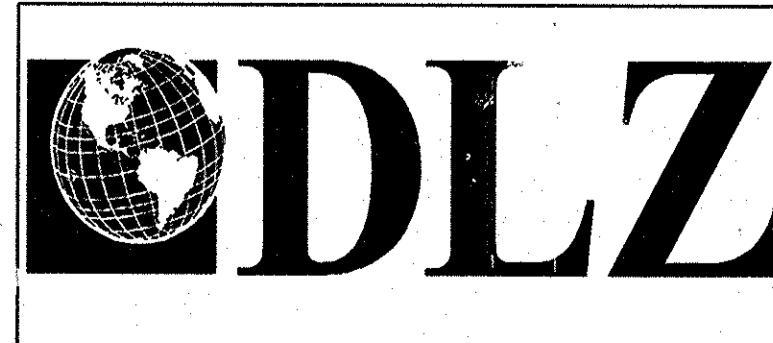
INDIANA DEPARTMENT OF TRANSPORTATION	
CONSTRUCTION DETAILS	

HORIZONTAL SCALE	ROAD FILE
As Shown	
VERTICAL SCALE	DESIGNATION
As Shown	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	48 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

Date: Feb 28, 2006, 9:31am User ID: thill
 File: M:\proj\0161\2218\civil\dwg\S-Line Set\Day Road Sat - Roadway\2218D722.dwg Model Tab: xerox-24x36



- LEGEND**
- ③ Longitudinal Joint
 - ④ Transverse Construction Joint
 - ⑧ Construction Joint
 - ⑨ 25 mm Preformed Joint Filler
 - ⑪ Longitudinal Construction Joint
 - ⑫ Ear Construction, Type "B"

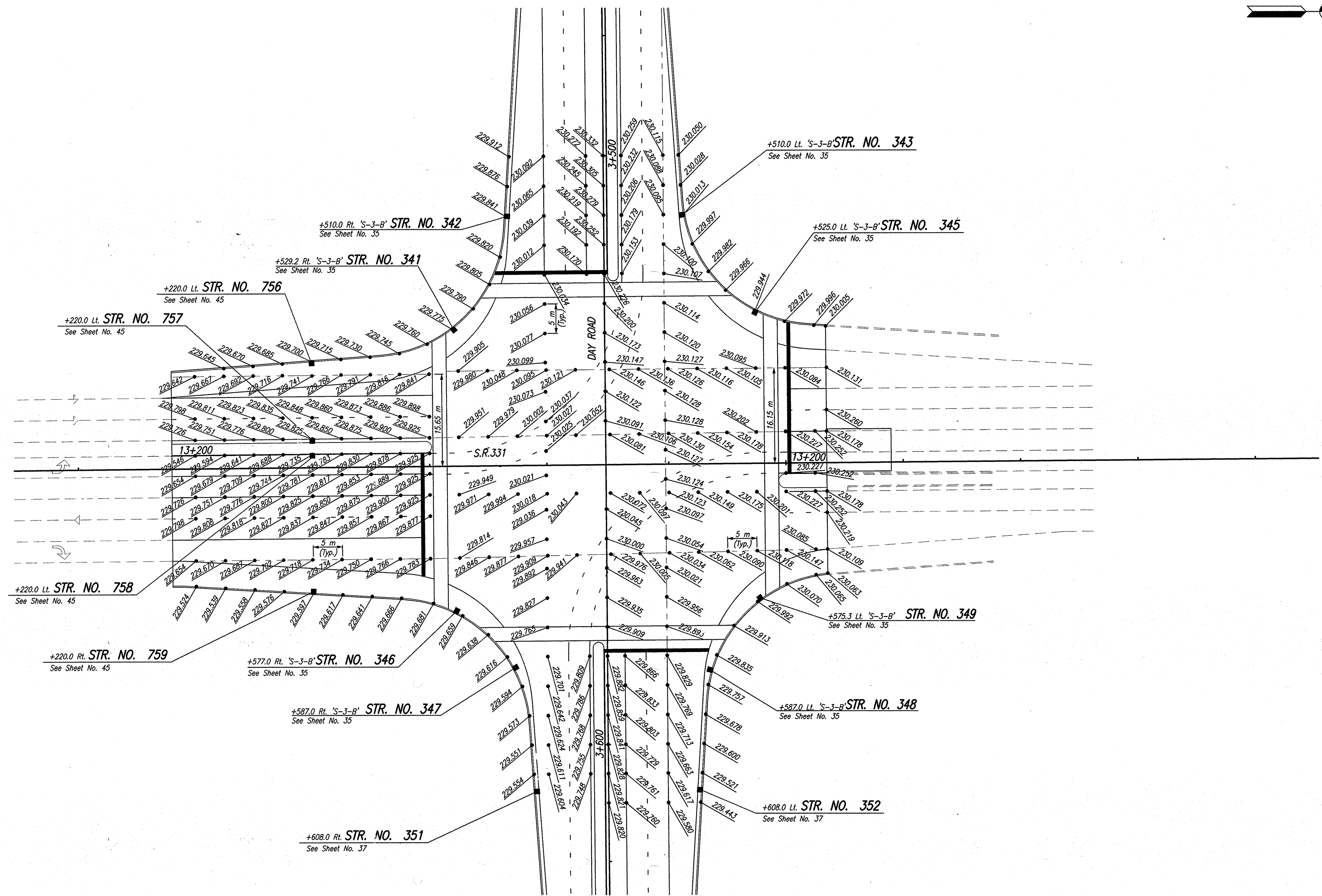


RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	2/27/06
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION

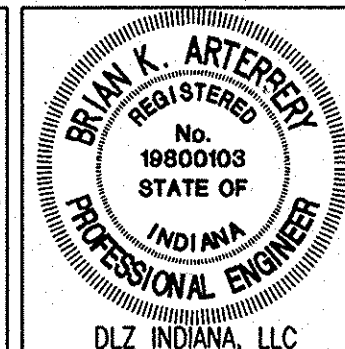
CONSTRUCTION DETAILS

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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
ELECTRONIC	49 of 93
CONTRACT	PROJECT
R-28625	STP-5171(017)



NOTE
 1. All Intersections Are To Be Considered As Complete Units And Their Grades Determined By The Contractor Before Construction Is Started.

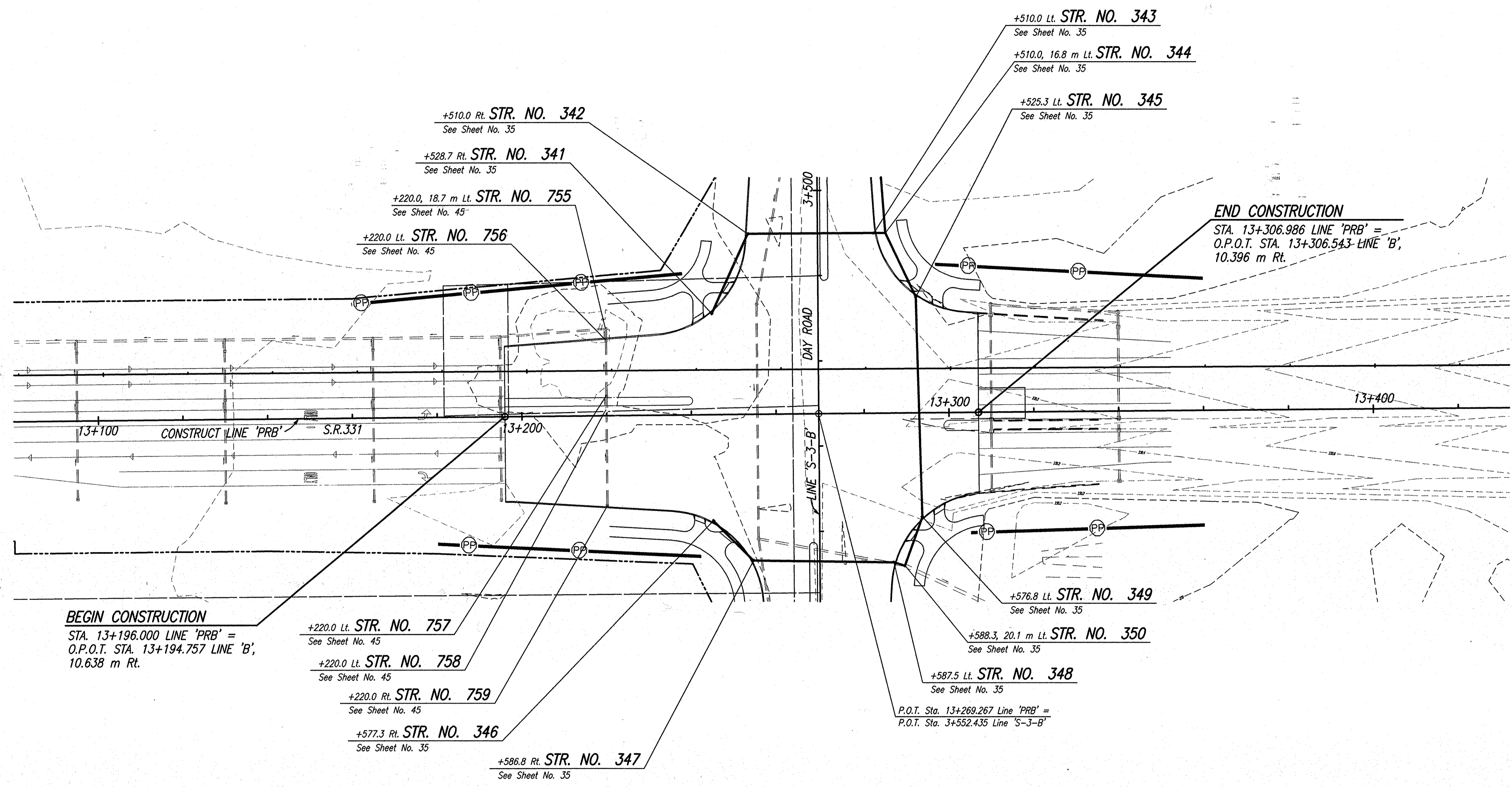
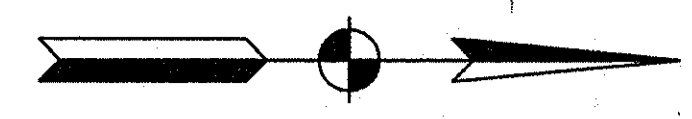
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RECOMMENDED FOR APPROVAL *B. K. Arterberry* 3/27/06 DATE
 DESIGN ENGINEER
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
SPOT ELEVATIONS DAY ROAD

HORIZONTAL SCALE	ROAD FILE
1:300	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	50 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



BEGIN CONSTRUCTION

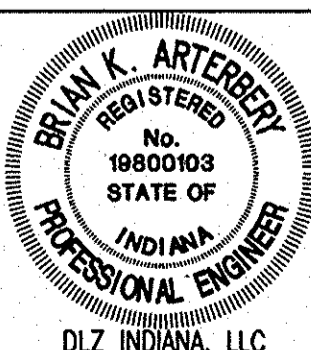
STA. 13+196.000 LINE 'PRB' =
O.P.O.T. STA. 13+194.757 LINE 'B',
10.638 m Rt.

END CONSTRUCTION

STA. 13+306.986 LINE 'PRB' =
O.P.O.T. STA. 13+306.543 LINE 'B',
10.396 m Rt.

Date: Feb 28, 2006, 9:32am User: ID: ihill
File: M:\proj\0161\2218\civil\dwg\S-Line Set\Day Road Set - Roadway\2218ec08.dwg Model Tab: xerox-24x36

LEGEND
 Temporary Erosion Control, Perimeter Protection (Silt Fence)
 (See Standard Drawing 205-TECP-01)



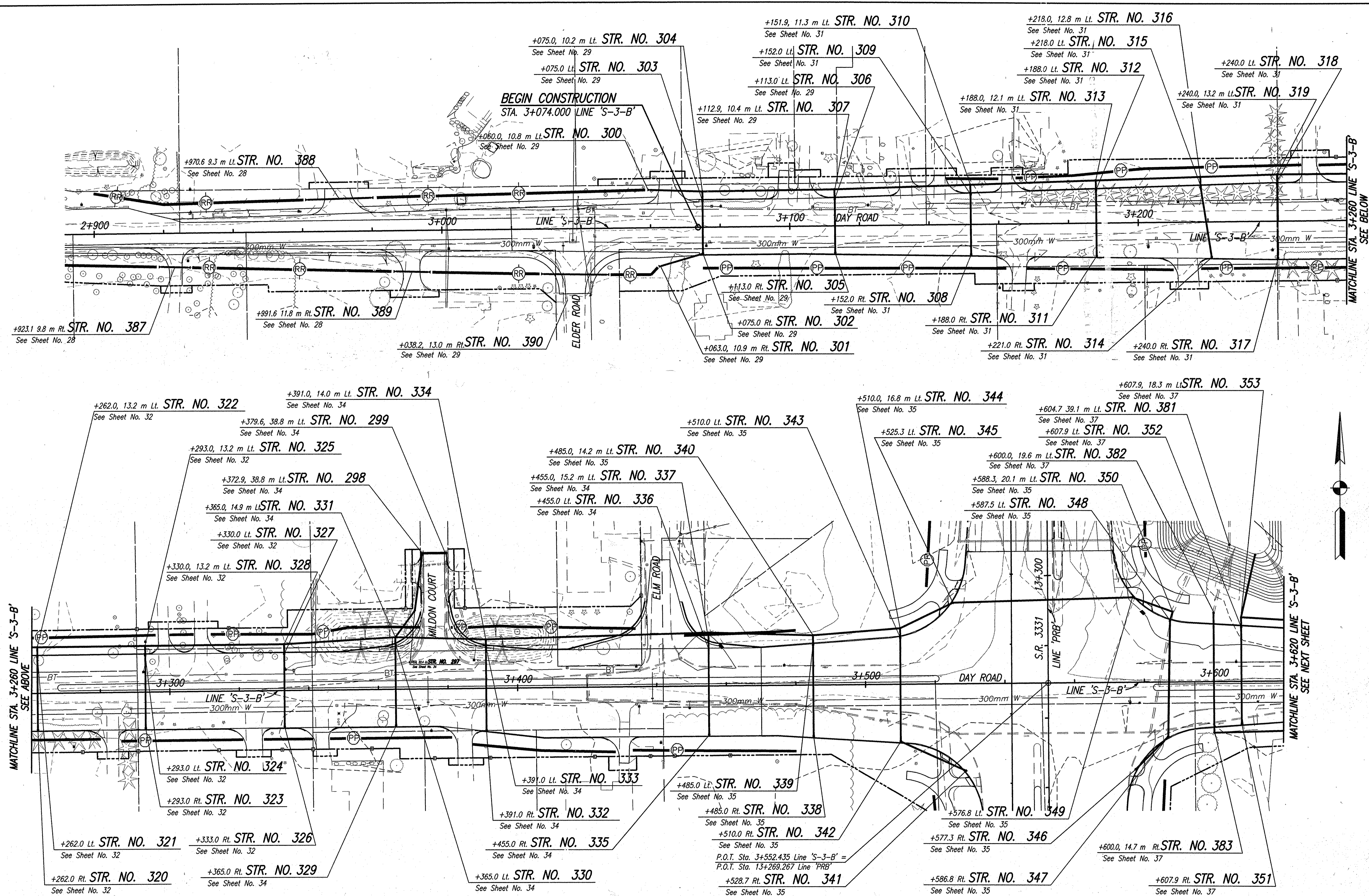
RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/28/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLAN
 LINE 'PRB'**

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	51 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



LEGEND
 PP - Temporary Erosion Control, Perimeter Protection (Silt Fence)
 (See Standard Drawing 205-TECP-01)
 RR - Temporary Check Dam, Revetment Riprap
 (See Standard Drawing 205-TECD-01)

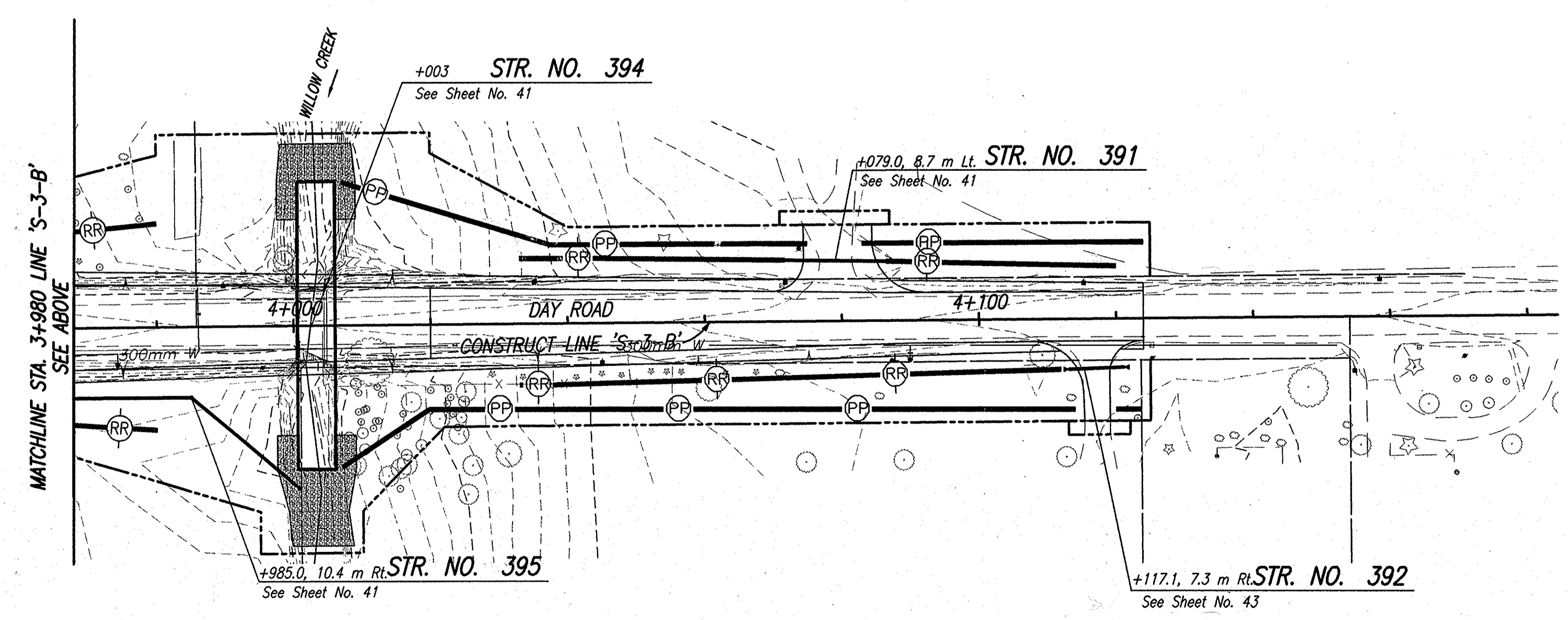
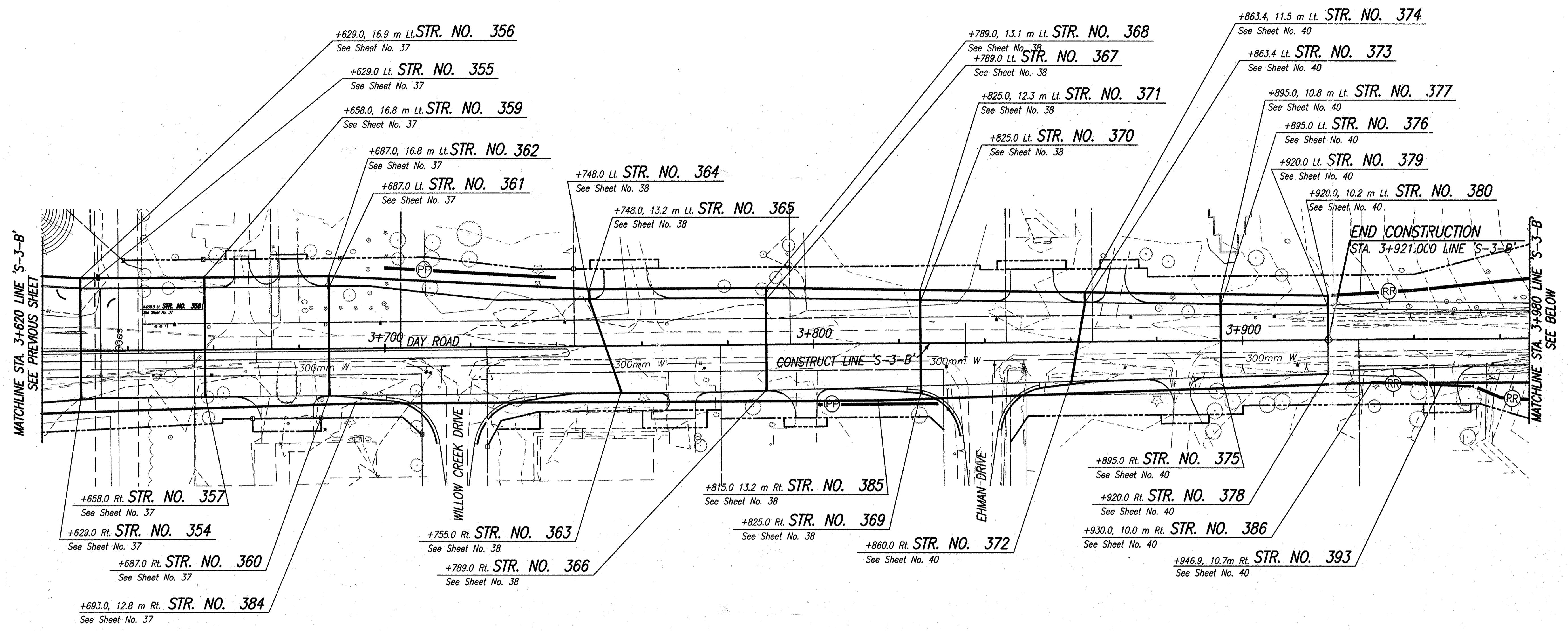
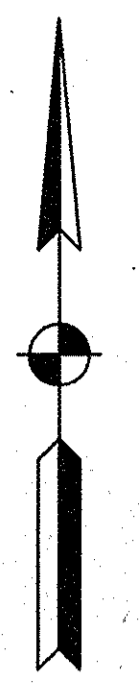


RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
EROSION CONTROL PLAN
LINE 'S-3-B'

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	52 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

Date: Feb 28, 2006, 9:32am User ID: thill
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Date: Feb 28, 2006, 9:32am User ID: ihill
 File: M:\p05\0161\2218\civil\deg\S-Line Set\Day Road Set - Roadway\2218ac13.dwg Model Tab: xerox-24x36

- LEGEND**
- Temporary Erosion Control, Perimeter Protection (Silt Fence)
(See Standard Drawing 205-TECP-01)
 - Temporary Check Dam, Revetment Riprap
(See Standard Drawing 205-TECD-01)



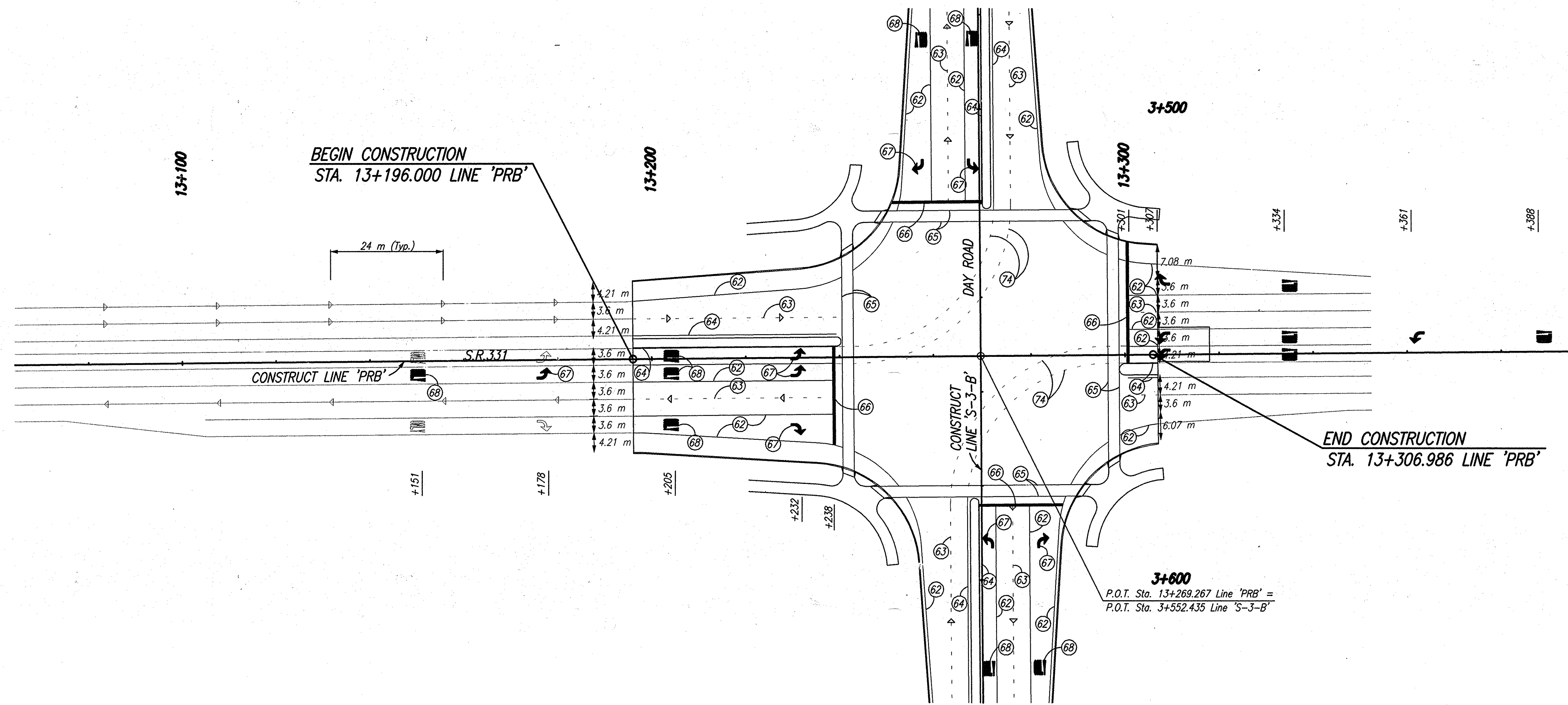
RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLAN
 LINE 'S-3-B'**

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	53 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)



LEGEND

- ⑥2 Line, Epoxy, Solid, White, 100 mm
- ⑥3 Line, Epoxy, Broken, White, 100 mm
- ⑥4 Line, Epoxy, Solid, Yellow, 100 mm
- ⑥5 Transverse Marking, Preformed Plastic, Solid, White, 150 mm
- ⑥7 Pavement Message Marking, Preformed Plastic, Lane Indication Arrow
- ⑥8 Pavement Message Marking, Preformed Plastic, "ONLY"
- ⑦4 Line, Epoxy, Broken, White, 100 mm (600 mm Line Segment, 1200 mm Cap)
- ◁ Snowplowable, Raised Pavement Marker, One Way, White

NOTES:

1. For Pavement Marking Plan On Line 'S-3-B', See Sheet No. 55 And 56.

CAD FILE: M:\PROJ\0181\2118\CIVIL\DWG\S-LINE SET\DAY ROAD SET - ROADWAY\2118PW06.DWG
 ENGINEERED BY: ERW
 DATE: 08/21/05 - 15:56:47



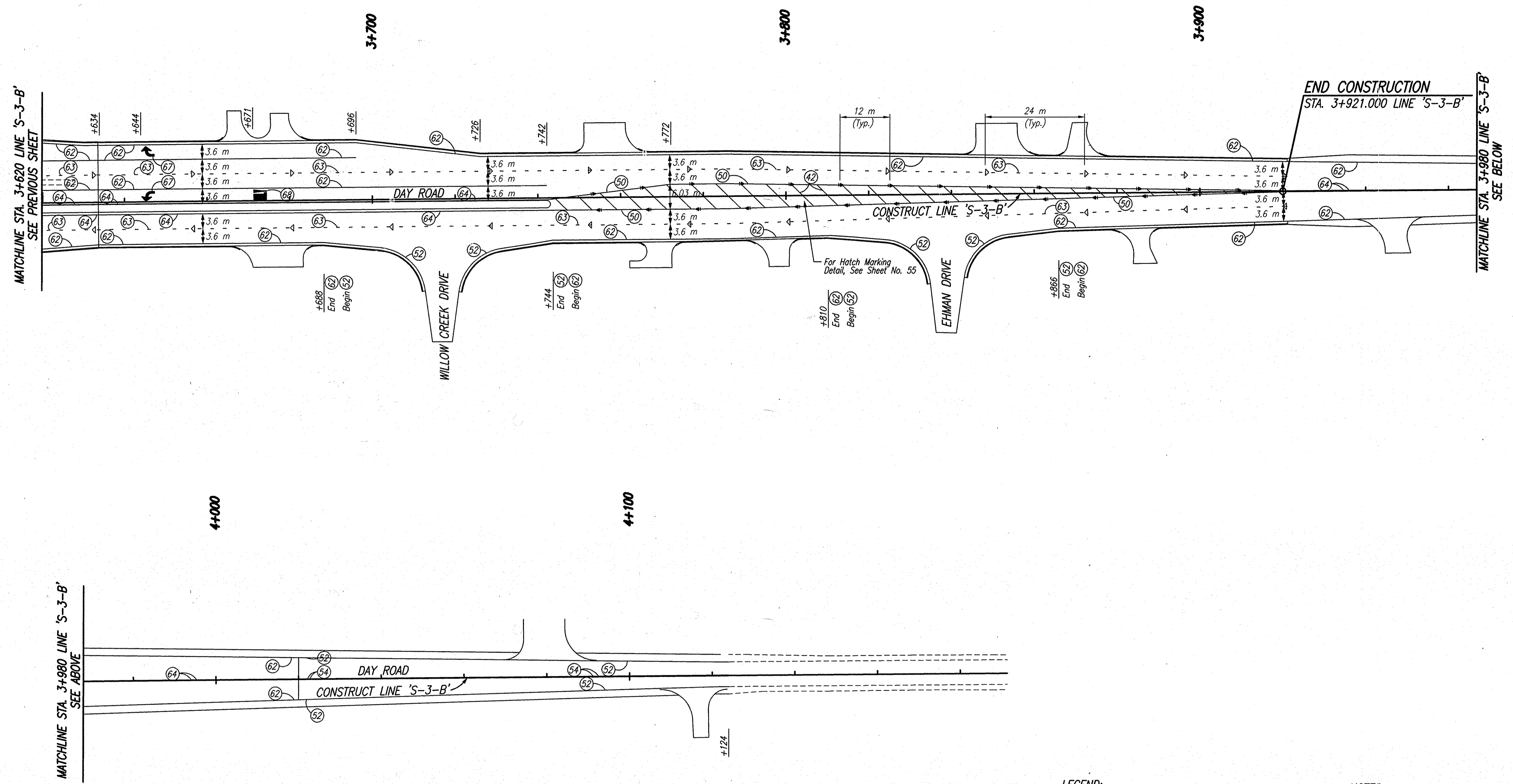
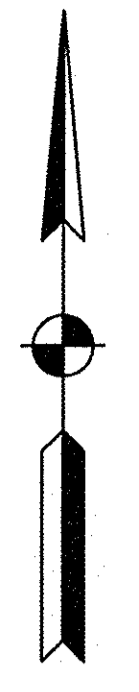
RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING PLAN
 LINE 'PRB'**

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
ELECTRONIC	54 of 93
CONTRACT	PROJECT
R-28625	NH-750(003)



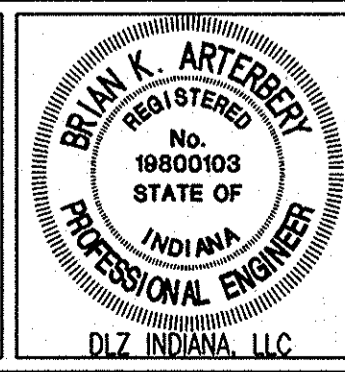
Date: Mar 27, 2006, 11:30am User ID: thill
 File: M:\proj\0161\2218\ch\dwg\S-Line Set\Day Road Set - Roadway\2218pm13.DWG Model Tab: xerox-24x36

LEGEND:

- (42) Line, Epoxy, Solid, Yellow, 300 mm
- (50) Line, Epoxy, Solid, Yellow, 200 mm
- (52) Line, Thermoplastic, Solid, White, 100 mm
- (54) Line, Thermoplastic, Solid, Yellow, 100 mm
- (62) Line, Epoxy, Solid, White, 100 mm
- (63) Line, Epoxy, Broken, White, 100 mm
- (64) Line, Epoxy, Solid, Yellow, 100 mm
- (67) Pavement Message Marking, Preformed Plastic, Lane Indication Arrow
- (68) Pavement Message Marking, Preformed Plastic, "ONLY"
- ▷ Snowplowable, Raised Pavement Marker, One Way, White
- ◀ Snowplowable, Raised Pavement Marker, Two Way, Yellow

NOTES:

1. All Thermoplastic Edge Lines Must Be Broken To Provide A Spacing Of 2.4 m Of Line With A 0.3 m Break.



RECOMMENDED FOR APPROVAL	<i>B. K. Arterbery</i>	3/27/06	DATE
DESIGNED:	ERW	DRAWN:	TH
CHECKED:	BKA	CHECKED:	ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
LINE 'S-3-B'

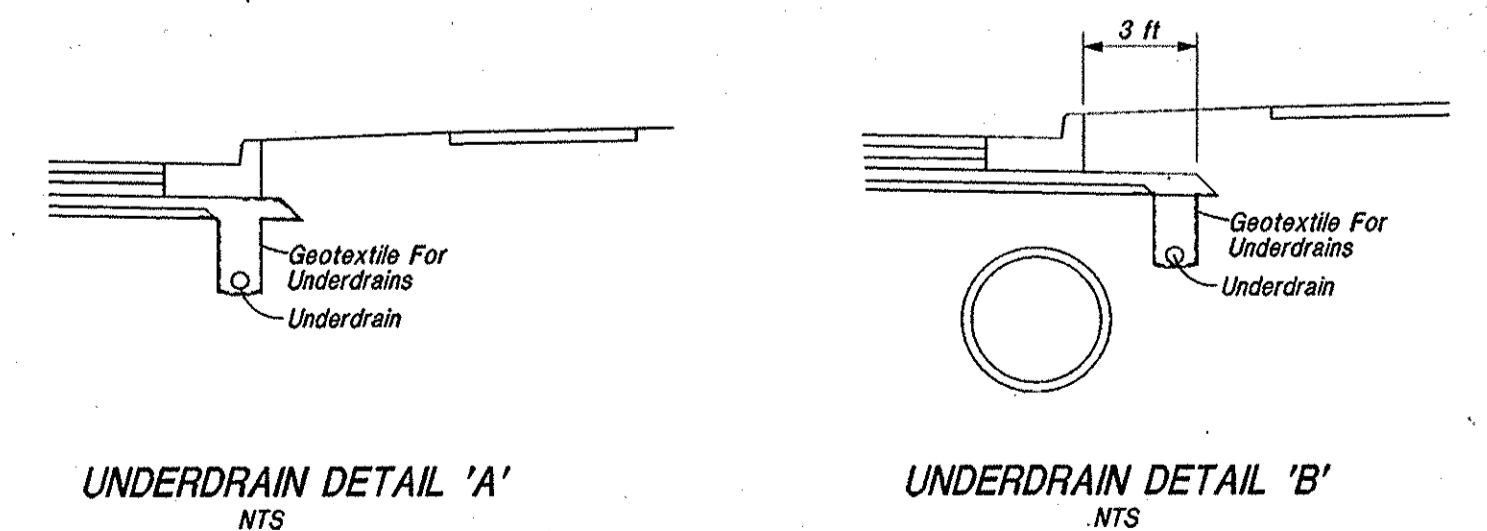
HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	56 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

UNDERDRAIN TABLE

LONGITUDINAL DRAINS										OUTLET PIPES										REMARKS
STATION	100 mm TYPE 4 PIPE	150 mm TYPE 4 PIPE	200 mm TYPE 4 PIPE	AGGREGATE FOR UNDERDRAINS	GEOTEXTILE FOR UNDERDRAINS	AT STATION	45° ELLS	WYES	100 mm PVC PIPE	150 mm PVC PIPE	STRUCTURE BACKFILL	OUTLET PROTECTOR TYPE B	DELINEATOR POST	SODDING	UNDERDRAIN DETAIL	CONNECT TO STRUCTURE NO.				
LT RT	LINE 'S-3-C'	m	m	m	m ³	m ²	EACH	EACH	m	m	m ³	EACH	EACH	m ²						
X		3+075.0																		
X		3+113.0	38		9	126				0.5					A	306				
X		3+075.0	38		9	126				0.5					A	305				
X		3+113.0																		
X		3+152.0	39		9	129				0.5					A	309				
X		3+152.0																		
X		3+113.0	39		9	129				0.5					A	308				
X		3+152.0																		
X		3+152.0	36		9	119				0.5					A	312				
X		3+188.0																		
X		3+152.0	36		9	119				0.5					A	311				
X		3+188.0																		
X		3+218.0	30		7	99				0.5					A	315				
X		3+218.0																		
X		3+188.0	33		8	109				0.5					A	314				
X		3+221.0																		
X		3+218.0	23		6	76				0.5					A	318	Special Profile, See Sheet 33			
X		3+240.6																		
X		3+221.0	20		5	66				0.5					A	317	Special Profile, See Sheet 33			
X		3+240.6																		
X		3+240.6	22		5	73				0.5					A	318	Special Profile, See Sheet 33			
X		3+262.0																		
X		3+240.6	22		5	73				0.5					A	317	Special Profile, See Sheet 33			
X		3+262.0																		
X		3+262.0	31		8	103				0.5					A	321				
X		3+293.0																		
X		3+262.0	31		8	103				0.5					A	320				
X		3+293.0																		
X		3+262.0	103		24	340	2			8.1					A	321	Center Curb, Lt.			
X		3+365.0																		
X		3+262.0	103		24	340	2			11.1					A	320	Center Curb, Rt.			
X		3+365.0																		
X		3+293.0	40		10	132				0.5					A	324				
X		3+333.0																		
X		3+293.0	40		10	132				0.5					A	323				
X		3+333.0																		
X		3+333.0	32		8	106				0.5					A	327				
X		3+365.0																		
X		3+333.0	32		8	106				0.5					A	326				
X		3+365.0																		
X		3+365.0	64		15	212	2			10.3					A	330	Center Curb, Lt. Special Profile, See Sheet 36			
X		3+428.7																		
X		3+365.0	64		15	212	2			11.1					A	329	Center Curb, Rt. Special Profile, See Sheet 36			
X		3+428.7																		
X		3+365.0	26		6	86				0.5					A	330				
X		3+391.0																		
X		3+365.0	26		6	86				0.5					A	329				
X		3+391.0																		
TOTAL THIS SIDE			988		232	3202	8			51										

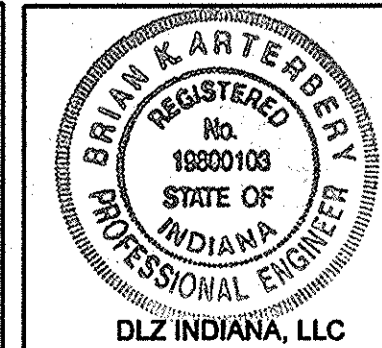
LONGITUDINAL DRAINS										OUTLET PIPES										REMARKS
STATION	100 mm TYPE 4 PIPE	150 mm TYPE 4 PIPE	200 mm TYPE 4 PIPE	AGGREGATE FOR UNDERDRAINS	GEOTEXTILE FOR UNDERDRAINS	AT STATION	45° ELLS	WYES	100 mm PVC PIPE	150 mm PVC PIPE	200 mm PVC PIPE	STRUCTURE BACKFILL	OUTLET PROTECTOR TYPE B	DELINEATOR POST	SODDING	UNDERDRAIN DETAIL	CONNECT TO STRUCTURE NO.			
LT RT	LINE 'S-3-B'	m	m	m	m ³	m ²	EACH	EACH	m	m	m	m ³	EACH	EACH	m ²					
X		3+391.0																		
X		3+428.7	38		9	152				0.5						A	333	Special Profile, See Sheet 36		
X		3+391.0																		
X		3+428.7	38		9	152				0.5						A	332	Special Profile, See Sheet 36		
X		3+428.7																		
X		3+455.0	27		7	108				0.5						A	336	Special Profile, See Sheet 36		
X		3+455.0																		
X		3+428.7	27		7	108				0.5						A	335	Special Profile, See Sheet 36		
X		3+455.0																		
X		3+428.7	93		22	372	2			20.7						A	345	Center Curb, Lt.		
X		3+521.0																		
X		3+428.7	93		22	372	2			25.7						A	341	Center Curb, Rt.		
X		3+521.0																		
X		3+455.0	30		7	120				0.5						A	339			
X		3+485.0																		
X		3+455.0	30		7	120				0.5						A	338			
X		3+485.0																		
X		3+485.0	25		6	100				0.5						A	343			
X		3+510.0																		
X		3+485.0	25		6	100				0.5						A	342			
X		3+510.0																		
X		3+510.0	16		4	64				0.5						A	345			
X		3+525.3																		
X		3+510.0	19		5	76				0.5						A	341			
X		3+525.3																		
X		3+529.4	5		2	20				0.5						A	345			
X		3+571.3																		
X		3+576.8	6		2	24				0.5						A	349			
X		3+576.8																		
X		3+576.8	11		3	44				0.5						A	348			
X		3+587.0																		
X		3+577.3	10		3	40				0.5						A	347			
X		3+586.8																		
X		3+583.0	25		6	100	2			16.2						A	352	Center Curb, Lt. Special Profile, See Sheet 39		
X		3+607.9																		
X		3+583.0	25		6	100	2			9.8						A	351	Center Curb, Rt. Special Profile, See Sheet 39		
X		3+607.9																		
X		3+587.0	21		5	84				0.5						A	352	Special Profile, See Sheet 39		
X		3+607.9																		
X		3+586.8	22		5	88				0.5						A	351	Special Profile, See Sheet 39		
X		3+607.9																		
TOTAL THIS SIDE			586		143	2344	8			81										
TOTAL THIS SHEET			1554		375	5546	16			132										

FOR UNDERDRAIN DETAIL, SEE SHEET NO. 3



UNDERDRAIN DETAIL 'A'
NTS

UNDERDRAIN DETAIL 'B'
NTS



RECOMMENDED FOR APPROVAL
B. K. Artz 2/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW
 CHECKED: BKA

DRAWN: TH
 CHECKED: ERW

INDIANA
DEPARTMENT OF TRANSPORTATION

UNDERDRAIN TABLE

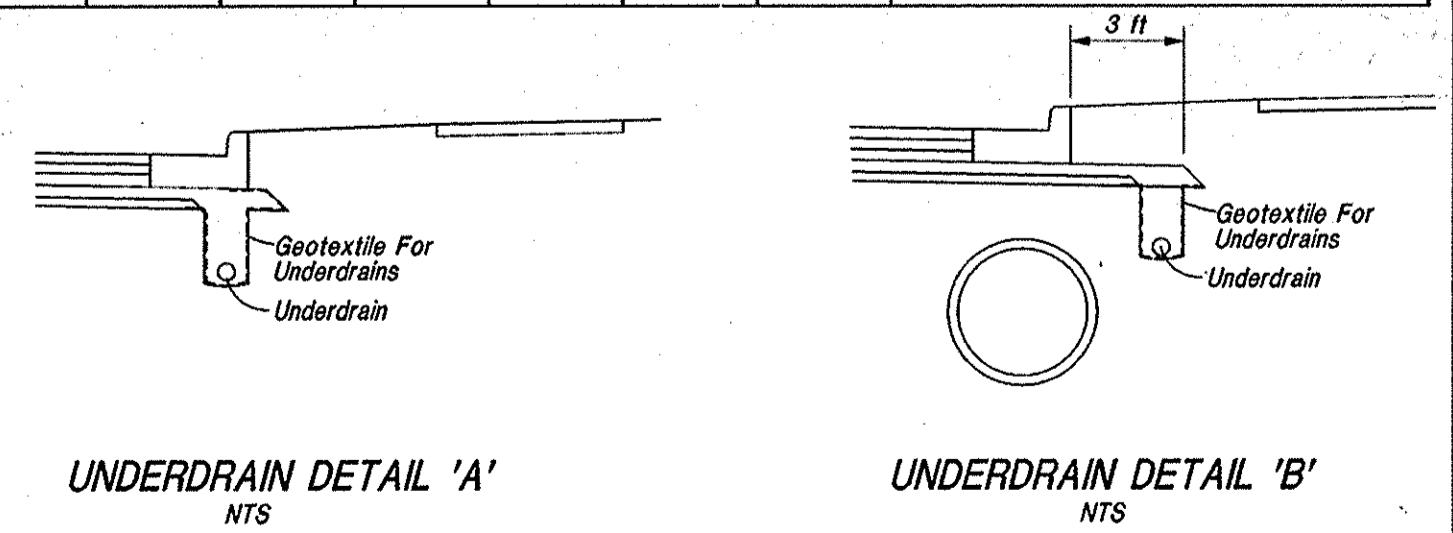
HORIZONTAL SCALE N/A	ROAD FILE
VERTICAL SCALE	DESIGNATION 0300280
SURVEY BOOK	SHEETS
ELECTRONIC CONTRACT	60 OF 93
R-28625	PROJECT
	STP-5171(018)

UNDERDRAIN TABLE

LONGITUDINAL DRAINS										OUTLET PIPES										REMARKS
STATION	100 mm TYPE 4 PIPE	150 mm TYPE 4 PIPE	200 mm TYPE 4 PIPE	AGGREGATE FOR UNDERDRAINS	GEOTEXTILE FOR UNDERDRAINS	AT STATION	45° ELLS	WYES	100 mm PVC PIPE	150 mm PVC PIPE	STRUCTURE BACKFILL	OUTLET PROTECTOR TYPE B	DELINEATOR POST	SODDING	UNDERDRAIN DETAIL	CONNECT TO STRUCTURE NO.				
LT RT	LINE 'S-3-C'	m	m	m	m ³	m ²	EACH	EACH	m	m	m ³	EACH	EACH	m ²						
X		3+607.9																		
X		3+629.0	22		5	73				0.5					A	352	Special Profile, See Sheet 39			
X		3+607.9	22		5	73				0.5					A	351	Special Profile, See Sheet 39			
X		3+607.9	105		24	347	2			16.2					A	352	Center Curb, Lt. Special Profile, See Sheet 39			
X		3+607.9	105		24	347	2			9.8					A	351	Center Curb, Rt. Special Profile, See Sheet 39			
X		3+629.0	29		7	96				0.5					A	355				
X		3+629.0	29		7	96				0.5					A	354				
X		3+658.0	29		7	96				0.5					A	358				
X		3+658.0	29		7	96				0.5					A	357				
X		3+687.0	26		6	86				0.5					A	361	Special Profile, See Sheet 39			
X		3+687.0	26		6	86				0.5					A	360	Special Profile, See Sheet 39			
X		3+712.1	36		9	119				0.5					A	364	Special Profile, See Sheet 39			
X		3+712.1	43		10	142				0.5					A	363	Special Profile, See Sheet 39			
X		3+712.1	36		9	119	2			0.5					A	364	Center Curb, Lt. Special Profile, See Sheet 39			
X		3+712.1	43		10	142	2			0.5					A	363	Center Curb, Rt. Special Profile, See Sheet 39			
X		3+748.0	41		10	136				0.5					A	367				
X		3+755.0	34		8	113				0.5					A	366				
X		3+789.0	36		9	119				0.5					A	370				
X		3+789.0	36		9	119				0.5					A	369				
X		3+825.0	39		9	129				0.5					A	373				
X		3+825.0	35		8	116				0.5					A	372				
X		3+863.2	32		8	106				0.5					A	376				
X		3+860.0	35		8	116				0.5					A	375				
X		3+895.0	25		6	83				0.5					A	379				
X		3+895.0	25		6	83				0.5					A	378				
TOTAL THIS SIDE			918		217	3038	8			37										

LONGITUDINAL DRAINS										OUTLET PIPES										REMARKS
STATION	100 mm TYPE 4 PIPE	150 mm TYPE 4 PIPE	200 mm TYPE 4 PIPE	AGGREGATE FOR UNDERDRAINS	GEOTEXTILE FOR UNDERDRAINS	AT STATION	45° ELLS	WYES	100 mm PVC PIPE	150 mm PVC PIPE	STRUCTURE BACKFILL	OUTLET PROTECTOR TYPE B	DELINEATOR POST	SODDING	UNDERDRAIN DETAIL	CONNECT TO STRUCTURE NO.				
LT RT	LINE 'PRB'	m	m	m	m ³	m ²	EACH	EACH	m	m	m ³	EACH	EACH	m ²						
X		13+196.0																		
X		13+220.0	24		6	96				0.5					A	756	Special Profile, See Sheet 46			
X		13+196.0	24		6	96				0.5					A	757	Center Curb, Lt. Special Profile, See Sheet 46			
X		13+196.0	24		6	96				0.5					A	758	Center Curb, Rt. Special Profile, See Sheet 46			
X		13+196.0	24		6	96				0.5					A	759	Special Profile, See Sheet 46			
X		13+220.0	25		6	100				0.5					A	756				
X		13+220.0	25		6	100				0.5					A	759				
TOTAL THIS SIDE			146		36	584				3										
TOTAL THIS SHEET			1064		253	3622				8										
TOTAL, SHEET 60			1554		375	5546				16										
TOTAL, ALL SHEETS			2618		628	9168				24										

FOR UNDERDRAIN DETAIL, SEE SHEET NO. 3



		RECOMMENDED FOR APPROVAL <i>B. K. Artz</i> 2/27/06 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A VERTICAL SCALE DESIGNATION 0300260
		DESIGNED: ERW CHECKED: BKA	DRAWN: TH CHECKED: ERW	UNDERDRAIN TABLE	SURVEY BOOK ELECTRONIC CONTRACT R-28625

ROAD FILE	SHEETS
DESIGNATION 0300260	61 OF 93
PROJECT	STP-5171(018)

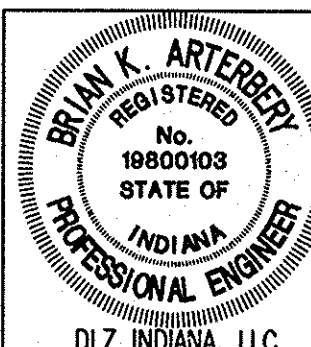
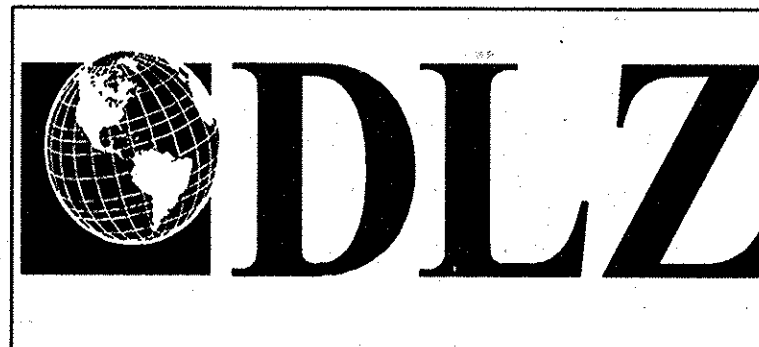
PIPE MATERIAL SHEET

		STRUCTURE NUMBER																					
		387	388	389	390	300	301	302	303	304	307	305	306	308	309	310	311	312	313	315	316	314	317
PIPE TYPE / SHAPE		3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SMOOTH PIPE SIZE (MM)		375.0	375.0	375.0	375.0	450.0	450.0	450.0	450.0	600.0	600.0	300.0	300.0	300.0	300.0	600.0	300.0	300.0	600.0	600.0	300.0	600.0	300.0
CORRUGATED PIPE SIZE (MM)		375.0	375.0	375.0	375.0																		
RCP / RCHEP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	III	II	III	II	II	III	II	II	II	II	III	II
	U _{0.3} RATING	60.0	60.0	60.0	60.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	50.0	75.0	50.0	50.0	75.0	50.0	50.0	50.0	50.0	75.0	50.0
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																							
CORRUGATED PE PIPE, TYPE S (S) *																							
RIBBED PE PIPE (S) *																							
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR										26.00	26.00		26.00		26.00	26.00		26.00	26.00	26.00	26.00	26.00	
PROFILE WALL PVC PIPE (S)																							
SMOOTH WALL PVC PIPE (S) *																							
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																							
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)					68x13	68x13	68x13	68x13	68x13	68x13					68x13				68x13		68x13	
						2.77	2.77	2.77	2.77	2.77	2.77					2.77				2.77		2.77	
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)																						
CORRUGATED STEEL PIPE / PIPE-ARCH	ZINC COATED W/ BPI (C)	68x13	68x13	68x13	68x13																		
		2.77	2.77	2.77	2.77																		
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 (C)	68x13	68x13	68x13	68x13																		
		2.77	2.77	2.77	2.77																		
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 W/ BPI (C)																						
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED (C)	68x13	68x13	68x13	68x13																		
		2.77	2.77	2.77	2.77																		
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)																						
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED (C)	68x13	68x13	68x13	68x13																		
		2.77	2.77	2.77	2.77																		
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)																						
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE (C)	68x13	68x13	68x13	68x13																		
		1.52	1.52	1.52	1.52																		
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																						
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE (C)																						
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																						
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE (C)																						
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE W/ CFP (C)																						

		STRUCTURE NUMBER																	
		318	319	320	321	322	323	324	325	326	327	328	329	330	331	297	298	299	332
PIPE TYPE / SHAPE		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SMOOTH PIPE SIZE (MM)		300.0	600.0	300.0	300.0	750.0	300.0	750.0	750.0	300.0	300.0	750.0	300.0	300.0	750.0	300.0	300.0	300.0	300.0
CORRUGATED PIPE SIZE																			
RCP / RCHEP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
	U _{0.3} RATING	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	60.0	50.0	50.0	50.0
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																			
CORRUGATED PE PIPE, TYPE S (S) *																			
RIBBED PE PIPE (S) *																			
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR		26.00	26.00		26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00
PROFILE WALL PVC PIPE (S)																			
SMOOTH WALL PVC PIPE (S) *																			
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																			
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)		68x13			68x13			68x13			68x13			68x13				
			2.77			2.77			2.77			2.77			2.77				
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	ZINC COATED W/ BPI (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 W/ BPI (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE (C)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE W/ CFP (C)																		

- LEGEND**
- RCP- REINFORCED CONCRETE PIPE
 - RCHEP- REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
 - PE- POLYETHYLENE
 - DR- DIMENSION RATION
 - PVC- POLYVINYL CHLORIDE
 - BIT- BITUMINOUS
 - CORR- CORRUGATION
 - BPI- BITUMINOUS PAVED INVERT
 - ALUM- ALUMINUM
 - STR- STRUCTURAL
 - CFP- CONCRETE FIELD PAVING
 - CIR- CIRCULAR PIPE
 - DEF- DEFORMED PIPE
 - (S)- SMOOTH PIPE MATERIAL
 - (C)- CORRUGATED PIPE MATERIAL
 - OK- ACCEPTABLE FOR USE
 - (LS)- LOCK SEAM PIPE REQUIRED
 - *- REFER TO STANDARD DRAWING 715-PHCL-18 OR 19 FOR NOMINAL DIAMETER APPROPRIATE FOR PAY ITEM DIAMETER
 - **- TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.

Date: Feb. 28, 2005, 9:39am User: D. Hill File: M:\909\0161\221\BPI01.dwg Road Sat - Roadway\221\BPI01.dwg Model Tab: xrow-24x36



RECOMMENDED FOR APPROVAL *Brian K. Arterberry* 2/27/05
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION

**PIPE MATERIAL SHEET
 LINE 'PRB'**

HORIZONTAL SCALE	ROAD FILE
N/A	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	64 of 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

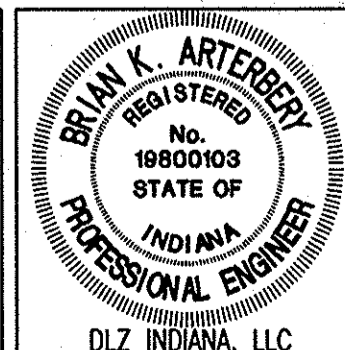
PIPE MATERIAL SHEET

		STRUCTURE NUMBER																					
		333	334	335	336	337	338	339	340	342	343	344	345	341	349	346	347	348	382	383	351	352	353
PIPE TYPE/ SHAPE		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SMOOTH PIPE SIZE (MM)		300.0	750.0	300.0	300.0	750.0	300.0	300.0	750.0	300.0	300.0	750.0	750.0	300.0	750.0	300.0	300.0	300.0	450.0	450.0	300.0	300.0	600.0
CORRUGATED PIPE SIZE (MM)																							
RCP/ RCHP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
	U _{0.3} RATING	60.0	50.0	50.0	60.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CORRUGATED PE PIPE, TYPE S (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
RIBBED PE PIPE (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR		26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00
PROFILE WALL PVC PIPE (S)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SMOOTH WALL PVC PIPE (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CORRUGATED STEEL PIPE/ PIPE-ARCH	FULLY BIT. PAVED & LINED (S)		68x13			68x13			68x13			68x13	68x13		68x13			68x13	68x13			68x13	68x13
	THICKNESS (MM)		2.77			2.77			2.77			2.77	2.77		2.77			2.77	2.77			2.77	2.77
CORRUGATED STEEL PIPE/ PIPE-ARCH	FULLY BIT. PAVED & LINED (S)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	ZINC COATED W/ BPI (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	ALUM. COATED TYPE 2 (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	ALUM. COATED TYPE 2 W/ BPI (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	POLYMER PRECOATED GALVANIZED (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	FIBER BONDED BITUMINOUS COATED (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE STEEL PIPE (C)																						
	THICKNESS ** (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE STEEL PIPE W/ CFP (C)																						
	THICKNESS ** (MM)																						

		STRUCTURE NUMBER																					
		354	355	356	357	358	359	360	361	362	384	363	364	365	366	367	368	385					
PIPE TYPE/ SHAPE		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
SMOOTH PIPE SIZE (MM)		300.0	300.0	450.0	300.0	300.0	450.0	300.0	300.0	450.0	450.0	300.0	300.0	450.0	300.0	300.0	450.0	450.0					
CORRUGATED PIPE SIZE (MM)																							
RCP/ RCHP (S)	CLASS	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II					
	U _{0.3} RATING	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	60.0	50.0	60.0	50.0	50.0	50.0	50.0	50.0					
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CORRUGATED PE PIPE, TYPE S (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
RIBBED PE PIPE (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR		26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00					
PROFILE WALL PVC PIPE (S)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SMOOTH WALL PVC PIPE (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CORRUGATED STEEL PIPE/ PIPE-ARCH	FULLY BIT. PAVED & LINED (S)			68x13				68x13			68x13	68x13			68x13			68x13	68x13				
	THICKNESS (MM)			2.77				2.77			2.77	2.77			2.77			2.77	2.77				
CORRUGATED STEEL PIPE/ PIPE-ARCH	FULLY BIT. PAVED & LINED (S)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	ZINC COATED W/ BPI (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	ALUM. COATED TYPE 2 (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	ALUM. COATED TYPE 2 W/ BPI (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	POLYMER PRECOATED GALVANIZED (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	FIBER BONDED BITUMINOUS COATED (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																						
	THICKNESS (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE STEEL PIPE (C)																						
	THICKNESS ** (MM)																						
CORRUGATED STEEL PIPE/ PIPE-ARCH	STR. PLATE STEEL PIPE W/ CFP (C)																						
	THICKNESS ** (MM)																						

- LEGEND**
- RCP- REINFORCED CONCRETE PIPE
 - RCHP- REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
 - PE- POLYETHYLENE
 - DR- DIMENSION RATION
 - PVC- POLYVINYL CHLORIDE
 - BIT- BITUMINOUS
 - CORR- CORRUGATION
 - BPI- BITUMINOUS PAVED INVERT
 - ALUM- ALUMINUM
 - STR- STRUCTURAL
 - CFP- CONCRETE FIELD PAVING
 - CIR- CIRCULAR PIPE
 - DEF- DEFORMED PIPE
 - (S)- SMOOTH PIPE MATERIAL
 - (C)- CORRUGATED PIPE MATERIAL
 - OK- ACCEPTABLE FOR USE
 - (LS)- LOCK SEAM PIPE REQUIRED
 - *- REFER TO STANDARD DRAWING 715-PICL-18 OR 19 FOR NOMINAL DIAMETER APPROPRIATE FOR PAY ITEM DIAMETER
 - **- TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.

Date: Feb 28, 2006, 9:39am User: ID: ihll
File: M:\proj\0161\2218\civil\dwg\Line Set\Day Road Set - Roadway\2218P102.dwg Model Tab: xrow-24x-26



RECOMMENDED FOR APPROVAL *Brian K. Arterberry* DESIGN ENGINEER DATE _____
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

PIPE MATERIAL SHEET

PIPE TYPE / SHAPE SMOOTH PIPE SIZE (MM) CORRUGATED PIPE SIZE (MM)		STRUCTURE NUMBER																
		369	370	371	372	373	374	375	376	377	378	379	380	386	393	395	391	392
RCP / RCHEP (S)	CLASS D.0.3 RATING	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		50.0	50.0	50.0	50.0	50.0	50.0	60.0	50.0	50.0	75.0	50.0	50.0	50.0	60.0	50.0	60.0	60.0
CORRUGATED PE PIPE, TYPE S (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
RIBBED PE PIPE (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR		26.00	26.00	26.00	26.00	26.00	26.00		26.00	26.00		26.00	26.00					
PROFILE WALL PVC PIPE (S)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SMOOTH WALL PVC PIPE (S) *		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)			68x13									68x13		68x13			
	THICKNESS (MM)			2.77									2.77		2.77			
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	ZINC COATED W/ BPI (C)													68x13		68x13	68x13	
	THICKNESS (MM)													2.77		2.77	2.77	
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 (C)													68x13		68x13	68x13	
	THICKNESS (MM)													2.77		2.77	2.77	
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 W/ BPI (C)													68x13		68x13	68x13	
	THICKNESS (MM)													2.77		2.77	2.77	
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED (C)													68x13		68x13	68x13	
	THICKNESS (MM)													2.77		2.77	2.77	
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)													68x13		68x13	68x13	
	THICKNESS (MM)													2.77		2.77	2.77	
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED (C)													68x13		68x13	68x13	
	THICKNESS (MM)													2.77		2.77	2.77	
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)													68x13		68x13	68x13	
	THICKNESS (MM)													2.77		2.77	2.77	
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE (C)													68x13		68x13	68x13	
	THICKNESS (MM)													1.52		1.52	1.52	
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE (C)																	
	THICKNESS ** (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE W/ CFP (C)																	
	THICKNESS ** (MM)																	

PIPE TYPE / SHAPE SMOOTH PIPE SIZE (MM) CORRUGATED PIPE SIZE		STRUCTURE NUMBER																
RCP / RCHEP (S)	CLASS D.0.3 RATING																	
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																		
CORRUGATED PE PIPE, TYPE S (S) *																		
RIBBED PE PIPE (S) *																		
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR																		
PROFILE WALL PVC PIPE (S)																		
SMOOTH WALL PVC PIPE (S) *																		
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																		
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	ZINC COATED W/ BPI (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	ALUM. COATED TYPE 2 W/ BPI (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED W/ BPI (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	FIBER BONDED BITUMINOUS COATED W/ BPI (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)																	
	THICKNESS (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE (C)																	
	THICKNESS ** (MM)																	
CORRUGATED STEEL PIPE / PIPE-ARCH	STR. PLATE STEEL PIPE W/ CFP (C)																	
	THICKNESS ** (MM)																	

- LEGEND**
- RCP-- REINFORCED CONCRETE PIPE
 - RCHEP-- REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
 - PE-- POLYETHYLENE
 - DR-- DIMENSION RATION
 - PVC-- POLYVINYL CHLORIDE
 - BIT-- BITUMINOUS
 - CORR-- CORRUGATION
 - BPI-- BITUMINOUS PAVED INVERT
 - ALUM-- ALUMINUM
 - STR-- STRUCTURAL
 - CFP-- CONCRETE FIELD PAVING
 - CIR-- CIRCULAR PIPE
 - DEF-- DEFORMED PIPE
 - (S)-- SMOOTH PIPE MATERIAL
 - (C)-- CORRUGATED PIPE MATERIAL
 - OK-- ACCEPTABLE FOR USE
 - (LS)-- LOCK SEAM PIPE REQUIRED
 - *-- REFER TO STANDARD DRAWING 715-PMCI-18 OR 19 FOR NOMINAL DIAMETER APPROPRIATE FOR PAY ITEM DIAMETER
 - **-- TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.

Date: Feb 28, 2005, 9:39am User: dlz User ID: thill
File: M:\proj\0161\2218\civil\dwg\S-Line Set\Day Road Set - Roadway\2218P10.dwg Model: Job: xerox-24x36



RECOMMENDED FOR APPROVAL *Brian K. Artz* 2/27/04
DESIGN ENGINEER DATE

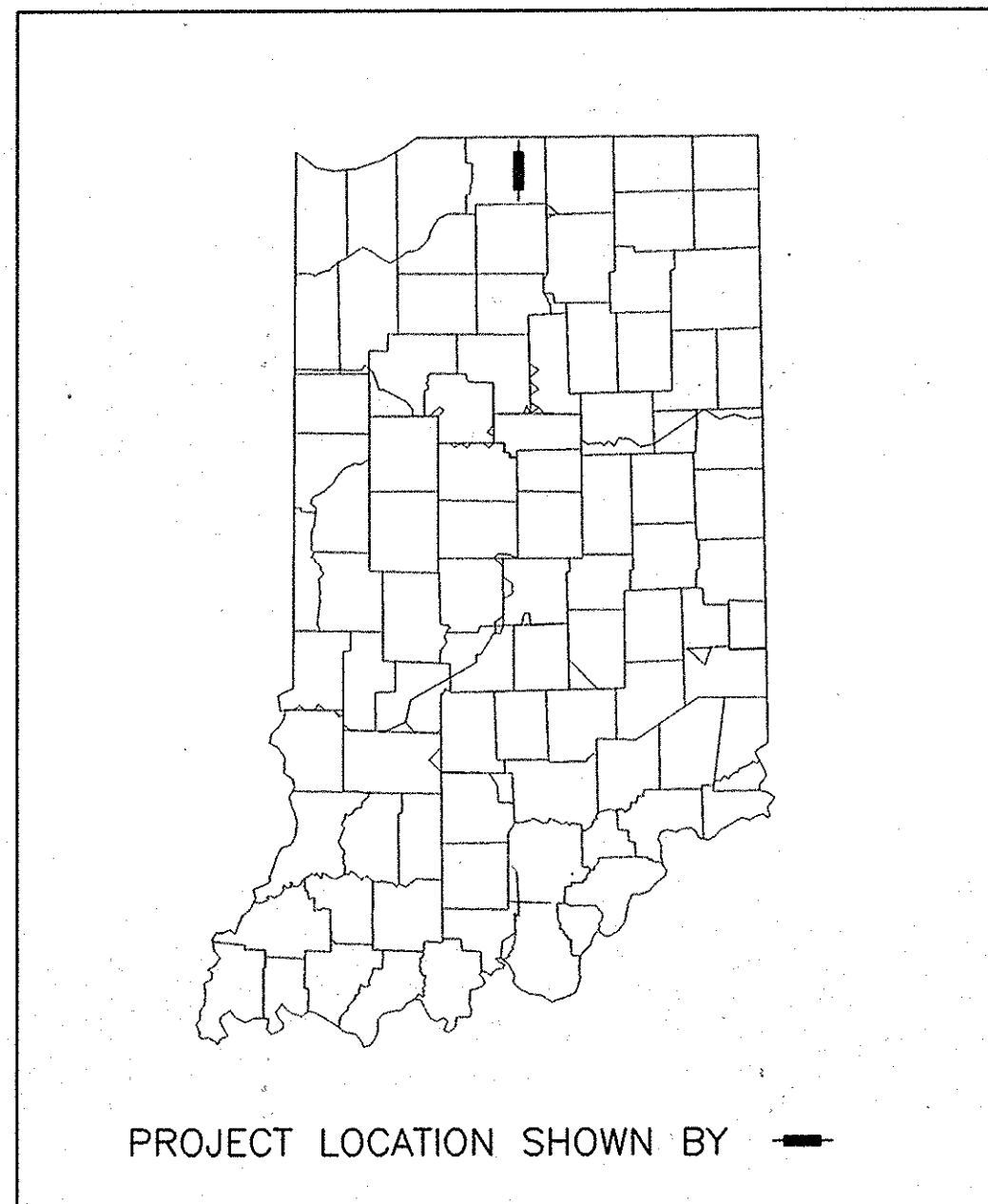
DESIGNED: ERW DRAWN: TH
CHECKED: BKA CHECKED: ERW

INDIANA
DEPARTMENT OF TRANSPORTATION

**PIPE MATERIAL SHEET
LINE 'PRB'**

HORIZONTAL SCALE	ROAD FILE
N/A	
VERTICAL SCALE	DESIGNATION
	0300260
SURVEY BOOK	SHEETS
ELECTRONIC	66 OF 93
CONTRACT	PROJECT
R-28625	STP-5171(018)

PROJECT	DESIGNATION
STP-5171(017)	0300706
CONTRACT	
R-28625	



INDIANA
DEPARTMENT OF
TRANSPORTATION

TRAFFIC SIGNS
S.R. 331

PROJECT NO. STP-5171(017)

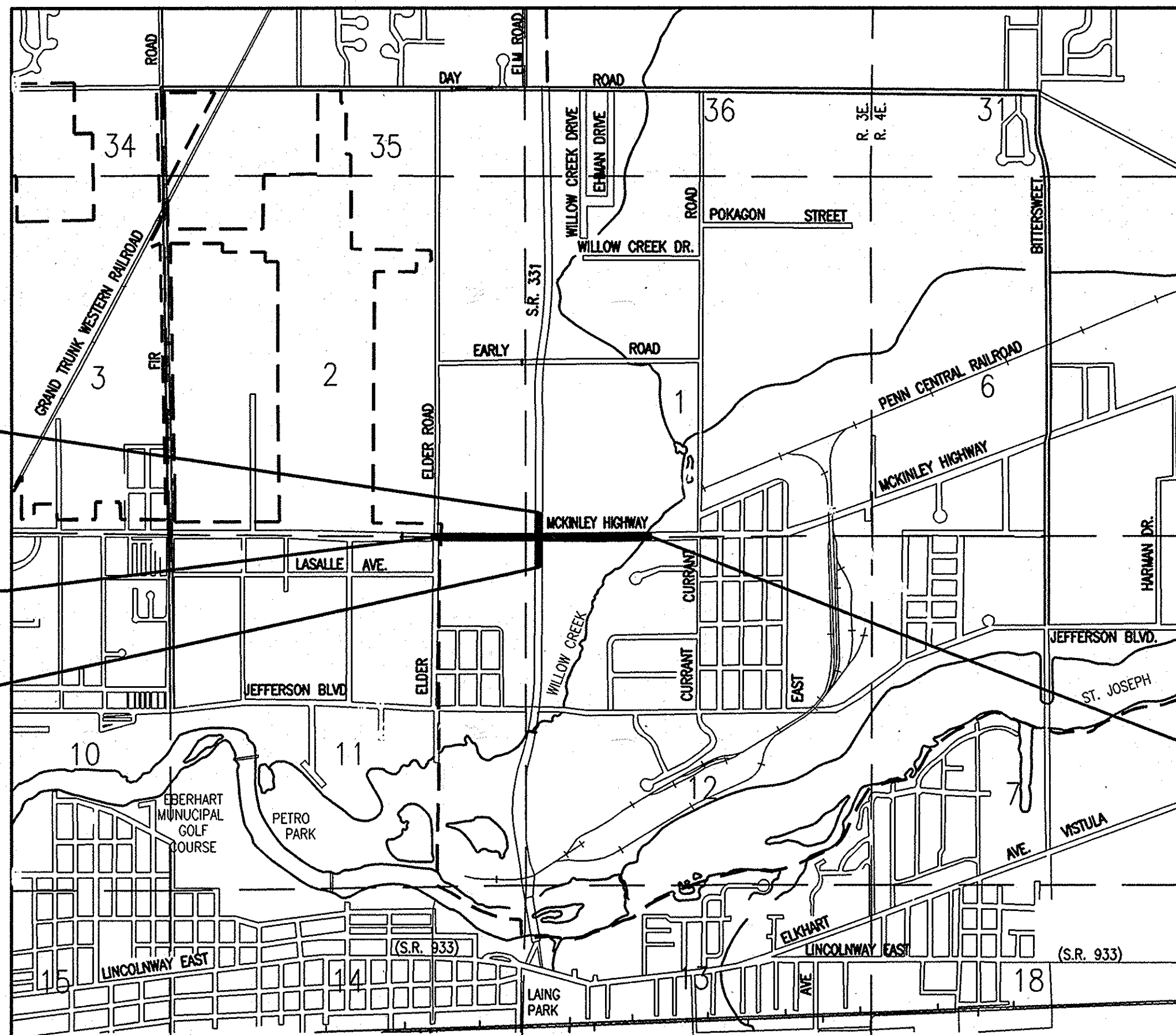
(X)P.E.
()R/W
()CONST.

NEW CONSTRUCTION ON MCKINLEY HIGHWAY FROM 530 METERS WEST OF THE INTERSECTION WITH S.R. 331 TO 600 METERS EAST OF THE INTERSECTION WITH S.R. 331,
PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

GROSS LENGTH 1.130 km
NET LENGTH 1.130 km

SCALES:

PLAN LONG: 1:200 PROFILE HORIZONTAL: 1:200 MAXIMUM GRADE = 1.240%
TRANS: 1:200 PROFILE VERTICAL: 1:50

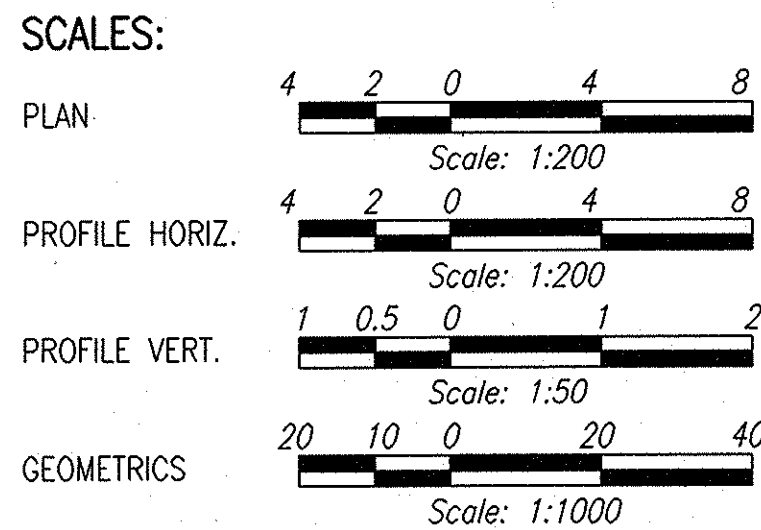


END CONSTRUCTION
STA. 11+294.000 LINE 'PRB'

BEGIN PROJECT NO. STP-5171(017)
STA. 1+185.000 LINE 'S-1-B'

BEGIN CONSTRUCTION
STA. 11+086.000 LINE 'PRB'

END PROJECT NO. STP-5171(017)
STA. 2+315.000 LINE 'S-1-B'



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

PENN TOWNSHIP
ST. JOSEPH COUNTY

SCALE: 1:20 000

Date: Feb. 20, 2006, 3:56pm User: DLZ
File: A:\proj\0171\218\Drawings\Sign\McKinley Hwy S-1-B.dwg Model Tab: Sign S-1

3 of 6

R-28625

TRAFFIC DATA		S.R. 331
A.A.D.T. (2003 PROJECTED)	27,012	V.P.D.
A.A.D.T. (2025 PROJECTED)	43,600	V.P.D.
D.H.V. (2025 PROJECTED)	4,360	V.P.H.
DIRECTIONAL DISTRIBUTION	50% NB 50% SB	
TRUCKS	5% D.H.V.	
	10% A.A.D.T.	
DESIGN DATA		
DESIGN SPEED	80	km/h
PROJECT DESIGN CRITERIA	NEW CONSTRUCTION (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL (EXPRESSWAY)	
RURAL/URBAN	URBAN (SUBURBAN)	
TERRAIN	LEVEL	
ACCESS CONTROL	FULL	

TRAFFIC DATA		McKINLEY HIGHWAY
A.A.D.T. (2003 PROJECTED)	19,826	V.P.D.
A.A.D.T. (2025 PROJECTED)	32,000	V.P.D.
D.H.V. (2025 PROJECTED)	2,560	V.P.H.
DIRECTIONAL DISTRIBUTION	50% EB/ 50% WB	
TRUCKS	4% D.H.V.	
	5% A.A.D.T.	
DESIGN DATA		
DESIGN SPEED	80	km/h
PROJECT DESIGN CRITERIA	RECONSTRUCTION (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL	
RURAL/URBAN	URBAN (SUBURBAN)	
TERRAIN	LEVEL	
ACCESS CONTROL	NONE	



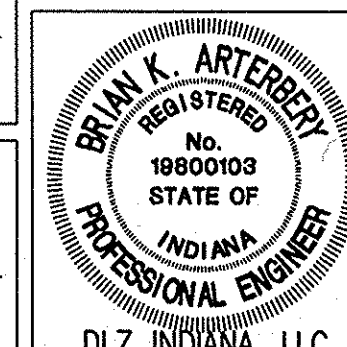
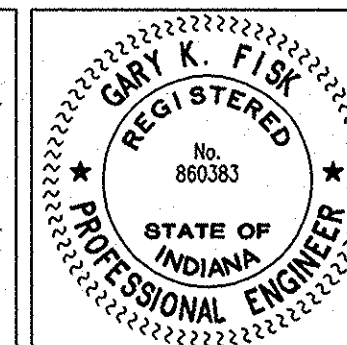
FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPT. OF TRANSPORTATION
APPROVED: _____ DATE _____
DIVISION ADMINISTRATOR

PLANS PREPARED BY: DLZ INDIANA, LLC
2211 E. JEFFERSON BLVD.
SOUTH BEND, INDIANA 46615 (574) 236 - 4400
PHONE NUMBER

CERTIFIED BY: *Greg J. Jil* 02-24-2006
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 860383 DATE

CERTIFIED BY: *Brian K. Artberg* 2/21/06
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 19800103 DATE

APPROVED FOR LETTING: *Gregory J. ...* 3/20/06
CHIEF, DIVISION OF DESIGN DATE

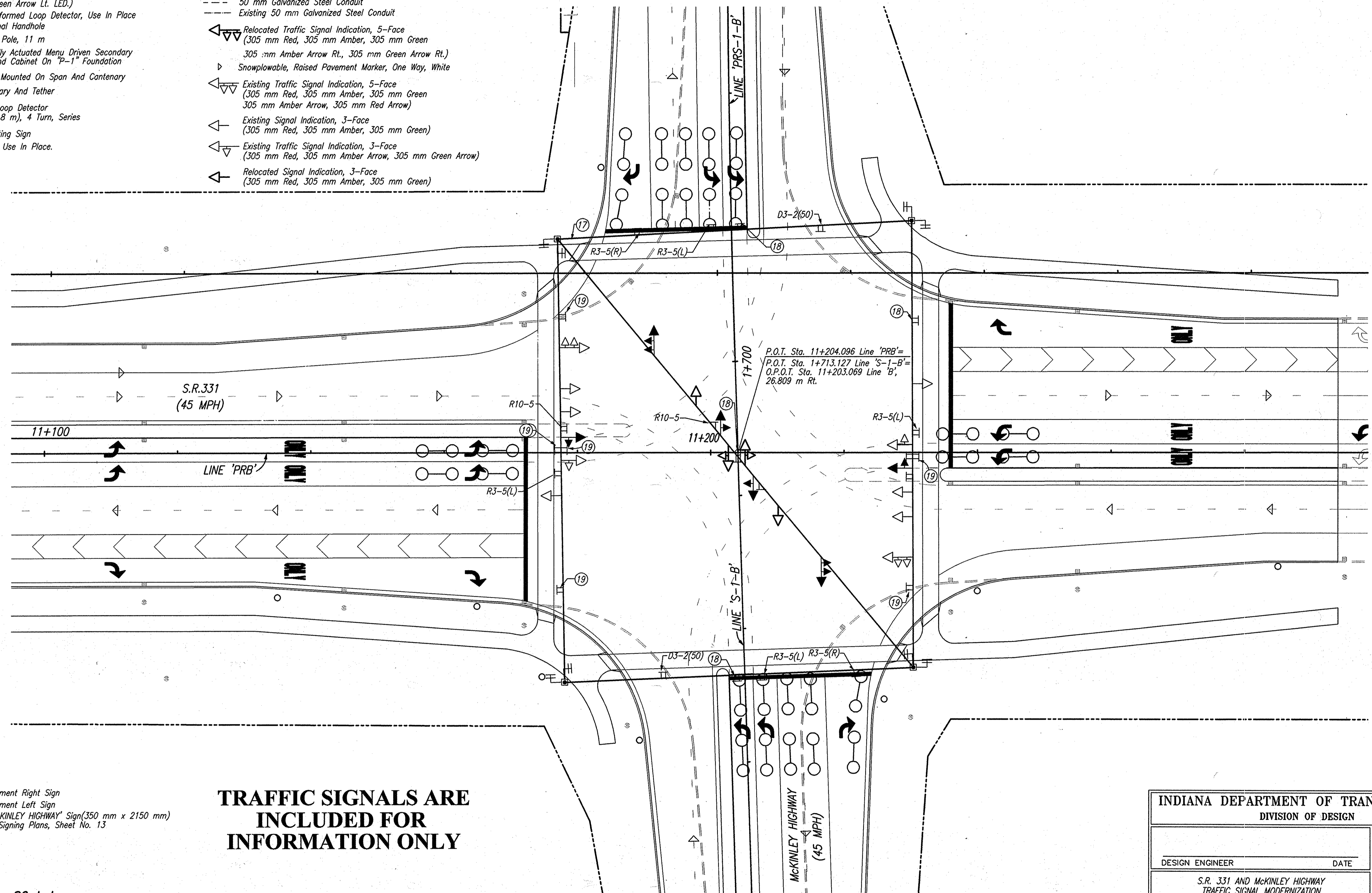


INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2006
TO BE USED WITH THESE PLANS

ROAD FILE	
DESIGNATION	0300706
SHEETS	1 of 14
PROJECT	STP-5171(017)
CONTRACT	R-28625

LEGEND

- (305 mm Red LED, 305 mm Amber LED, 305 mm Green LED, 305 mm Amber Arrow Rt. LED, 305 mm Green Arrow Rt. LED)
- Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber Arrow Lt. LED, 305 mm Green Arrow Lt. LED.)
- Existing Preformed Loop Detector, Use In Place
- Existing Signal Handhole
- Steel Strain Pole, 11 m
- 8 Phase Fully Actuated Menu Driven Secondary Controller And Cabinet On "P-1" Foundation
- Sheet Sign, Mounted On Span And Cantenary
- Span, Cantenary And Tether
- Preformed Loop Detector (1.8 m x 1.8 m), 4 Turn, Series
- (18) Relocate Existing Sign
- (19) Existing Sign. Use In Place.
- Span Mounted Junction Box
- Pedestrian Indication, International Symbol With Push Button And R10-4b Sign
- I.C. Existing Interconnect Fiber Optic Cable
- Existing Fiber Optic Interconnect Cable Handhole
- 50 mm Galvanized Steel Conduit
- Existing 50 mm Galvanized Steel Conduit
- Relocated Traffic Signal Indication, 5-Face (305 mm Red, 305 mm Amber, 305 mm Green, 305 mm Amber Arrow Rt., 305 mm Green Arrow Rt.)
- Snowplowable, Raised Pavement Marker, One Way, White
- Existing Traffic Signal Indication, 5-Face (305 mm Red, 305 mm Amber, 305 mm Green, 305 mm Amber Arrow, 305 mm Red Arrow)
- Existing Signal Indication, 3-Face (305 mm Red, 305 mm Amber, 305 mm Green)
- Existing Traffic Signal Indication, 3-Face (305 mm Red, 305 mm Amber Arrow, 305 mm Green Arrow)
- Relocated Signal Indication, 3-Face (305 mm Red, 305 mm Amber, 305 mm Green)



SIGN LEGEND

- R3-5(R) Mandatory Movement Right Sign
- R3-5(L) Mandatory Movement Left Sign
- D3-2(12) Road Name "McKINLEY HIGHWAY" Sign (350 mm x 2150 mm) For Detail See Signing Plans, Sheet No. 13

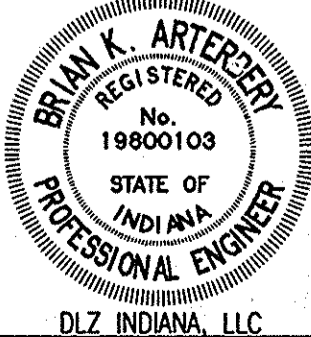
TRAFFIC SIGNALS ARE INCLUDED FOR INFORMATION ONLY

DESIGN SPEED:
 S.R. 331: 80 kph
 McKINLEY HIGHWAY 80 kph
 POSTED SPEED AS NOTED ABOVE ON PLANS

INDIANA DEPARTMENT OF TRANSPORTATION	
DIVISION OF DESIGN	
DESIGN ENGINEER	DATE
S.R. 331 AND McKINLEY HIGHWAY TRAFFIC SIGNAL MODERNIZATION ST. JOSEPH COUNTY LAPORTE DISTRICT	
CONTRACT NO.	

COMMISSION NO. 01-071-203

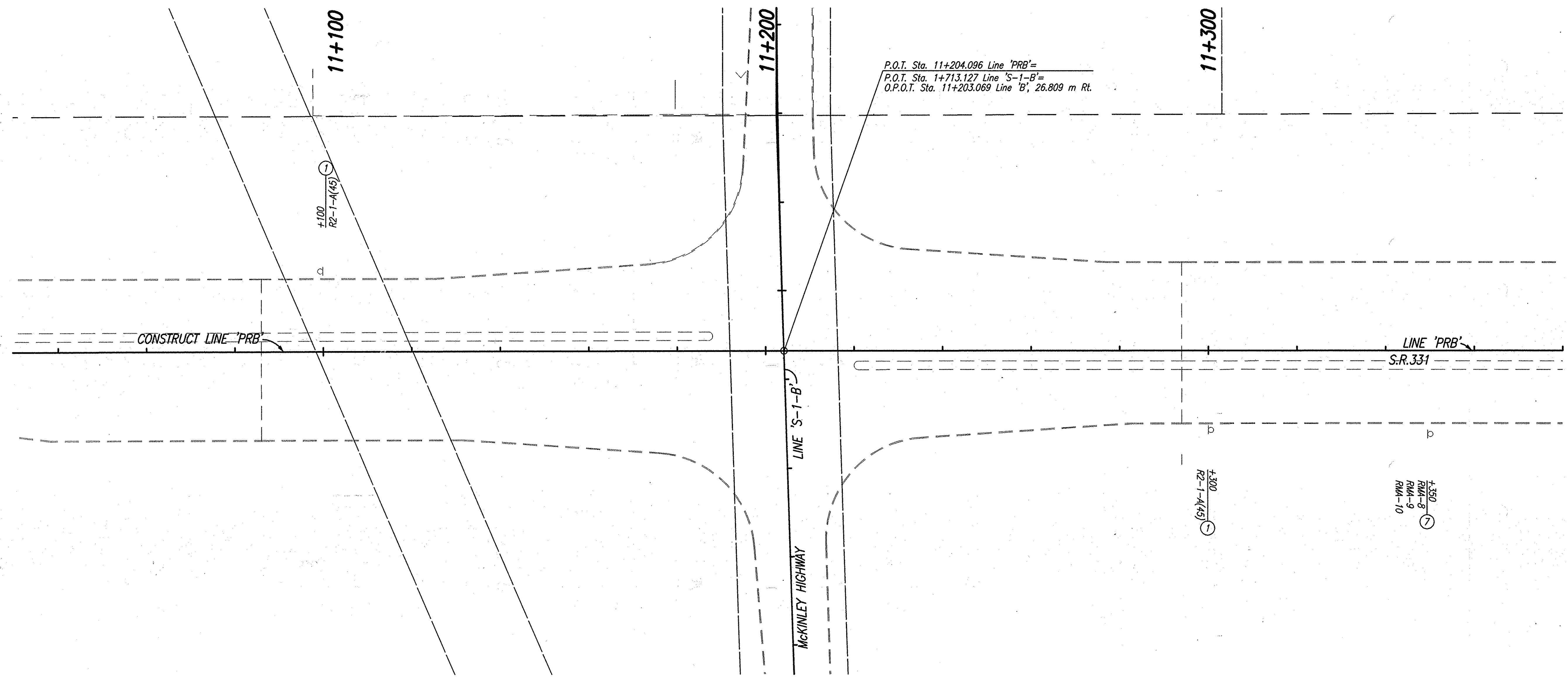
Date: Mar 27, 2006, 3:43pm User: ID: bhll
 File: M:\proj\0161\2218\0161\S-Line Set\McKinley Hwy Set - Sign And Signal\22185630-SIGNAL.DWG Model Tab: sign



RECOMMENDED FOR APPROVAL	<i>B. K. Arterbery</i> 3/27/06 DESIGN ENGINEER DATE
DESIGNED: ERW	DRAWN: TH
CHECKED: BKA	CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
SIGNING PLAN S.R. 331 AND McKINLEY HIGHWAY

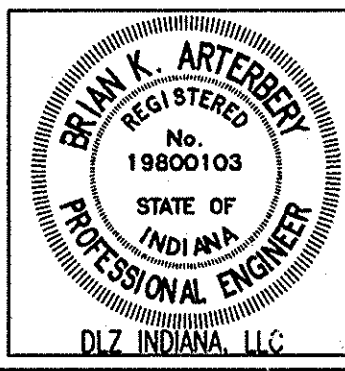
HORIZONTAL SCALE	ROAD FILE
1:300	
VERTICAL SCALE	DESIGNATION
	0300706
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 14
CONTRACT	PROJECT
R-28625	STP-5171(017)



REMOVAL QUANTITY	
SIGN, SHEET AND SUPPORTS, REMOVE	3 Each

- LEGEND**
- ① No Change Req'd. To Existing Sign And Supports
 - ② Remove Existing Sheet Sign And Supports
 - ⊠ Existing Ground Mounted Sheet Sign

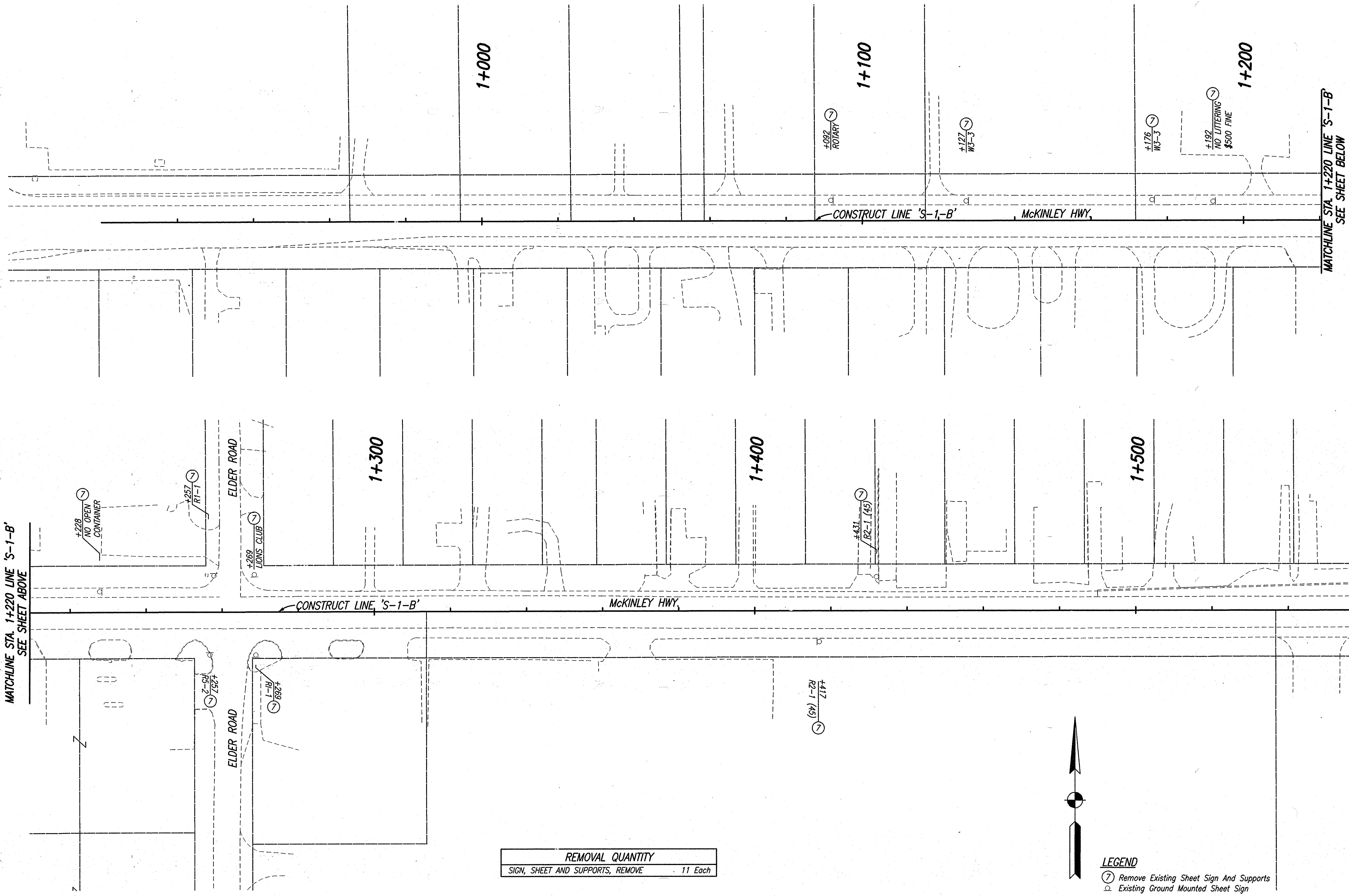
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 DESIGNED BY: ERW
 CHECKED BY: BKA
 DATE: 06/21/05 - 10:08:04



RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	2/27/06	DATE
DESIGNED:	ERW	DRAWN:	TH
CHECKED:	BKA	CHECKED:	ERW

INDIANA DEPARTMENT OF TRANSPORTATION
EXISTING SIGNING PLAN
LINE 'PRB'

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300706
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 14
CONTRACT	PROJECT
R-28625	STP-5171(017)



MATCHLINE STA. 1+220 LINE 'S-1-B'
SEE SHEET ABOVE

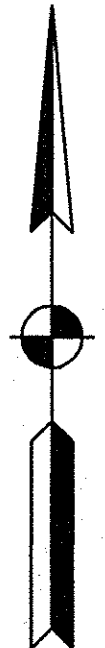
MATCHLINE STA. 1+220 LINE 'S-1-B'
SEE SHEET BELOW

MATCHLINE STA. 1+560 LINE 'S-1-B'
SEE NEXT SHEET

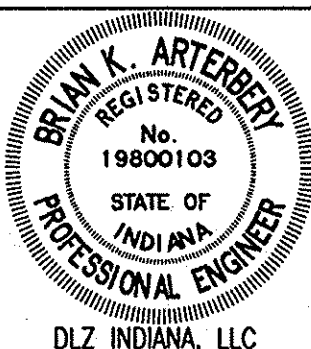
REMOVAL QUANTITY	
SIGN, SHEET AND SUPPORTS, REMOVE	11 Each

LEGEND

- ⊙ Remove Existing Sheet Sign And Supports
- ◻ Existing Ground Mounted Sheet Sign



CAD FILE: M:\PROJ\0161\2218\CONV\LDMS-S-LINE-SET\MCKINLEY HWY SET - SIGN AND SIGNAL\2218S31.DWG
 ENGINEERED BY: ERW
 DATE: 08/07/05 - 10:08:27



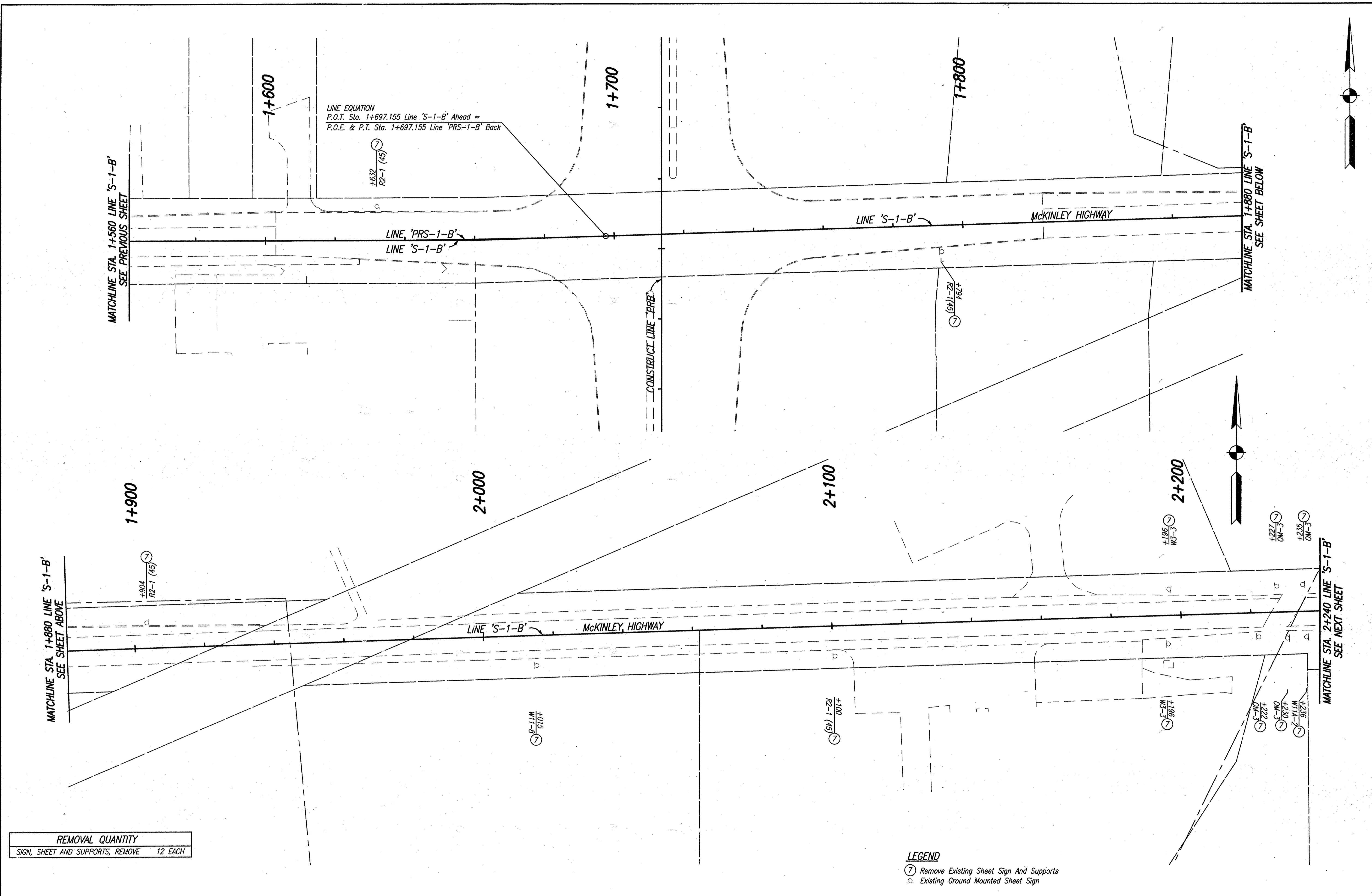
RECOMMENDED FOR APPROVAL	<i>Brian K. Arterberry</i>	2/27/06
DESIGN ENGINEER		DATE
DESIGNED: ERW	DRAWN: TH	
CHECKED: BKA	CHECKED: ERW	

INDIANA
DEPARTMENT OF TRANSPORTATION

**EXISTING SIGNING PLANS
LINE 'S-1-B'**

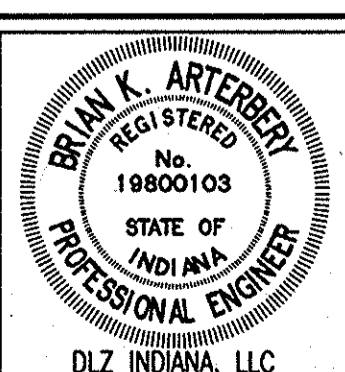
HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300706
SURVEY BOOK	SHEETS
ELECTRONIC	5 of 14
CONTRACT	PROJECT
R-28625	STP-5171(017)

C:\P\15\1503\01\12219\CIVIL\DWG\S-1\LINE SET\MCKINLEY HWY SET - SIGN AND SIGNAL\228622.DWG
 ENGINEERED BY: ERW
 REVISIONS BY: TH
 DATE: 06/21/06 - 10:08:52



REMOVAL QUANTITY	
SIGN, SHEET AND SUPPORTS, REMOVE	12 EACH

LEGEND
 ⑦ Remove Existing Sheet Sign And Supports
 □ Existing Ground Mounted Sheet Sign



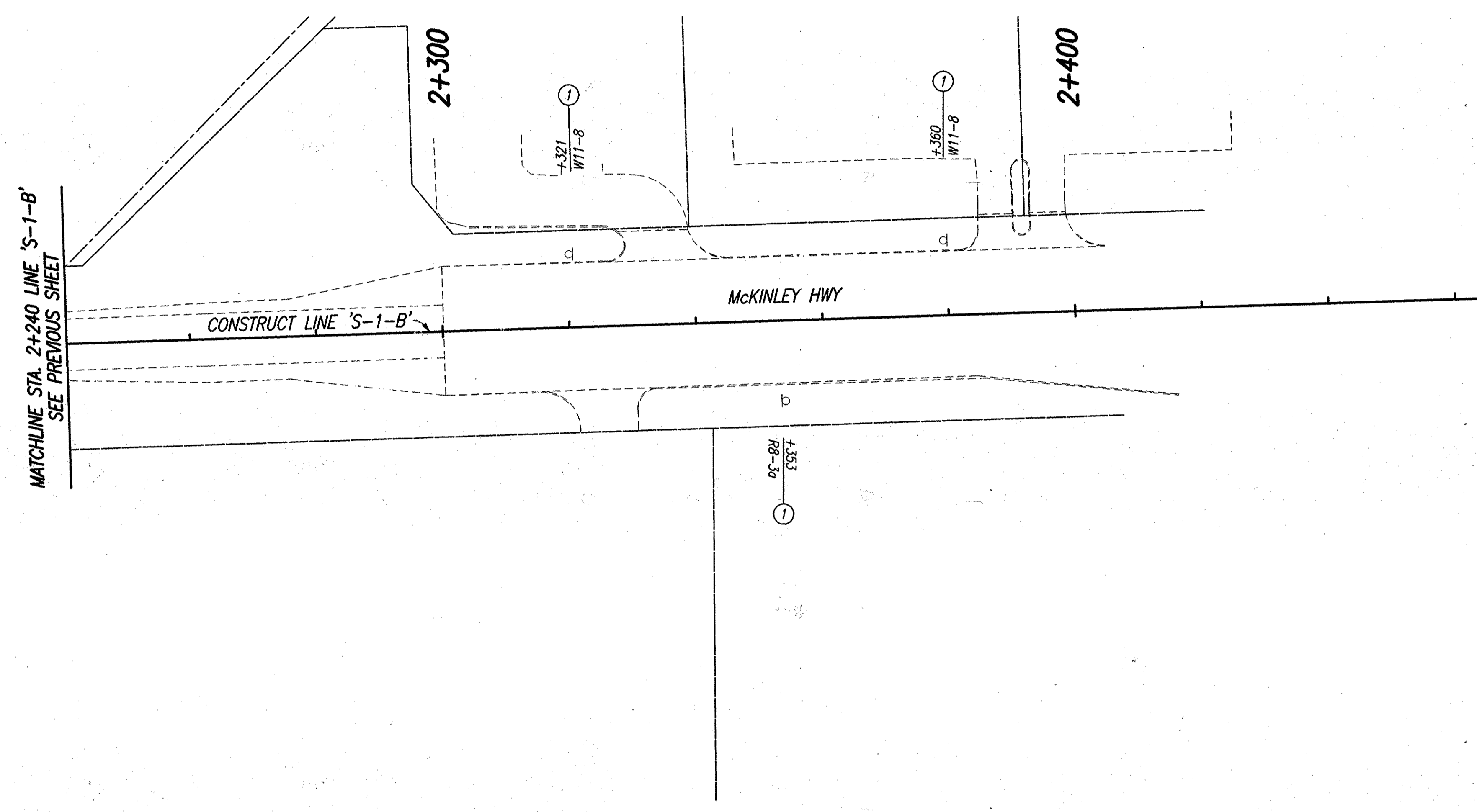
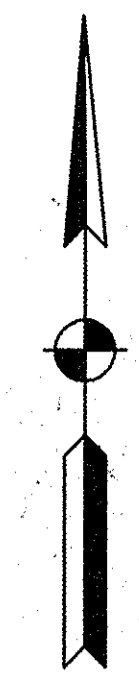
RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/21/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION

**EXISTING SIGNING PLANS
 LINE 'S-1-B' & LINE 'PRS-1-B'**

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300706
SURVEY BOOK	SHEETS
ELECTRONIC	6 of 14
CONTRACT	PROJECT
R-28625	STP-5171(017)



LEGEND
 ① No Change Req'd. To Existing Sign And Supports
 Ⓞ Existing Ground Mounted Sheet Sign

CAD FILE: K:\PROJ\011218\INDIANA\INDIANA\S-1-B\MCKINLEY HWY SET - SIGN AND SIGNAL\218SS.DWG
 DESIGNED BY: ERW
 REVISION BY: DH
 DATE: 05/27/06 - 14:48:31



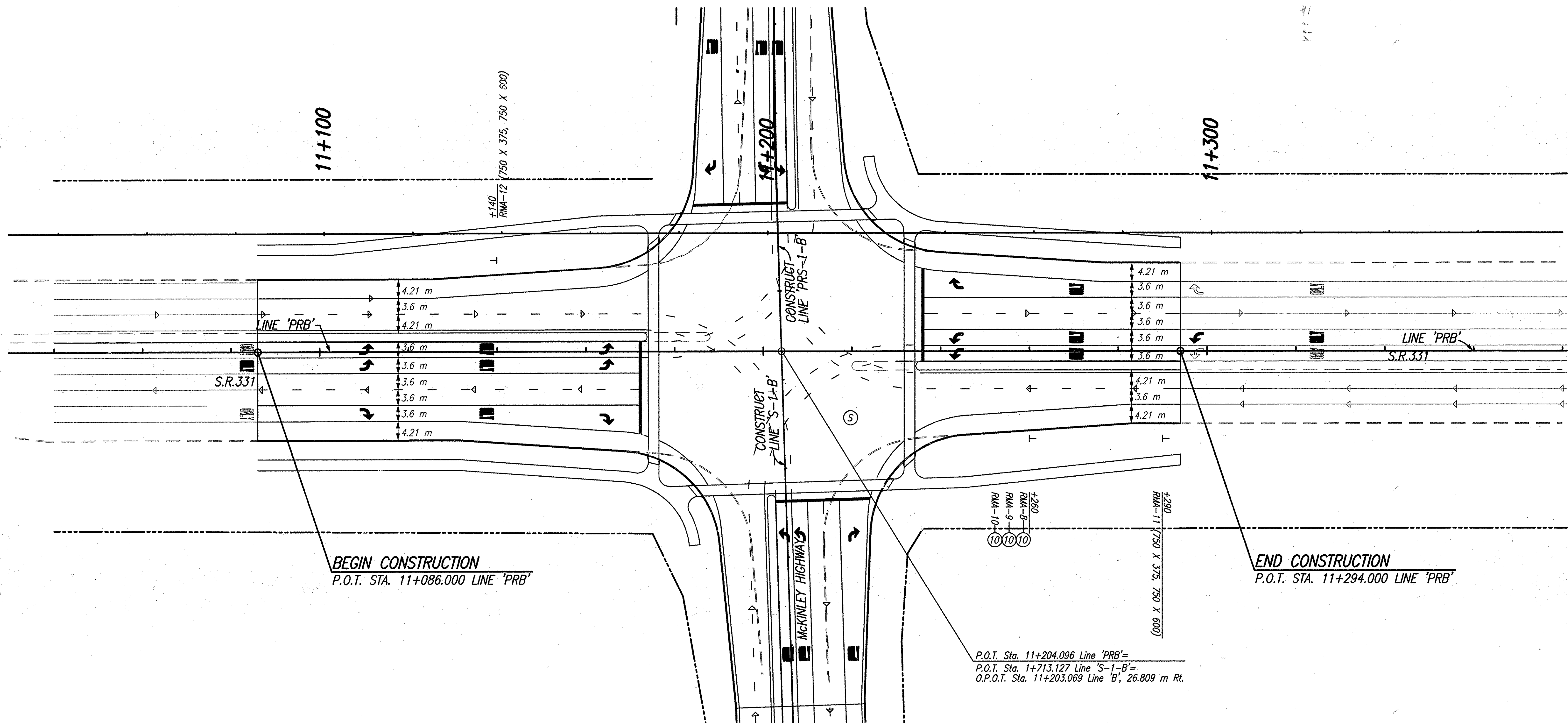
RECOMMENDED FOR APPROVAL: *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE

DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION

**EXISTING SIGNING PLANS
 LINE 'S-1-B'**

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300706
SURVEY BOOK	SHEETS
ELECTRONIC	7 of 14
CONTRACT	PROJECT
R-28625	STP-5171(017)



BEGIN CONSTRUCTION
P.O.T. STA. 11+086.000 LINE 'PRB'

END CONSTRUCTION
P.O.T. STA. 11+294.000 LINE 'PRB'

P.O.T. Sta. 11+204.096 Line 'PRB'=
P.O.T. Sta. 1+713.127 Line 'S-1-B'=
O.P.O.T. Sta. 11+203.069 Line 'B', 26.809 m Rt.

CAD FILE: \\A:\PROJECTS\11218\01A\DWG\S-1\LINE SET\MCKINLEY HWY SET - SIGN AND SIGNAL\218PS30.DWG
 ENGINEERED BY: ERW
 REVISION BY: DH
 DATE: 06/27/06 - 14:52:52

- NOTE:**
1. See Signal Plans For Additional Intersection Signing.
 2. Pavement Markings For Information Only.
 3. All Signs Referenced From Line 'PRB' Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	2/27/06
	DESIGN ENGINEER	DATE
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

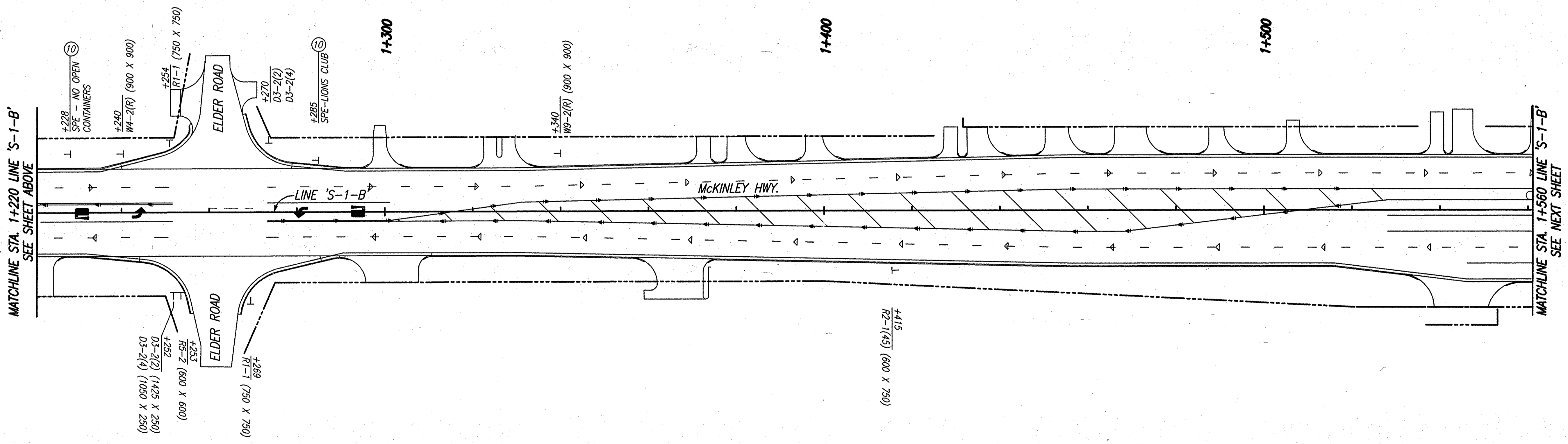
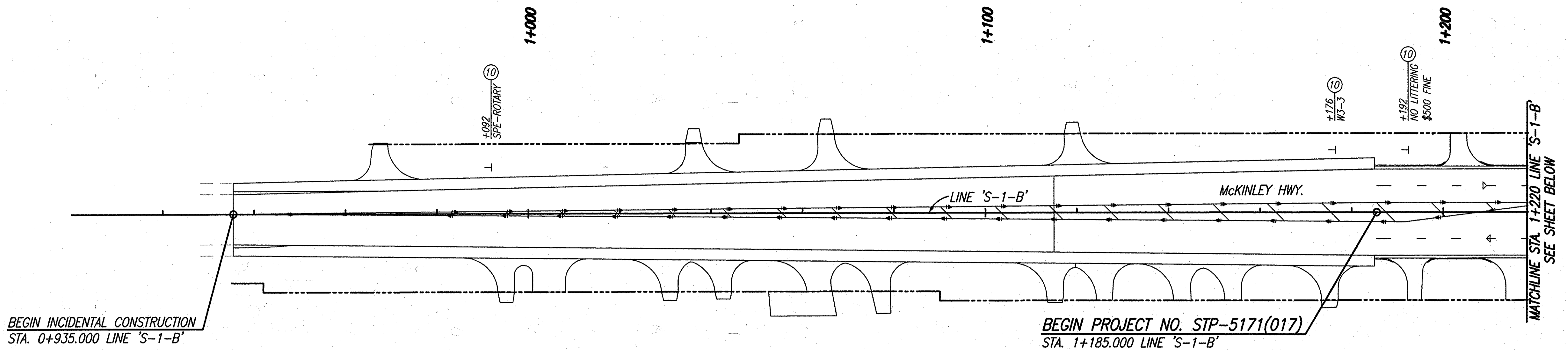
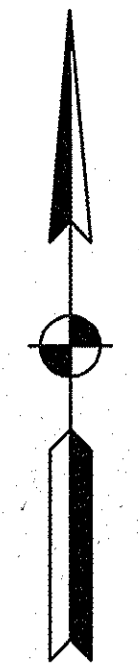
INDIANA
DEPARTMENT OF TRANSPORTATION

**PROPOSED SIGNING PLAN
LINE 'PRB'**

LEGEND

- (S) Signalized Intersection
- (10) Existing Sheet Sign On New Supports
- ⊥ Proposed Ground Mounted Sheet Sign

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300706
SURVEY BOOK	SHEETS
ELECTRONIC	8 of 14
CONTRACT	PROJECT
R-28625	STP-5171(017)



- LEGEND**
- ⊥ Proposed Ground Mounted Sheet Sign
 - ⑩ Existing Sheet Sign On New Supports

- NOTE:**
1. See Signal Plans For Additional Intersection Signing.
 2. Pavement Markings For Information Only.
 3. All Signs Referenced From Line 'S-1-B' Unless Otherwise Noted.

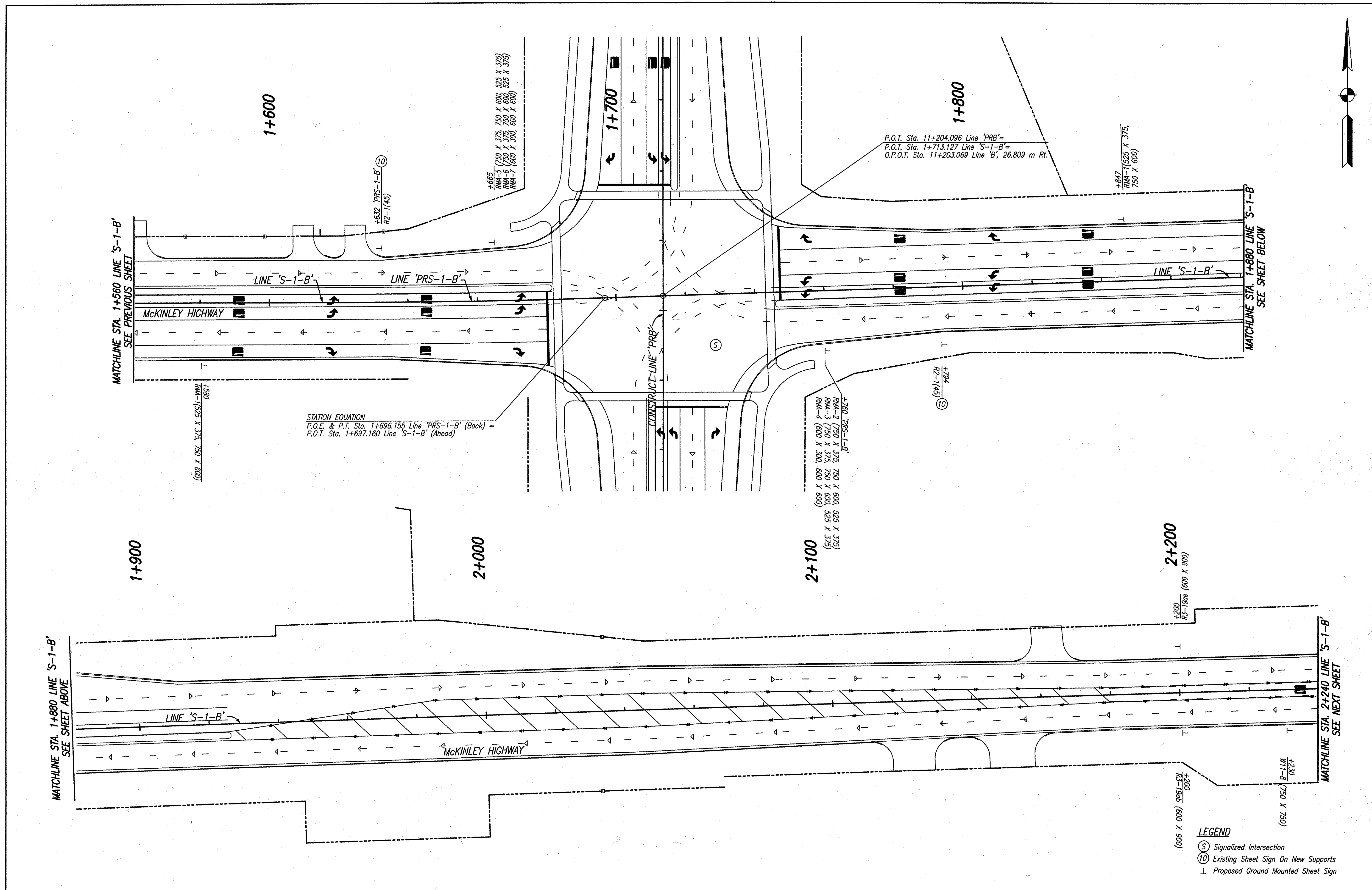
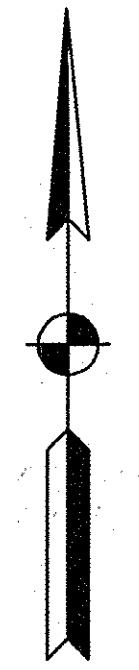
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 ENGINEERED BY: ERW
 DESIGNED BY: TH
 DATE: 03/27/06 - 08:21:20



RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	3/27/06	DATE
DESIGNED:	ERW	DRAWN:	TH
CHECKED:	BKA	CHECKED:	ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION
PROPOSED SIGNING PLAN
LINE 'S-1-B'

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300706
SURVEY BOOK	SHEETS
ELECTRONIC	9 of 14
CONTRACT	PROJECT
R-28625	STP-5171(017)



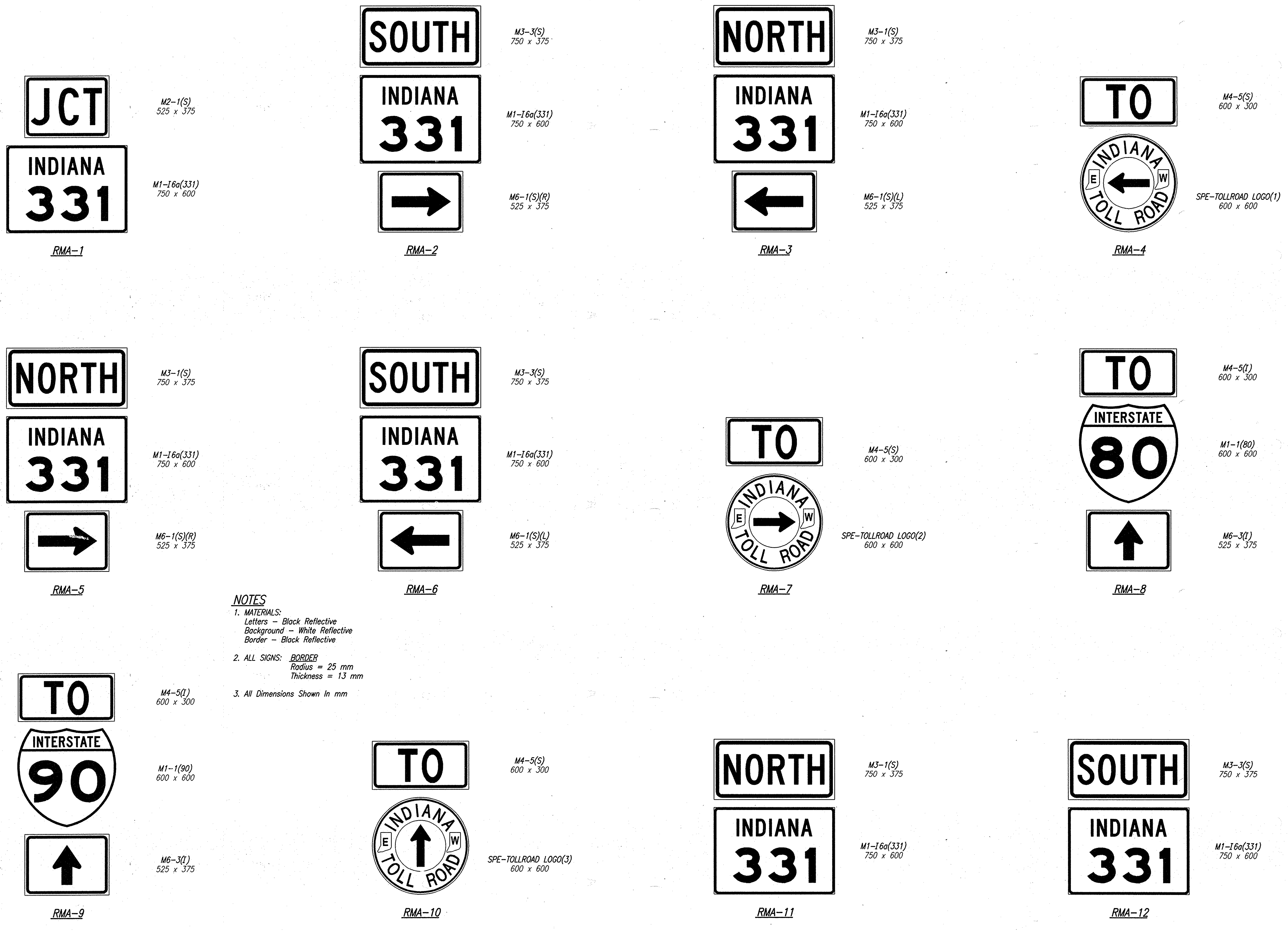
RECOMMENDED FOR APPROVAL	<i>B. K. Arterbery</i>	3/27/06
DESIGNED:	ERW	DRAWN:
CHECKED:	BKA	CHECKED:
		TH
		ERW

INDIANA
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNING PLAN
LINE 'PRS-1-B' & 'S-1-B'

HORIZONTAL SCALE	ROAD FILE
VERTICAL SCALE	DESIGNATION
	0300706
SURVEY BOOK	SHEETS
ELECTRONIC	10 of 14
CONTRACT	PROJECT
R-28625	STP-5171(017)

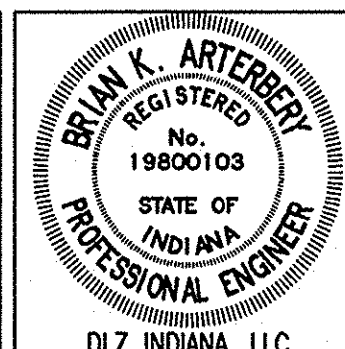
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 ENGINEERED BY: ERW
 REVISION BY: DR
 DATE: 09/25/06 13:26:53



NOTES

- MATERIALS:**
 Letters - Black Reflective
 Background - White Reflective
 Border - Black Reflective
- ALL SIGNS: BORDER**
 Radius = 25 mm
 Thickness = 13 mm
- All Dimensions Shown In mm

C:\D:\FILE_M\PROJ\0181\2218\ONE LINE SET\WICKANEY HWY SET - SIGN AND SIGNAL\2218SD.DWG
 ENGINEERED BY: ERW
 DATE: 06/21/06 - 10:17:08



RECOMMENDED FOR APPROVAL	<i>Brian K. Arterbery</i> 2/27/06	
DESIGN ENGINEER	DATE	
DESIGNED: ERW	DRAWN: TH	
CHECKED: BKA	CHECKED: ERW	

INDIANA
DEPARTMENT OF TRANSPORTATION
ROUTE MARKER
ASSEMBLY DETAILS

HORIZONTAL SCALE	ROAD FILE
Not To Scale	
VERTICAL SCALE	DESIGNATION
	0300706
SURVEY BOOK	SHEETS
ELECTRONIC	12 of 14
CONTRACT	PROJECT
R-28625	STP-5171(017)

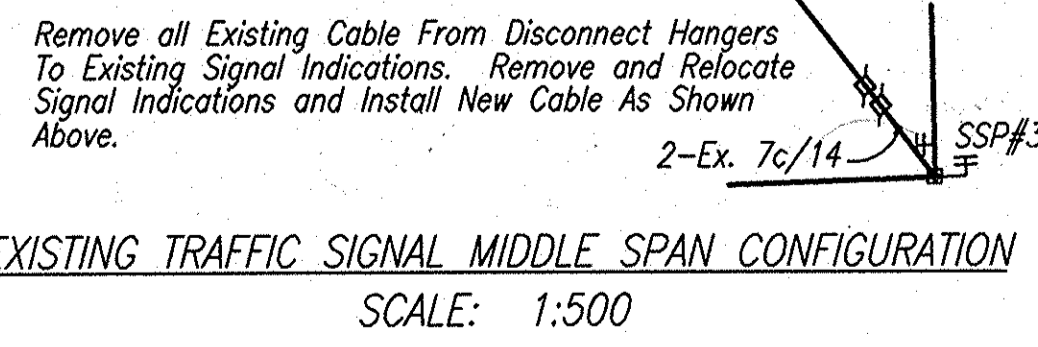
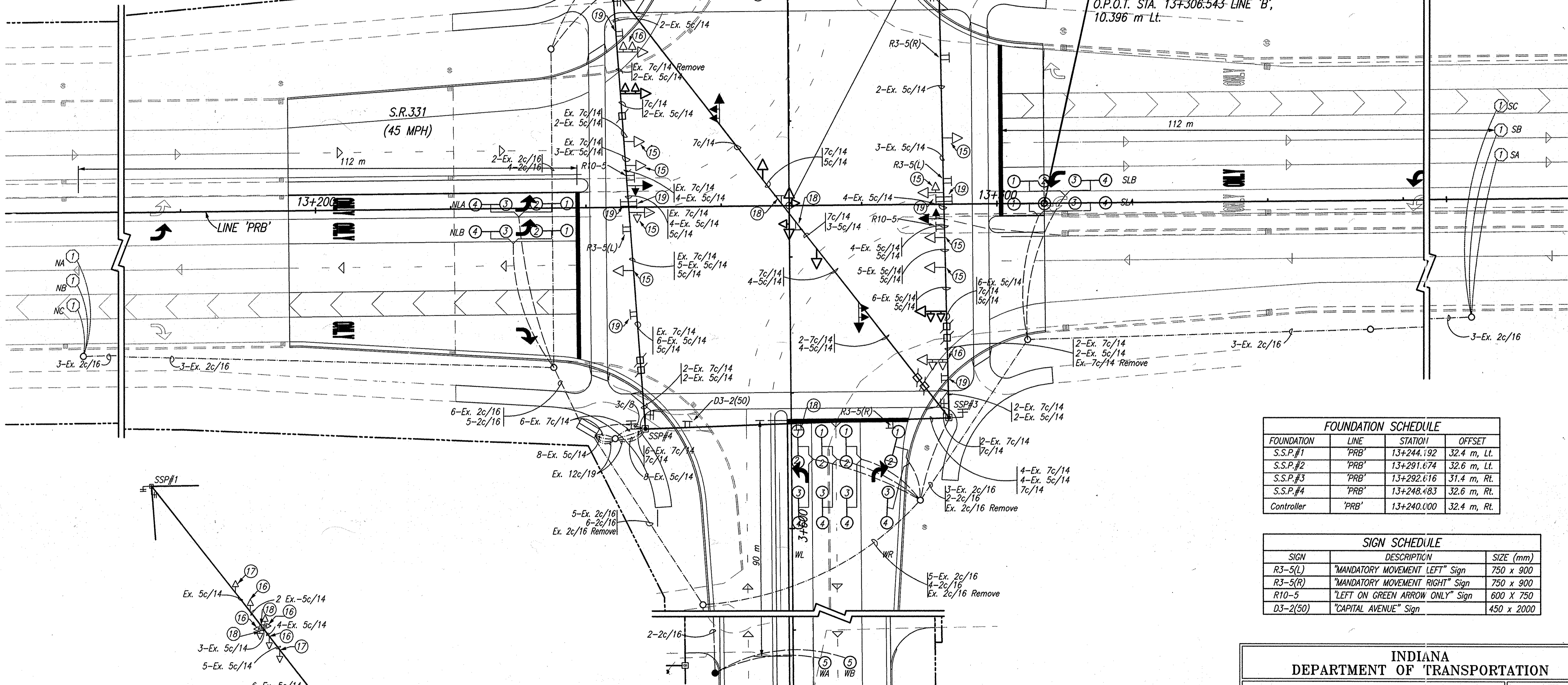
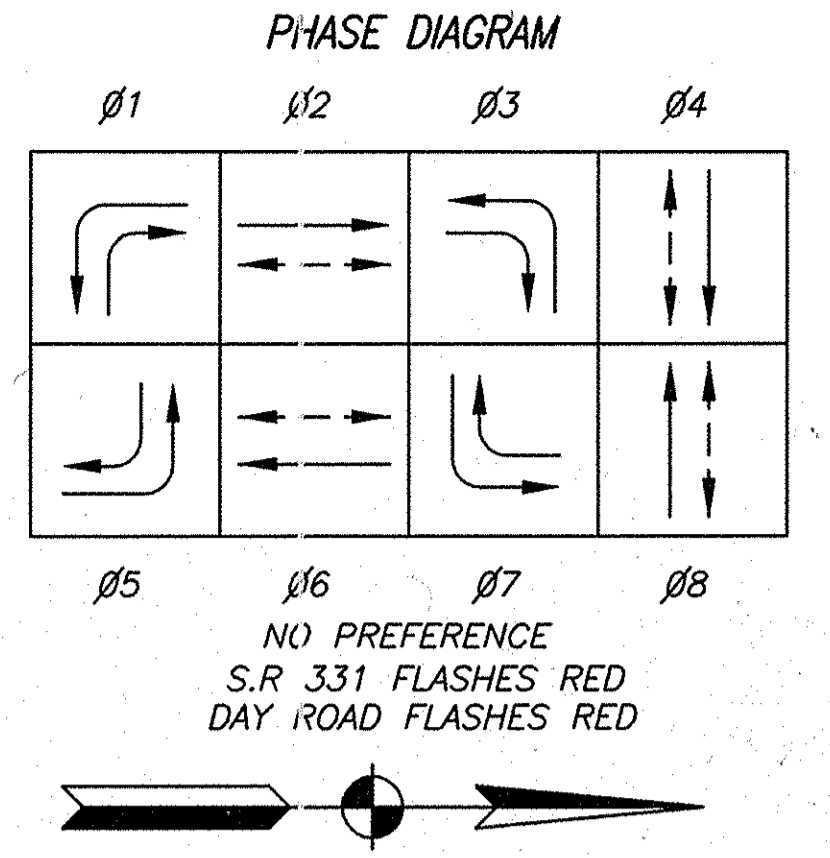
LEGEND

- Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber, 305 mm Green LED)
- Signal Indication, 5-Face (305 mm Red LED, 305 mm Amber, 305 mm Green LED, 305 mm Amber Arrow Rt., 305 mm Green Arrow Rt. LED)
- Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber Arrow Lt., 305 mm Green Arrow Lt. LED.)
- Existing Signal Handhole
- Signal Handhole
- Existing Steel Strain Pole, 11 m
- Existing 8 Phase Fully Actuated Menu Driven Secondary Controller And Cabinet On "P-1" Foundation
- Sheet Sign, Mounted On Span And Cantenary, As Noted
- Existing Span, Catenary And Tether
- Existing Span Mounted Junction Box
- Existing Pedestrian Indication, International Symbol With Push Button And R10-4b Sign
- 50 mm Galvanized Steel Conduit
- Preformed Loop Detector (1.8 m x 1.8 m), 4 Turns, Series
- Existing Preformed Loop Detector (Use In Place)
- Existing 50 mm Galvanized Steel Conduit

- ▷ Snowplowable, Raised Pavement Marker, One Way, White
- ⑮ Existing Signal Head, Use In Place
- ⑯ Relocate Existing Signal Head
- ⑰ Remove Existing 3 Section Signal Indication
- ⑱ Relocate Existing Sign
- ⑲ Existing Sign, Use In Place.
- ◁ Existing Traffic Signal Indication, 5-Face (305 mm Red LED, 305 mm Amber, 305 mm Green LED, 305 mm Amber Arrow, 305 mm Red Arrow LED)
- ◁ Existing Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber, 305 mm Green LED)
- ◁ Existing Traffic Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber Arrow, 305 mm Green Arrow LED)
- ◁ Relocated Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber, 305 mm Green LED)
- ◁ Relocated Traffic Signal Indication, 5-Face (305 mm Red LED, 305 mm Amber, 305 mm Green LED, 305 mm Amber Arrow, 305 mm Red Arrow Rt. LED)
- ◁ Relocated Traffic Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber Arrow, 305 mm Green Arrow LED)

LANE	TAG NUMBER
NLA	NLA5-1,2,3,4
NLB	NLB5-1,2,3,4
NA	NA2-1
NB	NB2-1
NC	NC2-1
WL	WL3-1,2,3,4
WA	WA8-1,2,3,4
WB	WB8-1,2,3,4
WA	WA8-5
WB	WB8-5
WR	WR8-1

LANE	TAG NUMBER
SLA	SLA1-1,2,3,4
SLB	SLB1-1,2,3,4
SA	SA6-1
SB	SB6-1
SC	SC6-1
EL	EL7-1,2,3,4
EA	EA4-1,2,3,4
EB	EBA-1,2,3,4
EA	EA4-5
EB	EBA-5
ER	ER4-1



NOTES

1. A New Detector Card Rack Shall Be Wired Inside The Existing Cabinet Which Shall Supplement The Existing Card Rack. The Cost Of The New Card Rack Shall Be Included In The Cost Of The Detector Amplifiers.

FOUNDATION SCHEDULE

FOUNDATION	LINE	STATION	OFFSET
S.S.P.#1	'PRB'	13+244.192	32.4 m, Lt.
S.S.P.#2	'PRB'	13+291.674	32.6 m, Lt.
S.S.P.#3	'PRB'	13+292.616	31.4 m, Rt.
S.S.P.#4	'PRB'	13+248.483	32.6 m, Rt.
Controller	'PRB'	13+240.000	32.4 m, Rt.

SIGN SCHEDULE

SIGN	DESCRIPTION	SIZE (mm)
R3-5(L)	"MANDATORY MOVEMENT LEFT" Sign	750 x 900
R3-5(R)	"MANDATORY MOVEMENT RIGHT" Sign	750 x 900
R10-5	"LEFT ON GREEN ARROW ONLY" Sign	600 X 750
D3-2(50)	"CAPITAL AVENUE" Sign	450 x 2000

INDIANA DEPARTMENT OF TRANSPORTATION

DESIGNER: *B. K. Atty* DATE: 3/27/06
 DESIGN ENG. DATE: / /

S.R. 331 (CAPITAL AVENUE) AND DAY ROAD TRAFFIC SIGNAL MODERNIZATION
 ST. JOSEPH COUNTY
 LAPORTE DISTRICT

DESIGNER: **BRIAN K. ARTERBERY**
 REGISTERED PROFESSIONAL ENGINEER
 No. 19800103
 STATE OF INDIANA

SCALE: 1:300

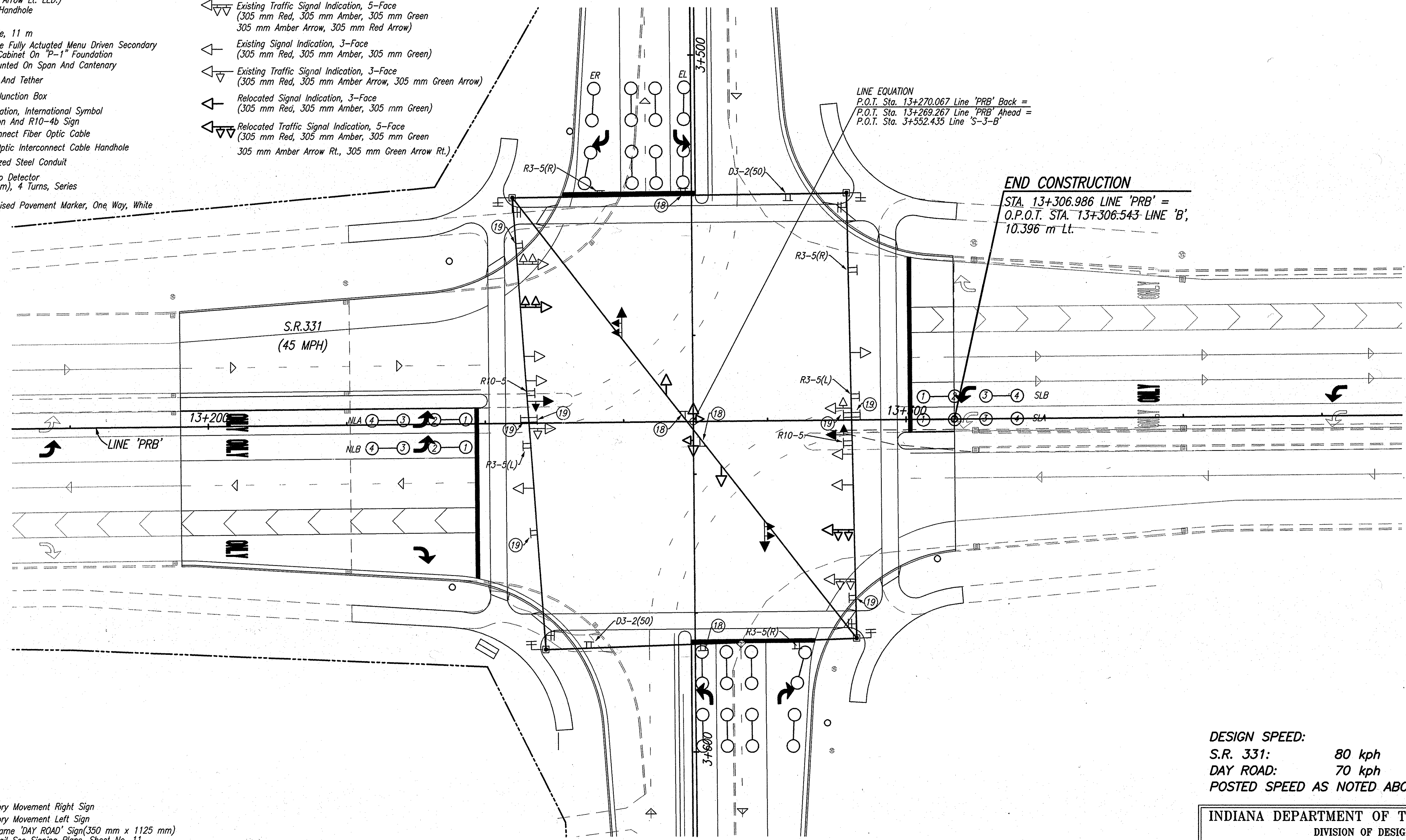
CONTRACT NO. R-28625	DRAWN BY TH	YEAR 2002	SHEET 3	TOTAL 3
COMMISSION NO. 01-071-202	DES. NO. 0300707	PROJECT NO. NH-750(003)		

DESIGN SPEED:
 S.R. 331: 80 kph
 DAY ROAD: 70 kph
 POSTED SPEED AS NOTED ABOVE ON PLANS

Date: Mar 27, 2006, 3:42pm User: dt_hall
 File: M:\proj\0161\2218\2218\Signal\Day_Road_Set - Sign And Signal\2218520-SIGNAL.DWG Model Tab: Signal

LEGEND

- ← Signal Indication, 3-Face
(305 mm Red LED, 305 mm Amber LED, 305 mm Green LED)
- ← Signal Indication, 5-Face
(305 mm Red LED, 305 mm Amber LED, 305 mm Green LED, 305 mm Amber Arrow Rt. LED, 305 mm Green Arrow Rt. LED)
- ← Signal Indication, 3-Face
(305 mm Red LED, 305 mm Amber Arrow Lt. LED, 305 mm Green Arrow Lt. LED.)
- Existing Signal Handhole
- Signal Handhole
- Steel Strain Pole, 11 m
- Existing 8 Phase Fully Actuated Menu Driven Secondary Controller And Cabinet On "P-1" Foundation
- TT Sheet Sign, Mounted On Span And Cantenary
- Span, Catenary And Tether
- Span Mounted Junction Box
- Pedestrian Indication, International Symbol With Push Button And R10-4b Sign
- I.C. Existing Interconnect Fiber Optic Cable
- Existing Fiber Optic Interconnect Cable Handhole
- 50 mm Galvanized Steel Conduit
- Preformed Loop Detector
(1.8 m x 1.8 m), 4 Turns, Series
- ▷ Snowplowable, Raised Pavement Marker, One Way, White
- Existing Preformed Loop Detector (Use In Place)
- (18) Relocate Existing Sign
- (19) Existing Sign. Use In Place.
- Existing 50 mm Galvanized Steel Conduit
- ▷ Snowplowable, Raised Pavement Marker, One Way, White
- Existing Traffic Signal Indication, 5-Face
(305 mm Red, 305 mm Amber, 305 mm Green, 305 mm Amber Arrow, 305 mm Red Arrow)
- Existing Signal Indication, 3-Face
(305 mm Red, 305 mm Amber, 305 mm Green)
- Existing Traffic Signal Indication, 3-Face
(305 mm Red, 305 mm Amber Arrow, 305 mm Green Arrow)
- Relocated Signal Indication, 3-Face
(305 mm Red, 305 mm Amber, 305 mm Green)
- Relocated Traffic Signal Indication, 5-Face
(305 mm Red, 305 mm Amber, 305 mm Green, 305 mm Amber Arrow Rt., 305 mm Green Arrow Rt.)



END CONSTRUCTION
 STA. 13+306.986 LINE 'PRB' =
 O.P.O.T. STA. 13+306.543 LINE 'B';
 10.396 m Lt.

SIGN LEGEND

- R3-5(R) Mandatory Movement Right Sign
- R3-5(L) Mandatory Movement Left Sign
- D3-2(14) Road Name 'DAY ROAD' Sign (350 mm x 1125 mm)
For Detail See Signing Plans, Sheet No. 11

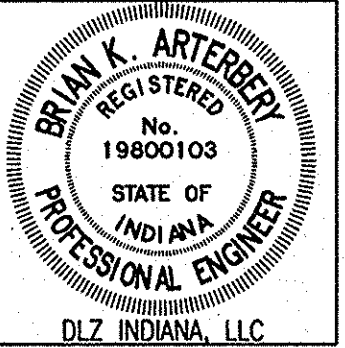
TRAFFIC SIGNALS ARE INCLUDED FOR INFORMATION ONLY

DESIGN SPEED:
 S.R. 331: 80 kph
 DAY ROAD: 70 kph
 POSTED SPEED AS NOTED ABOVE ON PLANS

INDIANA DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN	
DESIGN ENGINEER	DATE
S.R. 331 (CAPITAL AVENUE) AND DAY ROAD NEW TRAFFIC SIGNAL ST. JOSEPH COUNTY LAPORTE DISTRICT	

COMMISSION NO. 01-071-202

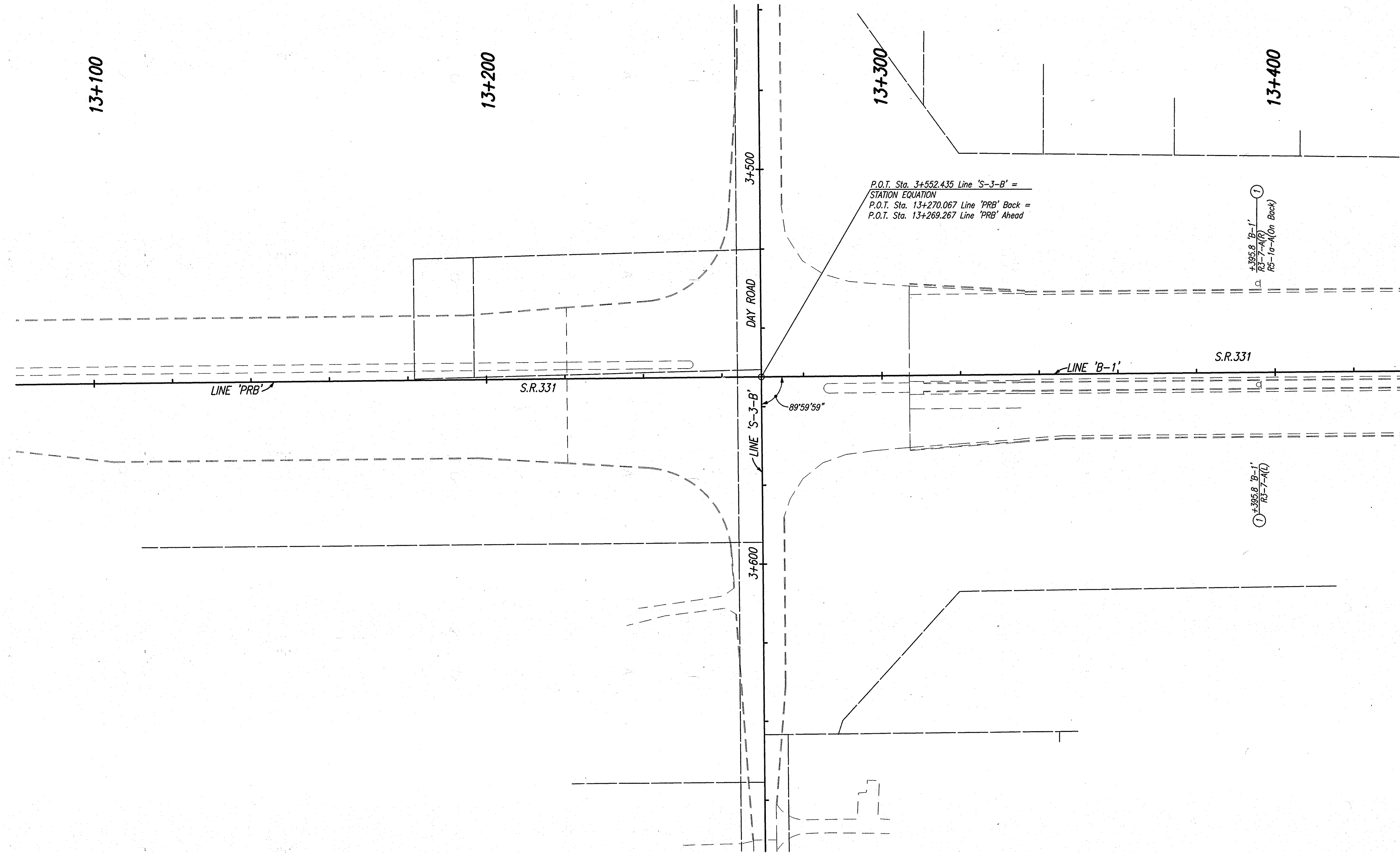
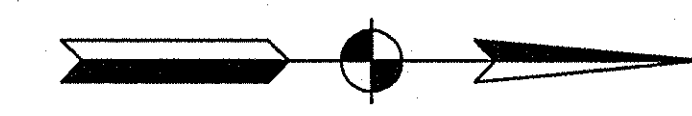
Date: Mar 27, 2006, 3:41 pm User: dlz File: M:\proj\0161\2218\civil\chgo\5-Line Set\Day Road Set - Sign And Signal\22185020-SIGNAL.DWG Model Tab: Sign



RECOMMENDED FOR APPROVAL	<i>B. K. Artberg</i>	3/27/06
	DESIGN ENGINEER	DATE
DESIGNED: ERW	DRAWN: TH	
CHECKED: BKA	CHECKED: ERW	

INDIANA DEPARTMENT OF TRANSPORTATION
SIGNING PLAN
S.R. 331 AND DAY ROAD

HORIZONTAL SCALE	ROAD FILE
1:300	
VERTICAL SCALE	DESIGNATION
	0300708
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 12
CONTRACT	PROJECT
R-28625	STP-5171(018)



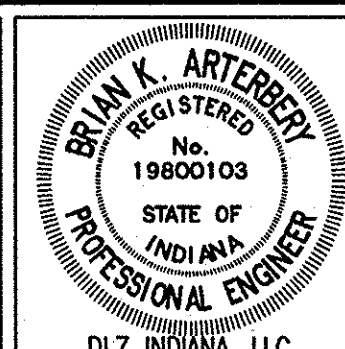
P.O.T. Sta. 3+552.435 Line 'S-3-B' =
 STATION EQUATION
 P.O.T. Sta. 13+270.067 Line 'PRB' Back =
 P.O.T. Sta. 13+269.267 Line 'PRB' Ahead

① +395.8 'B-1'
 R3-7-4(B)
 R5-10-4(on Back)

① +395.8 'B-1'
 R3-7-4(L)

LEGEND
 ① No Change Req'd. To Existing Sign And Supports
 □ Existing Ground Mounted Sheet Sign

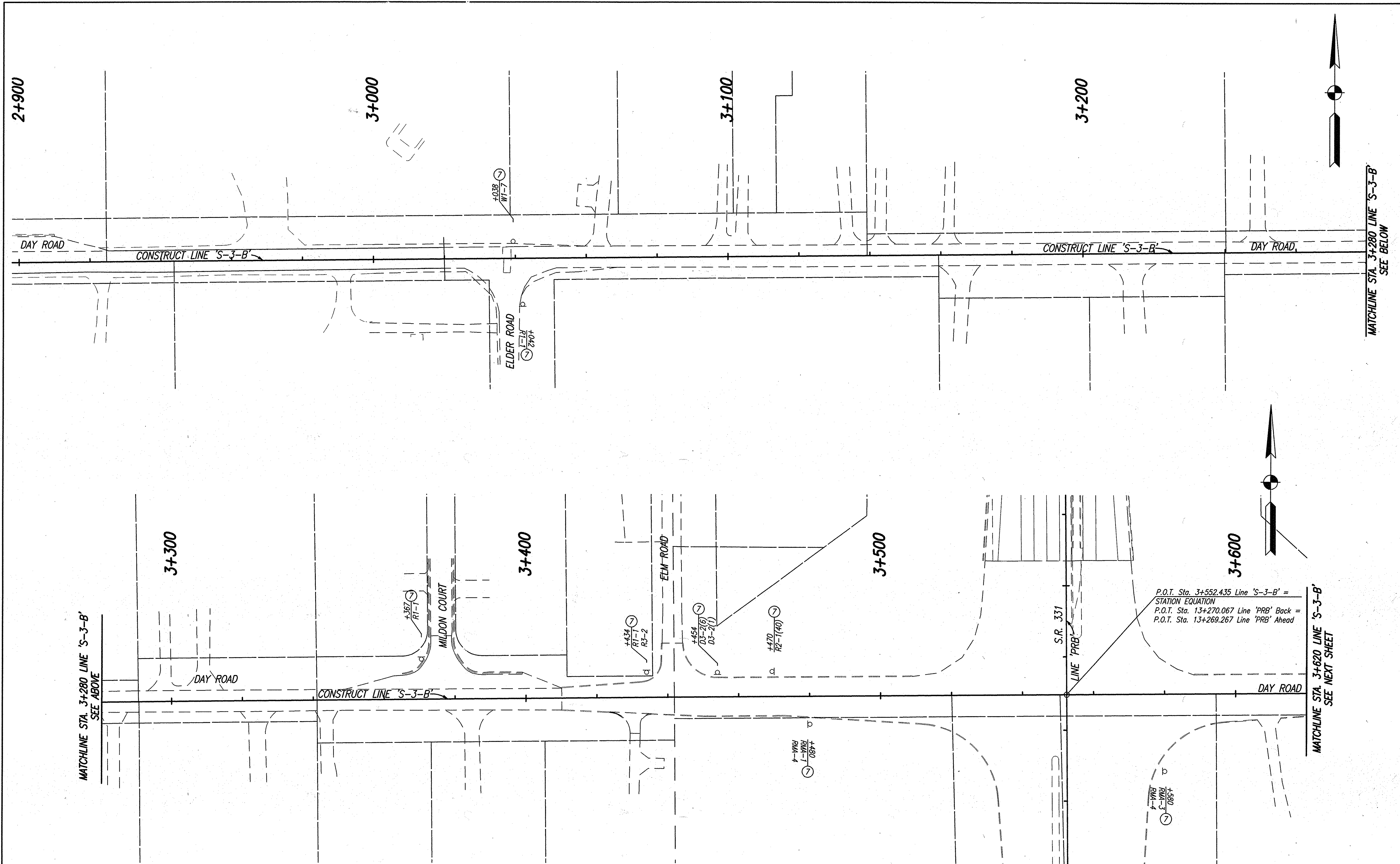
CAD FILE: M:\PROJ\0612218\DWG\0612218-LINE SET\DAY ROAD SET - SIGN AND SIGNAL\22RESZDWG
 ENGINEERED BY: ERW
 DATE: 06/23/05 - 10:23:11



RECOMMENDED FOR APPROVAL *B. K. Arterberry* 2/27/06
 DESIGN ENGINEER DATE
 DESIGNED: ERW DRAWN: TH
 CHECKED: BKA CHECKED: ERW

INDIANA DEPARTMENT OF TRANSPORTATION
EXISTING SIGNING PLAN
LINE 'PRB'

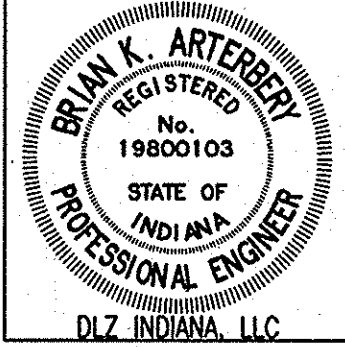
HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300708
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 12
CONTRACT	PROJECT
R-28625	STP-5171(018)



REMOVAL QUANTITY	
SHEET, SIGN & SUPPORTS, REMOVE	8 EACH

LEGEND
 (7) Remove Existing Sheet Sign And Supports
 (o) Existing Ground Mounted Sheet Sign

CAD FILE: P:\PROJ\01\1218\1\01\INDS-LINE SET\DAY ROAD SET - SIGN AND SIGNAL\228232.DWG
 REVISION: 01/06
 REVISION: 01/06
 DATE: 06/23/06 - 08:58:20



RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	2/27/06
	DESIGN ENGINEER	DATE
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA
 DEPARTMENT OF TRANSPORTATION

**EXISTING SIGNING PLAN
 LINE 'S-3-B'**

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300708
SURVEY BOOK	SHEETS
ELECTRONIC	5 of 12
CONTRACT	PROJECT
R-28625	STP-5171(018)

2+900

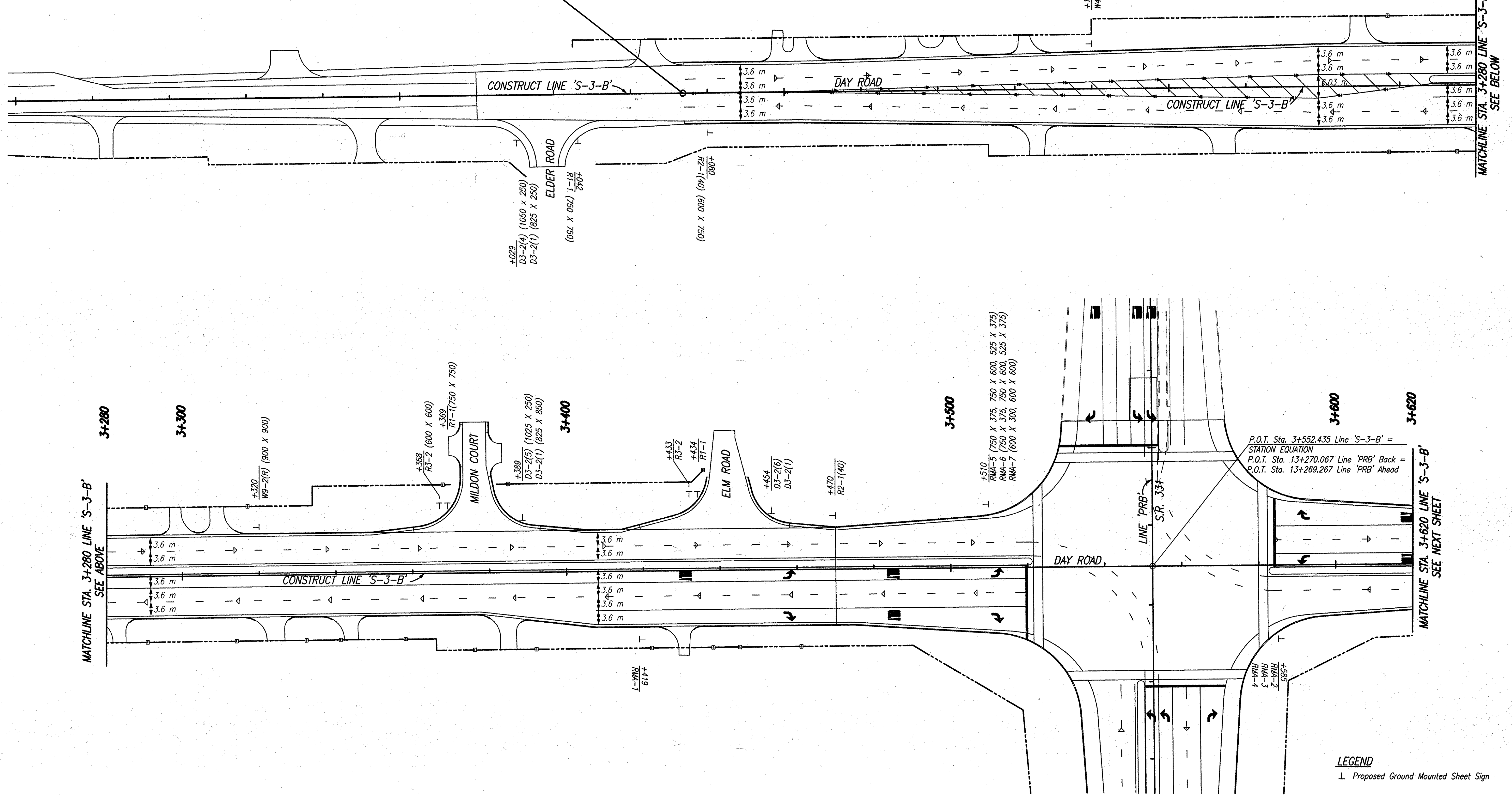
3+000

3+100

3+200

3+280

BEGIN PROJECT
STA. 3+074.000 LINE 'S-3-B'



MATCHLINE STA. 3+280 LINE 'S-3-B'
SEE ABOVE

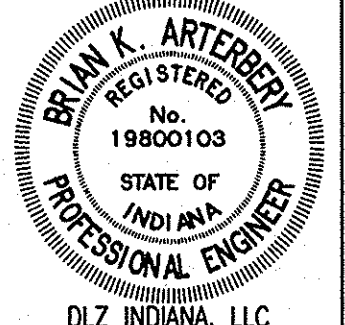
MATCHLINE STA. 3+620 LINE 'S-3-B'
SEE NEXT SHEET

P.O.T. Sta. 3+552.435 Line 'S-3-B' =
STATION EQUATION
P.O.T. Sta. 13+270.067 Line 'PRB' Back =
P.O.T. Sta. 13+269.267 Line 'PRB' Ahead

LEGEND
⊥ Proposed Ground Mounted Sheet Sign

CHG FILE: M:\PROJECTS\1218\CHG\CHG\SIGN\ROAD SET - SIGN AND SIGNAL\1218R21.DWG
ENGINEERED BY: ERW
REVIEWED BY: TH
DATE: 05/27/08 - 08:22:08

- NOTE:**
1. See Signal Plans For Additional Intersection Signing.
 2. Pavement Markings For Information Only.
 3. All Signs Referenced From Line 'S-3-B' Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL	<i>B. K. Arterberry</i>	3/27/08
	DESIGN ENGINEER	DATE
DESIGNED:	ERW	DRAWN: TH
CHECKED:	BKA	CHECKED: ERW

INDIANA
DEPARTMENT OF TRANSPORTATION

**PROPOSED SIGNING PLANS
LINE 'S-3-B'**

HORIZONTAL SCALE	ROAD FILE
1:500	
VERTICAL SCALE	DESIGNATION
	0300708
SURVEY BOOK	SHEETS
ELECTRONIC	8 of 12
CONTRACT	PROJECT
R-28625	STP-5171(018)

PROJECT	DESIGNATION
STP-5171(017)	0300705
CONTRACT	
R-28625	



PROJECT LOCATION SHOWN BY —

INDIANA
DEPARTMENT OF
TRANSPORTATION

TRAFFIC SIGNALS
S.R. 331

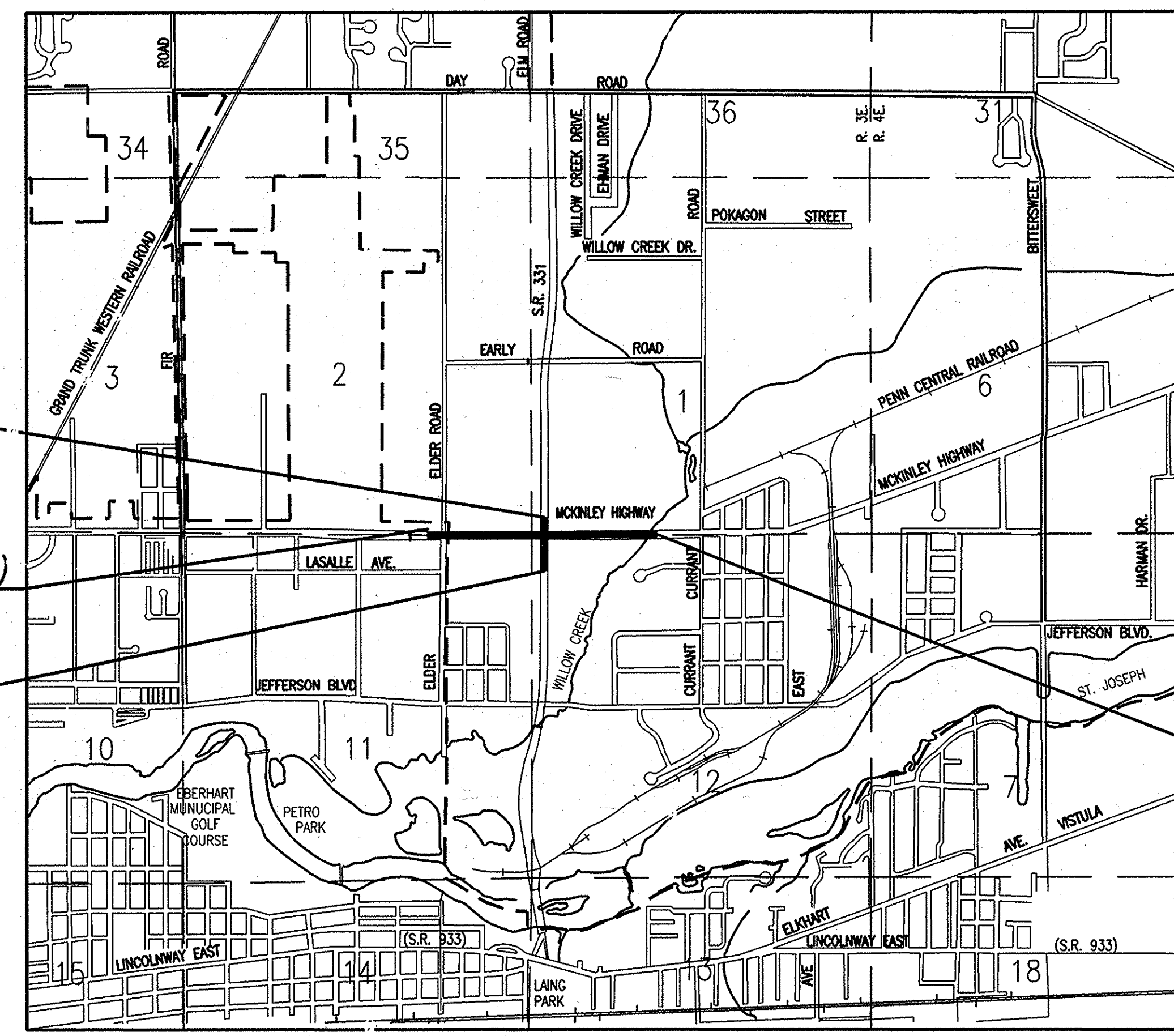
PROJECT NO. STP-5171(017)

P.E.
 R/W
 CONST.

NEW CONSTRUCTION ON MCKINLEY HIGHWAY FROM 530 METERS WEST OF THE INTERSECTION WITH S.R. 331 TO 600 METERS EAST OF THE INTERSECTION WITH S.R. 331, PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

GROSS LENGTH 1.130 km
NET LENGTH 1.130 km

SCALES:
PLAN LONG: 1:200 HORIZONTAL: 1:200 MAXIMUM GRADE = 1.240%
TRANS: 1:200 VERTICAL: 1:50

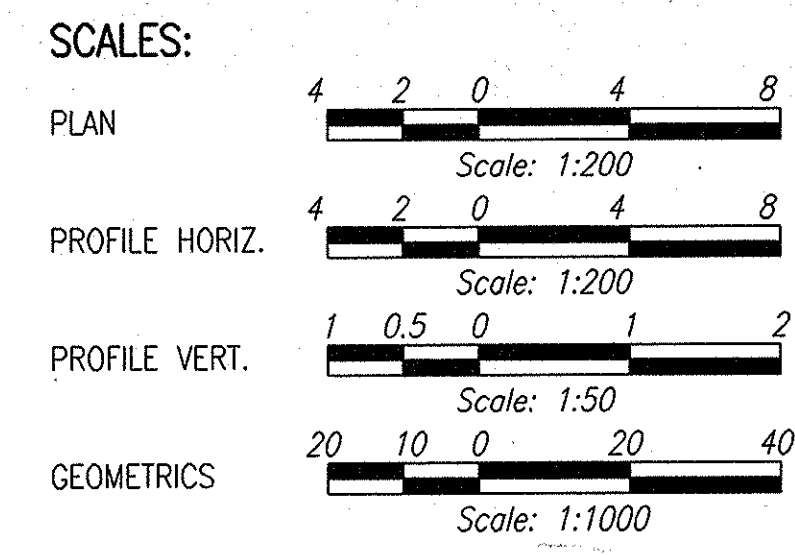


END CONSTRUCTION
STA. 11+294.000 LINE 'PRB'

BEGIN PROJECT NO. STP-5171(017)
STA. 1+185.000 LINE 'S-1-B'

BEGIN CONSTRUCTION
STA. 11+086.000 LINE 'PRB'

END PROJECT NO. STP-5171(017)
STA. 2+315.000 LINE 'S-1-B'



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

PENN TOWNSHIP
ST. JOSEPH COUNTY

SCALE: 1:20 000



FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPT. OF TRANSPORTATION

APPROVED: _____ DATE _____

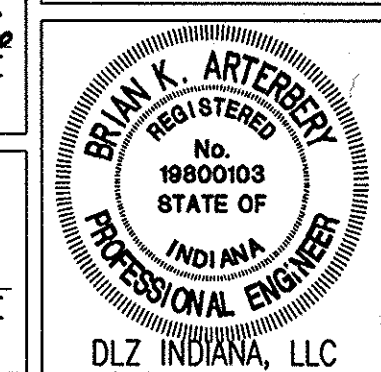
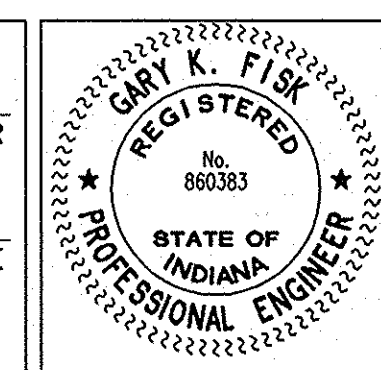
DIVISION ADMINISTRATOR

PLANS PREPARED BY: DLZ INDIANA, LLC
2211 E. JEFFERSON BLVD. (574) 236 - 4400
SOUTH BEND, INDIANA 46615 PHONE NUMBER

CERTIFIED BY: *Greg K. Fisk* 02.24.2006
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 860383 DATE

CERTIFIED BY: *Bi K. Ataly* 2/21/06
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 19800103 DATE

APPROVED FOR LETTING: *Greg K. Fisk* 3/20/06
CHIEF, DIVISION OF DESIGN DATE



INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2006
TO BE USED WITH THESE PLANS

TRAFFIC DATA		S.R. 331
A.A.D.T. (2003 PROJECTED)	27,012	V.P.D.
A.A.D.T. (2025 PROJECTED)	43,600	V.P.D.
D.H.V. (2025 PROJECTED)	4,360	V.P.H.
DIRECTIONAL DISTRIBUTION	50% NB 50% SB	
TRUCKS	5% D.H.V.	
	10% A.A.D.T.	
DESIGN DATA		
DESIGN SPEED	80	km/h
PROJECT DESIGN CRITERIA	NEW CONSTRUCTION (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL (EXPRESSWAY)	
RURAL/URBAN	URBAN (SUBURBAN)	
TERRAIN	LEVEL	
ACCESS CONTROL	FULL	

TRAFFIC DATA		MCKINLEY HIGHWAY
A.A.D.T. (2003 PROJECTED)	19,826	V.P.D.
A.A.D.T. (2025 PROJECTED)	32,000	V.P.D.
D.H.V. (2025 PROJECTED)	2,560	V.P.H.
DIRECTIONAL DISTRIBUTION	50% EB/ 50% WB	
TRUCKS	4% D.H.V.	
	5% A.A.D.T.	
DESIGN DATA		
DESIGN SPEED	80	km/h
PROJECT DESIGN CRITERIA	RECONSTRUCTION (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL	
RURAL/URBAN	URBAN (SUBURBAN)	
TERRAIN	LEVEL	
ACCESS CONTROL	NONE	

R-28625

6 of 6

Date: Feb. 20, 2006, 3:55pm User: gk Date: 02/24/06 File: I:\proj\0171\2211\2211.dwg (Civil) User: gk Model: Rtr Signal Set

ROAD FILE	
DESIGNATION	0300705
SHEETS	1 of 3
PROJECT	STP-5171(017)

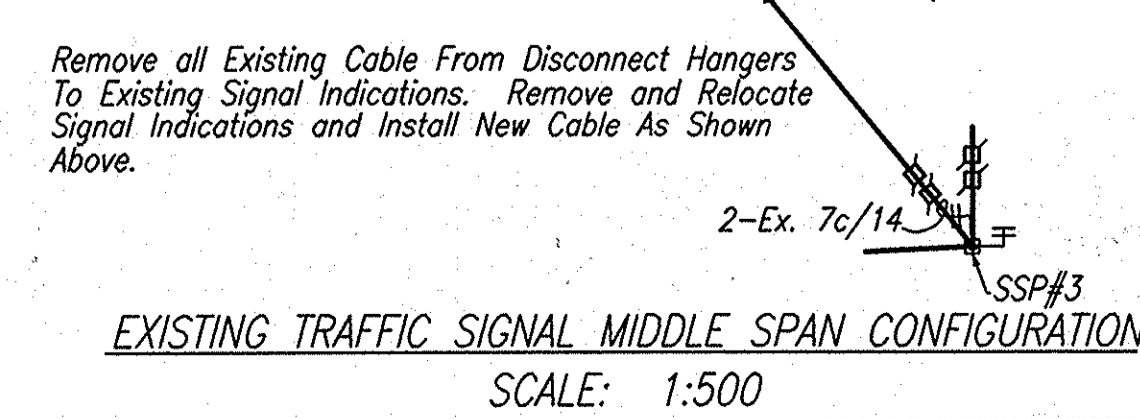
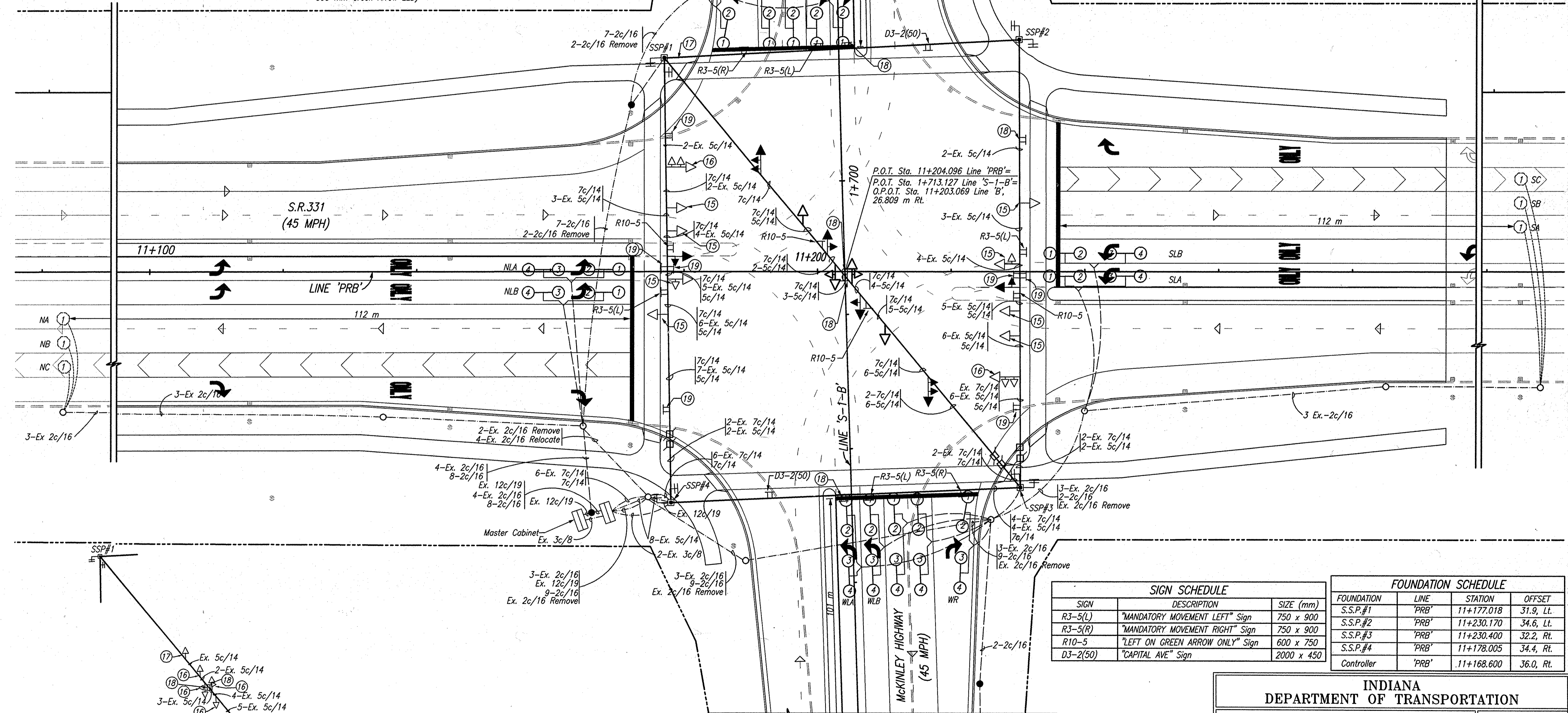
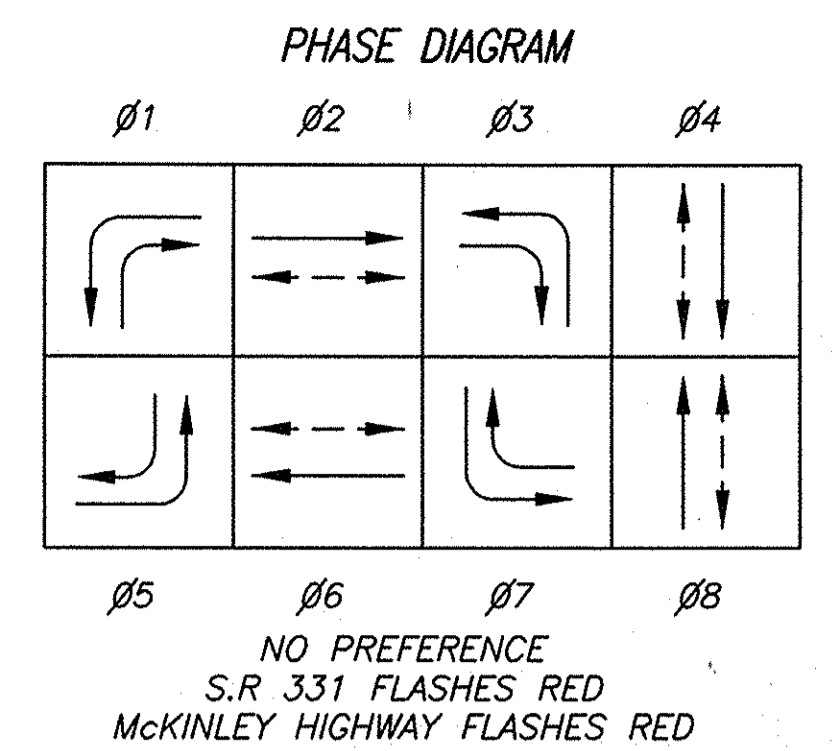
CONTRACT
R-28625

LEGEND

- ◀ Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber, 305 mm Green LED)
- ◀ Signal Indication, 5-Face (305 mm Red LED, 305 mm Amber, 305 mm Green LED, 305 mm Amber Arrow Rt., 305 mm Green Arrow Lt. LED)
- ◀ Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber Arrow Lt., 305 mm Green Arrow Lt. LED)
- Existing Signal Handhole
- Signal Handhole
- ▭ Existing Steel Strain Pole, 11 m
- ▭ Existing 8 Phase Fully Actuated Menu Driven Secondary Controller And Cabinet On "P-1" Foundation
- ▭ Sheet Sign, Mounted On Span And Cantenary, As Noted
- ▭ Existing Span, Cantenary And Tether
- ▭ Existing Span Mounted Junction Box
- ▭ Existing Pedestrian Indication, International Symbol With Push Button And R10-4b Sign
- ▭ 50 mm Galvanized Steel Conduit
- Preformed Loop Detector (1.8 m x 1.8 m), 4 Turns, Series
- Existing Preformed Loop Detector (Use In Place)
- Existing 50 mm Galvanized Steel Conduit
- ▷ Snowplowable, Raised Pavement Marker, One Way, White
- ⑮ Existing Signal Head, Use In Place
- ⑯ Relocate Existing Signal Head
- ⑰ Remove Existing 3 Section Signal Indication
- ⑱ Relocate Existing Sign
- ⑲ Existing Sign, Use In Place.
- ◀ Existing Traffic Signal Indication, 5-Face (305 mm Red LED, 305 mm Amber, 305 mm Green LED, 305 mm Amber Arrow, 305 mm Red Arrow LED)
- ◀ Existing Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber, 305 mm Green LED)
- ◀ Existing Traffic Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber Arrow, 305 mm Green Arrow LED)
- ◀ Relocated Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber, 305 mm Green LED)
- ◀ Relocated Traffic Signal Indication, 3-Face (305 mm Red LED, 305 mm Amber Arrow, 305 mm Green Arrow LED)

LANE	TAG NUMBER
NLA	NLA5-1,2,3,4
NLB	NLB5-1,2,3,4
NA	NA2-1
NB	NB2-1
NC	NC2-1
WLA	WLA3-1,2,3,4
WLB	WLB3-1,2,3,4
WA	WA8-1,2,3,4
WB	WB8-1,2,3,4
WA	WA8-5
WB	WB8-5
WR	WR8-1

LANE	TAG NUMBER
SLA	SLA1-1,2,3,4
SLB	SLB1-1,2,3,4
SA	SA6-1
SB	SB6-1
SC	SC6-1
ELA	ELA7-1,2,3,4
ELB	ELB7-1,2,3,4
EA	EAA-1,2,3,4
EB	EB4-1,2,3,4
EA	EAA-5
EB	EB4-5
ER	ER4-1



NOTES

1. A New Detector Card Rack Shall Be Wired Inside The Existing Cabinet Which Shall Supplement The Existing Card Rack. The Cost Of The New Card Rack Shall Be Included In The Cost Of The Detector Amplifiers.

SIGN SCHEDULE

SIGN	DESCRIPTION	SIZE (mm)
R3-5(L)	"MANDATORY MOVEMENT LEFT" Sign	750 x 900
R3-5(R)	"MANDATORY MOVEMENT RIGHT" Sign	750 x 900
R10-5	"LEFT ON GREEN ARROW ONLY" Sign	600 x 900
D3-2(50)	"CAPITAL AVE" Sign	2000 x 450

FOUNDATION SCHEDULE

FOUNDATION	LINE	STATION	OFFSET
S.S.P.#1	"PRB"	11+177.018	31.9, Lt.
S.S.P.#2	"PRB"	11+230.170	34.6, Lt.
S.S.P.#3	"PRB"	11+230.400	32.2, Rt.
S.S.P.#4	"PRB"	11+178.005	34.4, Rt.
Controller	"PRB"	11+168.600	36.0, Rt.

INDIANA DEPARTMENT OF TRANSPORTATION

DESIGNER: *B. K. Anty* DATE: 3/27/06
 DESIGN ENG. DATE: / /

S.R. 331 (CAPITAL AVENUE) AND MCKINLEY HIGHWAY TRAFFIC SIGNAL MODERNIZATION
 ST. JOSEPH COUNTY
 LAPORTE DISTRICT

SCALE: 1:300
 CONTRACT NO. R-28625
 COMMISSION NO. 01-071-203

DES. NO. 0300705 PROJECT NO. STP-5171(017)

DESIGN SPEED:
 S.R. 331: 80 kph
 MCKINLEY HIGHWAY 80 kph
 POSTED SPEED AS NOTED ABOVE ON PLANS

Date: Mar 27, 2006, 3:43pm User ID: Ball
 File: M:\p\010112218\csh\sig\S-Line Set\McKinley Hwy Set - Sign And Signal\22185630-SIGNAL.DWG Model Tab: Signal