PROJECT	DESIGNATION
2100572	2100572
CONTRACT	BRIDGE FILE
B-43949	009-48-10798

	STRUCT	URE INFORM	ATION	
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
009-48-10798	Composite Pre-stressed Concrete Bulb-Tee Beam Bridge	1 Span: 68'-0" Skew: 15°00'00" Lt.	Mud Creek	15+00.00 "PR-1"

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

FOR SPANS OVER 20 FEET

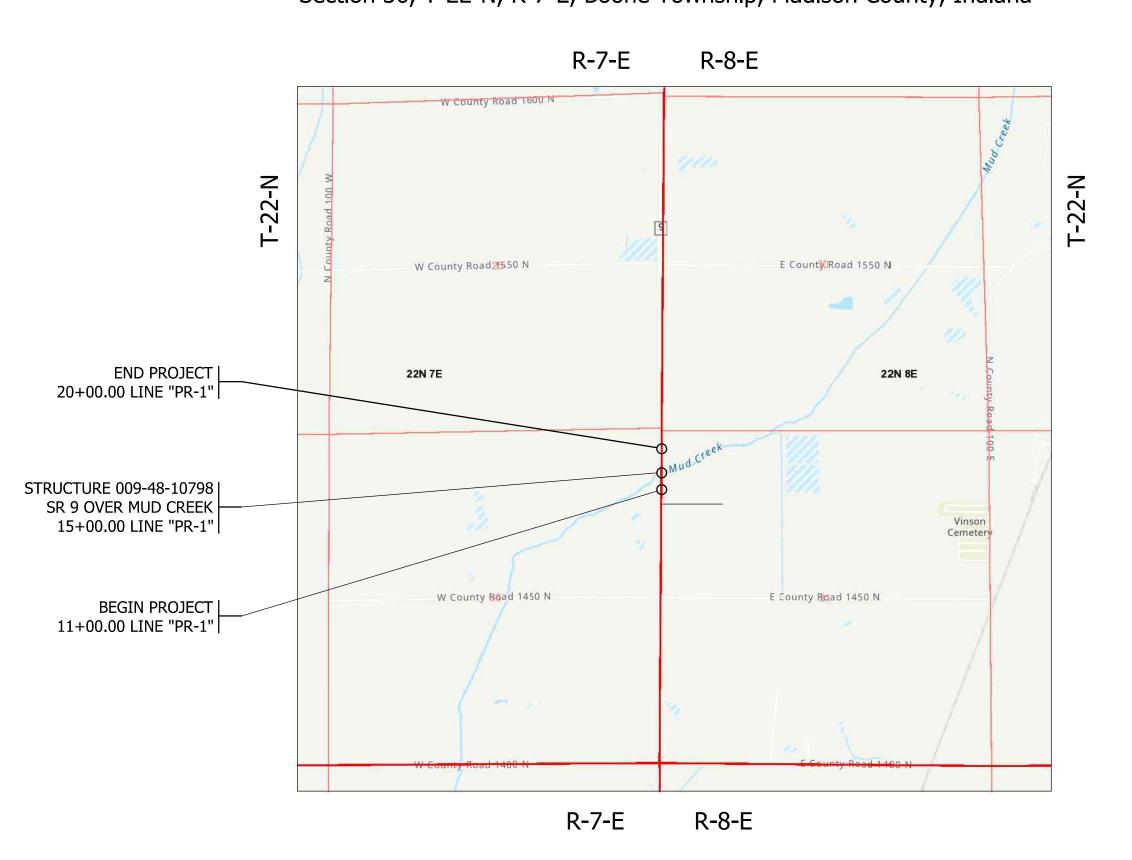
ROUTE: S.R. 9 AT: RP 86+100

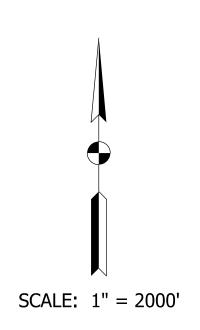
2100572 P.E. PROJECT NO.

> R/W 2100572

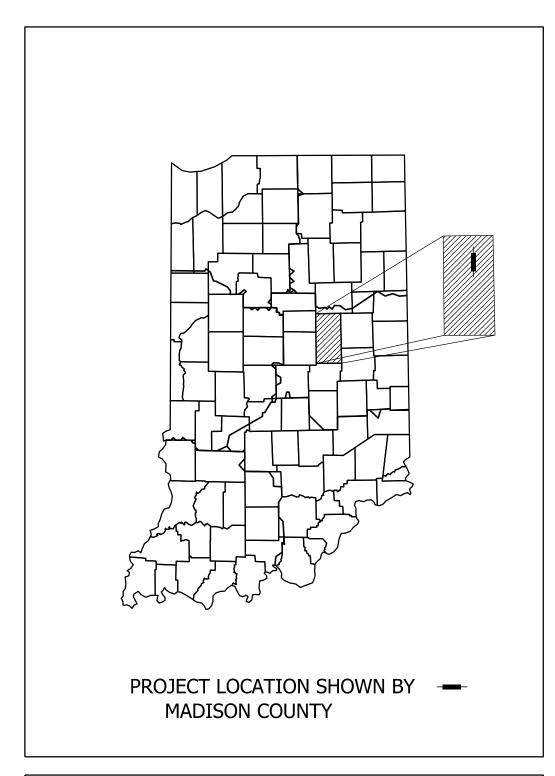
2100572 CONST.

Bridge Replacement on SR 9 over Mud Creek Located 2.83 Miles North of SR 28 Section 31, T-22-N, R-8-E, Van Buren Township, Madison County, Indiana Section 36, T-22-N, R-7-E, Boone Township, Madison County, Indiana





A.A.D.T.	(2026)	4384 V.P.D	
A.A.D.T.	(2046)	4600 V.P.D	
D.H.V		448 V.P.H	
DIRECTIONAL DISTRIBUT	TION	50.73%	
TRUCKS		9.24% A.A.D.T	
		8.53% D.H	
	— .		
DESIGN [DATA		
DESIGN DESIGN SPEED	DATA	55 M.P.H	
		55 M.P.H 3R (NON-FREEWAY	
DESIGN SPEED	RIA	3R (NON-FREEWAY	
DESIGN SPEED PROJECT DESIGN CRITER	RIA		
DESIGN SPEED PROJECT DESIGN CRITER FUNCTIONAL CLASSIFICA	RIA	3R (NON-FREEWAY MINOR ARTERIA	



LATITUDE: 40°19'8.4"N LONGITUDE: 85°40'18.4"W				
BRIDGE LENGTH: ROADWAY LENGTH:	0.013 MI. 0.157 MI.			
TOTAL LENGTH:	0.170 MI.			
MAX. GRADE:	+3.92 %			
	-120201010			
HUC: 05	51202010403			

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2024 TO BE USED WITH THESE PLANS.

BRIDGE FILE 009-48-10798 DESIGNATION 2100572 SURVEY BOOK SHEETS of ELECTRONIC CONTRACT PROJECT B-43949 2100572

Kimley-Horn & Associates, Inc. 500 E. 96th Street, Suite 300 Indianapolis, IN 46240

(317) 218-9560

(317)-218-9560 PHONE NUMBER PREPARED BY: CERTIFIED BY FOR LETTING: DATE INDIANA DEPARTMENT OF TRANSPORTATION

UTILITIES

TELEPHONE: AT&T

240 N. MERIDIAN STREET ROOM 1791 INDIANAPOLIS, IN 46204 ATTN: KIM BARKES PH: 812-390-2595 E-MAIL: g09871@att.com

OWER:

AMERICAN ELECTRIC POWER 8600 SMITHS MILL ROAD NEW ALBANY, OH 43054 ATTN: JOSHUA ADAMS PH:

E-MAIL: <u>TL publicprojects@aep.com</u>

CABLE:

COMCAST CABLE
688 INDUSTRIAL DRIVE
ELMHURST, IL 60126
ATTN: RHONDA DALTON
PH:
E-MAIL: rhonda_dalton@comcast.com



INDIANA UNDERGROUND 1-800-382-5544 OR CALL 811 24 HOURS A DAY 7 DAYS A WEEK

	REVISIONS					
SHEET NO.	DATE	REVISED				

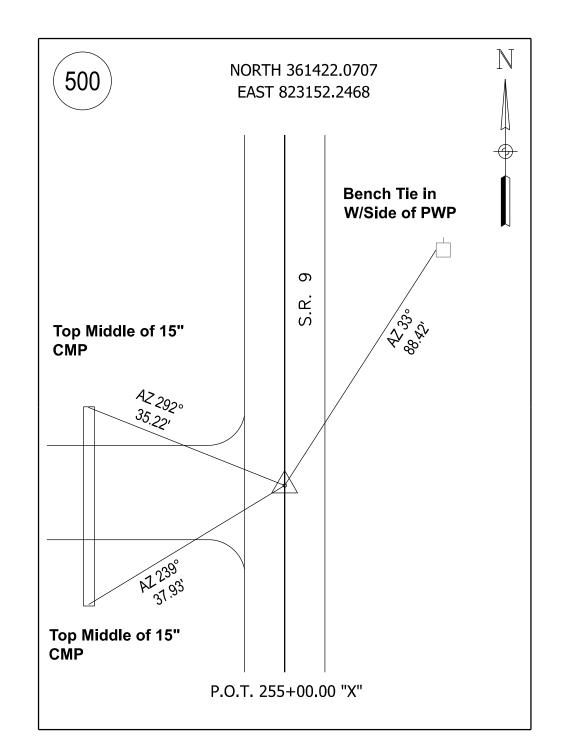
GENERAL NOTES

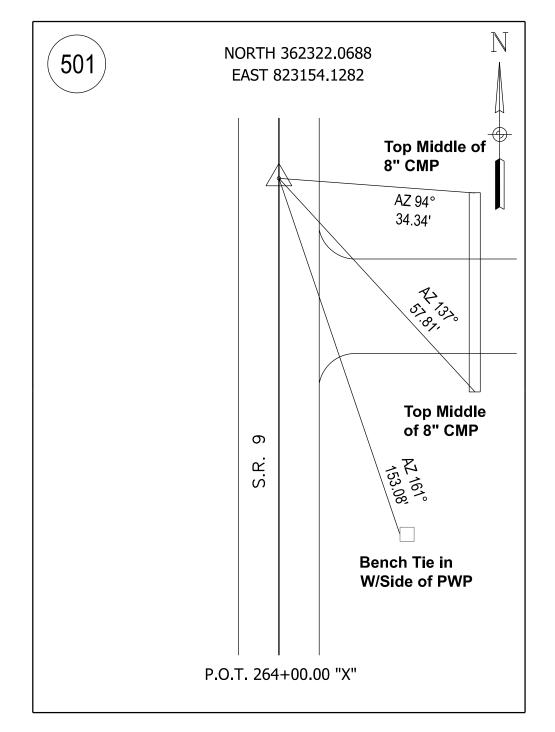
All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.

The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.

The paper relocation will be cross sectioned by the Engineer before construction.

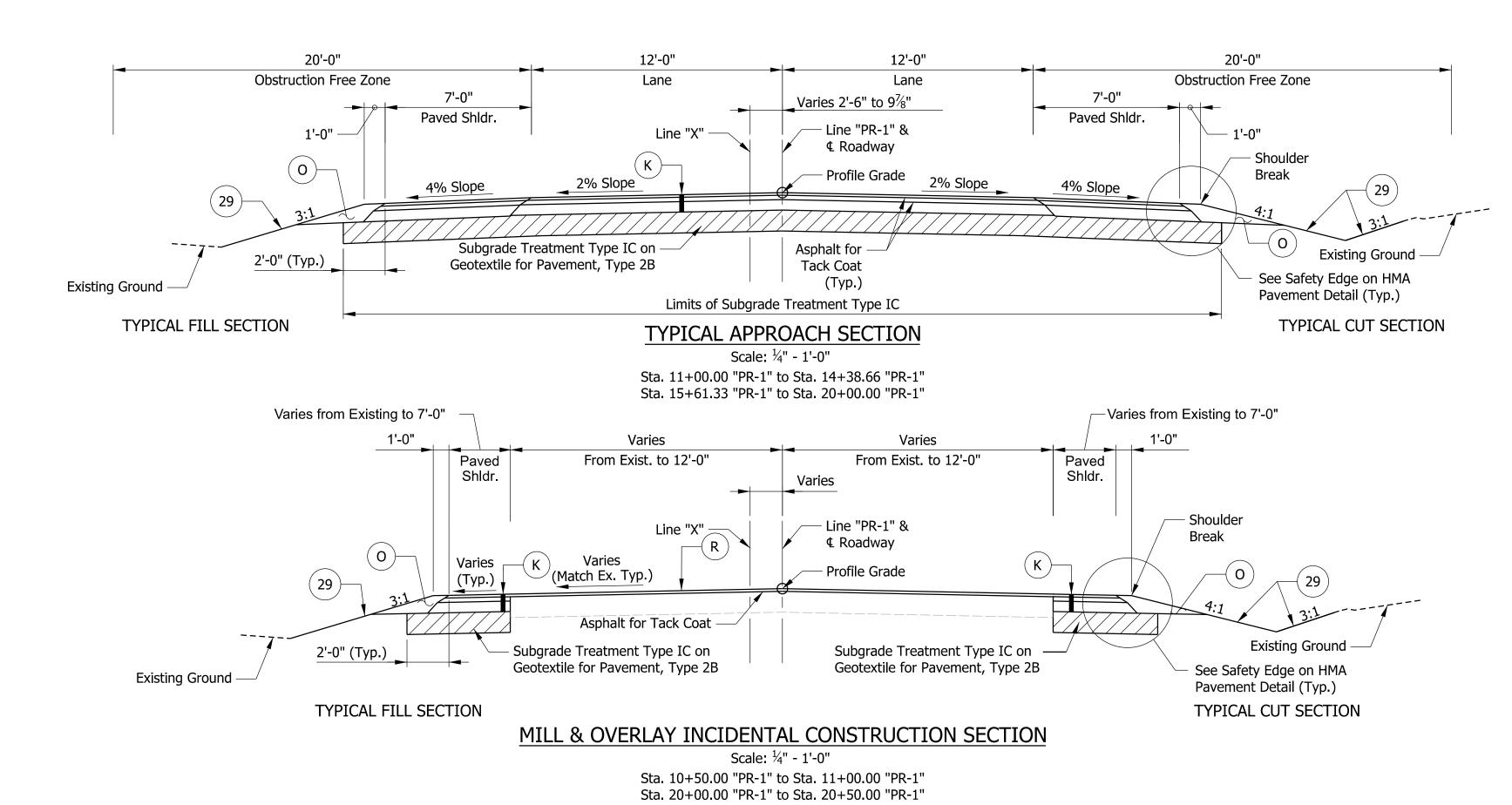
	INDEX					
SHEET NO.	SUBJECT					
1	TITLE					
2	INDEX					
3	TYPICAL CROSS SECTIONS					
4	PLAT NO. 1					
5 MAINTENANCE OF TRAFFIC DETOUR ROUTE						
6	EROSION CONTROL					
7	PLAN & PROFILE					
8 - 9	SOIL BORINGS					
10	LAYOUT					
11 - 12	GENERAL PLAN					
13	BRIDGE SUMMARY					
14	ROAD SUMMARY					
15 - 22	CROSS SECTIONS					





REFERENCE TIES

RECOMMENDED FOR APPROVAL	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A VERTICAL SCALE	BRIDGE FILE 009-48-10798 DESIGNATION		
DESIGN ENGINEER DATE	BEITHERI OF HOUSE OR INCHION	N/A	2100572		
DECICNED. DD DDAWN. LDV		SURVEY BOOK	SHEETS		
DESIGNED: RD DRAWN: LPK	INDEX	ELECTRONIC	2 of 22		
CHECKED	INDEX	CONTRACT	PROJECT		
CHECKED: KMS CHECKED: KMS		B-43949	2100572		





K HMA Pavement 165 LB/S

165 LB/SYS QC/QA HMA, 3, 64, Surface, 9.5mm on 275 LB/SYS QC/QA HMA, 3, 64, Int., 19.00mm on 660 LB/SYS QC/QA HMA, 3, 64, Base, 25.0mm Subgrade Treatment Type IC on Geotextile for Pavement, Type 2B

O Variable Depth Compacted Aggregate Base, No. 53

(R) 165 LB/SYS QC/QA HMA, 3, 64, Surface, 9.5mm on Transition Milling

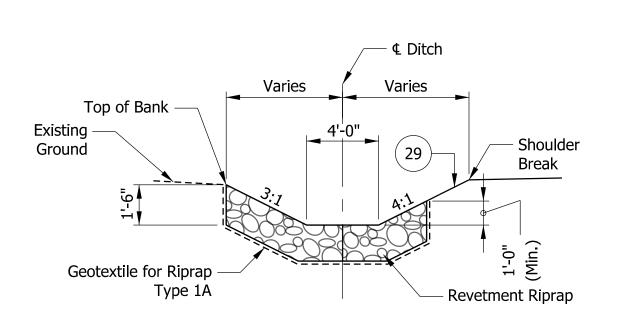
(29) Mulched Seeding, Type R

Subgrade Treatment Type IC

NOTES:

*A safety ledge shall be placed in the surface and intermediate layers of all edges of pavements that are not bound by a curb or barrier wall or adjacent to guardrail.

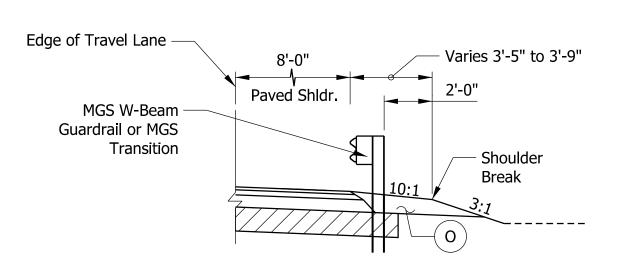
*See E601-DRIV for additional information regarding Class II & Class V Drives.



TYPICAL REVETMENT RIPRAP FLAT BOTTOM DITCH DETAIL

Not to Scale

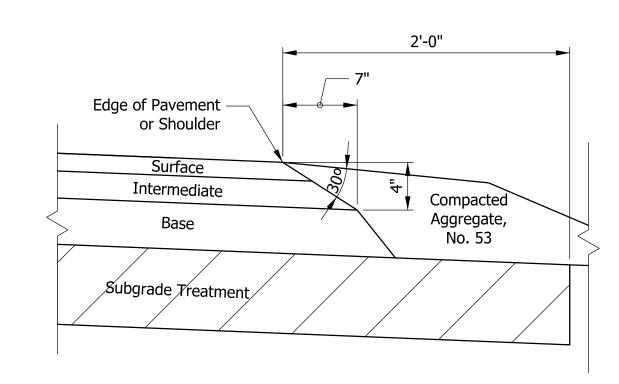
Sta. 12+20 "PR-1" Rt. to Sta. 14+65 "PR-1" Rt. Sta. 17+65 "PR-1" Lt. to Sta. 20+50 "PR-1" Lt. Sta. 19+45 "PR-1" Rt. to Sta. 20+50 "PR-1" Rt.



TYPICAL HALF SECTION WITH GUARDRAIL

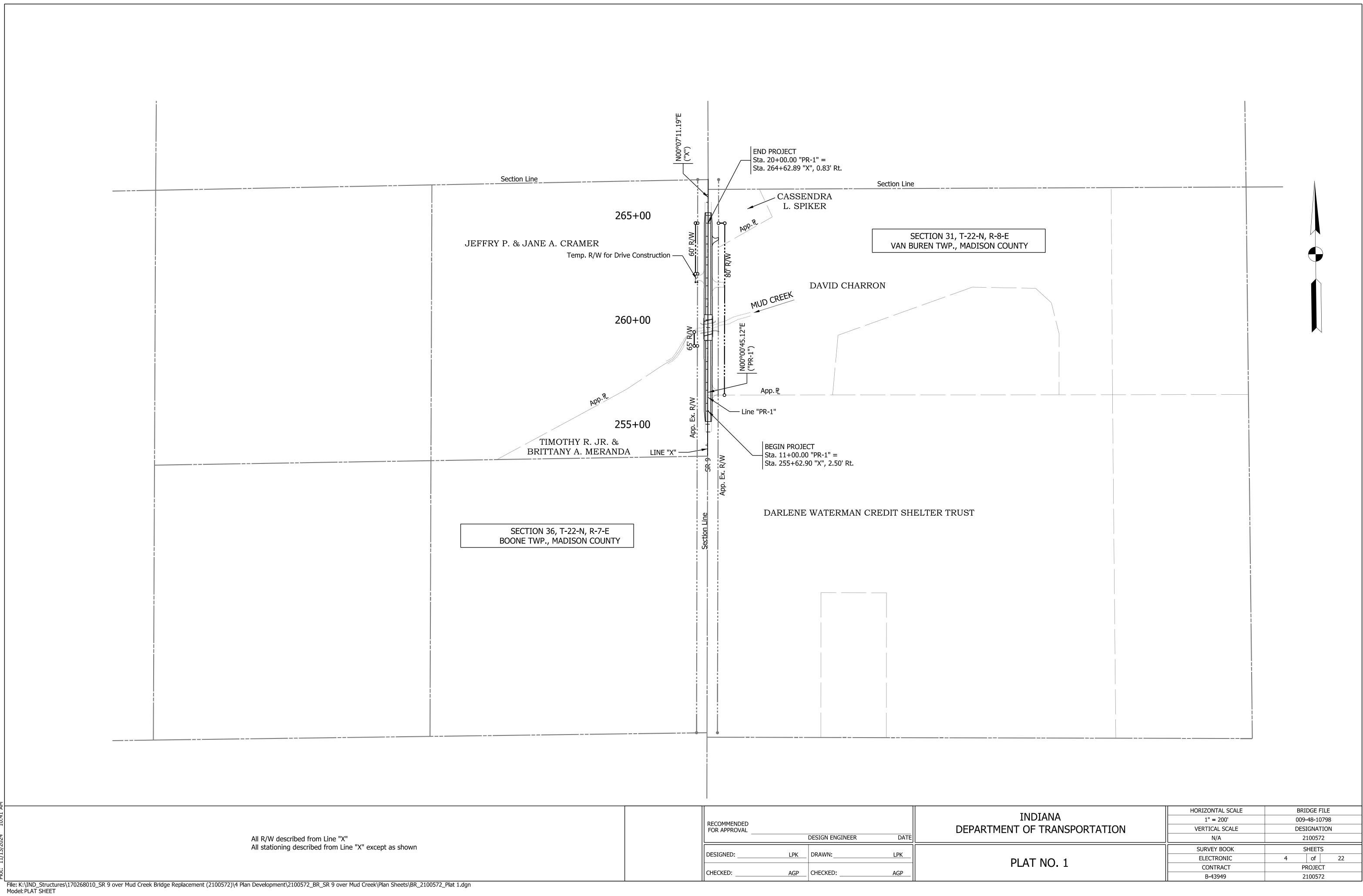
Scale: $\frac{1}{4}$ " - 1'-0"

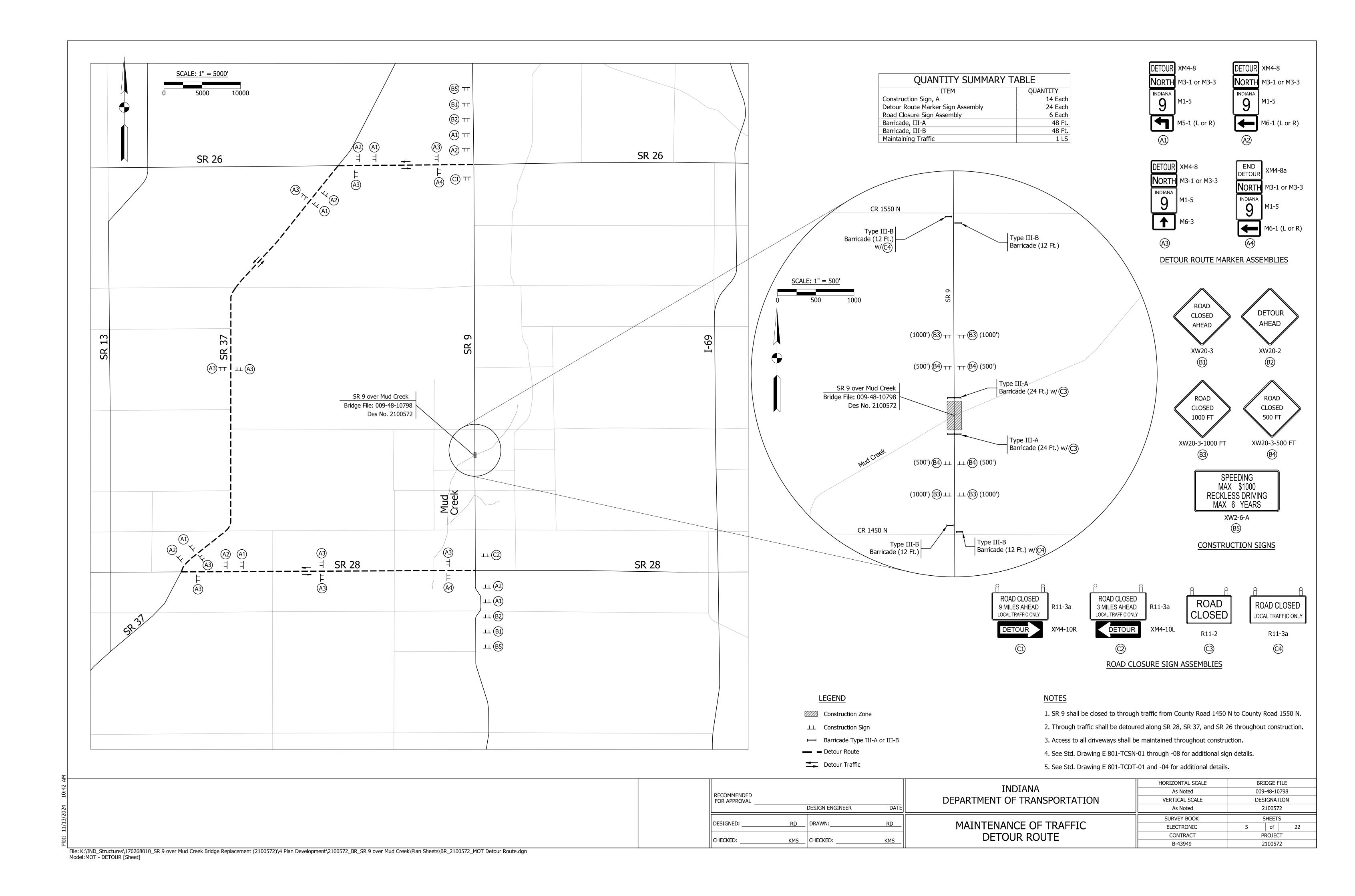
See Plan & Profile Sheet for Locations

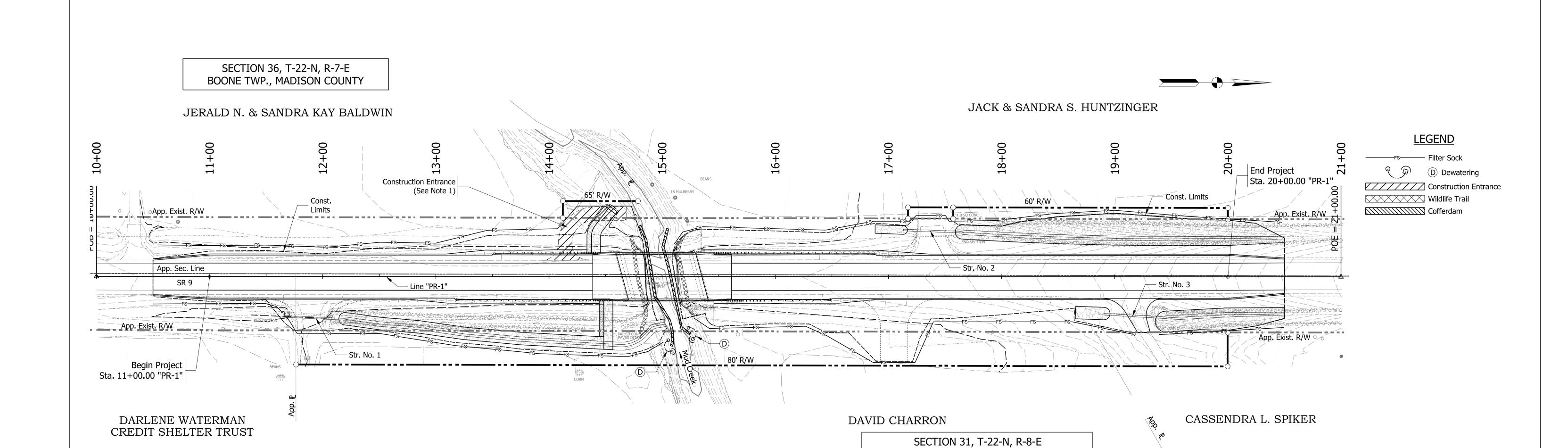


SAFETY EDGE ON HMA PAVEMENT Not to Scale

RECOMMENDED FOR APPROVAL				INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE As Noted VERTICAL SCALE	009	IDGE FILE 9-48-1079 SIGNATIO	8
		DESIGN ENGINEER	DATE		As Noted	2	2100572	
DECICNED:	ESIGNED: RD DF	DD AMAL.		SURVEY BOOK	SHEETS			
DESIGNED:		_ DRAWN:	DRAWN: LPK	TYPICAL CROSS SECTIONS	ELECTRONIC	3	of	22
CLIECKED.	ECKED: KMS CHECKED: KMS	TIPICAL CROSS SECTIONS	CONTRACT	PROJECT				
CHECKED:		KMS_		B-43949	2100572			







#53 Compacted Aggregate

TEMPORARY SEEDING (0.61 ac	c)	3'-0" Wildlife Path — →
Mobilization and Demobilization for Surface Stabilization	2 EA	
Temporary Seed (150 lb/ac)	91.5 LBS	<u>▼ </u>
Temporary Mulch (2.5 ton/ac)	1.53 TON	
Fertilizer (400 lb/ac)	244 LBS	
PERMANENT SEEDING (0.61 ac	c)	19" Poyotmont Dipro-
Mobilization and Demobilization for Seeding	2 EA	── 18" Revetment Ripra
Mulched Seeding, Type R	2952 SYS	
		WILDLIFE PATH CROSS
		Not to Scale
OTHER EROCION CONTROL OHANI		
OTHER EROSION CONTROL QUANT		
Filter Sock	2009 LFT	
CONSTRUCTION ENTRANCE QUANT	TITIES	
* No. 2 Stone (12" Min.)	100 TON	
* Geotextile for Construction Entrance	235 SYS	
	1 EA	
**Concrete Washout		

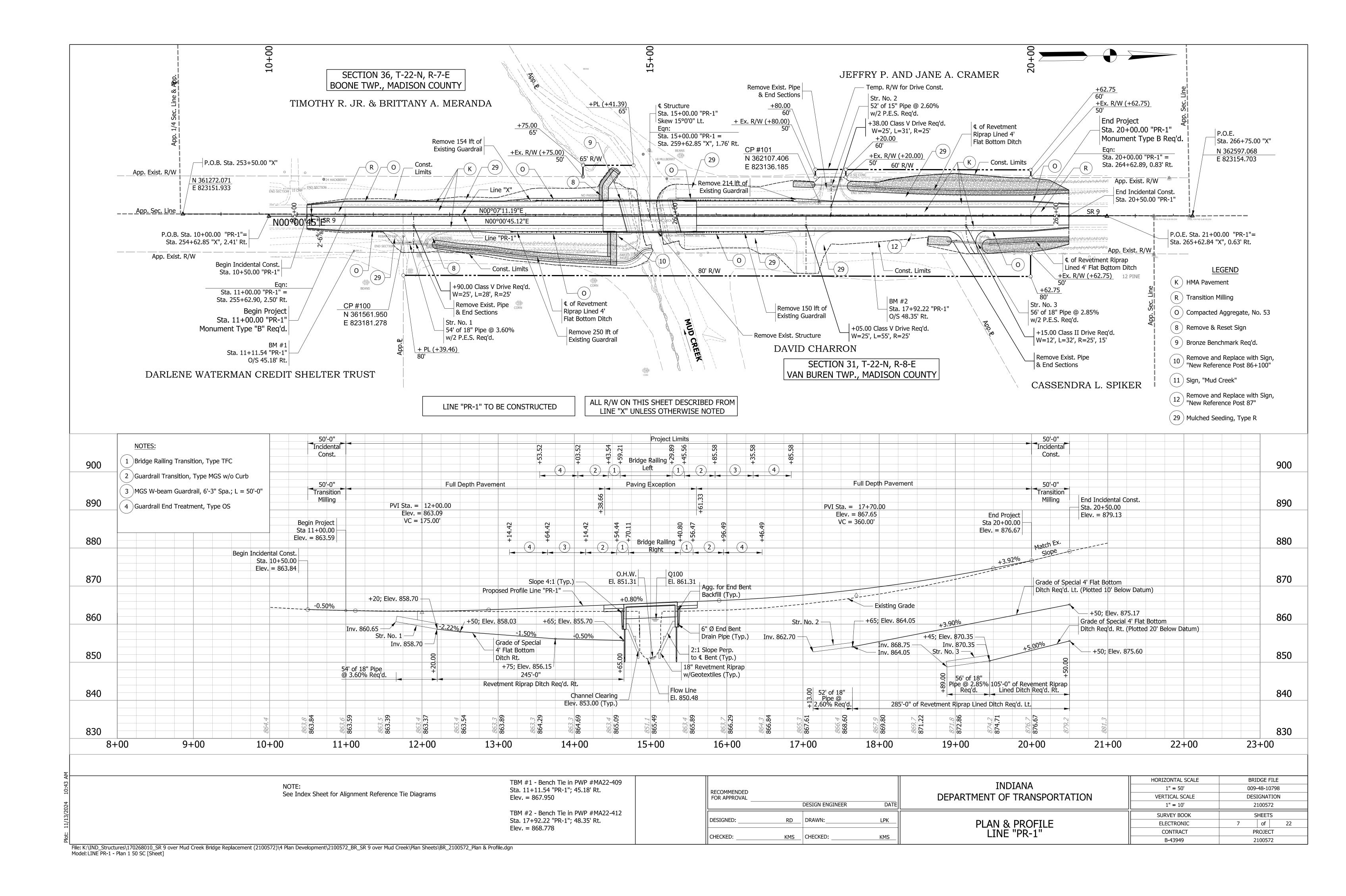
GENERAL CONSTRUCTION NOTES

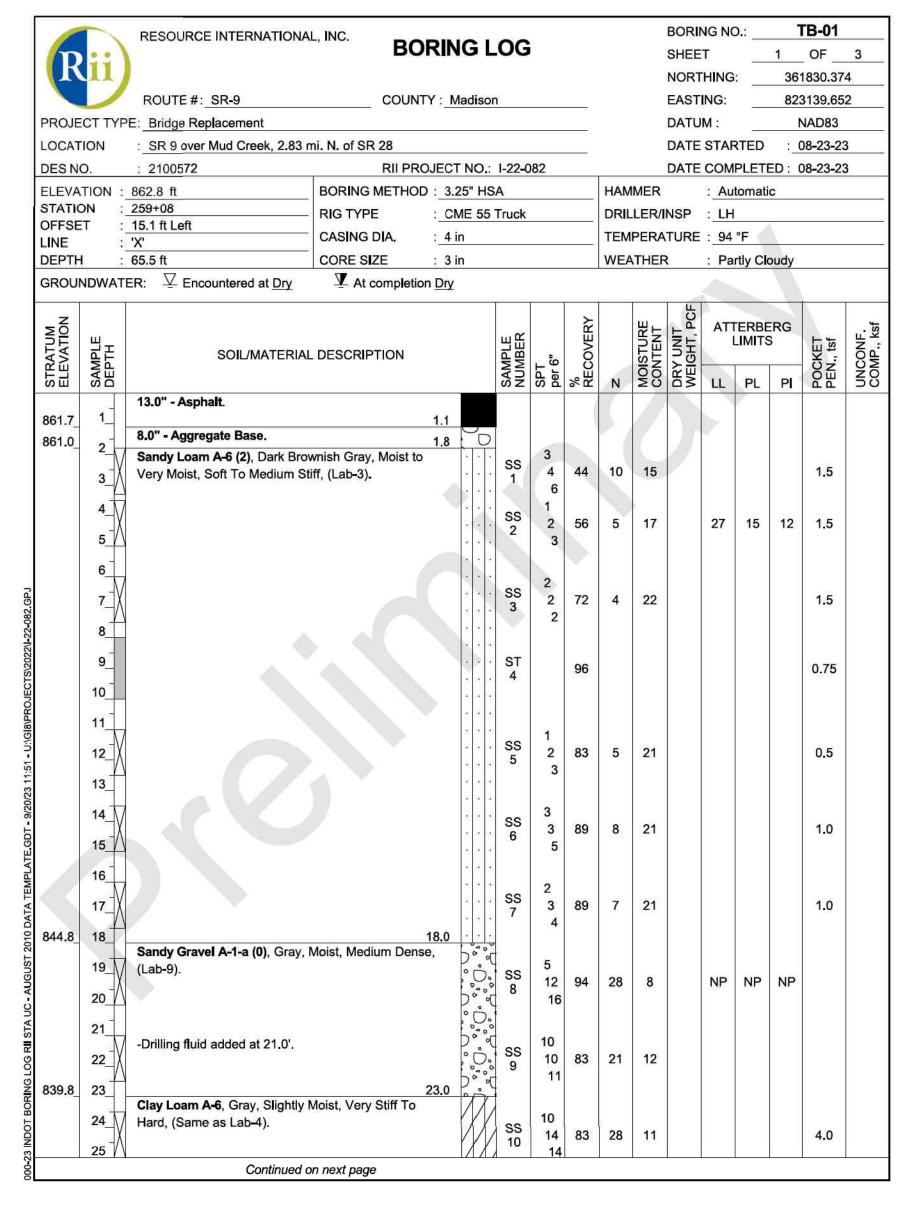
VAN BUREN TWP., MADISON COUNTY

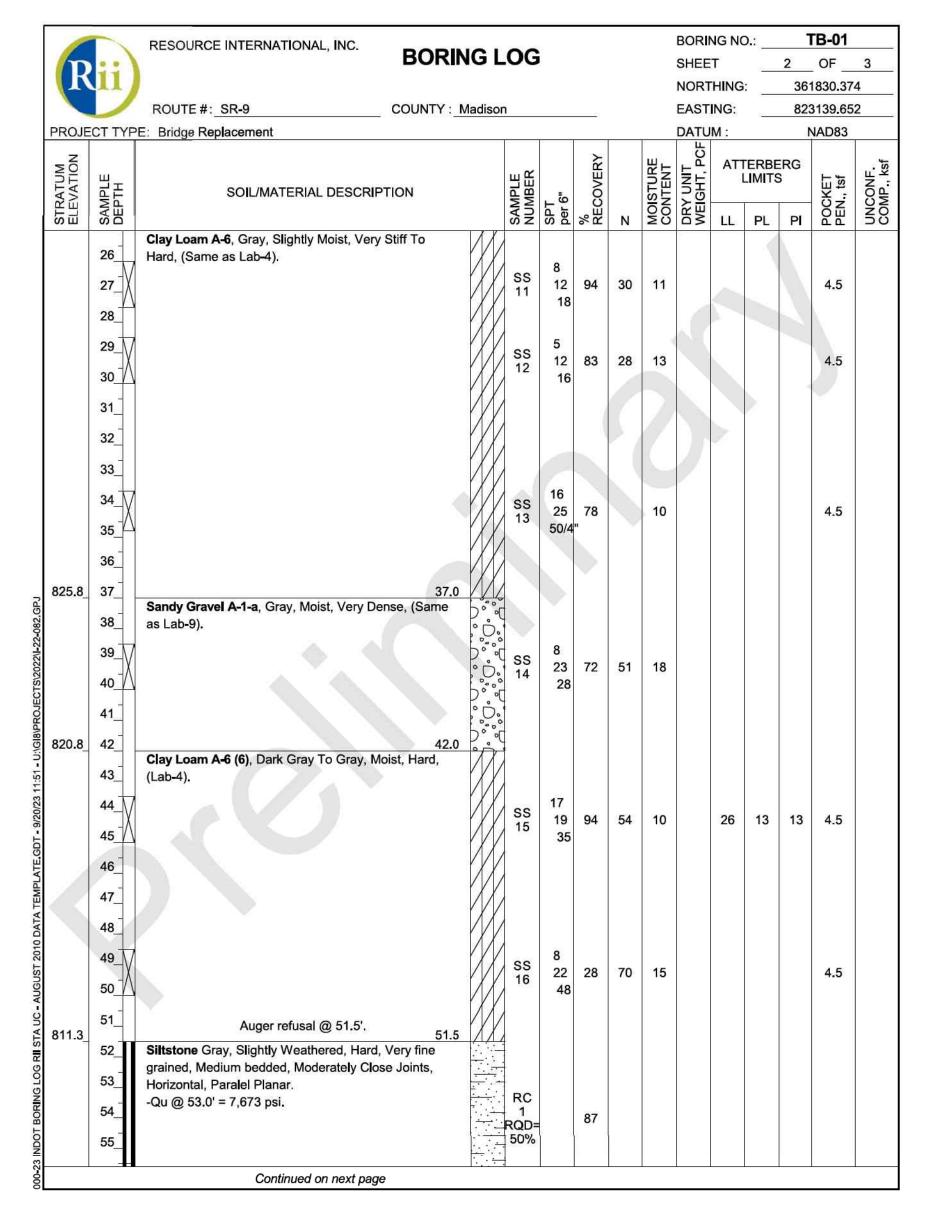
- 1. Construction Entrance shown for reference only. A minimum of one construction entrance shall be provided. Contractor to identify required number of construction entrances and locations.
- 2. The Erosion and Sediment Control Measures shall be installed and maintained in accordance with the details shown on the Plans, INDOT Standard Specifications Section 205, INDOT Standard Drawings, and the IDEM Storm Water Quality Manual.
- 3. Concrete washout areas shall be installed and utilized as containment for washing equipment of uncured concrete and associated liquids. All concrete washout water shall be discharged to a concrete washout area. Locations for washouts are not shown on the plans, but shall be dependent upon field conditions and shall be placed away from water channels and other stormwater.
- 4. Temporary surface stabilization shall be accomplished by the use of a temporary seeding mixture along with temporary mulching. The temporary seed mixture shall be used to establish a temporary cover for disturbed soils during the construction operations. Temporary seeding shall be placed on disturbed areas that are expected to be idle for over 7 days or as directed by the Engineer. Placement of the temporary surface stabilization shall be as per the INDOT Standard Specifications, Section 205.
- 5. Where pavement is not proposed, permanent surface stabilization shall be achieved by the use of a seeding mixture, along with mulching material/erosion control blankets and fertilizer or sod. Placement of the permanent surface stabilization shall occur upon final grading in areas and shall be per INDOT Standard Specifications, Section 621, unless otherwise specified.
- 6. Temporary impacts within streambed shall be restored to preconstruction conditions and any impacts to native substrate shall be replaced.

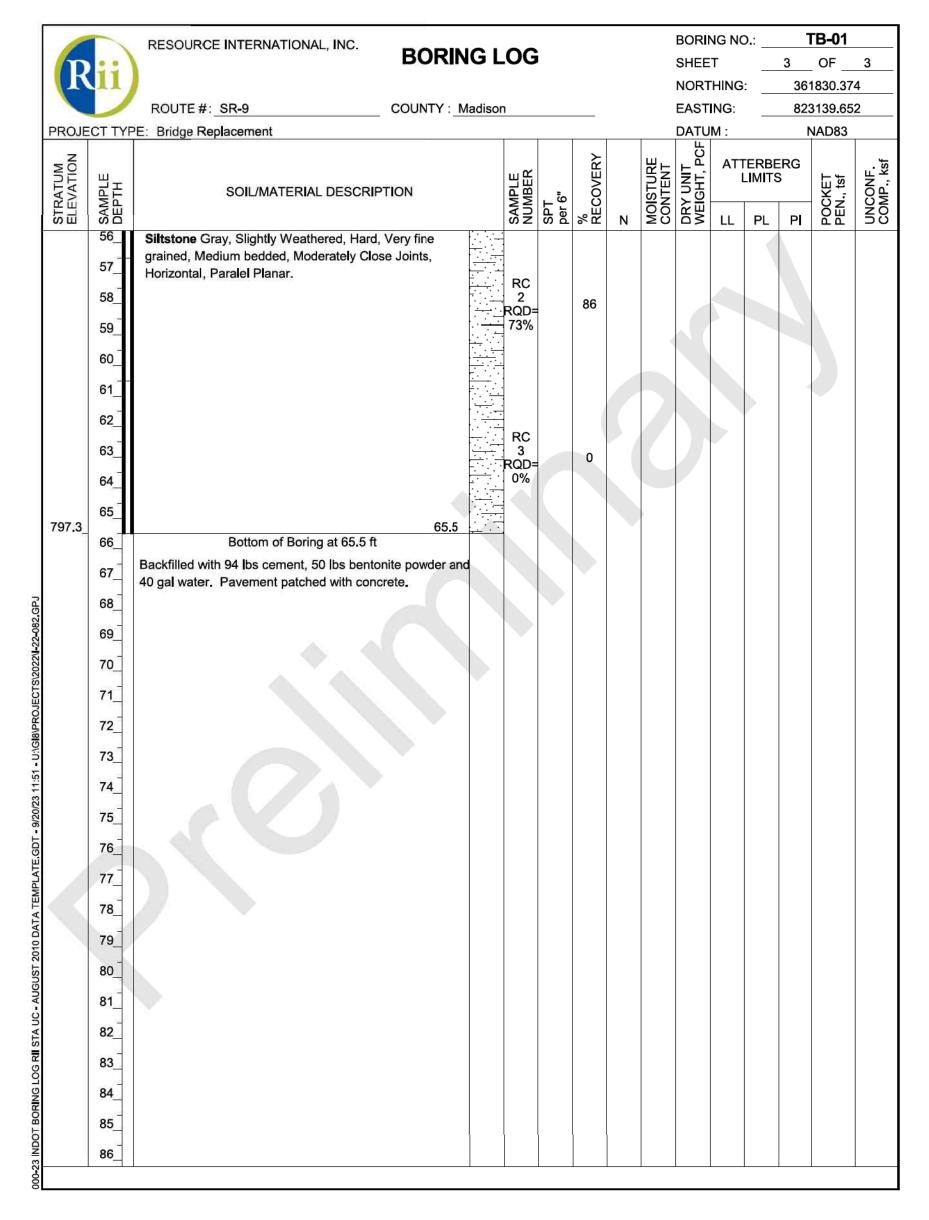
TNIDIANA		TNIDTANIA	HORIZONTAL SCALE	BRIDGE FILE		
Ш,	RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION	1" = 40'	009-48-10798	
				VERTICAL SCALE	DESIGNATION	
		DESIGN ENGINEER DATE		1" = 40'	2100572	
		DD AWAL		SURVEY BOOK	SHEETS	
	DESIGNED: RD DRAWN: LPK		EDOCION CONTROL	ELECTRONIC	6 of 22	
$\ \ _{\mathcal{L}}$	EROSION CONTROL		CONTRACT	PROJECT		
\mathbb{T}_{c}	CHECKED: KMS	CHECKED: KMS		B-43949	2100572	

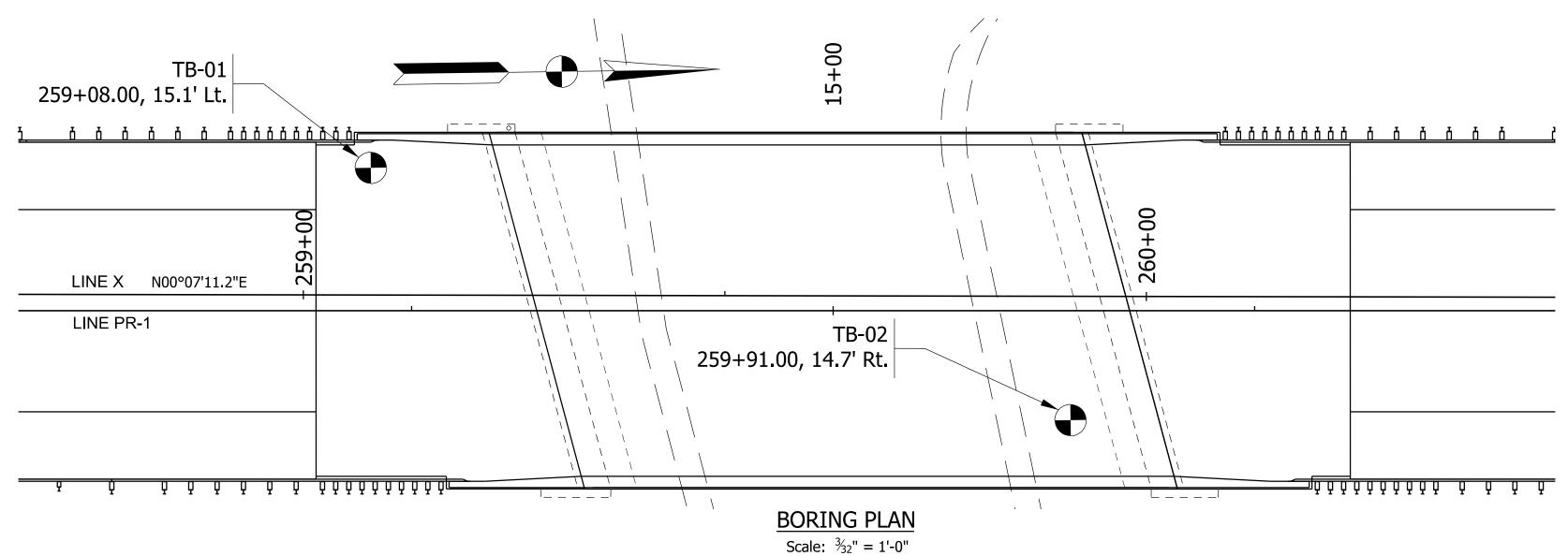
** Not Paid For Directly











PILE LOADING FOR GEOTECHNICAL TESTING						
Bent No. 1 Bent No						
Pile Size, Type, and Grade	HP 12 x 53 Grade 50 ksi	HP 12 x 53 Grade 50 ksi				
Factored Design Load, Qf (kip)	TBD	TBD				
Factored Design Soil Resistance, Rr (kip)	TBD	TBD				
Resistance Factor	TBD	TBD				
Downdrag Load, DD (kip), Due to Embankment Fill	TBD	TBD				
Downdrag Load, D (kip), Due to Liquefaction	TBD	TBD				
Nominal Soil Resistance, Rn (kip)	TBD	TBD				
Downdrag Friction, Rs (kip)	TBD	TBD				
Scour Zone Friction, Rn (kip)	TBD	TBD				
Relaxation of Tip in Shale (kip)	TBD	TBD				
Nominal Driving Resistance, Rndr (kip)	TBD	TBD				
Estimated Pile Tip Elevation (Minimum)	TBD	TBD				
Testing Method	ISS Section 70	01.05(b) (PDA)				

NOTES:

Pile shoes are required at all locations.

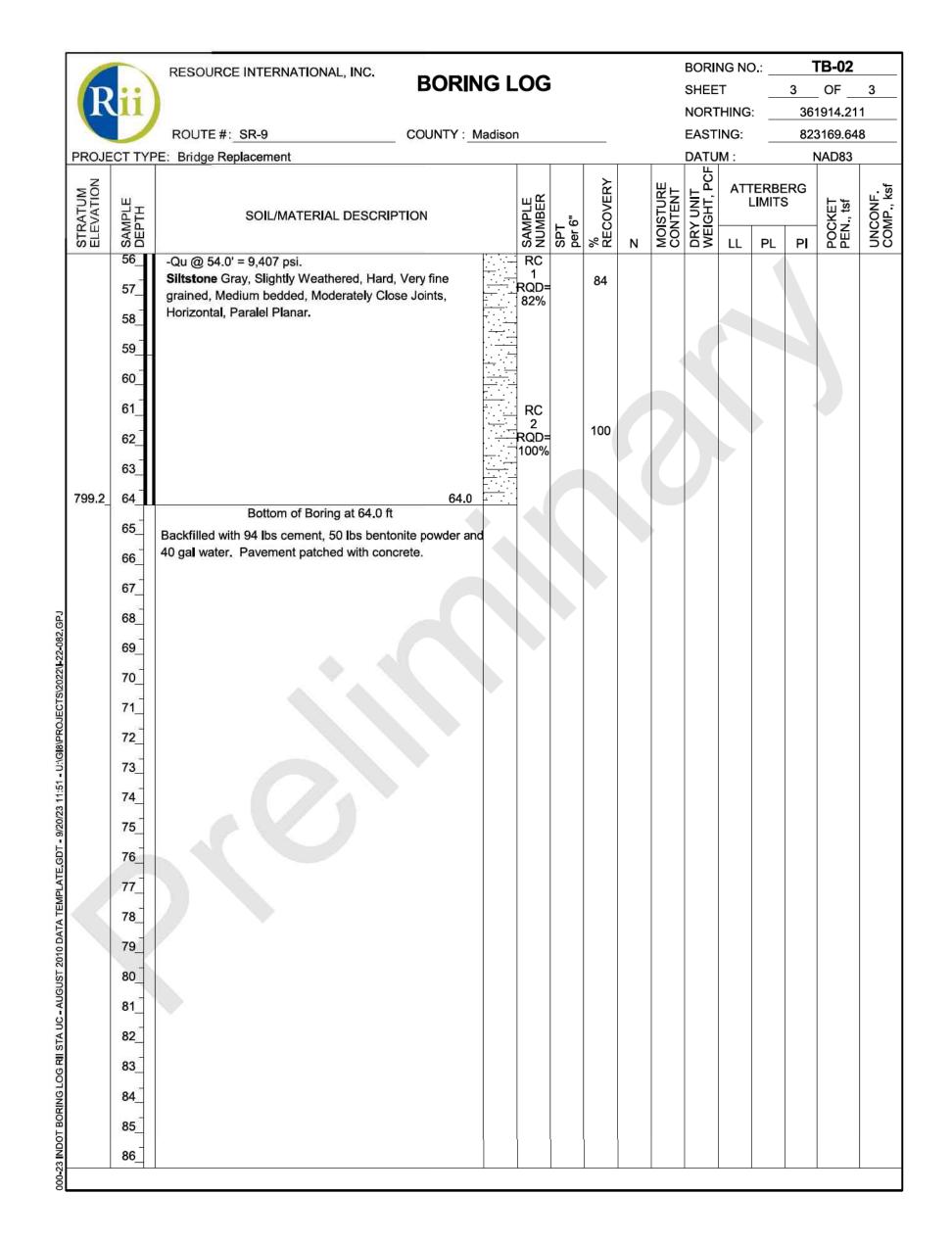
The restrike tests for piles shall be performed no sooner than 2 days following the initial drive.

RECOMMENDED FOR APPROVAL DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE $\frac{3}{32}" = 1'-0"$ VERTICAL SCALE $\frac{3}{32}" = 1'-0"$	BRIDGE FILE 009-48-10798 DESIGNATION 2100572		
DESIGNED: DRAWN:	LPK	SOIL BORINGS	SURVEY BOOK ELECTRONIC	8	SHEETS 22	2
CHECKED: KMS CHECKED:	KMS	SOIL BORINGS	CONTRACT B-43949		ROJECT 100572	

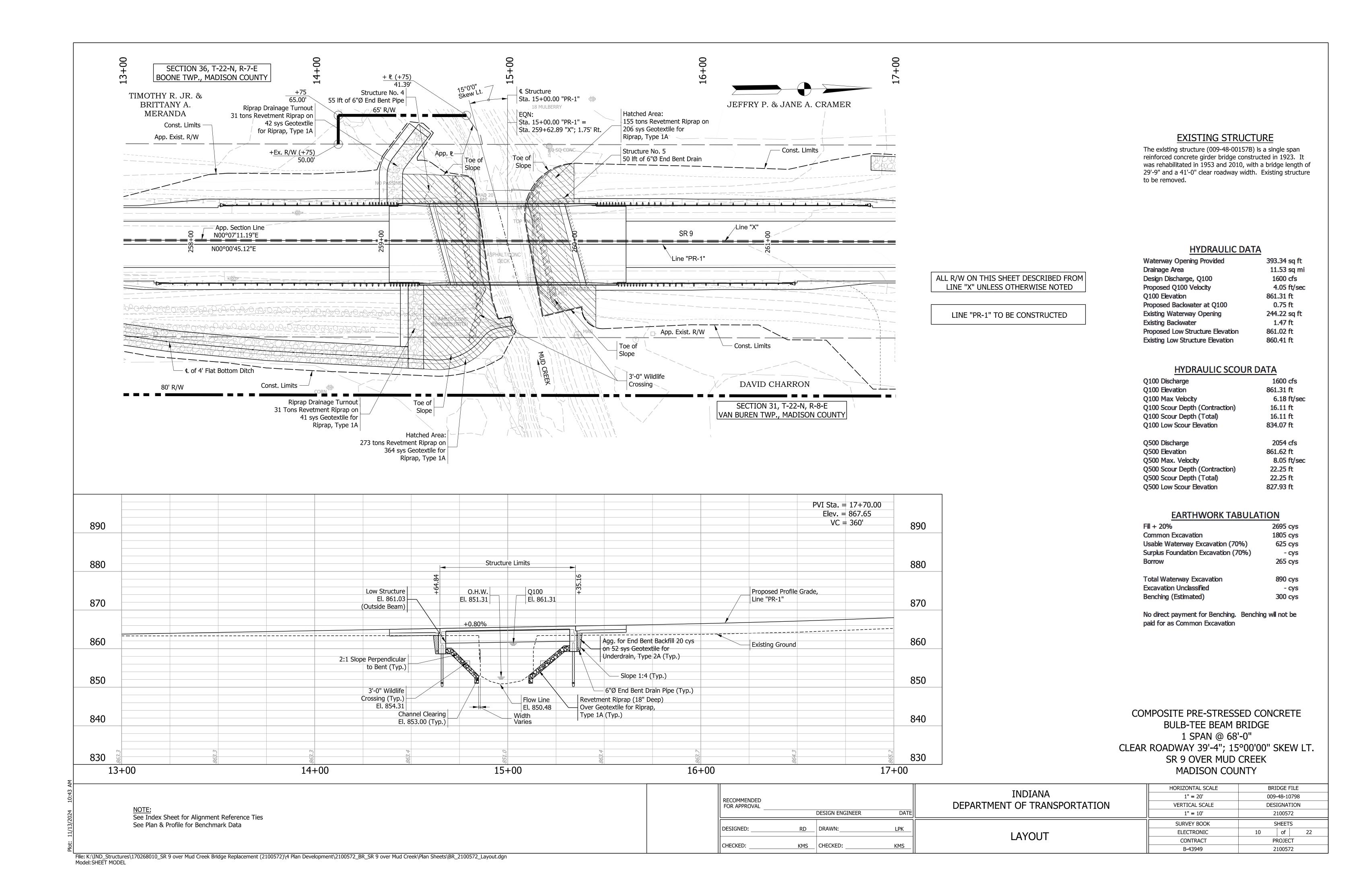
File: K:\IND_Structures\170268010_SR 9 over Mud Creek Bridge Replacement (2100572)\4 Plan Development\2100572_BR_SR 9 over Mud Creek\Plan Sheets\BR_2100572_Soil Borings.dgn Model:LINE PR-1 - PLAN PR-1 [Sheet]

	1	RESOURCE INTERNATIONA	L, INC.	ORING	LOG	1				BORIN		ر.:		ΓB-02	201
P	ii)		D(DINING	LUG					SHEE		_	1		3
T	11									NORT		: <u> </u>		1914.21	
		25-100 32-10-10-10-10-10-10-10-10-10-10-10-10-10-	cour	NTY : Madis	son					EASTI		_		3169.64	8
		E: Bridge Replacement					====			DATU		_		NAD83	
LOCAT		: SR 9 over Mud Creek, 2.83 r			N N 19 12 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15	oranan							-	08-21-2	
DES NO		: 2100572		ROJECT NO		082		000000	(II - co - e.s.)		-			08-21-2	3
STATIC	-	863.2 ft 259+91	BORING METHO	0.					MER			tomati	С		
OFFSE		14.7 ft Right	RIG TYPE	: CME 5	5 Truck			HUNG-SON		NSP	200		ß.		
LINE	-	'X'	CASING DIA.	73 .						TURE		7			
DEPTH		64.0 ft ER: ∑ Encountered at <u>Dry</u>	CORE SIZE	: 3 in				VVE	ATHEF	(: Pa	rtly Cl	ouay		
GROUN	IDWATE	ER: 👱 Encountered at Dry	▼ At complet	ion <u>Dry</u>					7				1/7		T
STRATUM ELEVATION	T.E	SOIL/MATERIAL	. DESCRIPTION		SAMPLE	10	% RECOVERY		MOISTURE	DRY UNIT WEIGHT, PCF	ΑΤ	TERBE	ERG	KET , tsf	UNCONF.
STR	SAMPLE DEPTH	40.00			SAM	SPT per 6"	% REC	N	MOS	DRY	LL	PL	PI	POCKET PEN., tsf	ONO
862.2_	1_	12.0" - Asphalt.		1.0											
861.1_	2_	13.0" - Aggregate Base.		2.1	A .	4				JI					
860.0_	3_\	Sand and Gravel A-1-a, Brown Moist, Loose, (Aggregate Base	g	3.2	SS 9 1	5	56	6							
	4_\	Clay Loam A-6 (8), Grayish Bro	own, Very Moist, V	ery	ss	3 2		V	-						
	5\	Soft To Soft, (Lab-5).			2	2	33	5	25					1.25	
	6														
	7_\				SS 3	2 1 2	67	3	30		32	17	15	0.75	
	8_ 9 \/					0									
853.2_	10			10.0	SS 4 2S	1	0	2							
	11	Silty Clay Loam A-6 (8), Brown Moist, Soft To Very Stiff, (Lab-6		* *	# 4A	2	100		31					0.75	
	12	moior, core to very carry, (2005)		4/4	ss	1 2	72	4	22					0.75	
	13				5	2								00	
	14_ 15			44	ST 6		100				28	14	14		0.76
	16			4/4	<i>F</i>	3									
845.2	17			18.0	# SS + 7	6 11	33	17	19					0.5	
	19	A-1-b (0), Brown, Moist, Medium (Lab-7).	m Dense To Dense		. SS . 8	10 17 14	83	31	13						
	21			8 8 8 8 8 8	. SS 9	15 16 14	72	30	10		NP	NP	NP		
838.9_	23_ 24_ 25			24.3	SS /+ 10	5 17 16	61	33	8						
	25 / \	Continued of	n novt nogo	V 1/	1/1	16	<u> </u>		10					I	

1		RESOURCE INTERNATIONAL, INC.	- Colored at the Colored Colored							BORII	NG NO	D.:	J	ГВ-02	
T	::)		BORING	L	OG					SHEE			2		3
K										NORT	HING	:	361	1914.21	1
		ROUTE#:_SR-9	COUNTY : Mad	lison						EAST	ING:	2	823	3169.64	8
PROJE	CT TYP	E: Bridge Replacement				1		i:		DATU	М:		١	NAD83	1
STRATUM ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIP	TION		SAMPLE	•	% RECOVERY		MOISTURE	DRY UNIT WEIGHT, PCF	ATT	ERBE	ERG	POCKET PEN., tsf	UNCONF.
STR	SAM DEP				NAM VEN	SPT per 6"	% SEC	N	S S	YE N	LL	PL	PI	N N	S
0,Ш	, 0, L	Silty Clay Loam A-6, Gray, Slightly Moist	o Moist,	+/+/	0, 2	0, 11	0 · III	, alv	20		LL	F.L	FS.Id	LL:U	
	26	Hard, (Same as Lab-6).	\ - }	4/4		12									
	27_\		7	**	SS 11	16	67	38	12					4.25	
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			4)	AA		20									
	36_		\mathcal{A}	11			$\mathbf{\nabla}$								
826.2_	37_	Crevelly Sand A.4 b (0) Crevials Desum T	37.0	ZZ											
	38_	Gravelly Sand A-1-b (0), Grayish Brown T Moist to Wet, Dense To Very Dense, (Lab		Ŏ.											
	39 \/		8	8000		16									
	X		50	800	SS 14	20	100	46	7						
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	52_		Do	8000											
	53_		8	O;											
gaggere nee	581		8	000	SS 17	50/0"	0								
809.2_	54	Siltstone Gray, Slightly Weathered, Hard,	Very fine		17	55/5	J								
	55_	grained, Medium bedded, Moderately Clos		-											
		Horizontal, Paralel Planar.													



HORIZONTAL SCALE BRIDGE FILE INDIANA $\frac{3}{32}$ " = 1'-0" 009-48-10798 RECOMMENDED FOR APPROVAL DEPARTMENT OF TRANSPORTATION VERTICAL SCALE DESIGNATION DESIGN ENGINEER DATE $\frac{3}{32}$ " = 1'-0" 2100572 SURVEY BOOK SHEETS RD DRAWN: DESIGNED: **ELECTRONIC** of SOIL BORINGS CONTRACT PROJECT AGP CHECKED: AGP CHECKED: B-43949 2100572



STRUCTURE TO BE BUILT ON +0.80% GRADE Low Structure Concrete Bridge Railing El. 861.02 Transition, Type TFC (Typ.) (Outside Beam) Profile Grade Concrete Railing, O.H.W. MGS Guardrail Transition Q100 El. 851.31 El. 861.31 Type FC (Typ.) Line "PR-1" without Curb (Typ.) TEL 860.10 -----Integral Integral Existing Ground — HP 12x53 Steel Piles W/Pile Shoes Driven to TBD kips per Pile-El. 860.70 Nominal Driving Resistance (Typ.) 3'-0" Wildlife 2:1 Slope Perpendicular Crossing (Typ.) to Bent (Typ.) Flow Line 18" Revetment Riprap EI. 850.48 2'-0" on Geotextiles (Typ.) Riprap Key (Typ.) Channel Clearing El. 853.00 BENT NO. 1 BENT NO. 2 **ELEVATION** Scale: $\frac{3}{32}$ " = 1'-0" Revetment Riprap Drainage Turnout (Typ. SW & SE Quadrants) (See Sheet 8 for Details) | Limits of Revetment Riprap (See Layout sheet for locations & quantities) Sod (Typ.) -Slope (Typ.) _ 15°0'0" Skew Lt. | **L** Bent No. 1 | **L** Structure ∣ **L** Bent No. 2 Bronze ⊢Sta. 15+00.00 "PŔ-1" 片Sta. 15+34.00 "PR-1" Sta. 14+66.00 "PR-1" Benchmark P.G. 865.76 P.G. 865.22 P.G. 865.49 Signs (2), "Mud Creek", WING D Mount on Single Sign Post WING A \Coping -Face of Railing, Type FC 70'-4" Out to Out Bridge Floor End of Bridge Floor (Typ.) 68'-0" £ of Bent to £ of Bent 1'-2" SR 9 ____ Salitation | SI | Print | SI | Print Sta. 15+61.33 "PR-1" Sta. 14+38.66 "PR-1" N00°07'11.19"E N00°00'45.12"E Line "PR-1" £ Structure & Type I-A **£** Roadway Joint (Typ.) \ Face of Railing, \Typ\e FC Coping ——' WING B WING C 3'-0" Wildlife Crossing **€** Structure · ⊈ Bent No. 1 **L** Bearing & € Bent No. 2 3'-0" Wildlife Crossing 4'-0"-Toe of Slope Limits of Revetment Riprap (See Layout Sheet for Locations & Quantities) <u>PLAN</u>

Scale: $\frac{3}{32}$ " = 1'-0"

GENERAL NOTES

Reinforcing steel cover shall be 2 1/2" in top and 1" minimum in bottom of floor slab and 2" in all other parts, unless noted.

DESIGN DATA

Designed for HL-93 loading, in accordance with AASHTO LRFD bridge Design Specifications, Ninth Edition, 2020 and its subsequent revisions.

DEAD LOAD

Actual weight plus 35 lb/ft² for future wearing surface and 15 lb/ft² for permanent metal deck forms.

FLOOR SLAB

Designed with a $7\frac{1}{2}$ " structural depth plus $\frac{1}{2}$ " sacrificial wearing surface.

DESIGN STRESSES

<u>CON</u>	CRETE_
	Class C
	Class A

Class C f'c = 4,000 psi Class A f'c = 3,500 psi

REINFORCING STEEL

Grade 60

f'y = 60,000 psi

CONSTRUCTION LOADING

The exterior beam has been checked for strength, deflection, and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior beam. Finishing machine was assumed to be supported 6 in. outside the vertical coping form. The top overhang brackets were assumed to be located 6 in. past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the beam bottom flange and web.

DECK FALSEWORK LOADS

Designed for 15 lb/ft² for permanent metal stay-in-place deck forms, removable deck forms, and 2-ft exterior walkway.

CONSTRUCTION LIVE LOAD

Designed for 20 lb/ft² extending 2 ft past the edge of coping and 75 lb/ft² vertical force applied at a distance of 6 in. outside the face of coping over a 30-ft length of the deck centered with the finishing

FINISHING-MACHINE LOAD

4500 lb distributed over 10 ft along the coping.

WIND LOAD

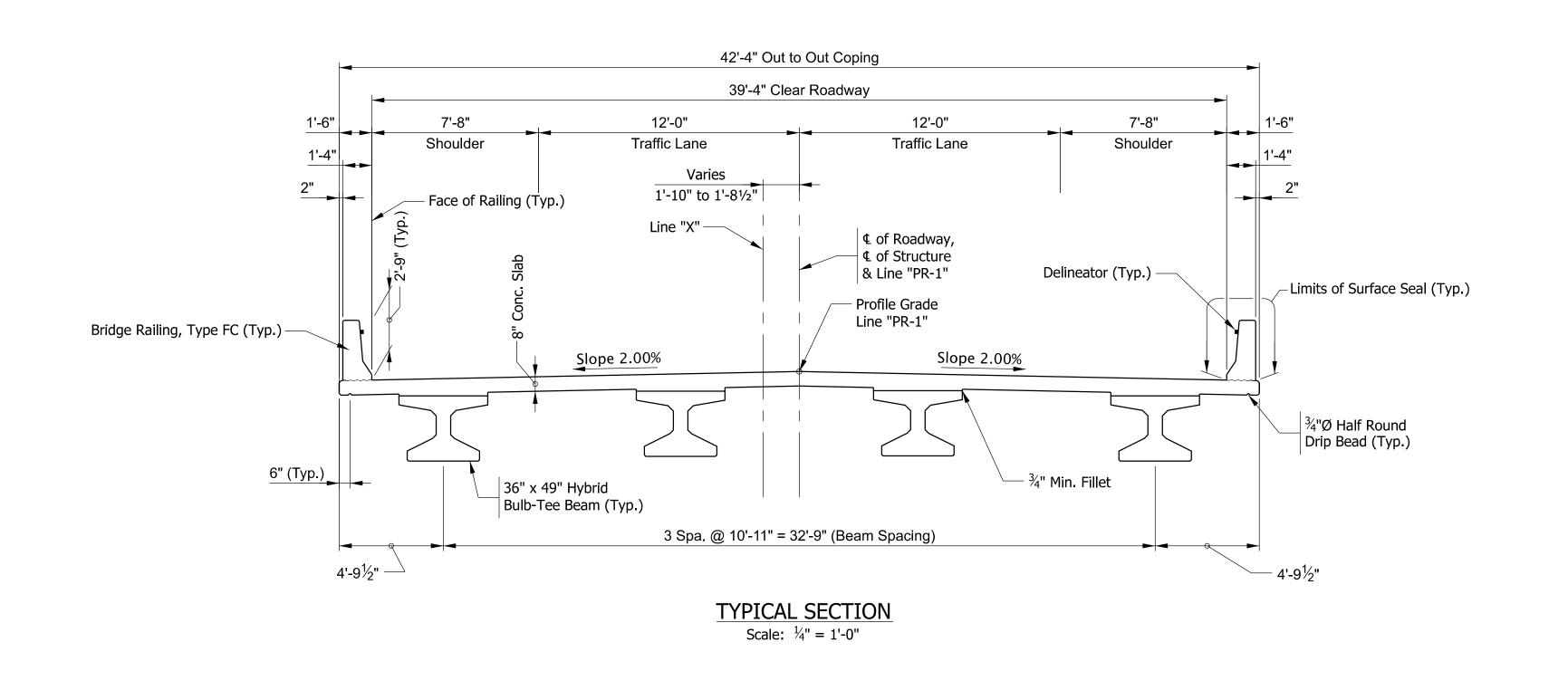
Designed for 70 mph horizontal wind loading in accordance with LRFD

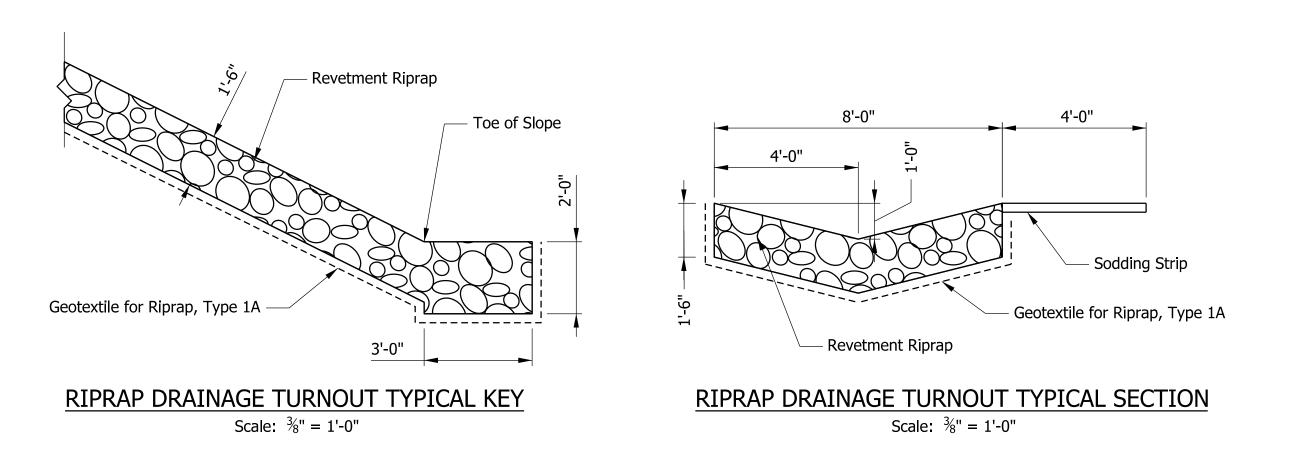
SEISMIC DESIGN DATA

Seismic Performance Zone Acceleration Coefficient Seismic Soil Profile Zone 1 0.106 Site Class D

COMPOSITE PRE-STRESSED CONCRETE
BULB-TEE BEAM BRIDGE
1 SPAN @ 68'-0"
CLEAR ROADWAY 39'-4"; 15°00'00" SKEW LT.
SR 9 OVER MUD CREEK
MADISON COUNTY

HORIZONTAL SCALE **BRIDGE FILE** INDIANA ³/₃₂"= 1'-0" 009-48-10798 RECOMMENDED FOR APPROVAL DEPARTMENT OF TRANSPORTATION VERTICAL SCALE DESIGNATION DESIGN ENGINEER DATE ³/₃₂"= 1'-0" 2100572 SURVEY BOOK SHEETS DESIGNED: DRAWN: **ELECTRONIC** of 11 **GENERAL PLAN** CONTRACT **PROJECT** CHECKED: KMS CHECKED: KMS B-43949 2100572





BULB-TEE BEAM BRIDGE

1 SPAN @ 68'-0"

CLEAR ROADWAY 39'-4"; 15°00'00" SKEW LT.

SR 9 OVER MUD CREEK

COMPOSITE PRE-STRESSED CONCRETE

INDIANA

INDIANA

DESIGN ENGINEER

DATE

MADISON COUNTY

HORIZONTAL SCALE
BRIDGE FILE

1/4" = 1'-0"
009-48-10798
VERTICAL SCALE
DESIGNATION

RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE ½" = 1'-0" 2100572 SURVEY BOOK SHEETS RD DRAWN: DESIGNED: ELECTRONIC 12 of **GENERAL PLAN** CONTRACT PROJECT CHECKED: KMS CHECKED: B-43949 2100572

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		CONC			CONCRETE		REINF.		BADDIED	REINF. CONC.	DENSE		ANCHOR					PIL						GRA	TES	СО	NC. STR. M	1EMBERS	
ITEM	CLASS C SUPERSTR	CLASS A SUBSTR	ABOVE FTG.	ASS B IN FTG.	CONCRETE RAILING CLASS C	REINF. BARS	REINF. BARS, EPOXY COATED	RAILING STEEL	BARRIER DELIN- EATORS	REINF. CONC. BRIDGE APPROACH (SIZE)	DENSE GRADED SUBBASE	STRUCT. STEEL	ANCHOR PLATES MK-AP	STEEL PIPE (SIZE)	STEEL PIPE EPOXY COATED (SIZE)	STEEL H (SIZE)	STEEL H EPOXY COATED	STEEL H REINF. CONC. ENCASED	TEST PILE, DYNAMIC, PRODUCTION	TEST PILE, DYNAMIC, RESTRIKE	PILE SHOE (SIZE)	PILE TIP STEEL H (SIZE)	COR HOLE ROC	BASIN FITTI	IS, & EXP. J NGS, TYPE IRON	OINT E BOX TYPE	(BEAM E & SIZE T	I BEAM /PE & SIZE	SURFAC SEAL*
	CYS	CYS	CYS	CYS	CYS	LBS	LBS	LFT	EACH	SYS	CYS	LBS	EACH	LFT	LFT	LFT	LFT	LFT	LFT	EACH	EACH	EACH		FT LE	S LF	Т	LFT	LFT	SFT

** Estimated Quantity

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A VERTICAL SCALE N/A		009 DES	DGE FILI -48-1079 IGNATIO 100572	98
DESIGNED:	RD DRAWN:	LPK	BRIDGE SUMMARY	SURVEY BOOK ELECTRONIC	13		HEETS	22
CHECKED:	AGP CHECKED:	AGP	DRIDGE SUMMART	CONTRACT B-43949			ROJECT 100572	

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					ш	SURFA	CE BEYO	ND R/W	1										-		HM/	A MATERI	ALS						ATERIAL DR:									
LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	ANCE BEYOND R/W LIN	FED AGGREGATE BASE	НМА	CONCRETE		GF	RADE		EXCAVATI	DN A	EAK ZONE AT UKLVE	НМА	FOR APP	PROACHI	ES	SURFACE 9.5 mm		INTERMD. 19.0 mm		BASE 25.0 mm	HMA BASE 25 mm	SEAL COAT TYPE 2	SEAL COAT TYPE 5	PRIME COAT	TACK COAT	COMP		GGREGA NO. 53	TE FOR	COMP AGGREG SURFAC	PACTED GATE FOI CE NO. 7	PR '3		REMARKS
					DIST	ИРАС									ブ 	L	.BS. PER	R SYD.			LB	s. Per sy	D.								DE	PTH		DE	PTH			
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	LINE	PAINT		LINE E	EPOXY			LINE E	EPOXY		TRANSVERS THERMOPLAS	E MARKINGS FIC STOP LINE	TRANSVERSI CROSSHA		TRANSVERSI CROSSW	E MARKINGS 'ALK LINE	PAVEMENT MESSAGE THERMOPLASTIC LANE INDICATION ARROW	T MESSAGE OPLASTIC) "ONLY"	SNOWPLOWABLE
LOCATION	SOLID WHITE	SOLID YELLOW	SOLID WHITE	SOLID YELLOW	SOLID WHITE	SOLID YELLOW	BROKEN WHITE	BROKEN YELLOW	BROKEN WHITE	BROKEN YELLOW	SOLID WHITE	SOLID WHITE	SOLID YELLOW	SOLID YELLOW	SOLID WHITE	SOLID WHITE	/EMEN RMOPI ICATI	/EMENT HERMO WORD	
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	LOCATION					Т	SUM GS W-BEA							1	MCC TEDMI	NAL SYSTEM	
FROM STATION	TO STATION	LEFT	MEDIAN LEFT	MEDIAN RIGHT	RIGHT	MGS W-BEAM, 6 FT 3 IN. SPA.	STANDARD POST A 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.	GUARDRAIL END TREATMENT, OS, 31"	GUARDRAIL, MGS TRANSITION WITHOUT CURB	LINEAR GRADING	GUARDRAIL REMOVE	CABLE T	ERMINAL CHOR	REMAR
						LFT	LFT	LFT	LFT	LFT	EACH	EACH	LFT	LFT	EACH	EACH	
TOTALS																	

F	Right-d	of-Wa	y Mar	kers a	and M	onum	ents 7	Гable	
	LOCA	ATION				Monu	ments		
Station	Left	Center	Right	Offset	A	В	С	D	REMARKS
S		٥		0	Each	Each	Each	Each	
TOTAL									

				P	ΆΙ	VED	SIDE	DIT	CH, F	RIPR	AP D	ITCH	, AN	D SO	DDI	NG S	UMM	ARY	TABL	E.			
		LOCATION						P	AVED SI	DE DITC	Н			RIF	PRAP DIT	CH		,	SOD	DING			~
						王	ALLS	LENGTH	ТОТ	AL EQUI	VALENT I	PAY LENG	STHS	RIPRAP		S	IDE	53	Z	BREAK	BRIDGE	NG	ING FOR
	FROM	TO STATION	LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	CUT OFF WALLS (8' EQUIVAL. LENGT EACH)	LUGS (8' EQUIVAL. LEI EACH)						REVETMENT RI	UNIFORM	GEOTEXTILES	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER I	SODDING AT BR CONE	TOTAL SODDING	NURSERY SODDING LAWNS
						LFT	EACH	EACH	LFT	LFT	LFT	LFT	LFT	TONS	TONS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS
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24	LOC	ATIO	N		0	DESCRIPTION				FLOW LI	NE							АР	SS	N	Z							
STRUCTURE NUMBER	STATION	LEFT	CROSS	SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH	SKEW	COVER	UP STREAM	DOWN STREAM	SERVICE LIFE	SITE DESIGNATION	Hd	BACKFILL METHOD	STRUCTURE	BACKFILL TYPE	REVETMENT RIPRA	CONCRETE, CLASS A, FOR STR.	VIDEO INSPECTION	PIPE END SECTION		TED BOX SECTION			TY META SECTION		REMARKS
01				IN.			LFT		FT	ELEV.	ELEV.	YR		<u> </u>		TYPE	CYS	TON	CYS	LFT	EA.	TYPE	SLOPE	EA.	TYPE	SLOPE	EA.	
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A VERTICAL SCALE N/A	BRIDGE 009-48-1 DESIGNA 21005	10798 ATION
DESIGNED: RD	DRAWN:	LPK	ROAD SUMMARY	SURVEY BOOK ELECTRONIC	SHEE 14 of	TS 22
CHECKED: AGP	CHECKED:	AGP	ROAD SUMMART	CONTRACT B-43949	PROJE 21005	

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