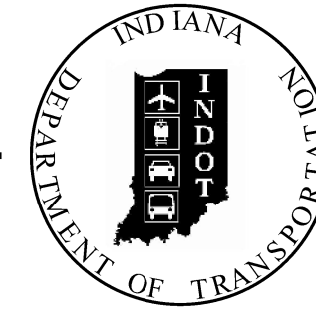


PROJECT	DESIGNATION
1702882	1702882
CONTRACT	BRIDGE FILE
R-41488	036-68-10346

INDIANA DEPARTMENT OF TRANSPORTATION



STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
036-68-10346	CONT. REINFORCED CONCRETE SLAB BRIDGE	3 SPANS: 25'-0", 34'-6" & 25'-0" NO SKEW	US 36 OVER MUD CREEK	901+84.50 LINE "B"

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
2000588	US 36, HMA Overlay, Preventive Maintenance, SR 1 East Junction to US 27 (Lead)
2000560	US 27, HMA Overlay, Preventive Maintenance, 6.43 mi. N. of I-70 (NCL Foutain City) to 0.73 mi. S. of US 36 (Roark St.)
1702882	US 36 Over Mud Creek, Bridge Replacement, 1.59 mi. West of US 27

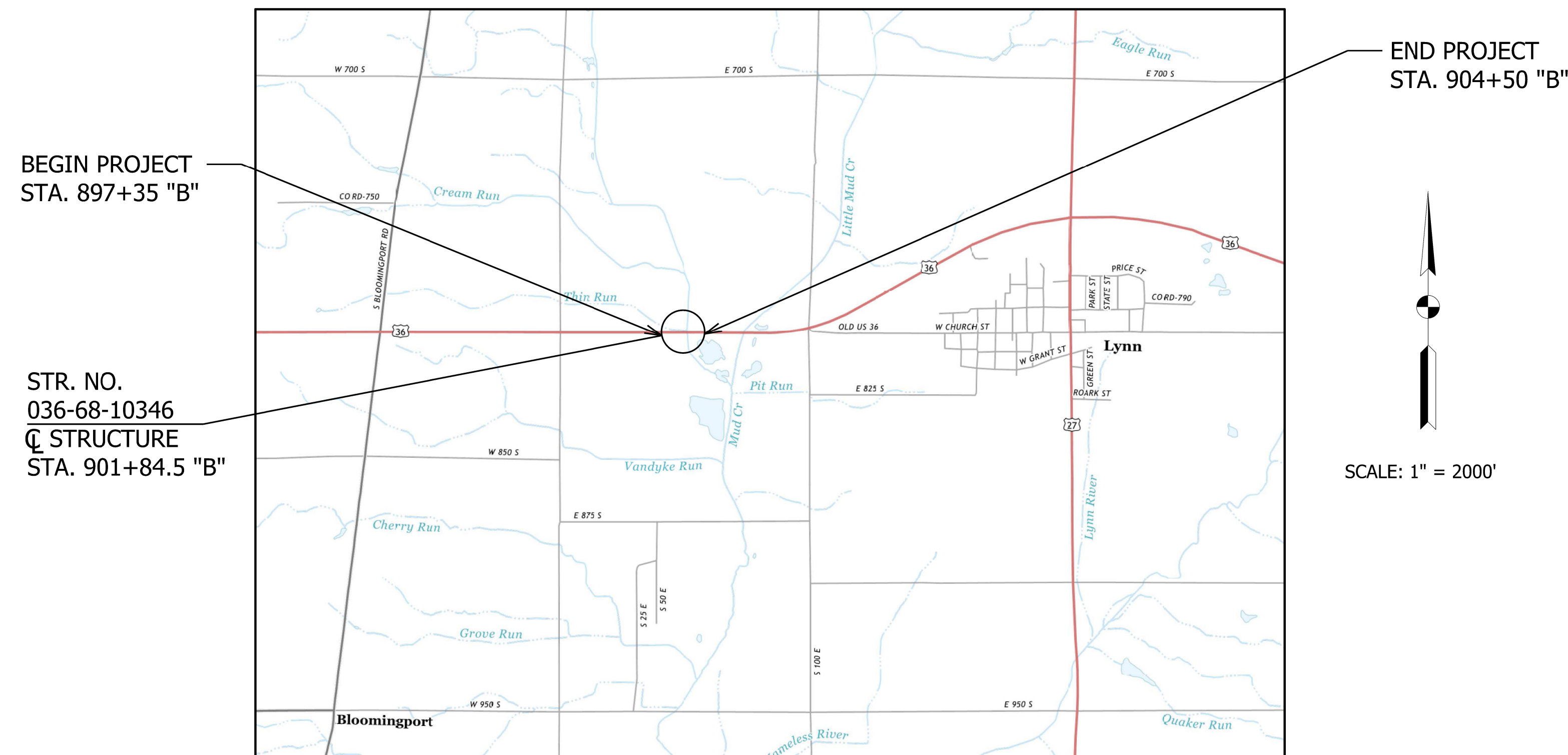
TRAFFIC DATA		
A.A.D.T.	(2023)	2,745 V.P.D.
A.A.D.T.	(2043)	3,111 V.P.D.
D.H.V	(2043)	266 V.P.H.
DIRECTIONAL DISTRIBUTION		51.45 %
TRUCKS		26.01 % A.A.D.T. 22.03 % D.H.V.

DESIGN DATA	
DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	STATE COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

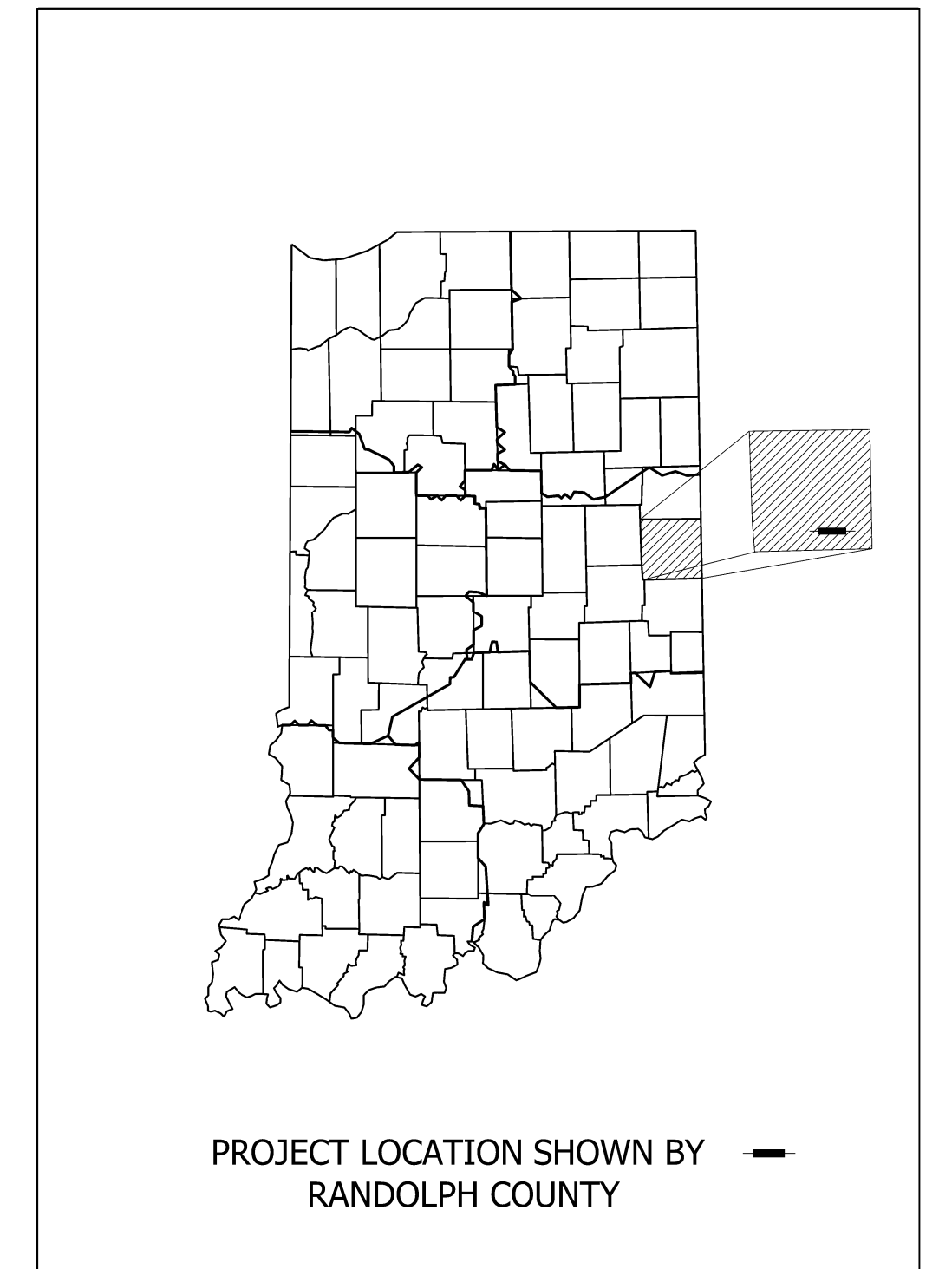
BRIDGE PLANS FOR SPANS OVER 20 FEET

ROUTE: US 36 AT: RP 130+61
 PROJECT NO. 1702882 P.E.
 1702882 R/W
 1702882 CONST.

BRIDGE REPLACEMENT ON US 36 OVER MUD CREEK.
 LOCATED APPROXIMATELY 1.59 MILES WEST OF US 27 IN SECTION 33, T-19-N, R-14-E & SECTION 4, T-18-N, R-14-E IN WASHINGTON TOWNSHIP, RANDOLPH COUNTY, INDIANA.



LOCATION MAP



LATITUDE: 40° 02' 55" N LONGITUDE: 84° 58' 07" W

BRIDGE LENGTH:	0.016	MI.
ROADWAY LENGTH:	0.100	MI.
TOTAL LENGTH:	0.116	MI.
MAX. GRADE:	0.60%	%

HUC: 050800030200

INDIANA DEPARTMENT OF TRANSPORTATION
 STANDARD SPECIFICATIONS DATED 2022
 TO BE USED WITH THESE PLANS



Michael Baker International
 3925 River Crossing Parkway, Suite 150
 Indianapolis, IN 46240
 Tel: 317-663-8430 Fax: 317-663-8410
 www.mbakerial.com

**Preliminary Plans
 NOT FOR CONSTRUCTION**

PLANS PREPARED BY: Michael Baker International 317-663-8430 PHONE NUMBER
 CERTIFIED BY: _____ DATE
 APPROVED FOR LETTING: _____ INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE	
036-68-10346	
DESIGNATION	
1702882	
SURVEY BOOK	SHEETS
-	1 of 27
CONTRACT	PROJECT
R-41488	1702882

UTILITIES

ELECTRIC:

AMERICAN ELECTRIC POWER
J. JAY MARLOW
(260) 408-3447

WHITewater VALLEY R.E.M.C.
WENDE SHIPLEY
(765) 458-5171 EXT. 242
102 BROWNSVILLE AVENUE
LIBERTY, IN 47353
wshipley@wwwremc.com

GAS:

OHIO VALLEY GAS CORP. (WINCHESTER)
GREG BAILEY
111 ENERGY PARK DRIVE
WINCHESTER, IN 47394
(765) 584-6842 EXT. 111
gbailey@ovgc.com

PIPELINE:

ANR PIPELINE COMPANY (SULPHUR SPRINGS)
700 LOUISIANA STREET
HOUSTON, TX 77002
(832) 320-5000

TELEPHONE:

FRONTIER
JOE SARLL - DIRECTOR OF OSP ENGINEERING
8001 WEST JEFFERSON BOULEVARD
FORT WAYNE, IN 46804
(260) 461-3324, (260) 436-2369

WATER AND SEWER:

LYNN WATER & SEWAGE COMPANY
MIKE STRALEY
103 SOUTH MAIN, P.O. BOX 65
LYNN, IN 47355

INDEX

SHEET NO.	SUBJECT
1	TITLE
2	INDEX
3-5	TYPICAL CROSS SECTIONS
6	PLAT NO. 1
7-8	MAINTENANCE OF TRAFFIC - DETOUR
9	PLAN & PROFILE LINE "B"
10-11	EROSION CONTROL DETAILS
12	PUMP-AROUND & DEWATERING DETAILS
13-14	SOIL BORINGS
15	LAYOUT
16-17	GENERAL PLAN
18	BRIDGE SUMMARY
19-20	ROADWAY SUMMARY & MISCELLANEOUS TABLES
21-26	CROSS SECTIONS

REVISIONS

SHEET NO.	DATE	REVISED

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**Preliminary Plans
NOT FOR CONSTRUCTION**

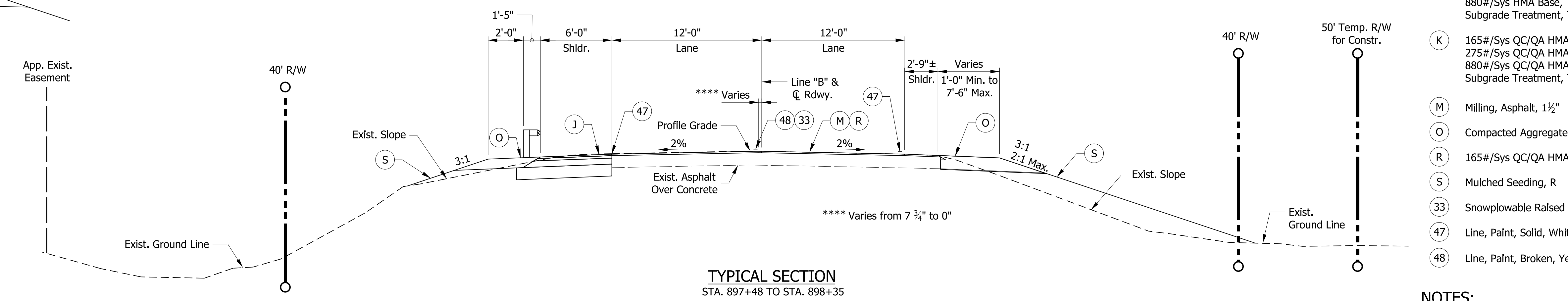
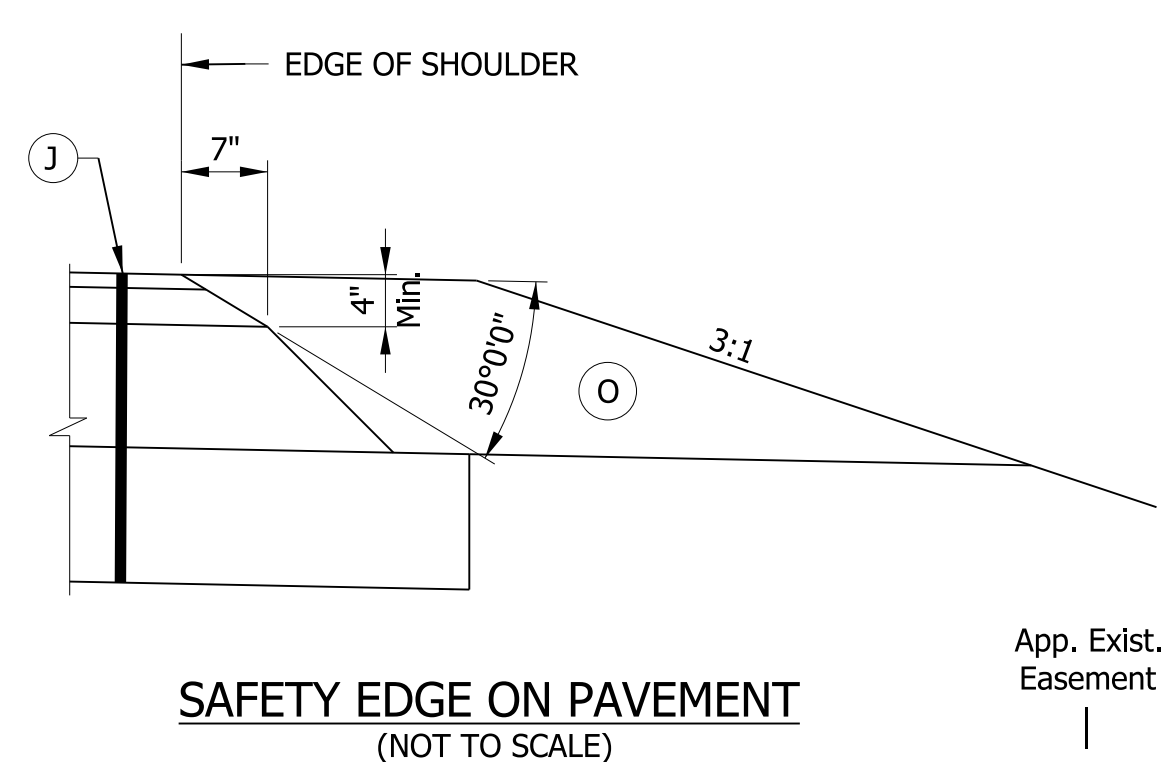
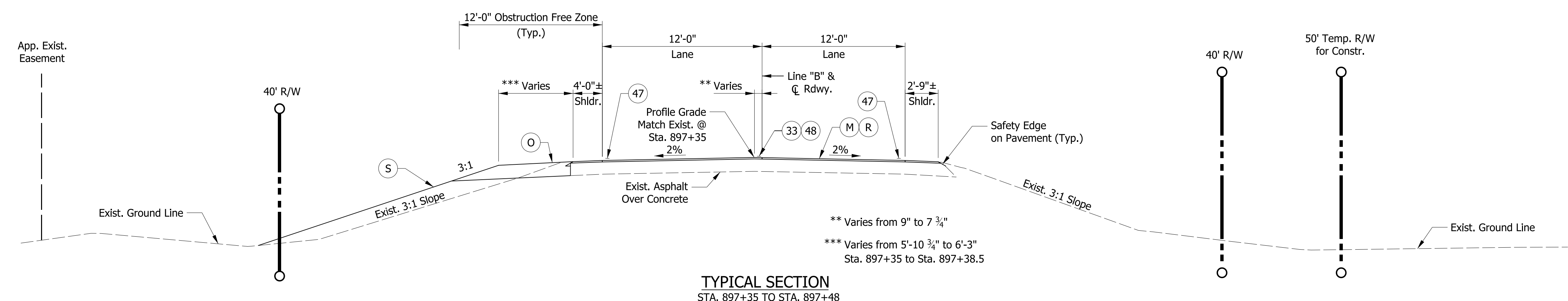
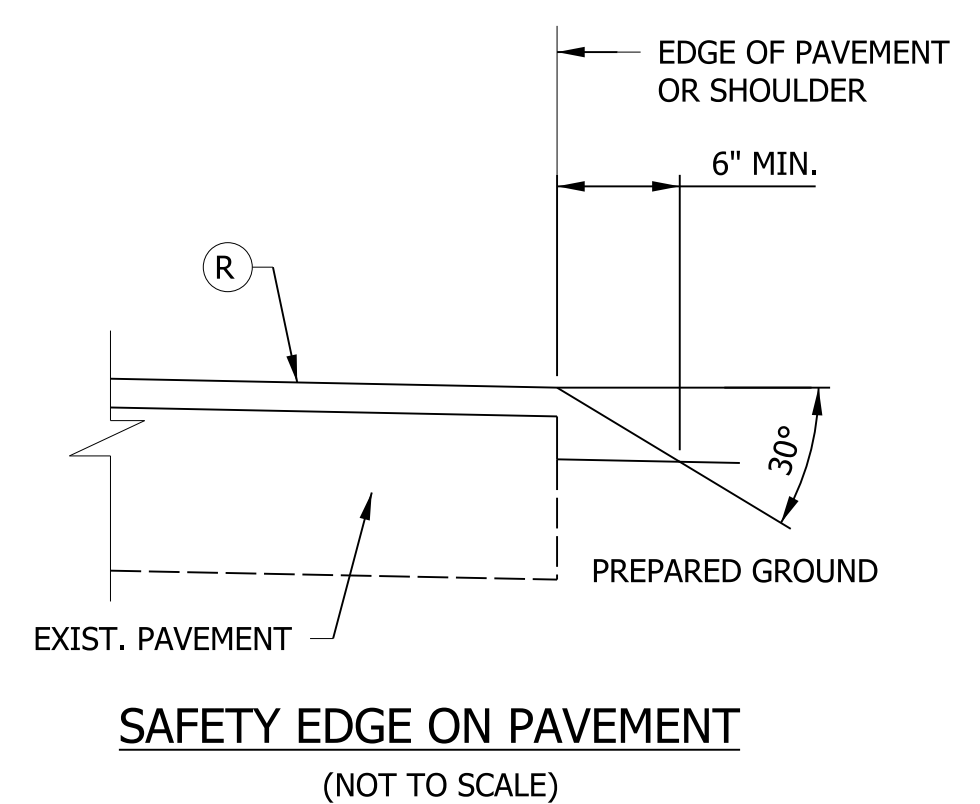
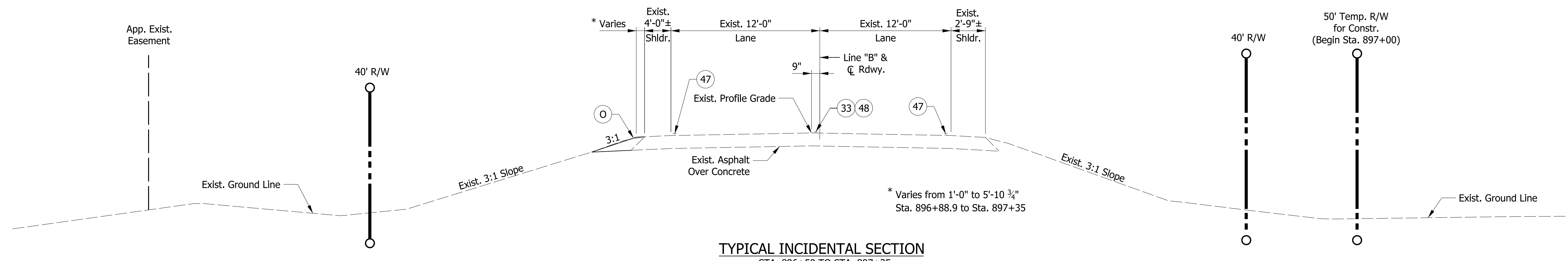
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DESIGNED: JPD	DRAWN: JLR	
CHECKED: CAB	CHECKED: JPD	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

INDEX

SCALE	BRIDGE FILE
N/A	36-68-10346
SCALE	DESIGNATION
N/A	1702882
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
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- LEGEND**
- (F) Seed Mixture, Floodplain
 - (J) 165#/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on Widening with HMA, Type C consisting of: 275#/Sys HMA Intermediate, Type C on 880#/Sys HMA Base, Type C on Subgrade Treatment, Type ID
 - (K) 165#/Sys QC/QA HMA, 3, 70, Surface, 9.5 mm on 275#/Sys QC/QA HMA, 3, 70, Intermediate, 19.0 mm on 880#/Sys QC/QA HMA, 3, 64, Base, 25.0 mm on Subgrade Treatment, Type ID
 - (M) Milling, Asphalt, 1 1/2"
 - (O) Compacted Aggregate No. 53 for Shoulders, 12"
 - (R) 165#/Sys QC/QA HMA, 3, 70, Surface 9.5 mm
 - (S) Mulched Seeding, R
 - (33) Snowplowable Raised Pavement Markings
 - (47) Line, Paint, Solid, White, 4 in.
 - (48) Line, Paint, Broken, Yellow, 4 in.

- NOTES:**
1. Provide Erosion Control Blankets for slopes steeper than 3:1.
 2. Existing mainline composed of asphalt over concrete pavement.

DATE	REVISION

**Preliminary Plans
NOT FOR CONSTRUCTION**

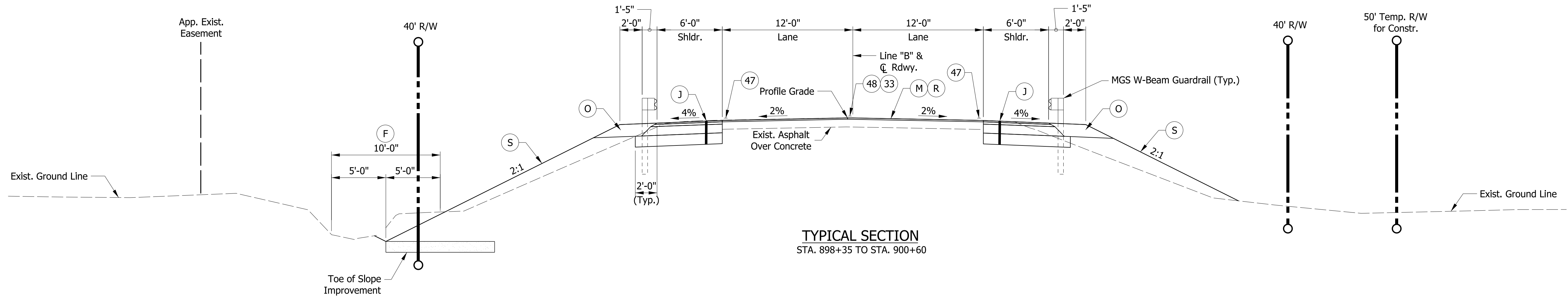
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DESIGNED: JPD	DRAWN: JLR	
CHECKED: CAB	CHECKED: JPD	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

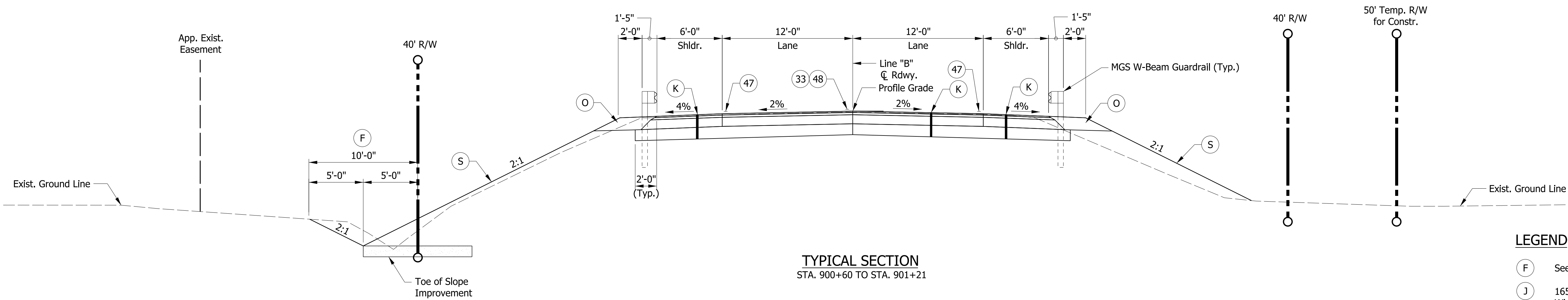
TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	36-68-10346
VERTICAL SCALE	DESIGNATION
	1702882
SURVEY BOOK	SHEETS
	3 OF 27
CONTRACT	PROJECT
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TYPICAL SECTION
STA. 898+35 TO STA. 900+60



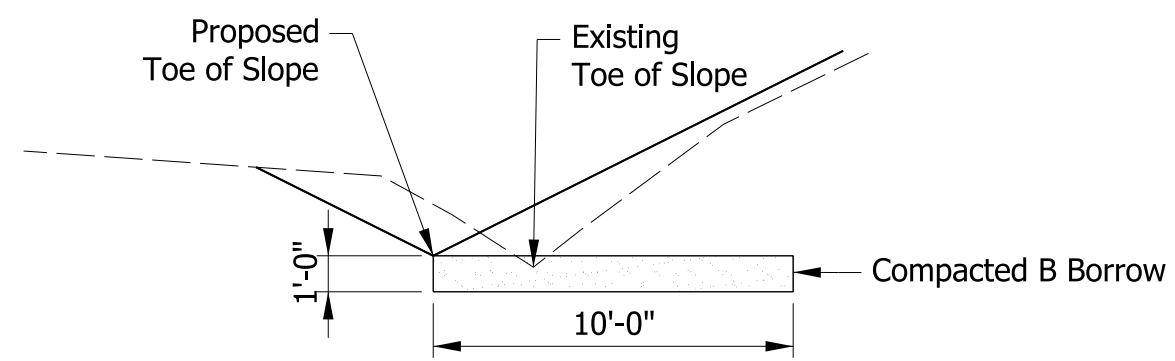
TYPICAL SECTION
STA. 900+60 TO STA. 901+21

LEGEND

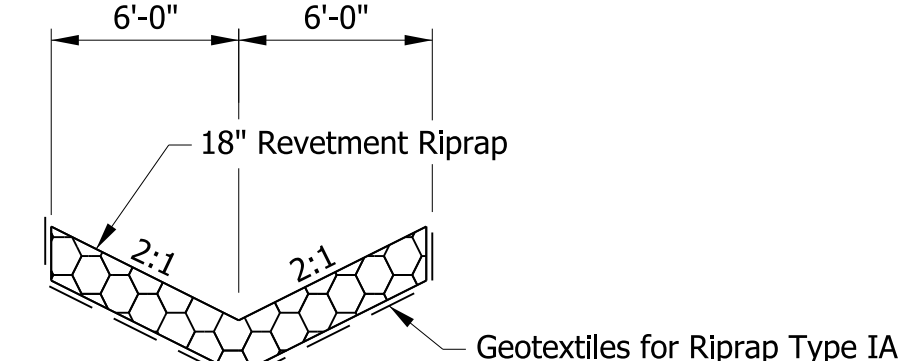
- (F) Seed Mixture, Floodplain
- (J) 165#/Sys QC/QA HMA, 3, 70, Surface, 9.5 mm on Widening with HMA, Type C consisting of: 275#/Sys HMA Intermediate, Type C on 880#/Sys HMA Base, Type C on Subgrade Treatment, Type ID
- (K) 165#/Sys QC/QA HMA, 3, 70, Surface, 9.5 mm on 275#/Sys QC/QA HMA, 3, 70, Intermediate, 19.0 mm on 880#/Sys QC/QA HMA, 3, 64, Base, 25.0 mm on Subgrade Treatment, Type ID
- (M) Milling, Asphalt, 1 1/2"
- (O) Compacted Aggregate No. 53 for Shoulders, 12"
- (R) 165#/Sys QC/QA HMA, 3, 70, Surface, 9.5 mm
- (S) Mulched Seeding, R
- (33) Snowplowable Raised Pavement Marker
- (47) Line, Paint, Solid, White, 4 in.
- (48) Line, Paint, Broken, Yellow, 4 in.

NOTES:

1. Provide Erosion Control Blankets for slopes steeper than 3:1.
2. Existing mainline composed of asphalt over concrete pavement.



TOE OF SLOPE IMPROVEMENT
STA. 898+30 to STA. 901+19



'V' RIPRAP TYPICAL SECTION
STA. 901+19 TO STA. 901+50 LT.

DATE	REVISION

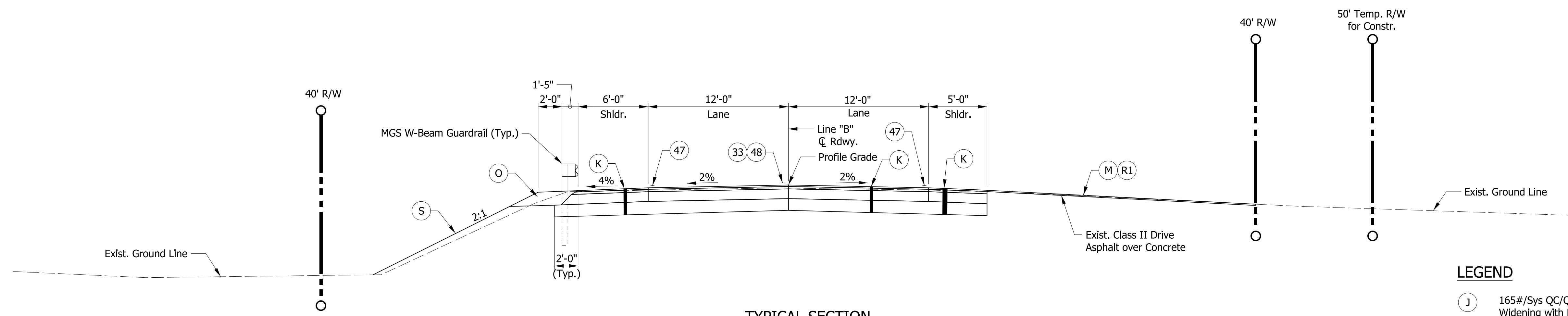
**Preliminary Plans
NOT FOR CONSTRUCTION**

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JPD	DRAWN: JLR	
CHECKED: CAB	CHECKED: JPD	

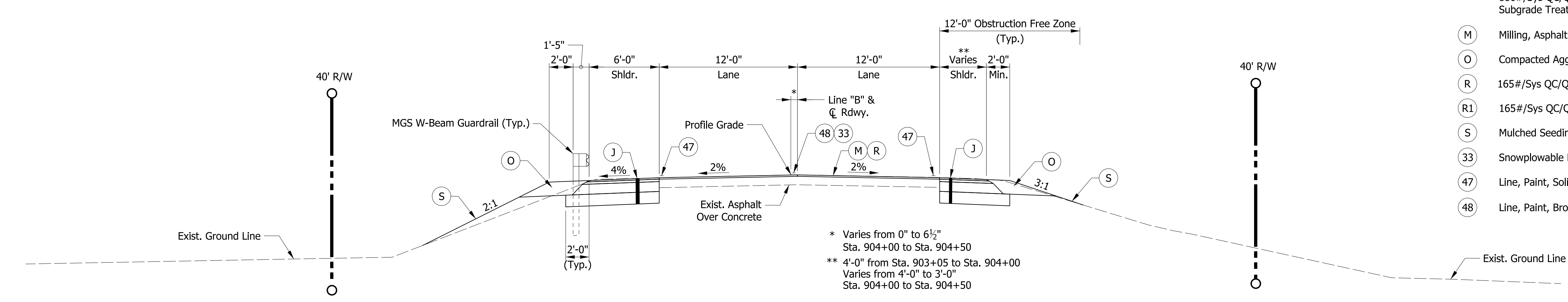
**INDIANA
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

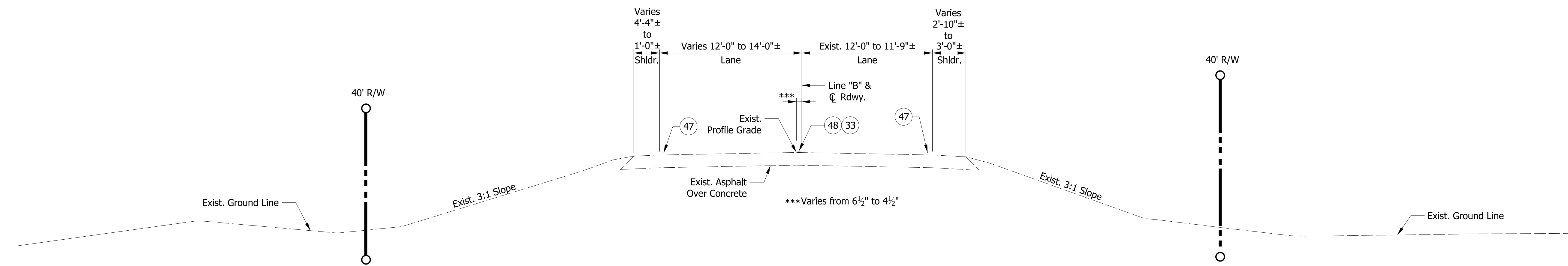
HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	36-68-10346
VERTICAL SCALE	DESIGNATION
	1702882
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TYPICAL SECTION
STA. 902+48 TO STA. 903+00



TYPICAL SECTION
STA. 903+00 TO STA. 904+50



TYPICAL INCIDENTAL SECTION
STA. 904+50 TO STA. 905+50 (EAST APPROACH)

LEGEND

- (J) 165#/Sys QC/QA HMA, 3, 70, Surface, 9.5 mm on Widening with HMA, Type C consisting of: 275#/Sys HMA Intermediate, Type C on 880 #/Sys HMA Base, Type C on Subgrade Treatment, Type ID
- (K) 165#/Sys QC/QA HMA, 3, 70, Surface, 9.5 mm on 275#/Sys QC/QA HMA, 3, 70, Intermediate, 19.0 mm on 880#/Sys QC/QA HMA, 3, 64, Base, 25.0 mm on Subgrade Treatment, Type ID
- (M) Milling, Asphalt, 1 1/2"
- (O) Compacted Aggregate No. 53 for Shoulders, 12"
- (R) 165#/Sys QC/QA HMA, 3, 70, Surface, 9.5 mm
- (R1) 165#/Sys QC/QA HMA, 3, 70, Surface 9.5 mm for Drive
- (S) Mulched Seeding, R
- (33) Snowplowable Raised Pavement Markings
- (47) Line, Paint, Solid, White, 4 in.
- (48) Line, Paint, Broken, Yellow, 4 in.

NOTES:

1. Provide Erosion Control Blankets for slopes steeper than 3:1.
2. Existing mainline composed of asphalt over concrete pavement.

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DATE	REVISION

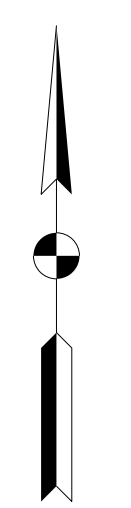
**Preliminary Plans
NOT FOR CONSTRUCTION**

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JPD	DRAWN: JLR	
CHECKED: CAB	CHECKED: JPD	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	36-68-10346
VERTICAL SCALE	DESIGNATION
	1702882
SURVEY BOOK	SHEETS
	5 OF 27
CONTRACT	PROJECT
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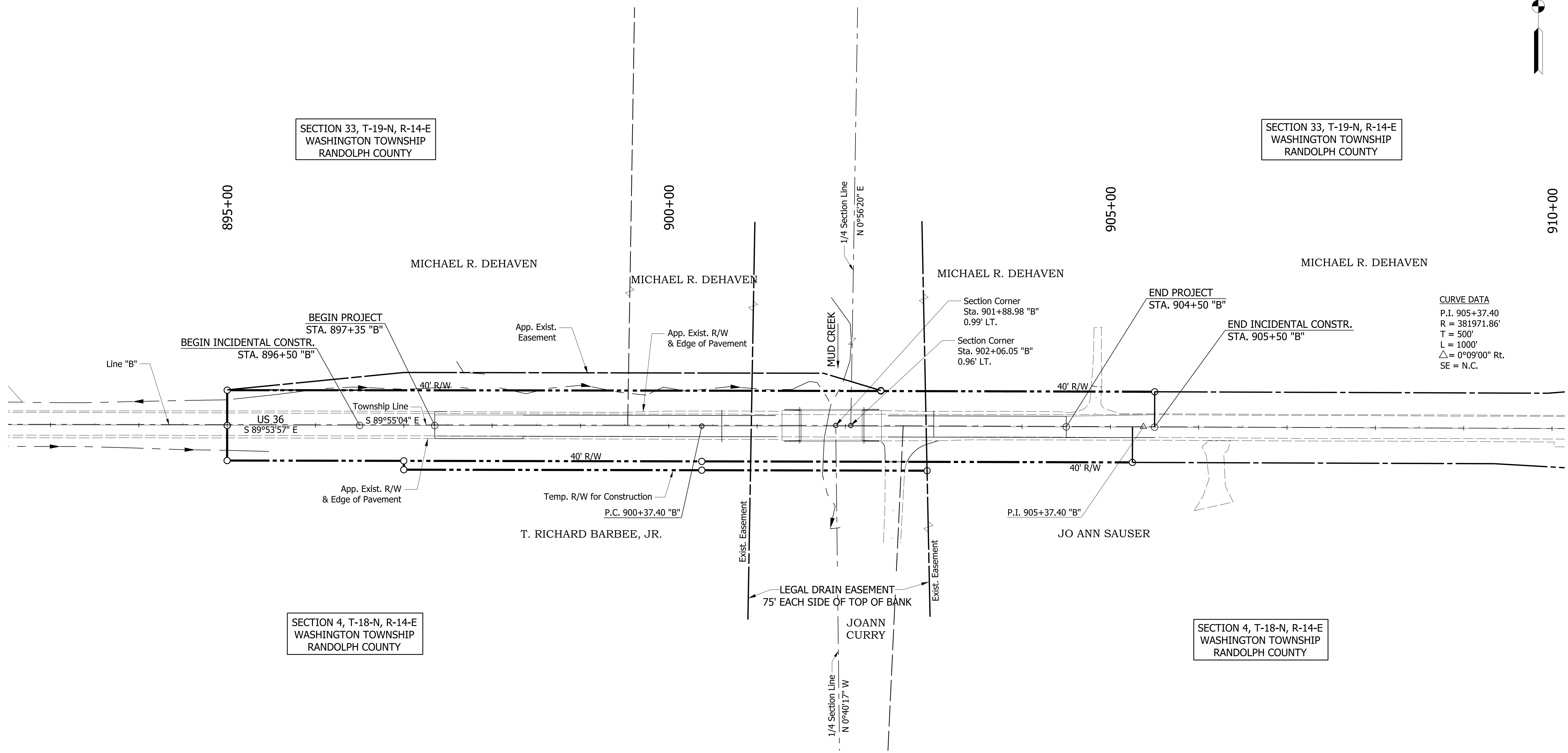


SECTION 33, T-19-N, R-14-E
WASHINGTON TOWNSHIP
RANDOLPH COUNTY

SECTION 33, T-19-N, R-14-E
WASHINGTON TOWNSHIP
RANDOLPH COUNTY

SECTION 4, T-18-N, R-14-E
WASHINGTON TOWNSHIP
RANDOLPH COUNTY

SECTION 4, T-18-N, R-14-E
WASHINGTON TOWNSHIP
RANDOLPH COUNTY



CURVE DATA
 P.I. 905+37.40
 R = 381971.86'
 T = 500'
 L = 1000'
 $\Delta = 0^{\circ}09'00''$ Rt.
 SE = N.C.

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DATE	REVISION

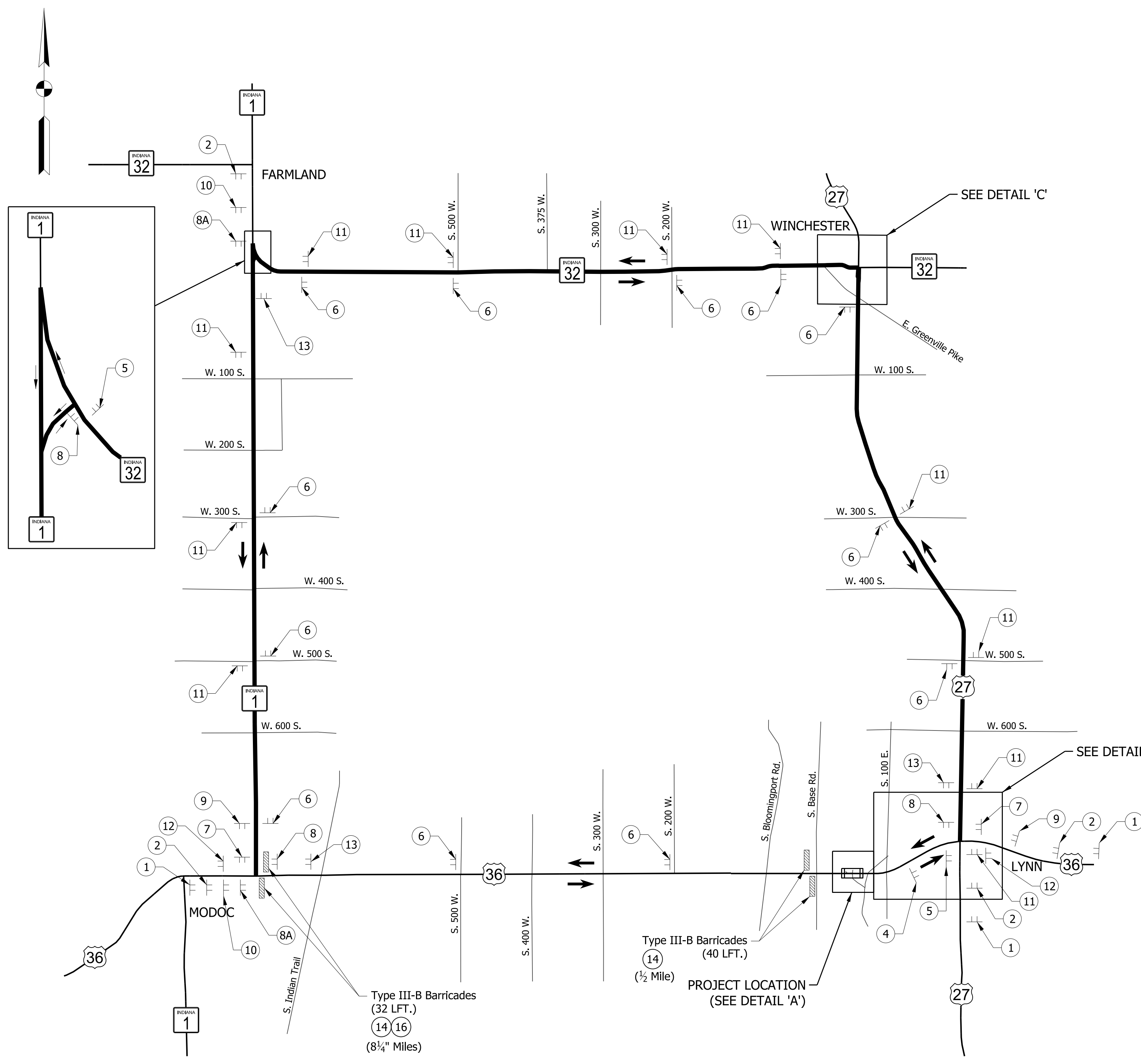
**Preliminary Plans
NOT FOR CONSTRUCTION**

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JPD	DRAWN: JLR	
CHECKED: CAB	CHECKED: JPD	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

PLAT NO. 1

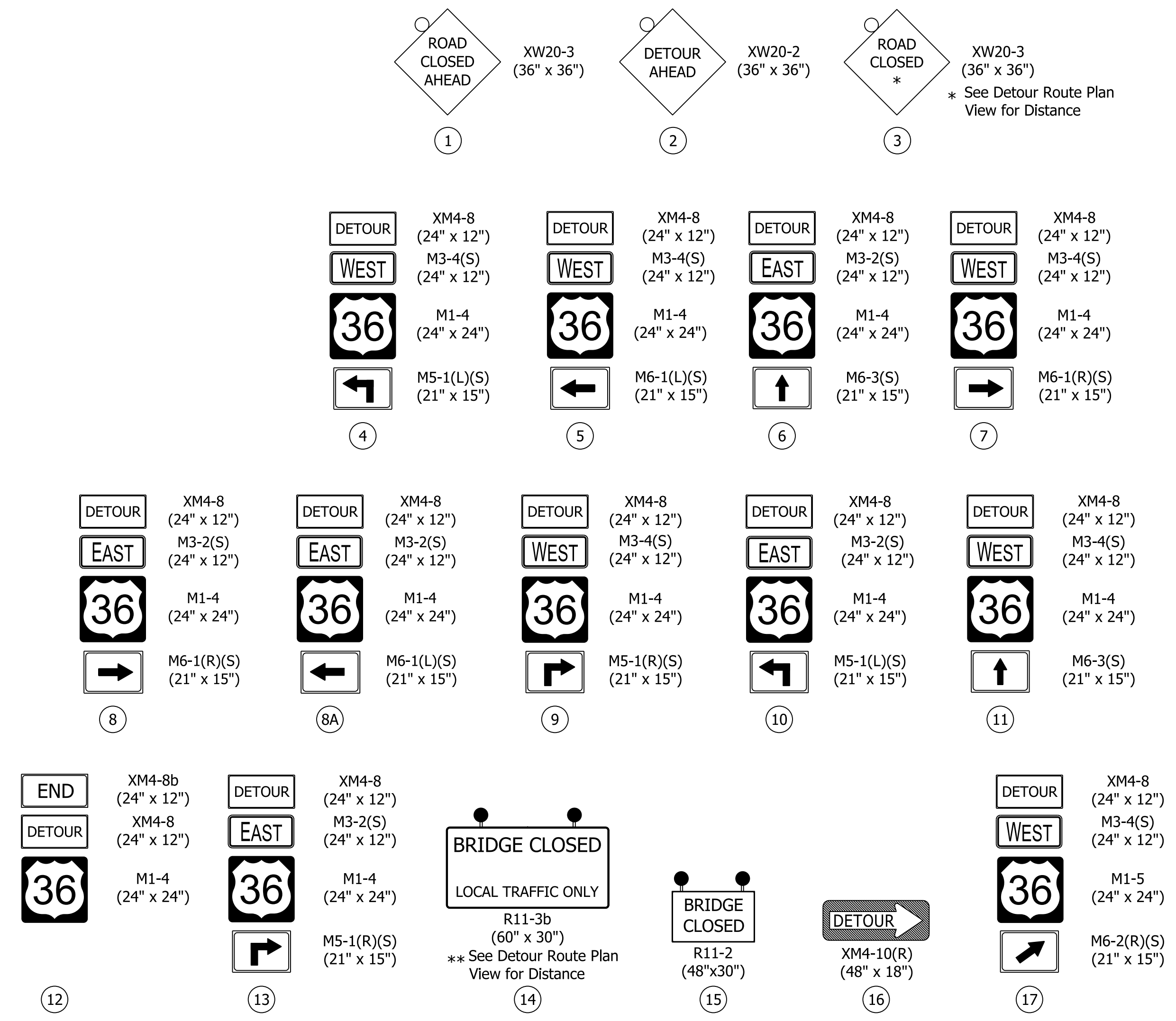
HORIZONTAL SCALE	BRIDGE FILE
1" = 60'	36-68-10346
VERTICAL SCALE	DESIGNATION
	1702882
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DETOUR PLAN
SCALE: 1" = 5000'

DETOUR LEGEND

	CONSTRUCTION SIGN WITH TYPE "A" LIGHT		DIRECTION OF DETOUR
	CONSTRUCTION SIGN		HIGH INTENSITY LIGHT
	BARRICADE TYPE "III-A" OR "III-B" AS NOTED		LOW INTENSITY LIGHT
	DETOUR ROUTE		



MAINTENANCE OF TRAFFIC QUANTITIES		
DESCRIPTION	TOTAL	UNITS
MAINTAINING TRAFFIC	1	LS
ROAD CLOSURE SIGN ASSEMBLY	14	EACH
DETOUR ROUTE MARKER ASSEMBLY	54	EACH
CONSTRUCTION SIGN, A	19	EACH
BARRICADE, III-A	88	LFT
BARRICADE, III-A	208	LFT

- NOTES:**
1. Driveway access to remain open at all times.
 2. Refer to INDOT Standard Drawings E 801-TCDT, E 801-TCSN, E 801-TCLG For Further Details of Traffic Control Signs.
 3. See Sheet 6 for Details 'A' thru 'C'.

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DATE	REVISION

**Preliminary Plans
NOT FOR CONSTRUCTION**

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JPD	DRAWN: JLR	
CHECKED: CAB	CHECKED: JPD	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - DETOUR

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	36-68-10346
	DESIGNATION
	1702882
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	7 OF 27
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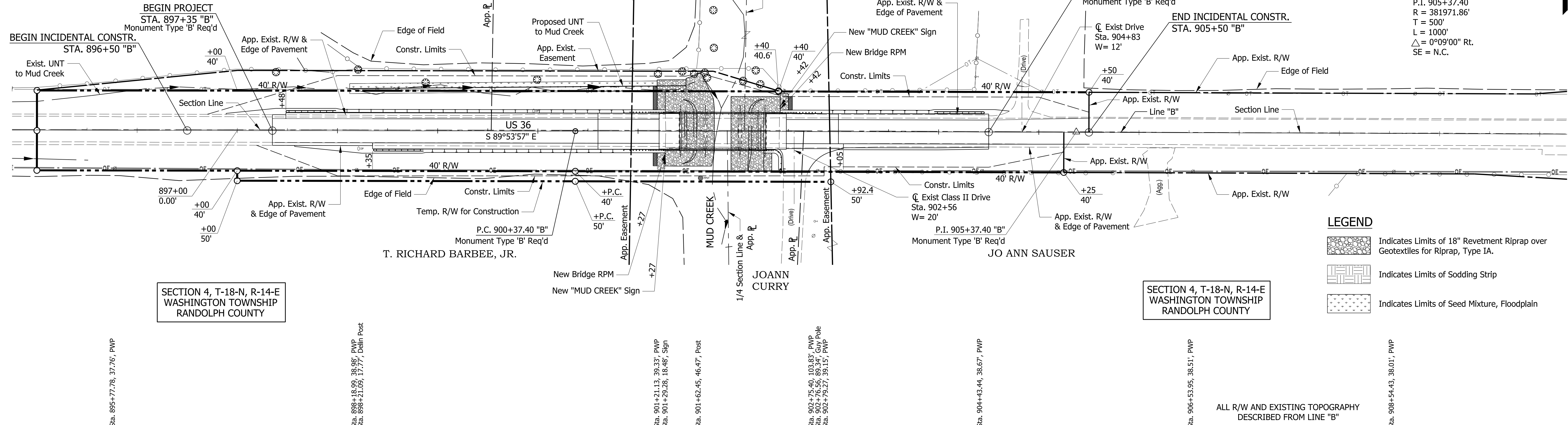
910

MICHAEL R. DEHAVEN

SECTION 33, T-19-N, R-14-E WASHINGTON TOWNSHIP RANDOLPH COUNTY

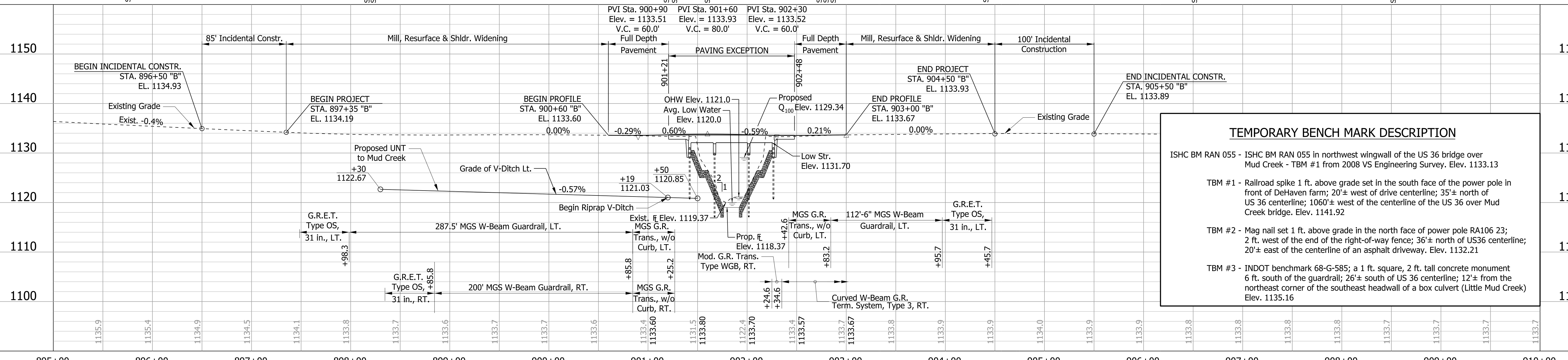
SECTION 33, T-19-N, R-14-E WASHINGTON TOWNSHIP RANDOLPH COUNTY

CURVE DATA
P.I. 905+37.40
R = 381971.86'
T = 500'
L = 1000'
Δ = 0°09'00" Rt.
SE = N.C.



- LEGEND**
- Indicates Limits of 18" Revetment Riprap over Geotextiles for Riprap, Type IA.
 - Indicates Limits of Sodding Strip
 - Indicates Limits of Seed Mixture, Floodplain

ALL R/W AND EXISTING TOPOGRAPHY DESCRIBED FROM LINE "B"



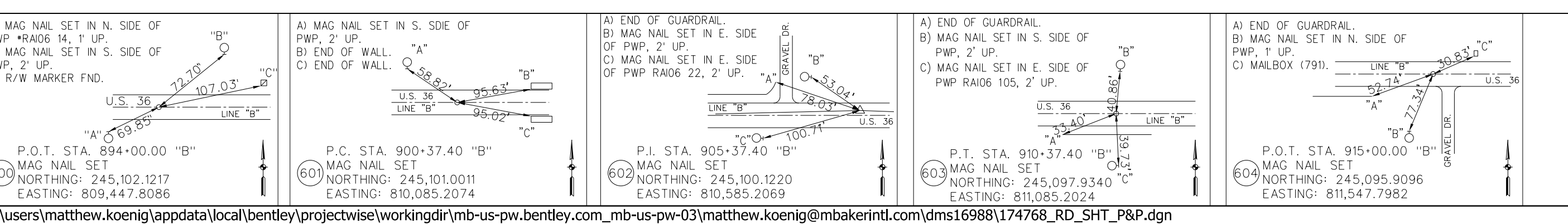
TEMPORARY BENCHMARK DESCRIPTION

ISHC BM RAN 055 - ISHC BM RAN 055 in northwest wingwall of the US 36 bridge over Mud Creek - TBM #1 from 2008 VS Engineering Survey. Elev. 1133.13

TBM #1 - Railroad spike 1 ft. above grade set in the south face of the power pole in front of DeHaven farm; 20± west of drive centerline; 35± north of US 36 centerline; 1060± west of the centerline of the US 36 over Mud Creek bridge. Elev. 1141.92

TBM #2 - Mag nail set 1 ft. above grade in the north face of power pole RA106 23; 2 ft. west of the end of the right-of-way fence; 36± north of US36 centerline; 20± east of the centerline of an asphalt driveway. Elev. 1132.21

TBM #3 - INDOT benchmark 68-G-585; a 1 ft. square, 2 ft. tall concrete monument 6 ft. south of the guardrail; 26± south of US 36 centerline; 12± from the northeast corner of the southeast headwall of a box culvert (Little Mud Creek) Elev. 1135.16



DESIGNED: LDW/CMB	DRAWN: JLR
CHECKED: JPD	CHECKED: JPD

INDIANA DEPARTMENT OF TRANSPORTATION

DESIGN ENGINEER: _____ DATE: _____

BRIDGE FILE: 036-68-03477C

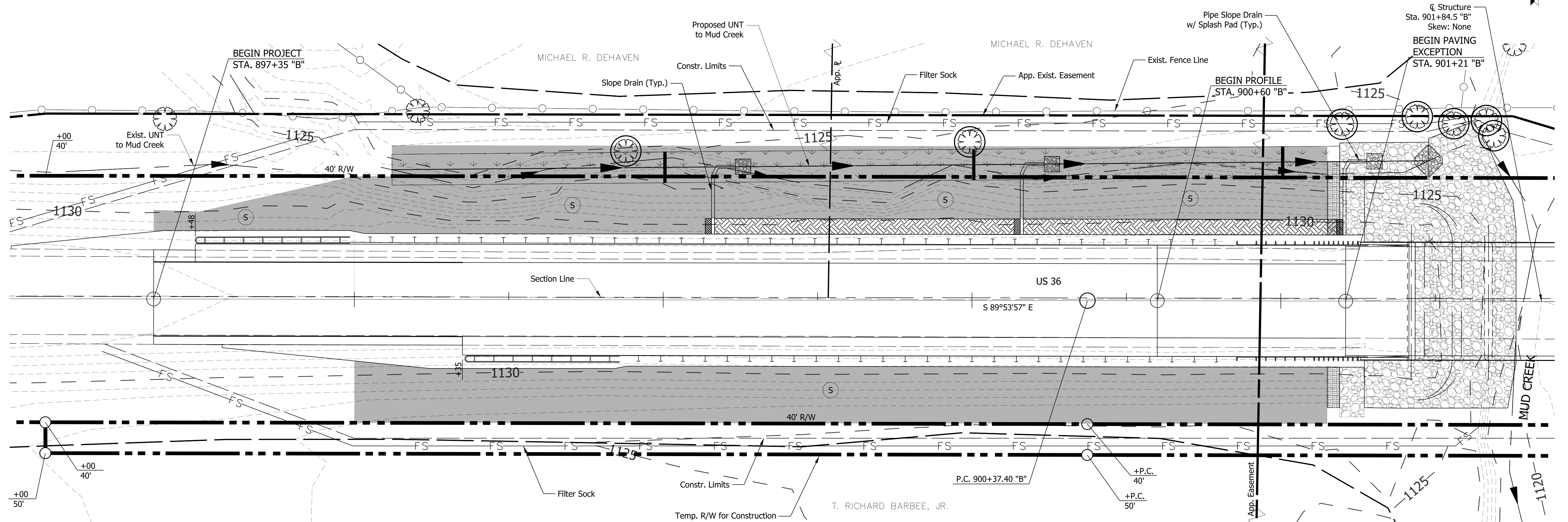
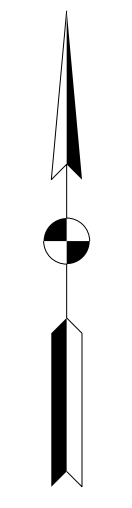
DESIGNATION: 1702882

SHEETS: 9 of 27

PROJECT: 1702882

HORIZONTAL SCALE	1"=50'
VERTICAL SCALE	1"=10'
SURVEY BOOK	R-41488

897 898 899 900 901



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LEGEND

- | | |
|---|-----------------------------|
| Seed Mixture, Floodplain | Riprap Check Dam |
| 18" R/W | Check Dam, Traversable |
| Permanent, Seed Mixture R w/ Mulching Material & Fertilizer | Temporary Diversion Channel |
| Tree (To Be Removed) | Compacted Earth Dike |
| Direction of Flow | Sodding |
| | Filter Sock |
| | Erosion Control Blankets |

NOTES

1. Construction Entrance per INDOT Std. Dwg. E 205-TECD-12.
2. Provide Erosion Control Blankets for side slopes steeper than 3:1.
3. Contractor to provide Temporary Seeding and Mulch for disturbed areas.
4. For Erosion Control Quantities, see sheet 20.
5. For Temporary Slope Drain Details and Temporary Erosion Control Slope Diversion Interceptor Details, see INDOT Std. Dwg. E 205-TECS-02 thru 04.

DATE	REVISION

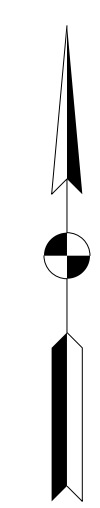
**Preliminary Plans
NOT FOR CONSTRUCTION**

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JPD	DRAWN: JLR	
CHECKED: CAB	CHECKED: JPD	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	36-68-10346
VERTICAL SCALE	DESIGNATION
	1702882
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	10 OF 27
CONTRACT	PROJECT
R-41488	1702882

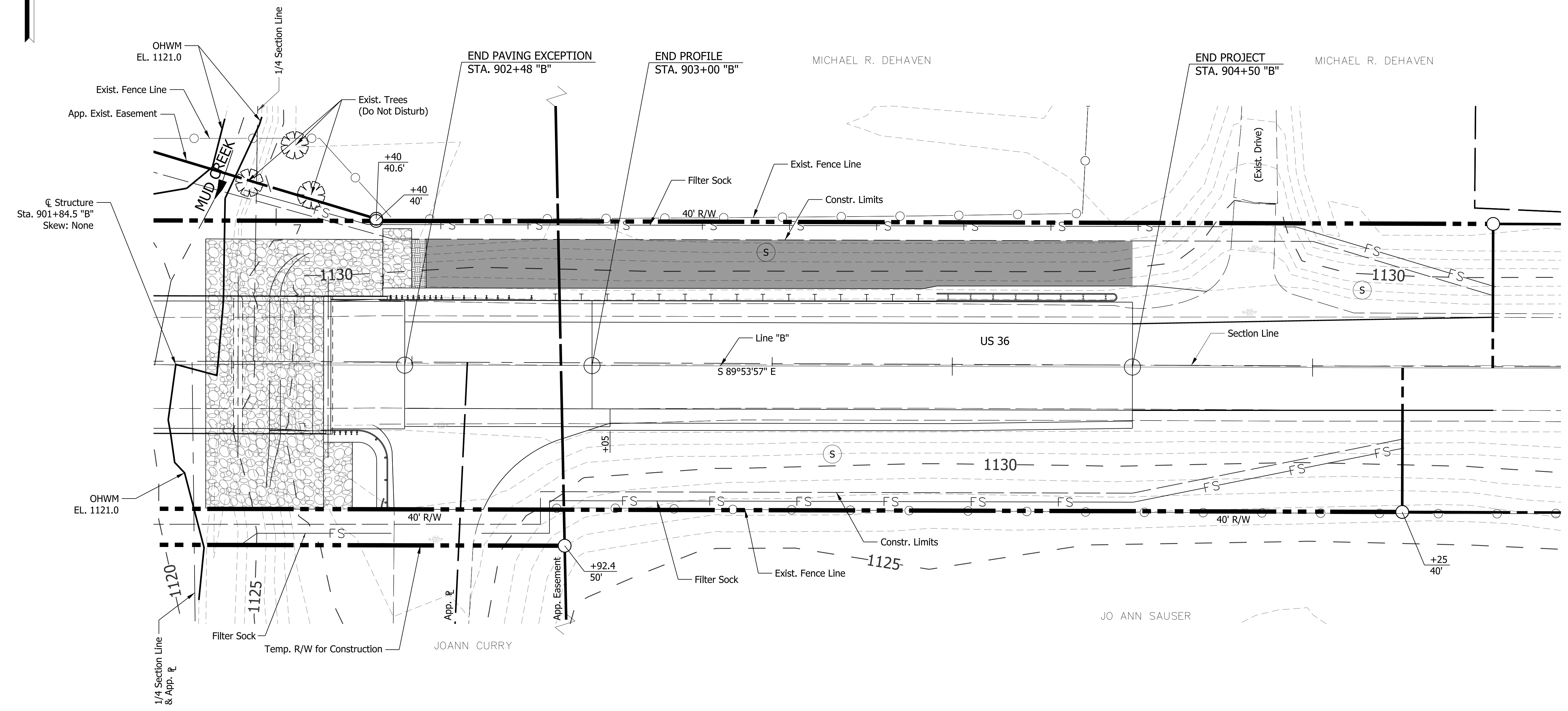


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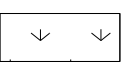
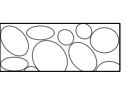

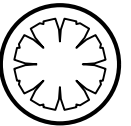

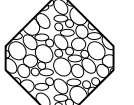




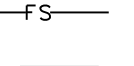

903

904

905



LEGEND

-  Seed Mixture, Floodplain
-  18" Revetment Riprap over Geotextiles for Riprap, Type IA
-  Permanent, Seed Mixture R w/ Mulching Material & Fertilizer
-  Tree (To Be Removed)
-  Direction of Flow
-  Riprap Check Dam
-  Check Dam, Traversable
-  Temporary Diversion Channel
-  Compacted Earth Dike
-  Sodding
-  Filter Sock
-  Erosion Control Blankets

NOTES

1. Construction Entrance per INDOT Std. Dwg. E 205-TECD-12.
2. Provide Erosion Control Blankets for side slopes steeper than 3:1.
3. Contractor to provide Temporary Seeding and Mulch for disturbed areas.
4. For Erosion Control Quantities, see sheet 20.
5. For Temporary Slope Drain Details and Temporary Erosion Control Slope Diversion Interceptor Details, see INDOT Std. Dwg. E 205-TECS-02 thru 04.

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DATE	REVISION

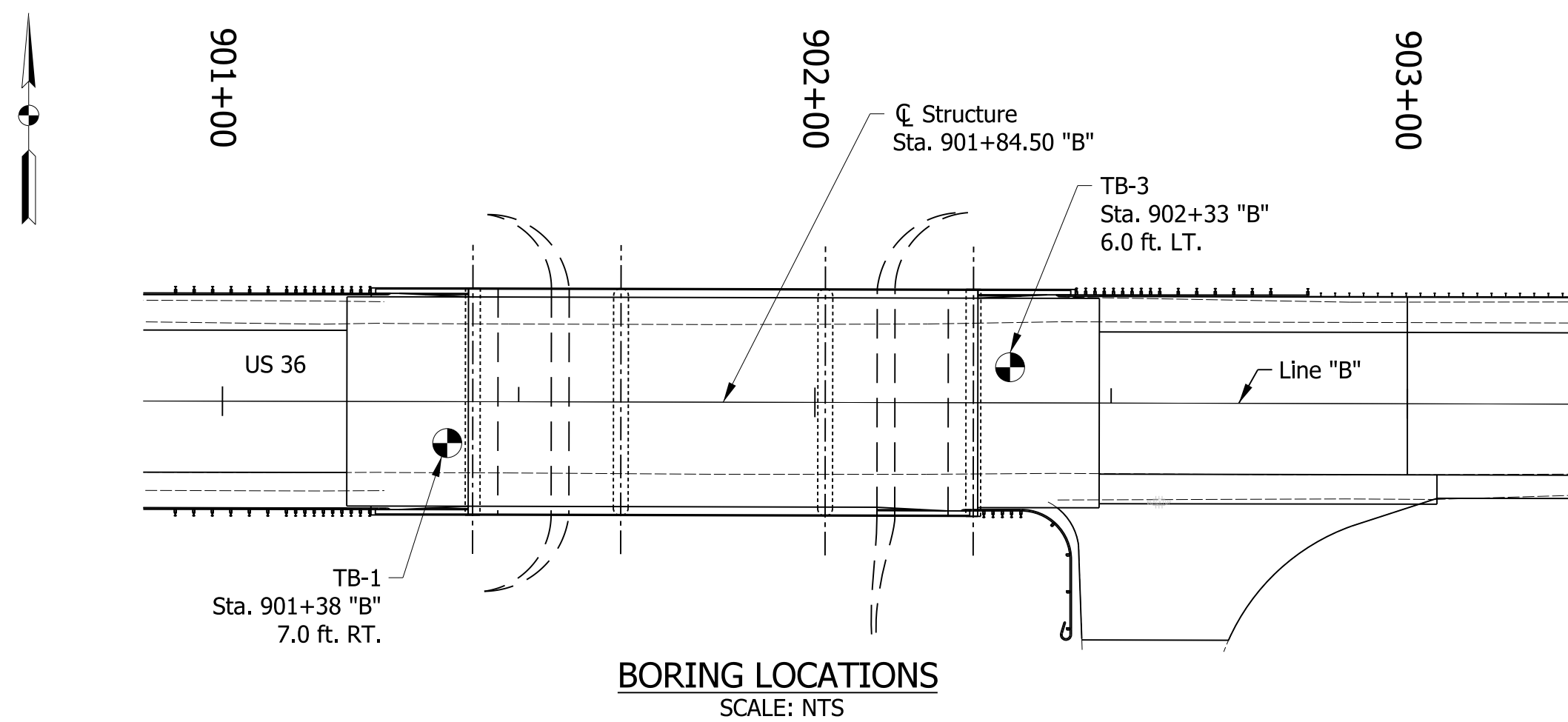
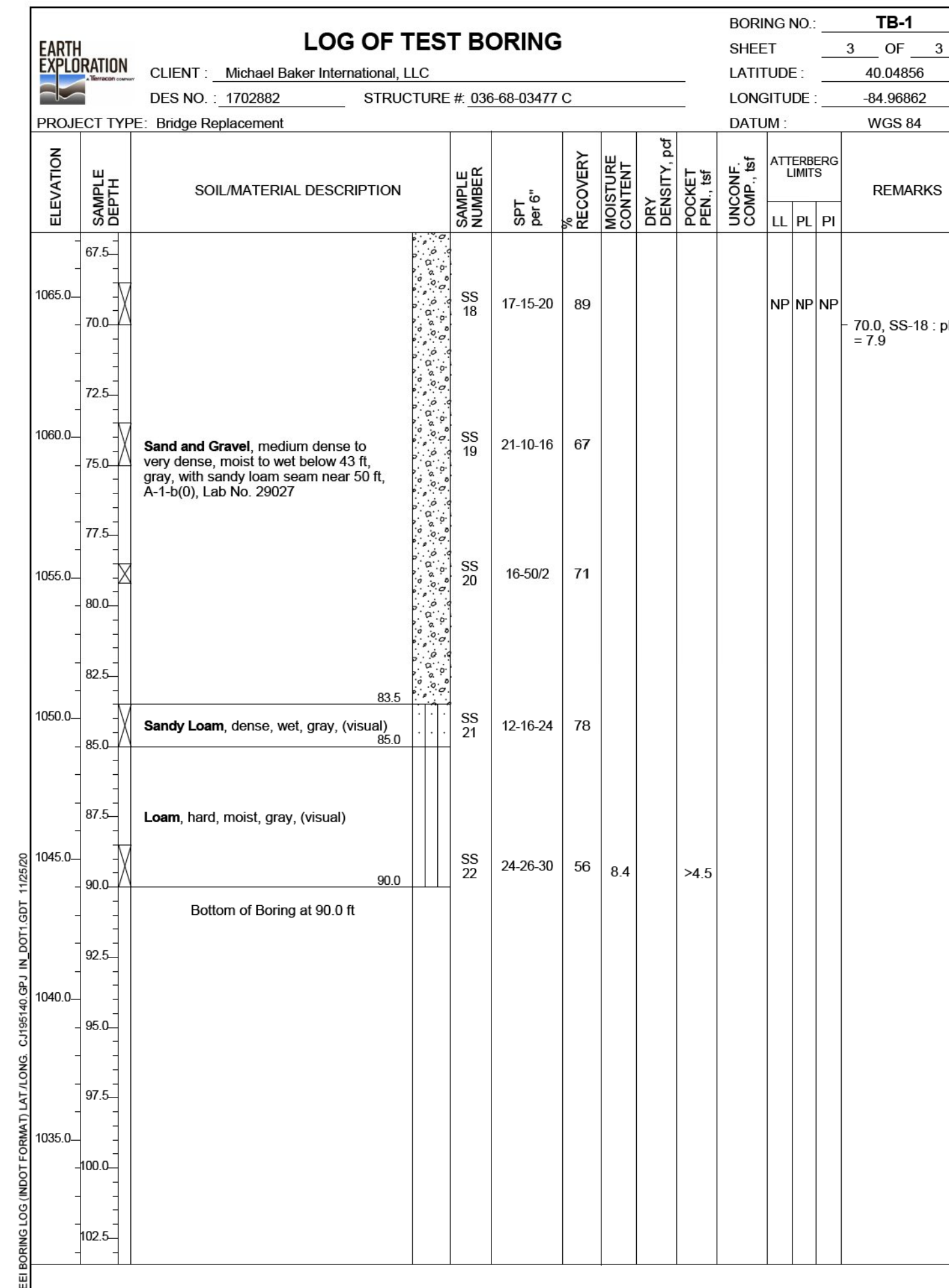
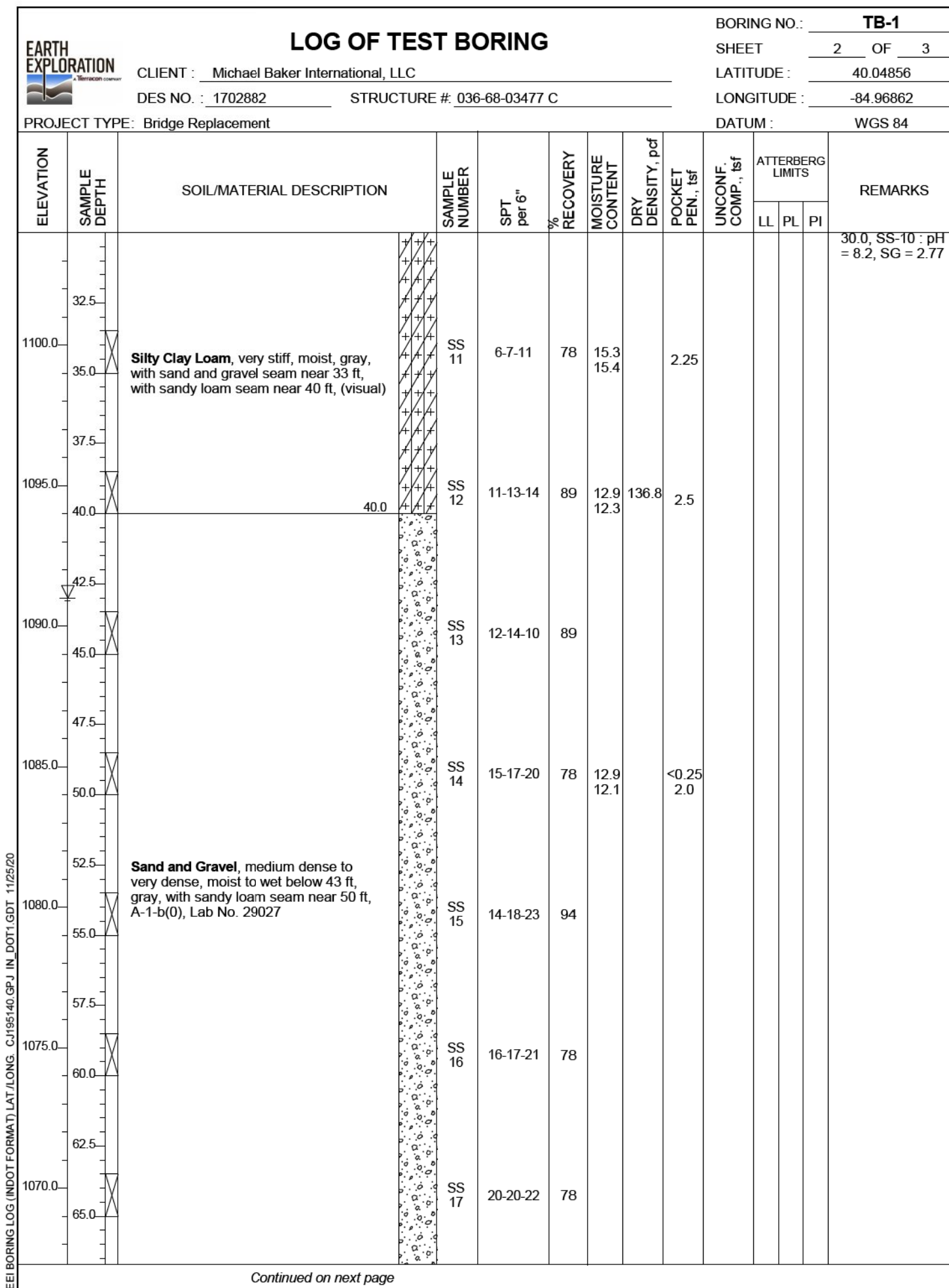
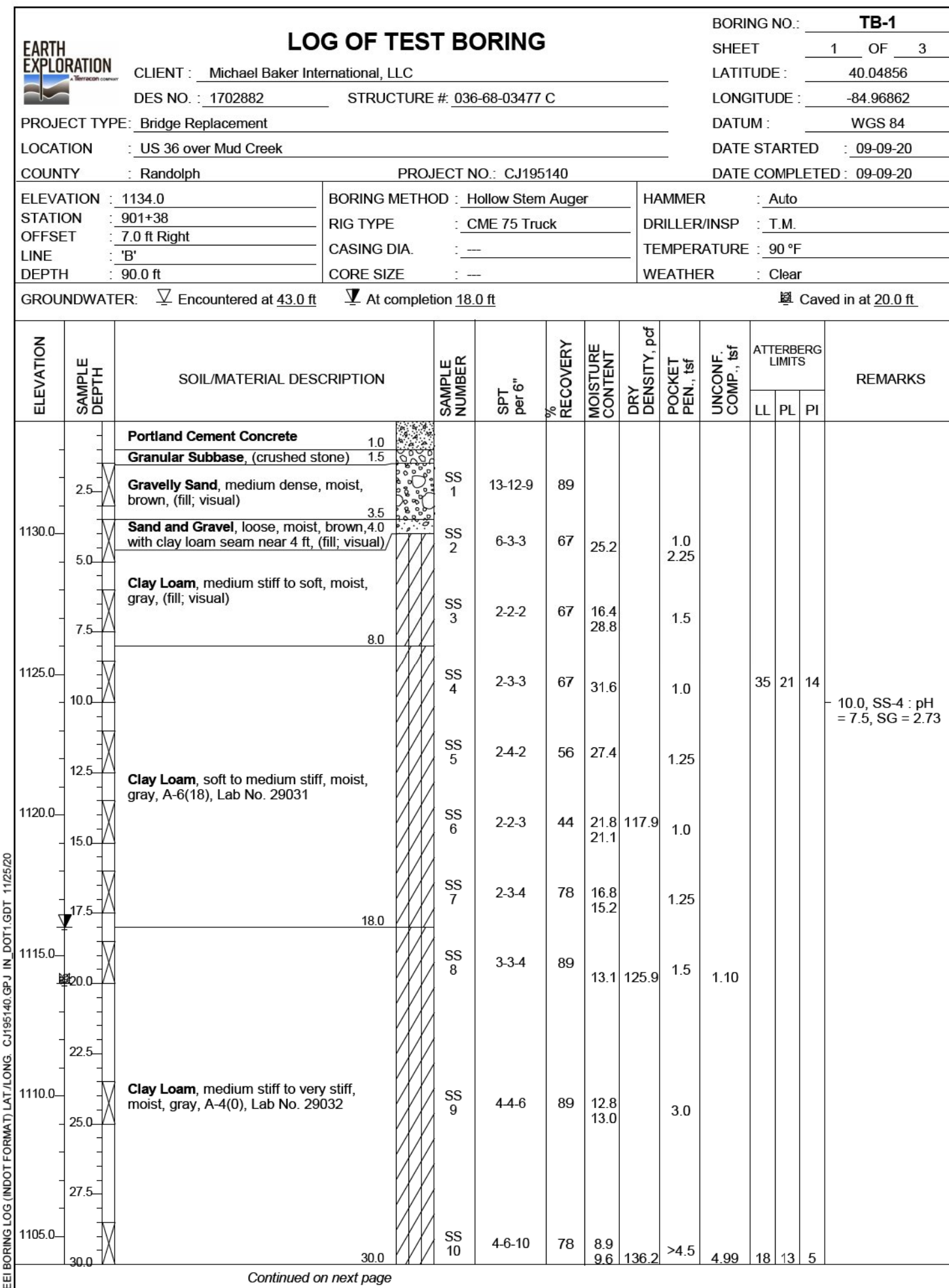
**Preliminary Plans
NOT FOR CONSTRUCTION**

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JPD	DRAWN: JLR	
CHECKED: CAB	CHECKED: JPD	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	36-68-10346
VERTICAL SCALE	DESIGNATION
	1702882
SURVEY BOOK	SHEETS
	11 OF 27
CONTRACT	PROJECT
R-41488	1702882



DATE	REVISION

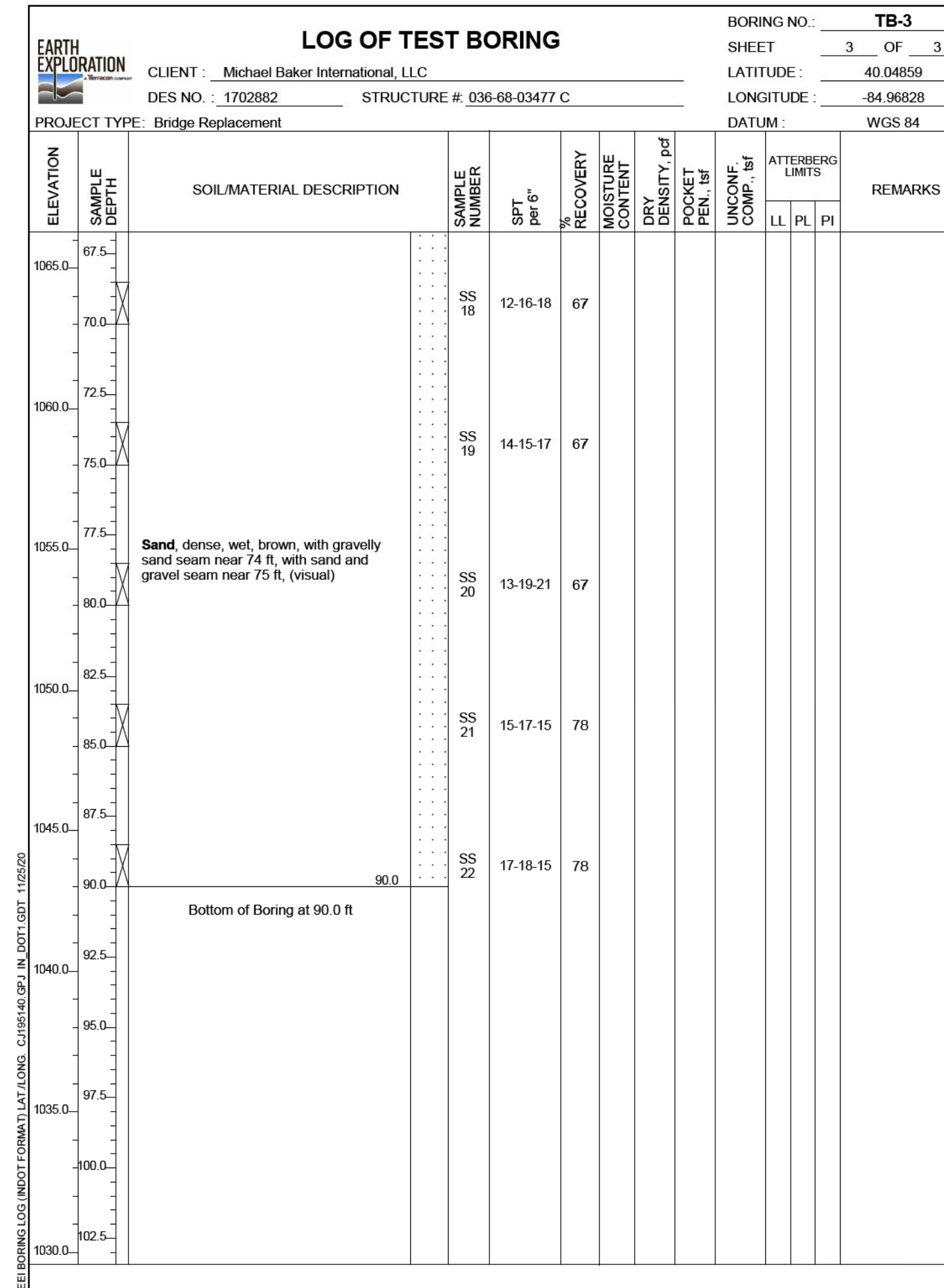
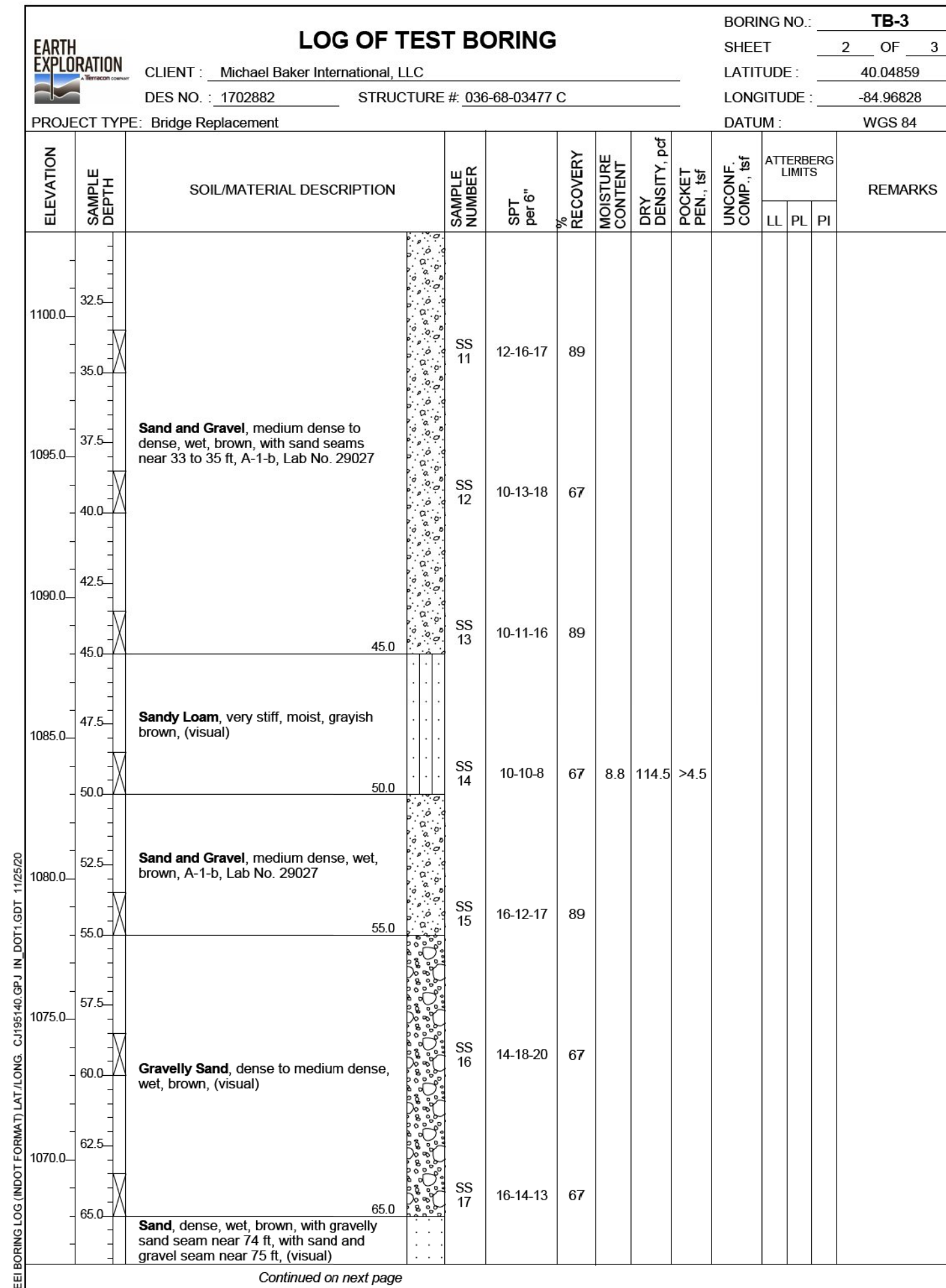
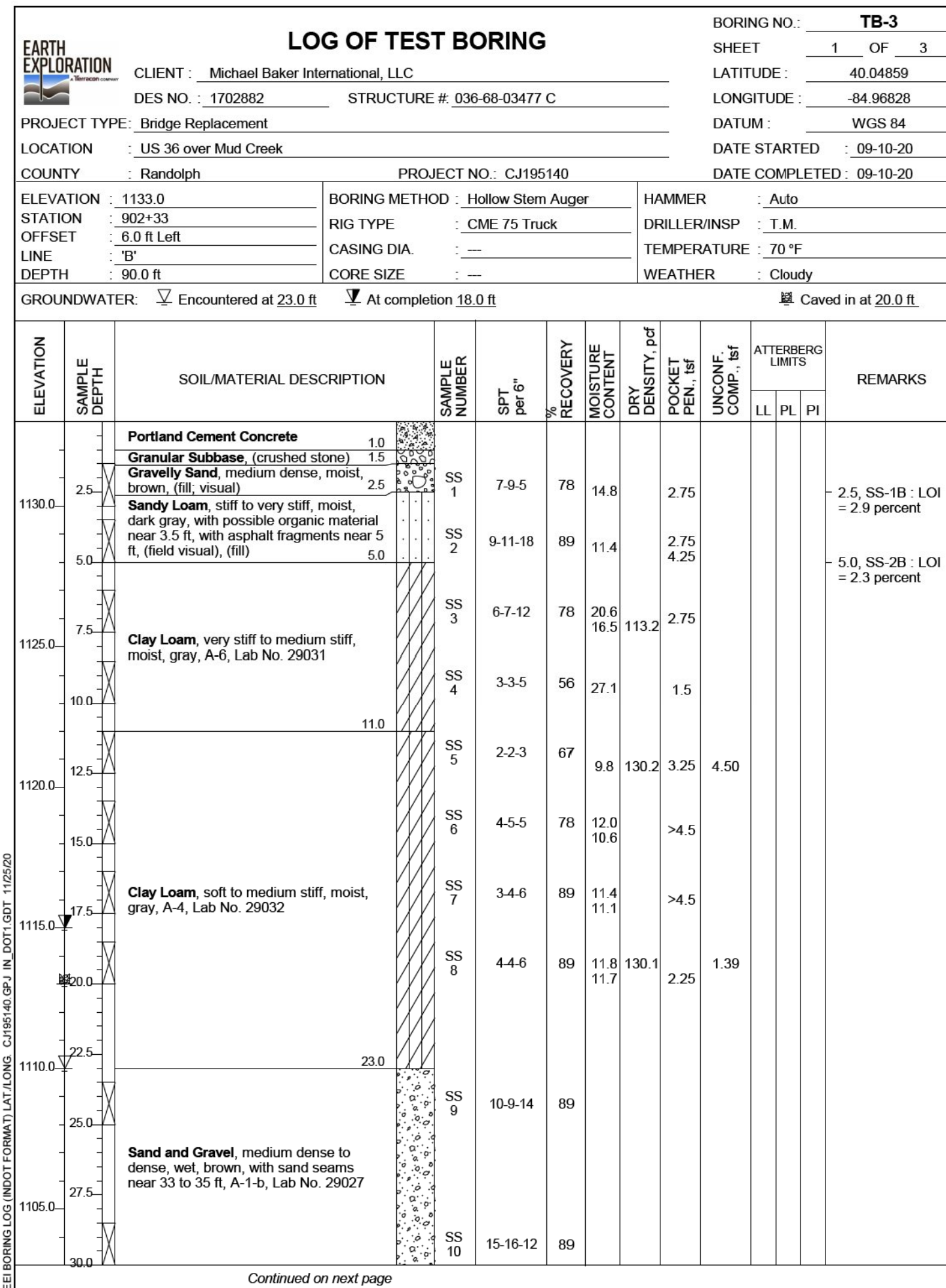
**Preliminary Plans
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**INDIANA
DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	36-68-10346
SURVEY BOOK	DESIGNATION
CONTRACT	1702882
R-41488	SHEETS
	13 OF 27
	PROJECT
	1702882



PILE LOADING FOR GEOTECHNICAL TESTING				
	Bent No. 1	Pier No. 2	Pier No. 3	Bent No. 4
Pile Size and Type	14" x 0.312" Pipe Pile	14" x 0.312" Pipe Pile	14" x 0.312" Pipe Pile	14" x 0.312" Pipe Pile
Factored Design Load, Q _f (kip)	109	159	159	109
Factored Design Soil Resistance, R _s (kip)	234	200	194	234
Resistance Factor φ _s *	0.55	0.55	0.55	0.55
Downdrag Load, DD (kip)	Negligible	Negligible	Negligible	Negligible
Maximum Nominal Soil Resistance, R _u (kip)	426	363	352	426
Downdrag Friction, R _{df} (kip)	0	N/A	N/A	0
Scour Zone Friction, R _z (kip)	N/A	63	74	N/A
Relaxation in Shale (kip)	N/A	N/A	N/A	N/A
Nominal Driving Resistance, R _d (kip)	426	426	426	426
Estimated Pile Tip Elevation (Minimum)	1077	1072	1079	1077
Minimum Pile Tip Elevation	TBD	1088	1088	TBD
Testing Method	*Based on 701.05(a). A resistance factor of 0.7 and higher nominal resistance can be used if 701.05(b) (PDA) is utilized. A 20 percent reduction (φ _s = 0.44) is required if four or fewer piles are used at a single substructure unit.			

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DATE	REVISION

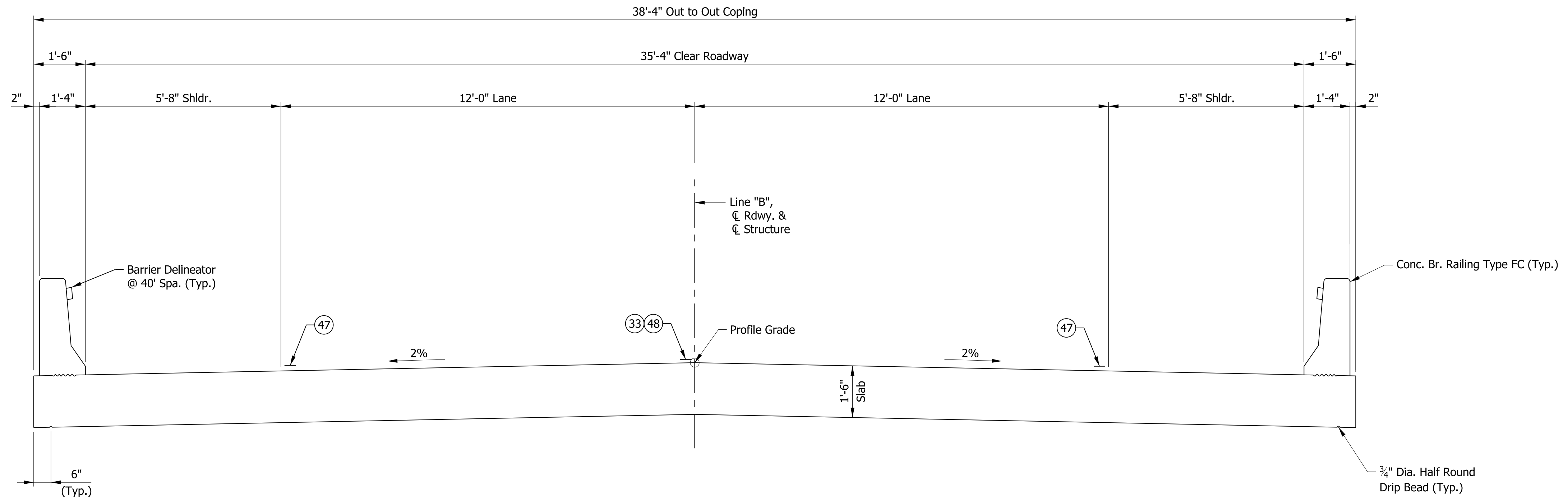
**Preliminary Plans
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**INDIANA
DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	36-68-10346
SURVEY BOOK	DESIGNATION
CONTRACT	1702882
R-41488	SHEETS
	14 OF 27
	PROJECT
	1702882



TYPICAL SECTION
SCALE: 1/2" = 1'-0"

LEGEND

- (33) Snowplowable Raised Pavement Marker
- (47) Line, Paint, Solid, White, 4 in.
- (48) Line, Paint, Broken, Yellow, 4 in.

CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE
3 SPANS: 25'-0", 34'-6", 25'-0"
35'-4" CLEAR ROADWAY; NO SKEW
U.S. 36 OVER MUD CREEK
RANDOLPH COUNTY

DATE	REVISION

**Preliminary Plans
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INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN	

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	36-68-10346
	DESIGNATION
	1702882
SURVEY BOOK	SHEETS
	17 OF 27
CONTRACT	PROJECT
R-41488	1702882

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SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE, CLASS C, SUPERSTR.	CONCRETE RAILING, CLASS C	REINF. BARS, EPOXY COATED	PILES					CONCRETE BRIDGE RAILING TRANSITION, TFC	BARRIER DELINEATOR	REINFORCED CONCRETE BRIDGE APPROACH, 12 IN.	GEOTEXTILE FOR SUBGRADE TYPE 2B	SUBBASE FOR PCCP	GEOTEXTILE FOR UNDERDRAIN, TYPE 2B	STRUCTURE BACKFILL, TYPE 4	SURFACE SEAL**
	CYS	CYS	LBS	CONICAL PILE TIP, 14 IN. EACH	PILE, STEEL PIPE, 0.312 IN., 14 IN. LFT	PILE, STEEL PIPE, EPOXY COATED, 0.312 IN., 14 IN. LFT	TEST PILE, INDICATOR, PRODUCTION LFT	TEST PILE, INDICATOR, RESTRIKE EACH	EACH	EACH	SYS	SYS	CYS	SYS	CYS	SFT
Superstructure	192.3		48075													375
Bent No.1	8.9		890	5	220		55	1						32	8	
Pier No. 2	9.0		900	6	235	84	47	1								
Pier No. 3	9.0		900	6	240	84										
Bent No. 4	8.9		890	5	220		55	1						32	8	
West R.C. Approach Slab			3010								86	86	22			
East R.C. Approach Slab			2940								84	84	21			
Railing		15.0	6316						4	6						2400
TOTALS	228.1	15.0	63921	22	915	168	157	3	4	6	170	170	43	64	16	2775

** Estimated quantity

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DATE	REVISION

**Preliminary Plans
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INDIANA DEPARTMENT OF TRANSPORTATION	
BRIDGE SUMMARY	

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	36-68-10346
	DESIGNATION
	1702882
SURVEY BOOK	SHEETS
	18 OF 27
CONTRACT	PROJECT
R-41488	1702882

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION	HMA FOR APPROACHES			QC/QA HMA			WIDENING WITH HMA, TYPE C	ASPHALT MATERIAL FOR		COMPACTED AGGREGATE FOR SURFACE NO. 53			SUBGRADE TREATMENT, TYPE ID	MILLING, ASPHALT, 1 1/2 IN.	MILLING, APPROACH	JOINT ADHESIVE, SURFACE	JOINT ADHESIVE, INTERMEDIATE	LIQUID ASPHALT SEALANT	REMARKS
		SURFACE, TYPE B	INTERMEDIATE	BASE	3, 70, SURFACE, 9.5 MM	3, 70, INTERMEDIATE, 19.0 mm	3, 64, BASE, 25.0 mm		PRIME COAT	TACK COAT	DEPTH									
											165 TONS	275 TONS	165 TONS							
		LBS PER SYD		LBS PER SYD		LBS PER SYD			LBS PER SYD		LBS PER SYD		LBS PER SYD							
896+50 to 897+35	LEFT SHOULDER											17								
897+35 to 898+35	MAINLINE				23					267				267			300		300	
897+35 to 897+48	LEFT SHOULDER				1					6				6						
897+35 to 898+35	RIGHT SHOULDER				3					31				31						
898+35 to 900+60	MAINLINE				50					600				600			675		675	
897+48 to 900+60	LEFT SHOULDER				18			138		416			106	277						
898+35 to 900+60	RIGHT SHOULDER				13			100		300			77	200						
900+60 to 901+21	MAINLINE				14	23	72			326				163			183	183	183	
900+60 to 901+21	LEFT SHOULDER				4	7	21			82				55						
900+60 to 901+21	RIGHT SHOULDER				4	7	21			82				55						
902+48 to 903+00	MAINLINE				12	20	62			278				139			156	156	156	
902+48 to 903+00	LEFT SHOULDER				3	6	18			70				47						
902+48 to 903+05	RIGHT SHOULDER				3	5	15			64				45						
903+00 to 904+50	MAINLINE				33					400				400			450		450	
903+00 to 904+50	LEFT SHOULDER				9			68		200			54	133						
903+05 to 904+00	RIGHT SHOULDER				4			30		86			25	64						
904+00 to 904+50	RIGHT SHOULDER				2			15		40			13	31						
904+50 to 905+50	LEFT SHOULDER												9							
902+48 to 903+00	DRIVE				8					92				92			57		57	
TOTALS					204	68	209	351		3340			422	1209	1396		1821	339	1821	

GUARDRAIL SUMMARY TABLE

LOCATION		GUARDRAIL, MGS W-BEAM, LENGTH										CURVED W-BEAM GUARDRAIL SYSTEM				REMARKS				
FROM STATION	TO STATION	LEFT	RIGHT	STANDARD POST AT 6 FT 3 IN. SPA.	STANDARD POST AT 3 FT 1.5 IN. SPA.	DOUBLE FACED AT 6 FT 3 IN. SPA.	DOUBLE FACED AT 3 FT 1.5 IN. SPA.	SHOP CURVED AT ____ FT. SPA.	NESTING GUARDRAIL	GUARDRAIL FLARE RATE	GUARDRAIL TRANSITION, TYPE TGB	GUARDRAIL, MGS TRANSITION WITHOUT CURB	GUARDRAIL END TREATMENT TYPE OS, 31 IN.	GUARDRAIL END TREATMENT OS (31", MSKT TL=2,LT)	GUARDRAIL MGS SIDE-MOUNTED POST, DECK		TERMINAL SYSTEM		CONNECTOR SYSTEM	
				LFT	LFT	LFT	LFT	LFT	LFT	EACH	EACH	EACH	EACH	EACH	EACH		EACH	EACH	TYPE	EACH
897+98.3	900+85.8	X		287.5								1.00	1.00							
898+85.8	900+85.8		X	200.0								1.00	1.00							
902+83.2	903+95.7	X		112.5								1.00	1.00							
902+24.5	902+34.5		X													3	1	WGB	1	
TOTALS				600								3	3			1		1		

STATION	OFFSET	DESCRIPTION	TYPE			
			A	B	C	D
897+35 LINE "B"	0.00'	BEGIN PROJECT		1		
900+37.40 LINE "B"	0.00'	P.C.		1		
905+37.40 LINE "B"	0.00'	P.I.		1		
904+50 LINE "B"	0.00'	END PROJECT		1		
TOTAL				4		

STATION	OFFSET
895+00	40' Rt.
900+37.40	40' Rt.
905+25	40' Rt.
895+00	40' Lt.
897+00	40' Lt.
902+40	40' Lt.
905+50	40' Lt.

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DATE	REVISION

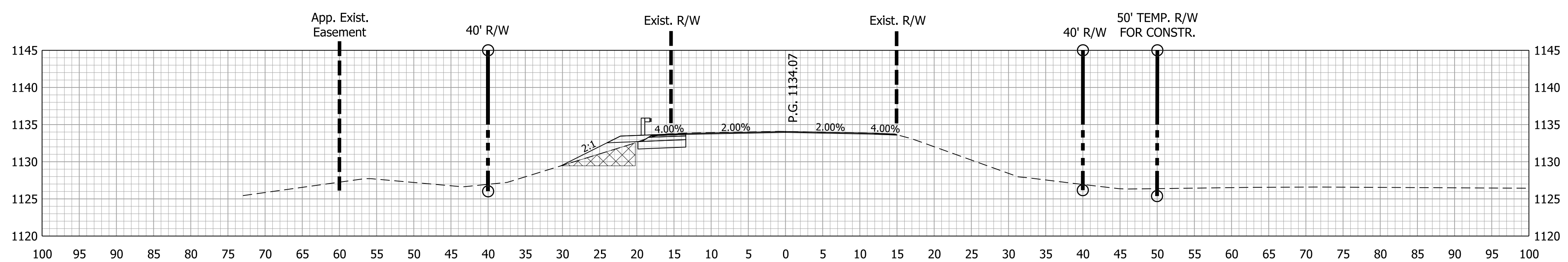
**Preliminary Plans
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____ DATE _____
DESIGNED: JPD	DRAWN: JLR
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INDIANA DEPARTMENT OF TRANSPORTATION	
ROADWAY SUMMARY & MISCELLANEOUS TABLES	

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	36-68-10346
SURVEY BOOK	DESIGNATION
CONTRACT	1702882
R-41488	SHEETS
	19 OF 27
	PROJECT
	1702882

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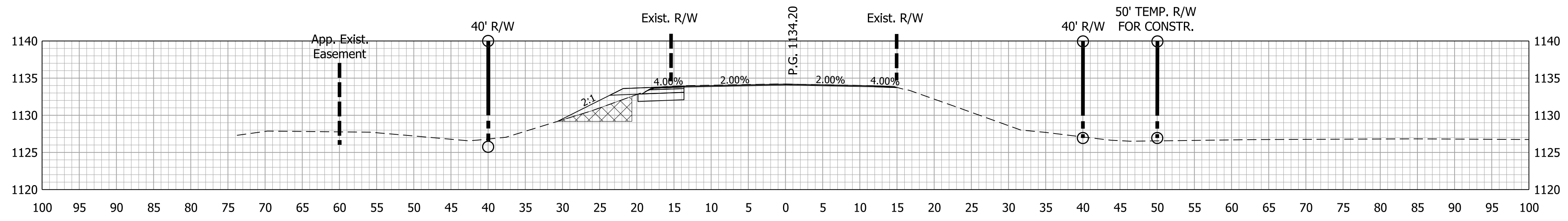


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Vc = 0 CYS

Af = 6.3 SFT
Vf = 4 CYS

Ab = 15.4 SFT
Vb = 9 CYS

897+50.00



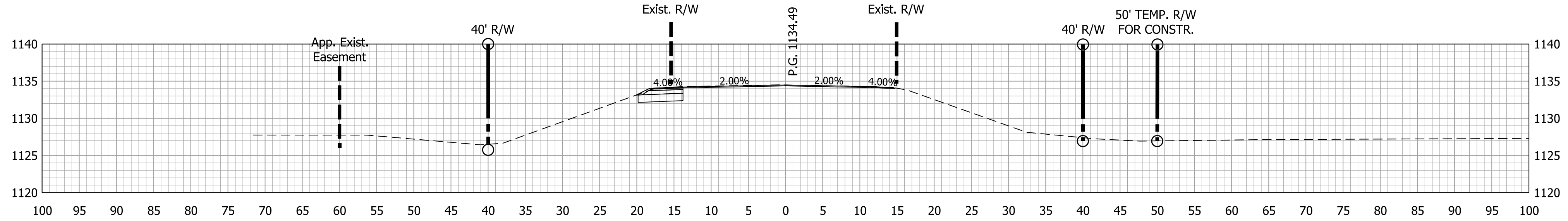
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Vf = 4 CYS

Ab = 16.2 SFT
Vb = 11 CYS

897+35.00

BEGIN PROJECT 897+35.00

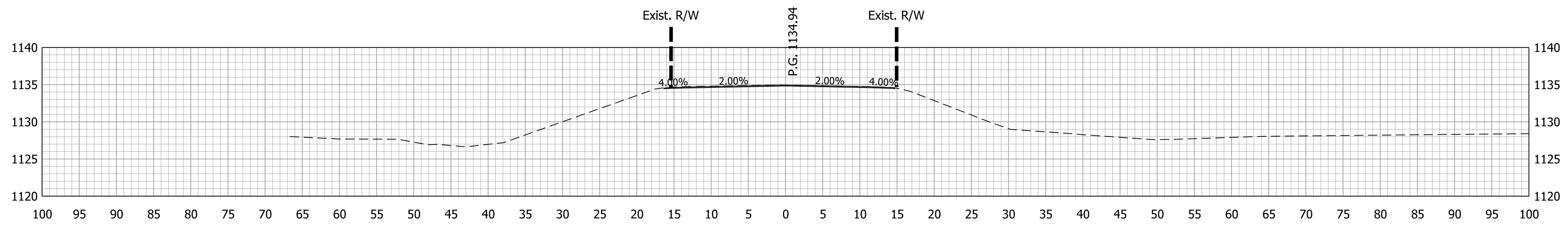


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Vc = 0 CYS

Af = 0.0 SFT
Vf = 0 CYS

Ab = 0.0 SFT
Vb = 0 CYS

897+00.00



Ac = 0 SFT
Vc = 0 CYS

Af = 0.0 SFT
Vf = 0 CYS

Ab = 0.0 SFT
Vb = 0 CYS

896+50.00

BEGIN INCIDENTAL 896+50

DATE	REVISION

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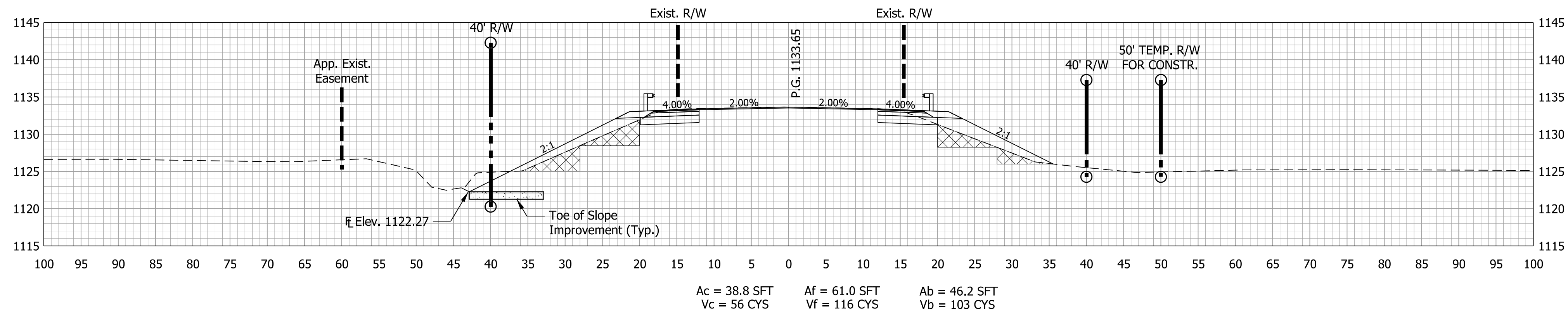
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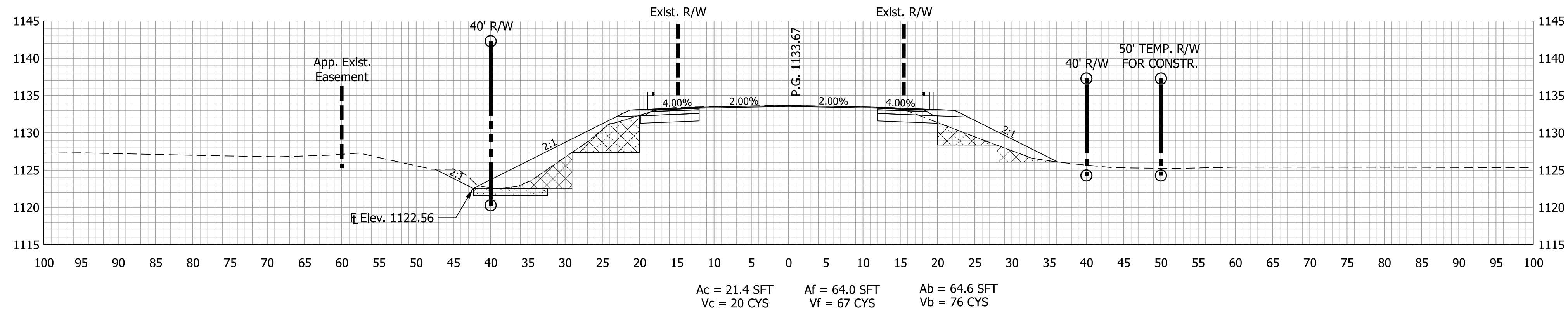
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VERTICAL SCALE 1" = 10'	DESIGNATION 1702882
SURVEY BOOK	SHEETS
CONTRACT R-41488	21 OF 27 PROJECT 1702882

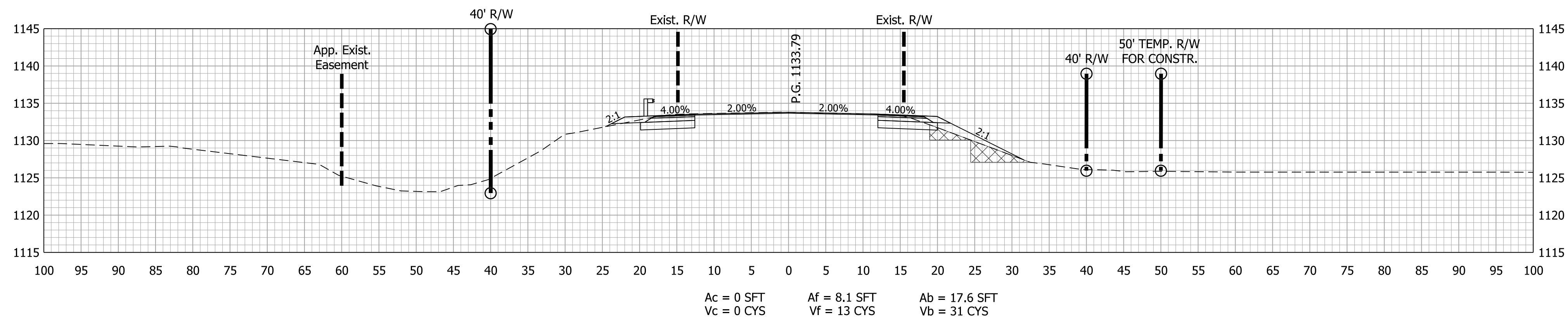
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899+00.00



898+50.00



898+00.00

DATE	REVISION

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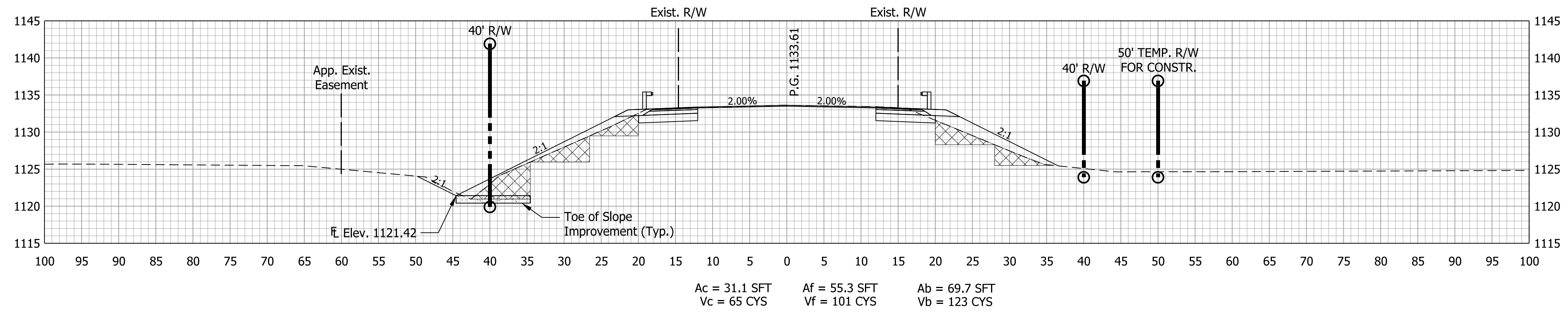
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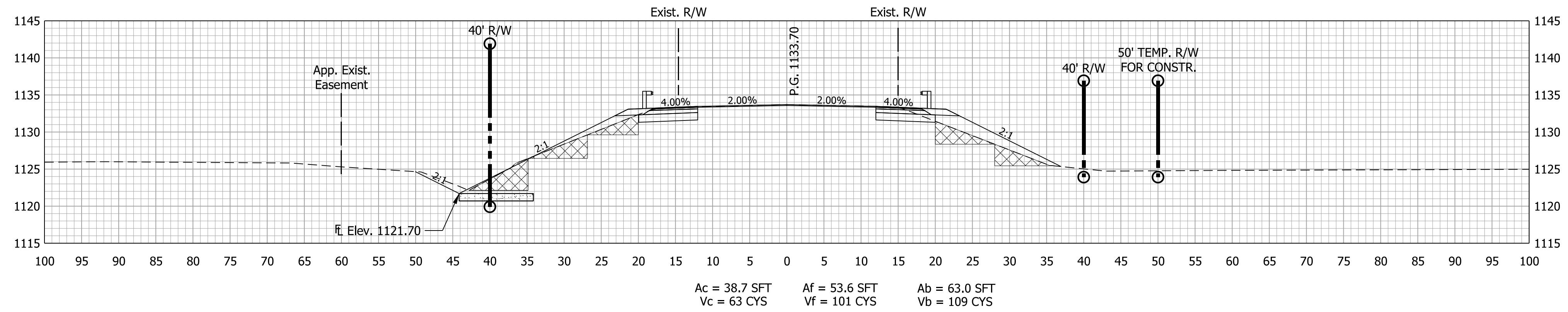
CROSS SECTIONS

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1" = 10'	36-68-10346
VERTICAL SCALE	DESIGNATION
1" = 10'	1702882
SURVEY BOOK	SHEETS
	22 OF 27
CONTRACT	PROJECT
R-41488	1702882

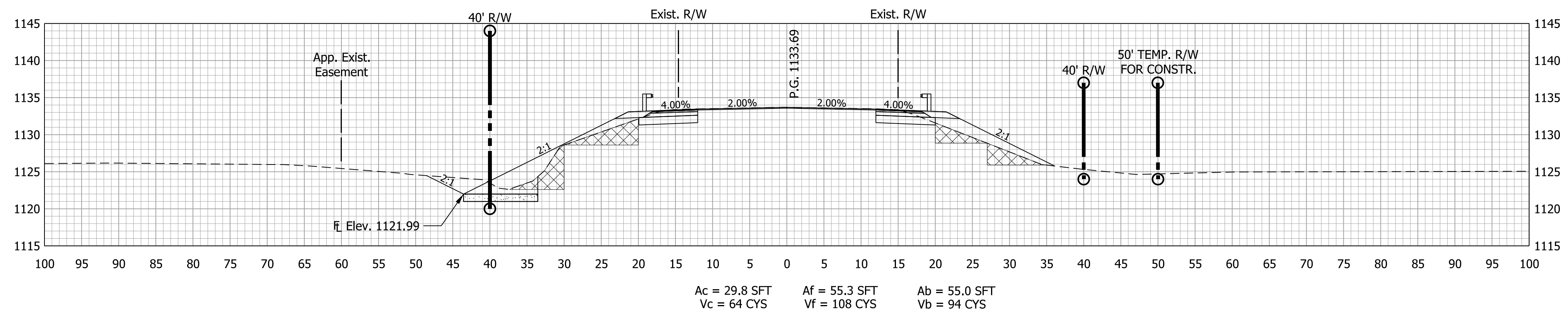
BEGIN PROFILE 900+60



900+50.00



900+00.00



899+50.00

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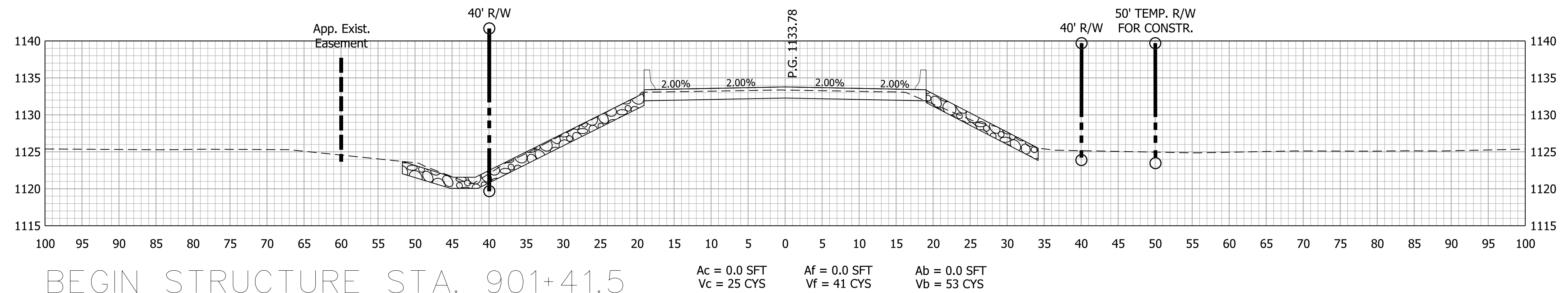
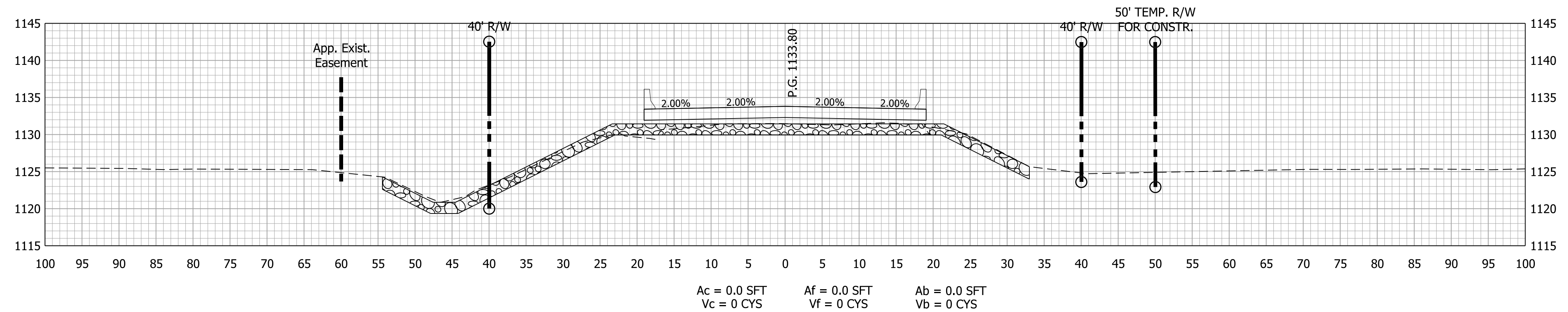
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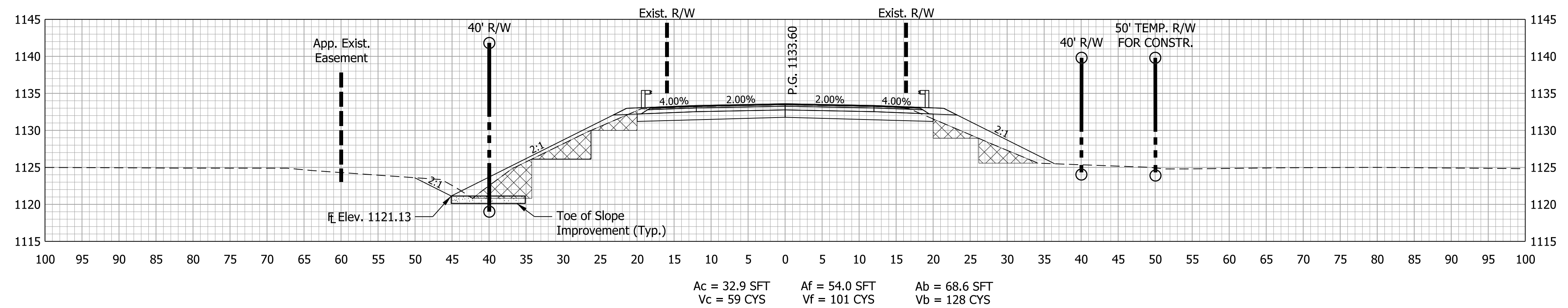
INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS	

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	36-68-10346
VERTICAL SCALE	DESIGNATION
1" = 10'	1702882
SURVEY BOOK	SHEETS
	23 OF 27
CONTRACT	PROJECT
R-41488	1702882

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BEGIN STRUCTURE STA. 901+41.5
BEGIN PAVING EXCEPTION 901+21



DATE	REVISION

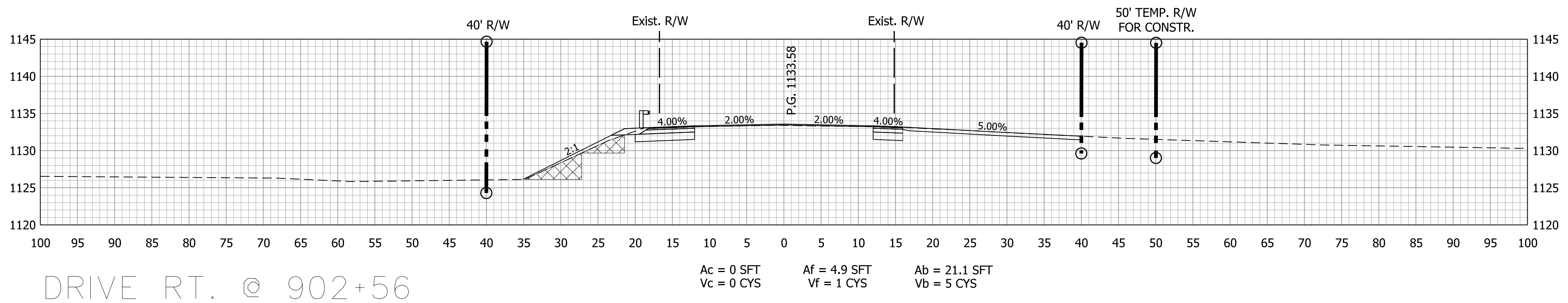
**Preliminary Plans
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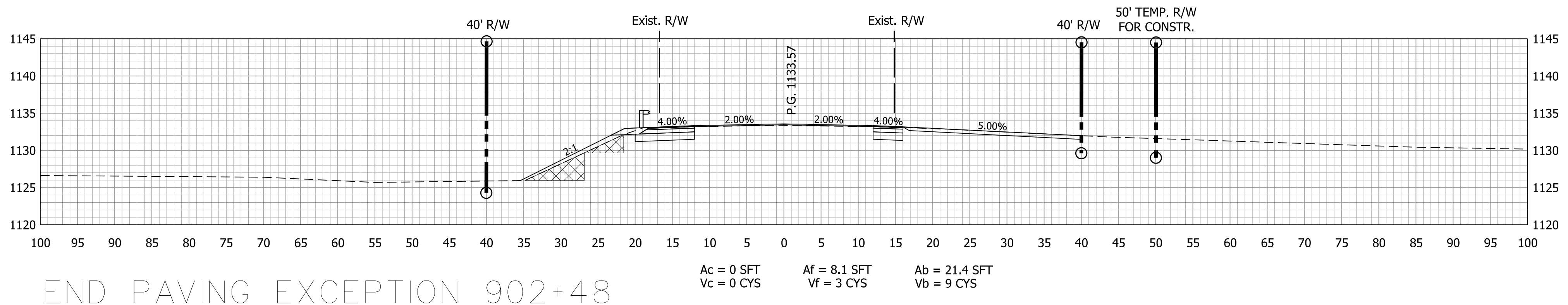
INDIANA
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CROSS SECTIONS

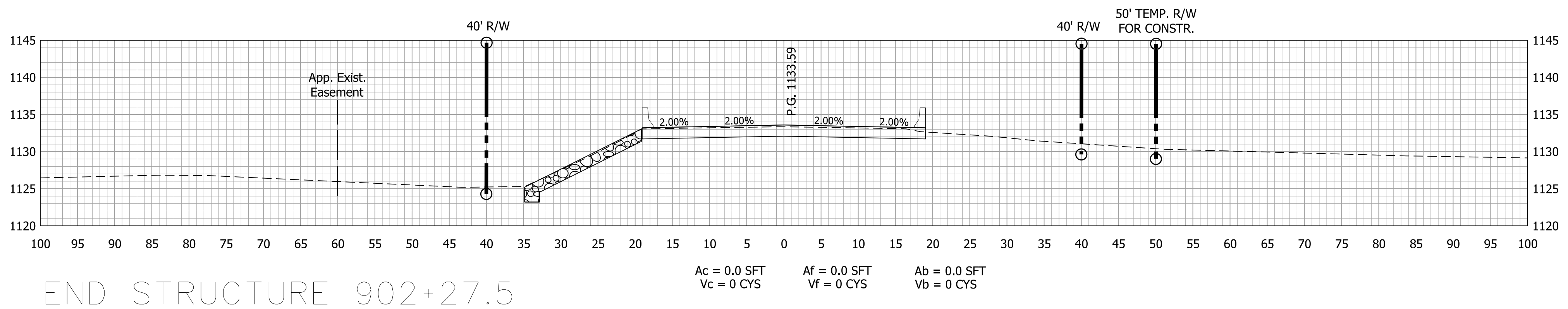
HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	36-68-10346
VERTICAL SCALE	DESIGNATION
1" = 10'	1702882
SURVEY BOOK	SHEETS
	24 OF 27
CONTRACT	PROJECT
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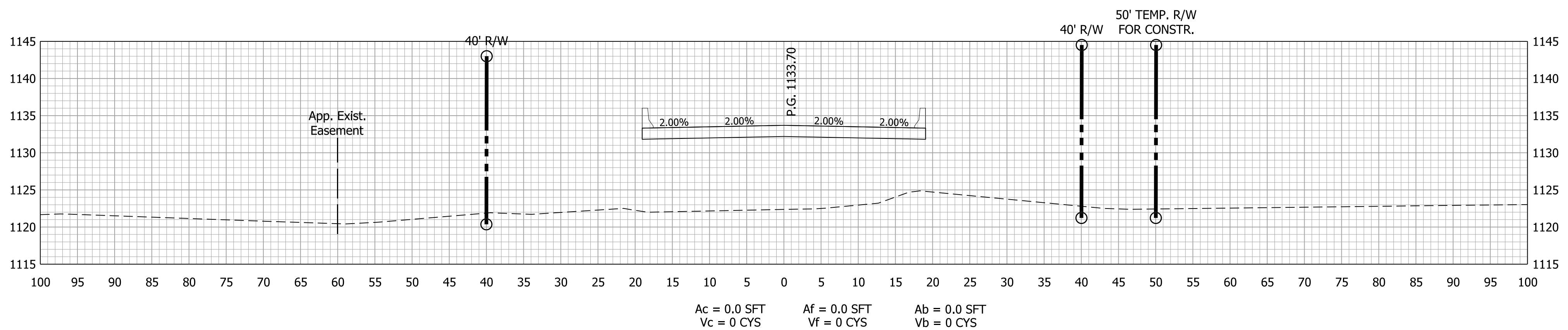
902+56.00



902+50.00



902+27.50



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DATE	REVISION

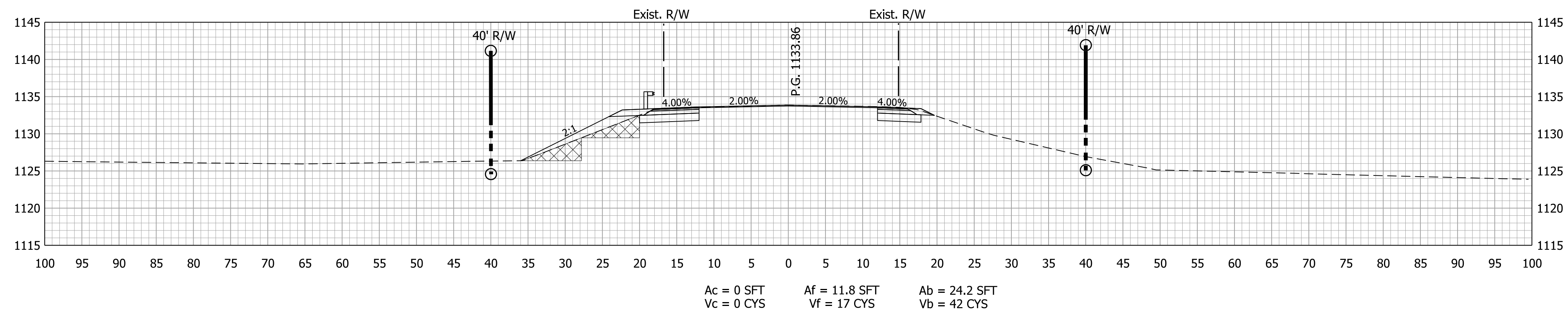
**Preliminary Plans
NOT FOR CONSTRUCTION**

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JPD	DRAWN: JLR	
CHECKED: CAB	CHECKED: JPD	

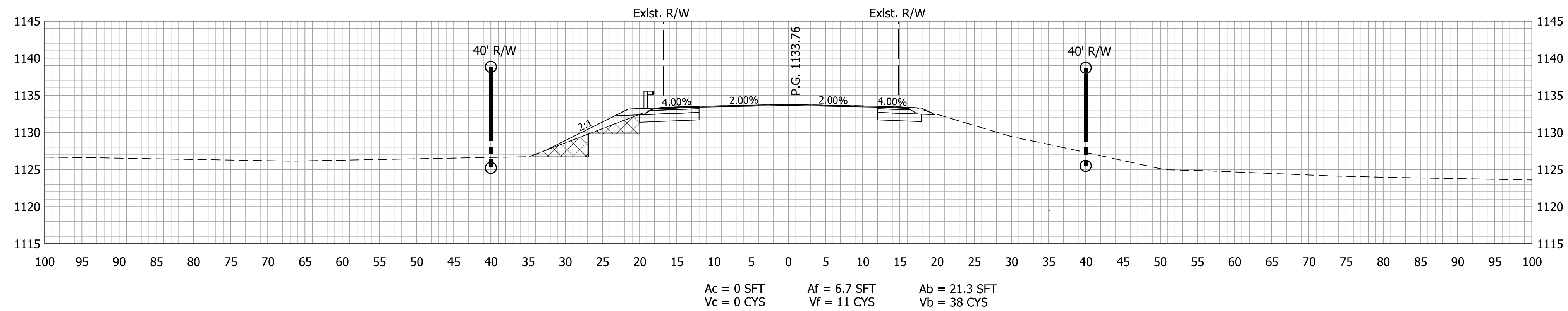
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

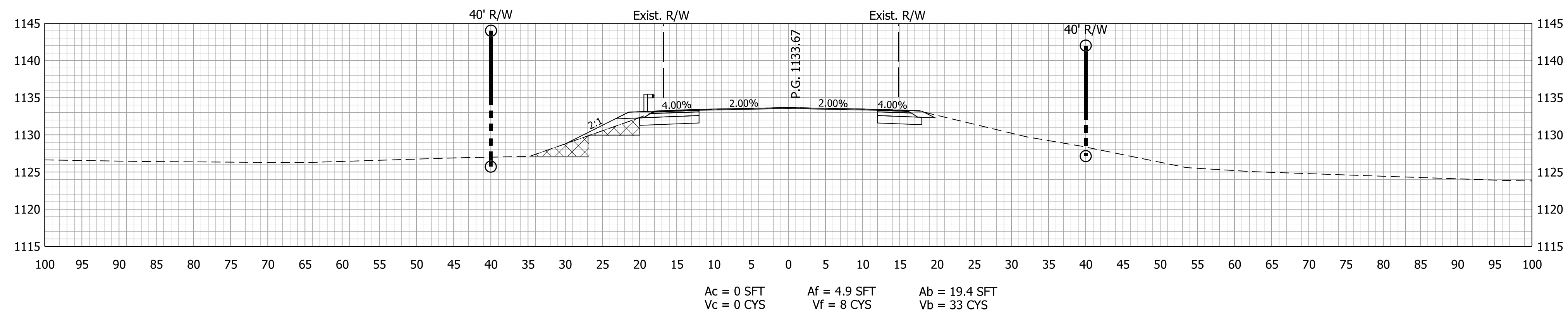
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VERTICAL SCALE 1" = 10'	DESIGNATION 1702882
SURVEY BOOK 	SHEETS 25 OF 27
CONTRACT R-41488	PROJECT 1702882



904+00.00



903+50.00



903+00.00

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DATE	REVISION

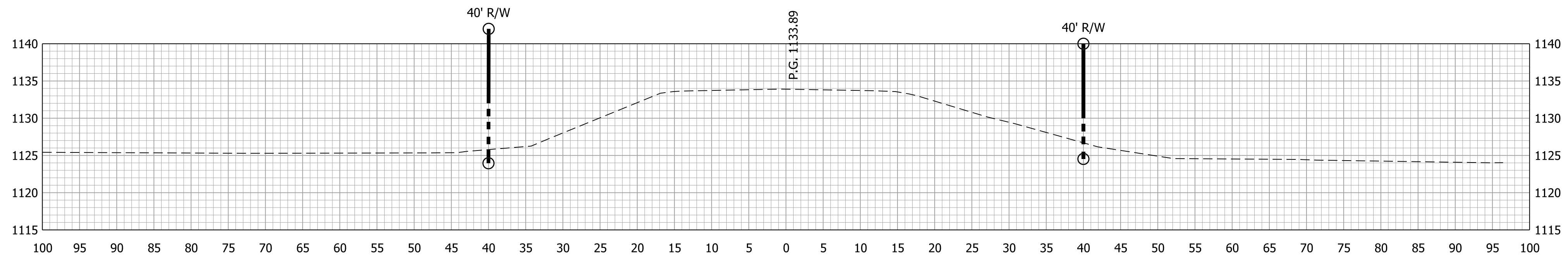
**Preliminary Plans
NOT FOR CONSTRUCTION**

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JPD	DRAWN: JLR	
CHECKED: CAB	CHECKED: JPD	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

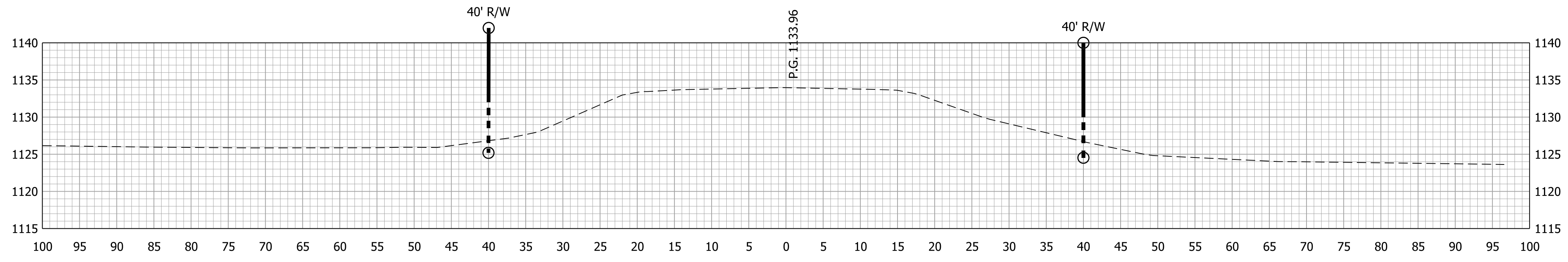
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VERTICAL SCALE	36-68-10346
SURVEY BOOK	DESIGNATION
CONTRACT	1702882
R-41488	
	SHEETS
	26 OF 27
	PROJECT
	1702882



END INCIDENTAL @ 905+50

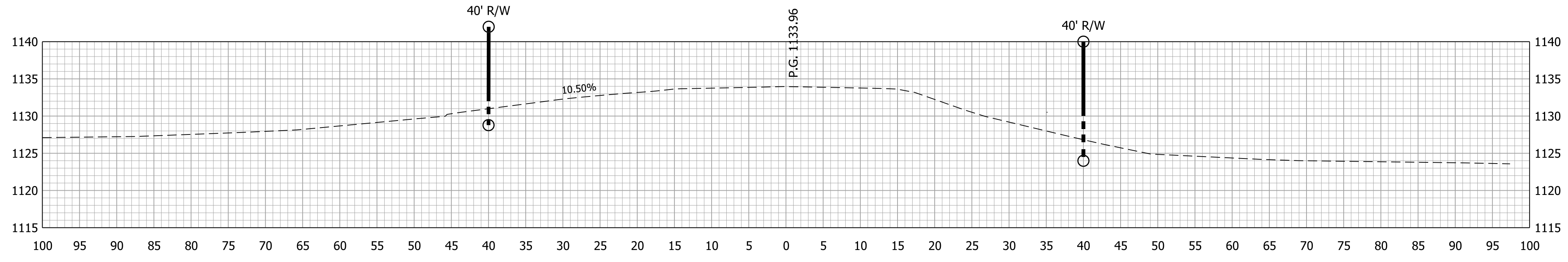
Ac = 0.0 SFT Vc = 0 CYS
 Af = 0.0 SFT Vf = 0 CYS
 Ab = 0.0 SFT Vb = 0 CYS

905+50.00



Ac = 0 SFT Vc = 0 CYS
 Af = 0.0 SFT Vf = 0 CYS
 Ab = 0.0 SFT Vb = 0 CYS

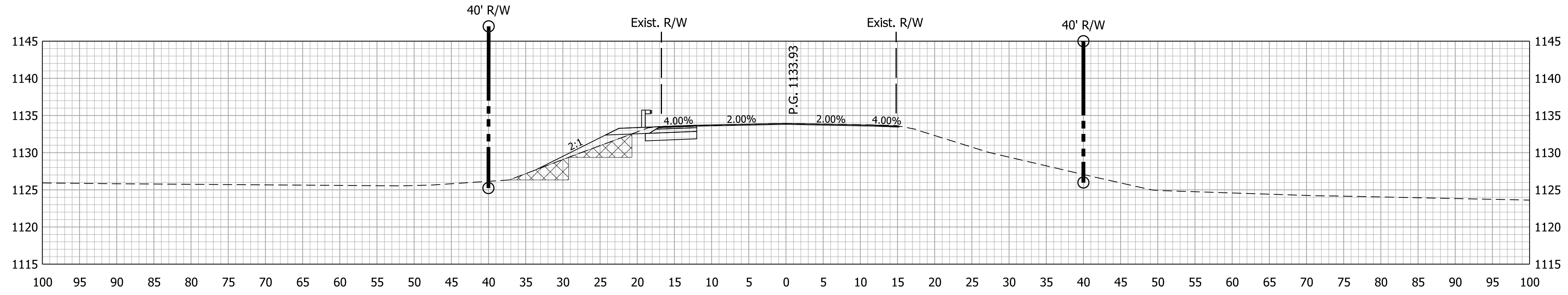
905+00.00



EXISTING DRIVE LT. @ 904+83

Ac = 0 SFT Vc = 0 CYS
 Af = 0.0 SFT Vf = 4 CYS
 Ab = 0.0 SFT Vb = 16 CYS

904+83.00



END PROJECT @ 904+50

Ac = 0 SFT Vc = 0 CYS
 Af = 7.3 SFT Vf = 18 CYS
 Ab = 25.7 SFT Vb = 46 CYS

904+50.00

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DATE	REVISION

**Preliminary Plans
NOT FOR CONSTRUCTION**

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JPD	DRAWN: JLR	
CHECKED: CAB	CHECKED: JPD	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	36-68-10346
SURVEY BOOK	DESIGNATION
CONTRACT	1702882
R-41488	
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	27 OF 27
	PROJECT
	1702882