FHWA-Indiana Environmental Document CATEGORICAL EXCLUSION / ENVIRONMENTAL ASSESSMENT FORM GENERAL PROJECT INFORMATION

Road No.	/County:	U.S. Highwa	. Highway (US) 6/SR 51, Lake County				
Designat	ion Number(s):	1900012					
Project Description/Termini: Bridge Project, 0.84 Mile South of State Road (SR) 51/Interstate (I) 80/94)/94		
Ca	tegorical Exclusion	, Level 2 – Re	equired Signatories: INI	OOT DE and/o	r INDOT ESD		
Х Са	tegorical Exclusion	, Level 3 – Re	equired Signatories: INI	DOT ESD			
Ca	tegorical Exclusion	, Level 4 – Re	equired Signatories: INI	OOT ESD and	FHWA		
En	vironmental Assess	sment (EA) -	Required Signatories: I	NDOT ESD ar	nd FHWA		
env			proposed action include ignatories must include				
Approval	INDOT	DE Signature a	and Date	IND	OT ESD Signature and	l Date	
	FHW	/A Signature an	d Date		1		
Release fo	or Public Involvem	nent _	N/A INDOT DE Initials an	nd Date	ADWP INDOT ESD Init	March 2, 2023 ials and Date	
Certification	on of Public Invol	vement	INDOT	Consultant Ser	rices Signature and Da	ite	
INDOT DE/ES	SD Reviewer Signature	e and Date:					
			Ali Whitehead, Payton	Fischer, and Ta	amra Reece, Hanson P	rofessional	

Services Inc.

Name and Organization of CE/EA Preparer:

0 1	Laba		,	110.0	•	_		4000040	
County	Lake		Route	US 6		De	es. No.	1900012	
	er to the most on of this form.	current INDOT CE	∃ Manual, guida	ance langua	age, and other l	ESD resourd	ces for fur	ther guidan	ce regarding
			Part I -	<u>Public</u>	Involvem	<u>ent</u>			
		ires some level of ess. The level of							
If N	No, then:	have a historic br	_ ,	I under the	Historic Bridge		Yes	No X	
*A public he		ed for all historic l		sed under t	he Historic Brid	lges Progran	mmatic Ag	reement b	etween INDOT,
		vement activities (meetings, newsp					residents	(i.e. notice	of entry),
about the	project and tha	ere mailed to pote at individuals resp is included in App	onsible for land	surveying					
Developm comments	ent Public Invo and/or reques	minimum require blvement Procedu at a public hearing involvement. This	<i>ires Manual</i> whi g. Therefore, a	ich requires legal notice	s the project spe e will appear in	onsor to offe a local publi	er the publication cor	lic an oppointingent up	rtunity to submit on the release of
	olic controvers	y on Environ			ource impacts, i	including wh	at is being	g done duri	ing the project to
At this time	e, there is no s	ubstantial public	controversy cor	ncerning im	pacts to the co	mmunity or 1	to natural	resources.	
<u>Part</u>	: II - Gene	eral Projec	<u>t Identific</u>	ation,	<u>Descripti</u>	on, and	l Desi	gn Info	rmation
Sponsor o	f the Project:	_Ind	liana Departme	nt of Trans	portation (INDC	OT)	_ INDO	Γ District:	LaPorte
Local Nam	e of the Facilit	y: <u>US</u>	6/SR 51						
Fu	nding Source (mark all that app	ly): Fed	eral X	State X	Local	Othe	*	
*If	other is selecte	ed, please identify	/ the funding so	ource:					
PURPOS	E AND NEE	 D:							
		the specific trans							should describe
Need: The deterioration with a conducted delamination being in a	e need for this pon of the deck, dition rating of on, spalling, ar sag curve which	e project. The sol project is due to the superstructure, a 5 on a scale of 1 and exposed reinforch allows for the cood (Q ₁₀) event, v	he existing structure and substructure to 9 with 1 bein proced steel. The overtopping of the	cture (Structure). The rating imminent secondary he bridge f	cture No. (6)51- ng of the deck, s t failure and 9 to need is due to rom Deep Rive	-45-01943 B superstructu peing excelle hydraulic in r. The roadw	, NBI 018 re, and su ent. There sufficience asy overto	870) showind structure is extensively from the	e cracking with roadway profile
This is	page 2 of 23	Project name:	US 6 Bridg	e Project			Date	: March	2, 2023

Version: December 2021

		mai	ана Бера	uunen	οι παποροπαπ	OH			
County	Lake		Route	US 6		Des. No.	1900012		
		nis project is to impose serviceability of			ng on all bridge eleme	ents to at leas	st a good cor	dition rating of	7
PROJEC	T DESCRIPTIO	N (PREFERRE	D ALTERN	ATIVE):					
County:	Lake		Muni	icipality:	Lake Station				
Limits of P	roposed Work:	From Veteran's	Memorial Co	overed Brid	dge to US 6/SR 51 Br	idge over De	ep River		
Total Work	Length:	0.203 Mile	e(s)		Total Work Area:	2.67	Acre(s)		
If y Ac Describe loca deficiencies, i	res, when did the ceptability? ¹ If an IAD is req final approval of ation of project incluroadway description	uired; a copy of th the IAD. ding township, rangon, surrounding featur	Determination e approved C e, city, county, res, etc. Prefer	n of Engine CE/EA docu roads, etc. red alternati	eering and Operational ument must be submit Existing conditions shouly ive should include the solution oneed discussed.	tted to the Fi	rent conditions	s, current	ne
INDOT and Pocket.	d the Federal Hig	hway Administrati	on (FHWA) ii	ntend to pr	oceed with the US 6 I	bridge replac	ement projec	ct over Muck	
36 North, I	The project is located 0.84 mile (mi.) south of I-80/94 on US 6/SR 51 over Muck Pocket in Hobart Township, Section 16, Township 36 North, Range 7 West, Lake County, Indiana (Appendix B, page 2). The name "Muck Pocket" is designated in the INDOT bridge inspection reports and refers to a wetland complex found within the oxbow of Deep River.								
National T shoulders. 018870) is guardrail a Most of the These con approach	ruck Network (NT The posted spect a 289-ft. long, 10 and concrete bridg e spans have long ditions result in a slabs. The bridge	N). The existing red limit at the project limit at the project span reinforced ge railing. The curgitudinal cracking rating of fair (5 or experiences ove	oadway consect location is concrete slaterent condition with efflorescont for the dertopping from	sists of two s 35 miles p o bridge with of the brid cence and eck, wearin or localized	a part of the U.S. National 12-foot (ft.) travel lander hour (mph). The eth an out-to-out width dge shows heavy spamany have longituding surface, superstruct rain events greater thes, residencies, and p	es with 10-ft xisting struct of 47 ft. The Iling and exp al cracking w ture, substru nan the Q ₁₀ d	Left and 5-ft cure ((6)51-45 bridge has e cosed steel re vith exposed cture, joints,	right usable 5-01943 B, NBI existing approa- einforcement. reinforcement. and bridge	ch
pile bent s 2020 due t will be rais structure to approxima provided to railing, and Muck Pocl previously	ubstructure units to substructure red to provide imported the north of the tely 540 ft. The portion minimize the nud guardrail. There set. Str. 1 will be removed or capp	The roadway propair and rehabilitation and rehabilitation are revised in the existing bridge limited from the propagation of substruction are two uncatalogal replacement in the pair and the replacement in the replacemen	file between ation), NBI 01 hydraulic per nits. The exist raised as claure units. The gued small strind. Survey wed not presen	US 6/SR 5 8880) and fformance. ting bridge ose to the e project w tructures (\$ work was o t. All work	re with a 21-span case the bridge over Deep R the bridge over Muck The raised profile will will be lengthened ap Q ₁₀₀ flood elevation as fill include new reinfor Str.) to the south (Str.) to the south conducted and could rewill take place within	tiver ((6)51-4 c Pocket ((6)5 I result in a leaproximately s possible. L ced concrete 1) and the not locate Str	5-01934 C (response of the contract of the con	eassigned C ir B, NBI 018870 extending the total length of spans will be paches, bridge of the bridge ov med it was	n D)
floodway, reconstruc	impacts to open v	vater areas and en the existing road	mergent and	shrub-scru	adjacent parcels, impub wetlands, and tree ed mitigation consists	removal. Imp	pacts have be	een minimized	by
					utilizing a state detour section of this docum		s, page 11). T	he MOT for the	е

Version: December 2021

Date: March 2, 2023

US 6 Bridge Project

This is page 3 of 23 Project name:

County	Lake	Route	US 6		Des. No.	1900012
		idge will eliminate the curre a, and hydraulic capacity of				proves the condition of the
US 6/SR	51 Bridge over Deep	project area are 0.84 mile s River. This project demons not depend on any other pla	trates independe			norial Covered Bridge to the re the structure as an
OTHER	ALTERNATIVES C	CONSIDERED:				
Provide a h	neader for each altern					ve. Explain why each discarded
Alternative would resincrease of	ve A - No Build: This ult in continued deter costs of repairs at a la	s alternative allows the exis ioration of the structure, wh	ting structure to ich would allow oes not meet the	remain in place development of	with no improve unsafe roadwa	rements. This alternative
similar in the still be over Impacts we integrity o	type, length, and wate ertopped during a Q ₁₀ yould be similar to the f the bridge but does	cement in Kind: This alternerway opening. The hydrau of event, and the bridge open operered alternative. This not meet the secondary pure further consideration.	lic capacity of the ning would not be alternative mee	e crossing would e adequate to a s the primary p	ld remain the sa accommodate flurpose and nee	ame. The roadway would low at the Q ₁₀₀ event. ed of restoring the structural
entire app crossing w replaced v raise, add US 6/SR ! Since this would be	oroach roadway betwo with Muck Pocket wou with a new bridge of s litional approach road 51 between Muck Por alternative required a required. This alterna	een US 6/SR 51 over Deep uld increase the hydraulic ca similar type and length. Roa dway work would be require	River and US 6 apacity to be additional apacity to be additional apacity of the maintain action of the property of the propert	/SR 51 over Mu equate for a Q ₁₀ ility would be process to multiple ald cause addition option is no ject but the add	ick Pocket. The exposite of the control of the commercial properties the commercial properties the commercial cost to reasible and ditional cost to recommercial to recommercial of the cost to recomm	xisting structure would be Q_{100} event. Due to the grade operties east and west of an the preferred alternative. a full closure with detour
Rehabilit	ation: This alternative	e was not considered due to	o the deteriorate	d condition of th	ne existing stru	cture.
t	would not correct exist would not correct exist would not correct the would not correct exist would result in seriou	ive is not feasible, pruder sting capacity deficiencies; sting safety hazards; existing roadway geometric sting deteriorated conditions impacts to the motoring puld not correct the hydraulic	c deficiencies; s and maintenar ublic and genera	ce problems; o	r) X
ROADW	AY CHARACTER:					
f the propo	osed action includes r	multiple roadways, complete	e and duplicate f	or each roadwa	ıy.	<u> </u>
Name of F Functiona Current A	l Classification:	US 6/SR 51 Principal Arterial – Other 16,398 VPD (202 1,601	21) Design \	/ear ADT: <u>1</u>	7,303 V	PD (2044)
_	our Volume (DHV): Speed (mph):	VPH Truck Percen 35 mph Legal Speed		<u>6 DHV</u> 5 mph		
This is	s page 4 of 23 Proj	ect name: <u>US 6 Bridge</u>	e Project		Date	: _March 2, 2023

County Lake	Route US 6	De	es. No. <u>1900012</u>						
Number of Lanes: Type of Lanes: Pavement Width: Shoulder Width: Median Width: Sidewalk Width: Setting: Topography: X		Proposed 2 Full Depth HMA/Com 44	posite Rural Hilly						
BRIDGES AND/OR SMALL STE	` '	lianta fau acala buiden and/a							
If the proposed action includes multiplexisting and proposed bridge(s) and/o Structure/NBI Number(s): (6)51 Bridge/Structure Type:			85, INDOT Inspection 11/5/2020 (Rating, Source of Information)						
Number of Spans: Weight Restrictions: Height Restrictions: Curb to Curb Width: Outside to Outside Width: Shoulder Width:	16 None ton ft. ft.	Substructure with pile substructure 21 None ton ft. 39 ft. 47 ft. 5 (right) 10 (left) ft.	Defit						
Describe impacts and work involving bridge(s), culvert(s), pipe(s), and small structure(s). Provide details for small structure(s): tructure number, type, size (length and dia.), location and impacts to water. Use a table if the number of small structures becomes arge. If the table exceeds a complete page, put it in the appendix and summarize the information below with a citation to the table. One bridge and two small structures are within the project area. The existing structure ((6)51-45-01943 B, NBI 018870) is a 289-ft. long 16-span reinforced concrete slab bridge with an out-to-out width of 47 ft. This structure is to be replaced with a 21-span cast-in-place concrete slab superstructure on pile bent substructure units. The project will include lengthening the bridge approximately 242 ft. to a total length of approximately 540 ft. It will also include new reinforced concrete bridge approaches, bridge railing, and guardrail. Str. 1 is a 15-in. reinforced concrete pipe and will be replaced in kind. Survey work was conducted and could not locate Str. 2. It is assumed it was previously removed or capped and is assumed not present.									
	,								
MAINTENANCE OF TRAFFIC (I	MOT) DURING CONSTRUC	TION:							
Provisions will be made for Provisions will be made for Provisions will be made to Will the proposed MOT subs		posted. sinesses. al events or festivals. ntal consequences of the ac	Yes No						

Date: March 2, 2023

US 6 Bridge Project

This is page 5 of 23 Project name:

Indiana Department of Transportation									
County	Lake Route	US 6		Des. No.	1900012				
V	Will the project require a sidewalk, curb ramp, and/o Provisions will be made for access by pedestrian				Yes No X X				
temporary	losures, detours, and/or facilities (if any) that will be measures should be quantified to the extent possi nds. Discuss any pedestrian/bicycle closures. Any	ble, particularly	with respect to p	roperties suc	ch as Section 4(f) resources				
The MO	T for the project area will be a full closure of US 6 w lg, and US 20. The detour is anticipated to add an ame. Access to local businesses and residents shall	vith detour route additional 14.1 n	. The detour rout niles resulting in	e is approxir	mately 16.4 miles utilizing US				
roads (C and 37th	The Lake County Highway Department responded on April 22, 2021 with concerns about the local detour routes impacting county roads (CR). They requested that they be notified if Grand Boulevard (Blvd.)/North Lake Park Avenue (Ave.) between Central Ave. and 37th Ave. (Ridge Road) will be used as a local detour route since it is a county road. All applicable recommendations are included in the Environmental Commitments section of this Categorical Exclusion (CE) document								
	sures/lane restrictions will pose a temporary inconve); however, no significant delays are anticipated, an								
ESTIM/	ATED PROJECT COST AND SCHEDULE:								
	of WAY:								
				(
	Land Use Impacts		Amount Permanent	(acres) Tempora	ary				
	Residential		0.122	0					
	Commercial Agricultural		0.134	0.094 0	•				
	Forest		0	0					
	Vetlands		0	0					
	Other: Vacant		1.941	0					
(Other:	TOTAL	0 2.197	0.094					
(existing a and their i	both Permanent and Temporary right-of-way and de and proposed) should also be discussed. Any advar impacts on the environmental analysis should be dis arent existing right-of-way (ROW) is the edge of pa	escribe their cur nce acquisition, scussed.	rent use. Typica reacquisition or e	l and Maxim easements, e	um right-of-way widths either known or suspected,				
of reacque The project a	uired ROW consisting of mowed residential lawns, weet requires approximately 2.197 acres of permanentee. This includes mowed residential lawns, comments for the edge of pavement. ROW locations are defined as the contract of the contract o	wetlands, and si nt ROW and 0.0 ercial lots, wetla	nrub-scrub/forest 194 acres of temp nds, and foreste	ed areas. oorary ROW d areas. RO\	along the length of the W widths range from 20				
	ope of work or permanent or temporary right-of-way			nvironmental	Services Division (ESD)				

This is page 6 of 23 Project name:

indiana Department or Transportation						
County Lake		Route	US 6		Des. No.	1900012
,						
This is page 7 of 23	Project name:	US 6 Bridg	e Project		Date	: March 2, 2023

Version: December 2021

County Lake Route US 6	Des. No. 1900012
------------------------	------------------

Part III - Identification and Evaluation of Impacts of the Proposed Action

SECTION A - EARLY COORDINATION:

List the date(s) coordination was sent and all resource agencies that were contacted as a part of the development of this Environmental Study. Also, include the date of their response or indicate that no response was received.

Early coordination letters were sent on April 13, 2021 and January 27, 2022 (Appendix C, pages 2 to 5).

<u>Agency</u>	Date Sent	Date Response Received	<u>Appendix</u>
City of Lake Station	April 13, 2021	No response received	N/A
FHWA	April 13, 2021	No response received	N/A
Indiana Department of Environmental Management (IDEM)	April 13, 2021	April 13, 2021	Appendix C, pages 9-16
Indiana Geological and Water Survey (IGWS)	April 13, 2021	April 13, 2021	Appendix C, pages 6-8
Indiana Department of Natural Resources – Division of Fish and Wildlife (IDNR-DFW)	April 13, 2021	May 12, 2021	Appendix C, pages 17-20
IDNR – Outdoor Recreation	April 13, 2021 and January 27, 2022	April 20, 2021 and January 27, 2022	Appendix C, pages 22-25
INDOT - Aviation	April 13, 2021	April 14, 2021	Appendix C, page 26
INDOT Environmental Services Division (ESD) - LaPorte District	April 13, 2021	April 14, 2021	Appendix C, page 21
INDOT Project Manger	April 13, 2021	No response received	N/A
Lake County Commissioners	April 13, 2021	No response received	N/A
Lake County Emergency Management	April 13, 2021	No response received	N/A
Lake County Health Department	April 13, 2021	No response received	N/A
Lake County Highway Department	April 13, 2021	April 22, 2021	Appendix C, page 27
Lake Station City Council	April 13, 2021	No response received	N/A
Lake Station Historical Society	April 13, 2021	No response received	N/A
Lake Station Parks and Recreation Department	April 13, 2021	No response received	N/A
Little Calumet River Basin Development Commission (LCRBDC)	April 13, 2021	No response received	N/A
Northwestern Indiana Regional Planning Commission (NIRPC)	April 13, 2021	No response received	N/A
U.S. Army Corps of Engineers (USACE)	April 13, 2021	No response received	N/A
U.S. Department of Housing and Urban Development (HUD)	April 13, 2021	No response received	N/A

This is page 8 of 23 Project name: US 6 Bridge Project Date: March 2, 2023

County Lake		Route	US 6	Des.	No. 1900012
All applicable recor	nmendations are i	ncluded in the Env	ironmental Commi	tments section of this Ca	stegorical Exclusion (CE) document
SECTION B - EC	COLOGICAL RE	SOURCES:			
Federal State Na Nationw Outstan	Wild and Scenic R atural, Scenic or R ide Rivers Invento ding Rivers List for le Waterways	ecreational Rivers ry (NRI) listed Indiana		Presence S X IIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Impacts Yes No X 106.3 Linear feet
Stream Name	Classification	Total Size in Project Area (linear feet)	Impacted linear feet	•	ion, flow direction, likely Water appendix reference)

Stream Name	Classification	Project Area (linear feet)	Impacted linear feet	Comments (i.e. location, flow direction, likely Water of the US, appendix reference)
Deep River	R4SBC, Perennial	861 linear feet (lf.)	106.3 lf.	Located west of the US 6 bridge, flows east to west on north end of investigated area and north to south on west side of investigated area, likely Water of the U.S (Appendix F)

Describe all streams, rivers, watercourses and other jurisdictional features adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if the streams or rivers are listed on any federal or state lists for Indiana. Include if features are likely subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

Based on the desktop review, the aerial map of the project area (Appendix B, page 4), and the Red Flag Investigation (RFI) report (Appendix E, page 4), there are four streams, rivers, watercourse, or other jurisdictional features within the 0.5 mile search radius. There is one stream, river, watercourse, or other jurisdictional feature present within or adjacent to the project area. That number was confirmed by the site visit on May 17, 2021 by Hanson Professional Services Inc. (Hanson).

No Federal, Wild and Scenic Rivers; State natural, Scenic, and Recreational Rivers; Outstanding Rivers for Indiana; navigable waterways or National Rivers Inventory waterways are present in or adjacent to the project area.

A Waters of the U.S. Determination / Wetland Delineation Report was approved by INDOT Ecology and Waterway Permitting Office (EWPO) on March 1, 2022. Please refer to Appendix F, pages 2 to 46, for the Waters of the U.S. Determination / Wetland Delineation Report. It was determined that one likely jurisdictional perennial stream is located within the investigated area and will be impacted by the project. The USACE makes all final determinations regarding jurisdiction.

Deep River is a perennial stream located west of the bridge over Muck Pocket that flows parallel to the US 6 roadway, which ultimately flows into Little Calumet River, a traditionally navigable waterway (TNW). The river's ordinary high water mark (OHWM) was approximately 160 ft. wide and 6 ft. deep. Upstream drainage comes from tributaries within an urban and agricultural landscape. Approximately 861 lf. of stream is within the investigated area.

Approximately 106.3 lf. (0.011 acre) of permanent impacts to Deep River will occur due to installation of Class I riprap and grading/excavation for the bridge construction. Approximately 242.7 lf. (0.043 acre) of temporary impacts to Deep River will occur from areas outside of grading/excavation and riprap that will be affected from equipment staging and access to construction areas. Avoidance was not practicable, as project limits have been constrained to the smallest possible area to complete the project.

Per coordination with the INDOT EWPO on September 14, 2022, a USACE 404 Nationwide Permit (NWP), IDEM Water Quality Certification (WQC) 401 Individual Permit (IP), and an IDNR Construction in a Floodway (CIF) Permit will be required for impacts to Deep River. Mitigation will likely not be required since impacts to Deep River are less than 300 lf. and cumulative impacts to the river are less than 0.03 acre. This will be determined during permitting.

This is page 9 of 23	Project name:	US 6 Bridge Project	Date:	March 2, 2023

		IIIUIalia L	ерагиі	ient or i	ansportati	OH	
County	Lake	Rou	ute <u>U</u> S	S 6		Des. No.	1900012
measures		compensate for imp	acts to fisl	h, wildlife, ai	nd botanical reso	ources (Apper	ion, riparian habitat, and ndix C, pages 17 to 20). All ent.
Ор	Pen Water Feature(s) Reservoirs Lakes Farm Ponds Retention/Detention Books Storm Water Manager Other: Open Water u	nent Facilities	Muck Poo	cket	X X		<u>s</u> No X
temporary) to avoid, mi	will occur to the feature nimize, and mitigate if I	es identified. Include Impacts will occur.	if feature	s are likely s	subject to federa	l or state juris	pacts (both permanent and diction. Discuss measures
there is on		ithin the 0.5 mile se	arch radio	us. There ar	e no open water		t (Appendix E, page 4), n or adjacent to the project
Appendix I jurisdiction	F, pages 2 to 46 for the	Waters of the U.S. e located within the	Determin	ation / Wetla	and Delineation	Report. It was	arch 1, 2022. Please refer to determined that two likely ct. The USACE makes all
area and is Bottom, Se	s classified under the C	cowardin Classificat ed (PAB4/UBF). App	ion systen oroximatel	n as Palustri y 0.172 acre	ne, Aquatic Bed	- Floating Va	excellent quality open water iscular/Unconsolidated in the investigated area.
classified u	under the Cowardin Cla ately 0.141 acre of Ope	assification System	as Palustr	ine, Uncons	olidated Bottom	, Mud, Intermi	uality open water area and is ttently Exposed (PUB3G). to Deep River through
grading/ex open wate complete t	cavation, and the bridger resources. Avoidance	e replacement. No was not practicabler 1 will be marked o	impacts to e, as proje n the plan	Open Wate ect limits hav	er 1 are anticipat re been constrai	ed. There are ned to the sm	ent for bank stabilization, no temporary impacts to the allest possible area to a firm commitment in the
401 IP, an		be required. Mitigat					ACE 404 NWP, IDEM WQC to this WOTUS will be above
measures		compensate for imp	acts to fisl	h, wildlife, ai	nd botanical reso	ources (Apper	ion, riparian habitat, and idix C, pages 17 to 20). All lent.
					Prese		<u>Impacts</u> ⁄es No
We	etlands				X		X
Total wetla	and area:	0.623	Acre(s)	Total wet	and area impac	ted: <u>0.352</u>	Acre(s)

Date: March 2, 2023

This is page 10 of 23 Project name: US 6 Bridge Project

		Indiana D	epartment o	f Transportation			
County Lak	е	_ Rou	ute US 6	De	s. No.	1900012	
(If a determination has not been made for non-isolated/isolated wetlands, fill in the total wetland area impacted above.)							
Wetland No.	Classification	Total Size (Acres)	Impacted Acres			likely Water of the US, eference)	
Wetland A	PEM1C	0.193	0.176	East of US 6 bridge, like			
Wetland B	PEM1C	0.065	0.038	Northeast of US 6 bridg jurisdictional (Appendix		of parking lot, likely	
Wetland C	PEM1C/ PSS1C	0.288	0.138	West of US 6 bridge, like			
Wetland D	PFO1C	0.017	N/A	no impacts expected (A	Appendix	ted area, likely jurisdictional, F)	
Wetland E	PFO1C/ PSS1C	0.060	N/A	Northeast of US 6 bridg jurisdictional, no impact			
Wetland	is (Mark all that app	oly)	<u>Documen</u>	<u>tation</u>	ESD A	oproval Dates	
	and Determination		Х			ch 1, 2022	
	and Delineation CE Isolated Waters	Determination	X	_	Marc	ch 1, 2022	
Unio Sub The Describe all wetla vill occur to the fo minimize, and min	eatures identified. I tigate if impacts will	affic, maintenance cial, economic, or g the identified new cent or within the procure occur.	environmental im eds. project area. Inclu are likely subject	npacts, or ude whether or not impact to federal or state jurisdic	tion. Dis		
there are 10 we	tlands within the 0.5	5 mile search radio	us. One mapped	ndix B, page 4), and the F wetland is located adjacer e site visits on May 12, 20	nt to the p		
Appendix F, pag jurisdictional we	ges 2 to 46 for the V	Vaters of the U.S. vithin the investiga	Determination / Vated area. Three I		rt. It was	arch 1, 2022. Please refer to determined that five likely impacted by the project.	
6 bridge and ext	tends north along U rom seasonal flood	S 6. Hydrology wi	ithin Wetland A is	d (PEM) of average quality due to its location within t sidered jurisdictional by the	the oxbov		
area. Hydrology	within Wetland B is	due to its locatio	n within the oxbov		eives wa	nd south of the parking lot ater from seasonal flooding. ep River.	
between the roa	idway and Deep Riv	er. Hydrology wit	hin Wetland C is		US 6 road	that is located west of US 6 dway and seasonal flooding by to Deep River.	
				vetland of excellent quality oxbow of Deep River, wh			

County	Lake	Route	US 6	-	Des. No.	1900012		
-								
	d drainage from the surrounding fore poding from Deep River.	st. Wetlan	d D would likely	be considered jur	isdictional by	the USACE be	cause of	
lot area. Hy	Wetland E is an approximately 0.060-acre PFO/PSS wetland of excellent quality that is located east of US 6 and south of the parking lot area. Hydrology within Wetland E is due to its location within the oxbow of Deep River which receives water from seasonal flooding. Wetland E would likely be considered jurisdictional by the USACE because of seasonal flooding from Deep River.							
bridge cons to access la total tempo smallest po	No impacts to Wetlands D and E are anticipated. Permanent impacts are expected for Wetlands A, B, and C due to channel clearing, bridge construction, and Class 1 riprap placement for bank stabilization. Temporary impacts are expected for Wetlands A and C due to access lay-down areas and equipment staging. Total cumulative permanent wetland impacts are approximately 0.352 acre and total temporary wetland impacts are 0.125 acre. Avoidance was not practicable, as project limits have been constrained to the smallest possible area needed to complete the project. Wetland D and E will be marked on the plans as "Do Not Disturb". This is included as a firm commitment in the Environmental Commitments Section of this CE document.							
IDEM WQC	nation with the INDOT EWPO on Sep C 401 IP, and IDNR CIF Permit will be .1 acre and will be determined during	e required.	Mitigation will li					
measures t	DFW responded on May 12, 2021, wo avoid, minimize, or compensate for recommendations are included in the	r impacts t	o fish, wildlife, a	nd botanical resou	urces (Appen	dix C, pages 1		
				_				
				<u>Presence</u>	Impac Yes	<u>ts</u> NO		
Ter	restrial Habitat			X	X			
Total terres	trial habitat in project area: 0.54		Acre(s)	Total tree clear	ring: <u>0.35</u>		Acre(s)	
or not impac	es of terrestrial habitat (i.e. forested, ts will occur to habitat identified. Incl	lude total t	errestrial habitat					
Based on a page 4), the reed (<i>Phrae (Dactylis gl</i>	avoid, minimize, and mitigate if impact desktop review, site visits on May 1 ere are roadside grasses, forest, and gmites australis), reed canary grass (lomerata), and yellow marsh marigolo er replacement and installation of ripr	2 and Jund I riparian z (<i>Phalari</i> s a d (<i>Caltha p</i>	e 14, 2022 by Ha ones surroundin <i>rundinacea</i>), ga	g the project area rden yellow rocke	. The domina t (<i>Barbarea v</i>	nt species incl ulgaris), orchai	ude common d grass	
Approximately 0.35 acre of trees will be impacted. The trees are clearly demarcated and were identified as slippery elm (<i>Ulmus rubra</i>), green ash (<i>Fraxinus pennsylvanica</i>), eastern cottonwood (<i>Populus deltoides</i>), silver maple (<i>Acer saccharinum</i>) and boxelder (<i>Acer negundo</i>). The contractor will remove the trees during the inactive season. Avoidance alternatives would not be practical as the project limits have been constrained to the smallest possible area to complete the project. Tree removal Avoidance and Minimization Measures (AMMs) were accepted as part of the IPaC coordination. Tree mitigation is anticipated and will be determined during the permitting process.								
	DFW responded on May 12, 2021 wi C, pages 17 to 20). All applicable rec							
Fed I	tected Species lerally Listed Bats Information for Planning and Consult Section 7 informal consultation comp Section 7 formal consultation Biologic	leted (IPa	cannot be com	pleted)	Yes		No X X	
This is	page 12 of 23 Project name: <u>U</u>	IS 6 Bridge	e Project		Date:	March 2, 2	023	

		iliulalia Depa	i tillellt Ol	Γιατισμοπιαι	1011	
County	Lake	Route	US 6		Des. No190	00012
De	etermination Received for	Listed Bats from USFV	VS:	NE	NLAA X	LAA
Of	ther Species not include Additional federal specie State species (not bird)	es found in project area			Yes NR) X	No X
M	igratory Birds Known usage or presen State bird species base		n IDNR		Yes	No X
bat and not occurred at	NR coordination and sperthern long-eared bat impend the determination that	acts. Discuss if other fe was received. Discuss	ederally listed if migratory b	d species were ide pirds have been ob	entified. If so, include oserved and any impa	consultation that has acts.
Rare (ETI (Appendix Blanding's DFW reco	a desktop review and the R) Species List has been CC, page 17), the Natura is turtle (<i>Emydoidea blancommends</i> an entrenched is road just north of the bronthe the <i>Environmental Com</i>	checked. According to to the I Heritage Program's Data lingii) is located within 0 silt fence be installed alorder, where feasible, to	the IDNR-DF atabase has b .5 mile of the ong the bord prevent Blan	W early coordinat been checked and project area. To le er of the work area	ion response letter da I indicated that the sta minimize impacts to t a on the east side of t	ated May 12, 2021 ate endangered he turtle, the IDNR- the bridge and east
species lis (Myotis so	formation was submitted st was generated (Appen odalis) and the federally earated in the IPaC specie	dix C, pages 42 to 58) endangered northern lon	The project is g-eared bat	s within range of th (NLEB) (<i>Myoti</i> s se	ne federally endanger	red Indiana bat
dated Ma Administration or und construction of the struindicate n Environm	ct qualifies for the Range y 2016 (revised February ation (FTA), and USFWS er the bridge (Appendix Con will begin after May 17 octure should check for prosigns of bats or birds. It ental Manager must be cothis document.	2018), between FHWA. A bridge inspection occ., pages 59 to 66). USF, 7, 2023, an inspection of esence of bats/bat indictings of bats or birds a	, Federal Rai curred on Ma WS Bridge/S f the structure cators and/or are document	ilroad Administrati by 17, 2021 and no itructure Assessm e by a qualified ind presence of birds ed during this insp	on (FRA), Federal Tropersidence of bats we ents are only valid for dividual, must be performers. The results of the induction, the INDOT D	ansit ere seen or heard r two years. If formed. Inspection spection must istrict
to "May A reviewed received f constructi	determination key was confect – Not Likely to Adversard verified the effect fine from USFWS within the 1 on, lighting, and tree remembers in the Environmental	rsely Affect (NLAA) the ding on July 26, 2022 ar 4-day review period; the oval AMMs are applicate	Indiana bat a nd requested erefore, it was ole to this pro	and/or the NLEB (A USFWS's review is concluded they object. AMMs and/o	Appendix C, pages 26 of the finding. No rescondur with the finding	8 to 41). INDOT sponse was g. General
under the implement constructing present. Now with eggs the "Poter state of the implementation of the implemen	(6)51-45-01943/NBI 0186 Migratory Bird Treaty Acted prior to the start of aron during the non-nesting Nests with eggs or young or young should be scrential Migratory Bird on Strental Commitments of this	t (MBTA) during the Mand during the nesting season (September 8 cannot be removed or cened or buffered from an ucture" Recurring Speci	y 17, 2021 in ason. Nests v – April 30) ar disturbed duri ctive constru	spection. Avoidan without eggs or yound during the nesting the nesting section. Details of the	nce and minimization oung should be removing season if no eggs ason (May 1 – Septer e required procedure	measures must be yed prior to sor young are mber 7). Nests sare outlined in
amended	udes the need for further . If new information on en for consultation.					

		indiana Depa	rtment of 11	ransportatio	n	
County	Lake	_ Route	US 6		Des. No.	1900012
	eological and Mineral Re Project located within the Karst features identified v Oil/gas or exploration/aba	Indiana Karst Region within or adjacent to the andoned wells identified	d in the project a	rea 	Yes	No X X X X
Discuss res and if impa the current		'S coordination. Discus cussion of karst study/r es during Planning and	ss if any mines, o eport was comp d Construction gu	oil/gas, or explora leted and results. uidance and coor	ation/abandor (Karst inves dinated and r	ned wells were identified tigation must comply with eviewed by INDOT EWPO)
Protection B, page 3 early coor indicate h) and the RFI report (Apper dination response on April	Project Management a Indix E, page 4), there 13, 2021, the IGWS d a floodway, high potent	and Construction. are no karst feat iid not indicate th ial for bedrock re	According to the ures identified with at karst features esources, and low	topo map of thin or adjace exist in the po potential for	the project area (Appendix ent to the project area. In the roject area. The IGWS did sand and gravel resources
SECTIO	N C - OTHER RESOUR	CES				
Dr	Wellhead Protection Area Source Water Protection Water Well(s) Urbanized Area Boundar Public Water System(s)	a(s) Area(s)		X X X X	Yes	No X X X X X
Check the a	the project located in the S If Yes, is the FHWA/EPA If Yes, is a Groundwater of the second discontinuous appropriate boxes and discontinuous the second discontinuous the	SSA MOU Applicable? Assessment Required? cuss each topic below.	? ? Provide details			No X e resource-specific
The project designate Aquifer M	n responses and any mitigot is located in Lake Count d sole source aquifer in the emorandum of Understand pacts are expected.	y, which is not located e state of Indiana. The	within the area or refore, the FHW	of the St. Joseph A/Environmental	Sole Source Protection Ag	ency (EPA) Sole Source
17, 2021 I IDEM Sou contamina	I's Wellhead Proximity Det by Hanson. This project is arce Water Assessment Pr ation. An early coordination by time frame. Therefore, it	not located within a Woogram identifies Lake to the letter was sent to the	ellhead Protection Station Water De City of Lake Sta	on Area but is loca epartment as "mo tion on April 13, 2	ated within a derately high	" susceptibility to
Hanson. T	Water Well Record Databance The nearest well was on the ted to extend to the well's swill be affected, a cost to	e northern side of the plocation. Therefore, no	project area. The impacts are exp	e feature will not be ected. Should it	e affected be determined d	
Based on	the desktop review of the	INDOT MS4 website (https://entapps	.indot.in.gov/MS	34/) Hanson	on March 18, 2021, this

This is page 14 of 23 Project name: US 6 Bridge Project Date: March 2, 2023

County Lake	Route US 6		Des. No.	1900012
project is located in an Urban Area The coordinator did not respond wit		dination letter was sent to t	the MS4 coo	ordinator on April 13, 2021.
Based on a desktop review, a site v project is located where there is a p erosion control measures. An early Department on April 13, 2021. No re	ublic water system. The public coordination letter was sent on	water system will not be af date, to the City of Lake S	fected becar	use of implementation of
Floodplains Project located within a r Longitudinal encroachme Transverse encroachme Homes located in floodpl	ent	Presence X X n from project X	Yes X	mpacts No X
If applicable, indicate the Flo	oodplain Level?			
Level 1 Level	2 Level 3	Level 4 X	Level 5	
Use the IDNR Floodway Information according to the classification system during design to insure consistency w	n. If encroachment on a flood p	lain will occur, coordinate v		
Based on a desktop review of the II fdms/) by Hanson on August 4, 202 determined from approved IDNR flot the local floodplain administrator. The Category 4 per the current INDOT ft. upstream and one home is located capacity such that backwater surfact adverse impacts on natural and ber substantial increase in potential for has been determined that this encrease.	1, and the RFI report (Appendix odplain maps (Appendix F, page floodplain administrator did in CE Manual, which states, there at within the base floodplain with the elevations are not expected the ficial floodplain values; there interruption or termination of er	c E, page 4), this project is ge 37). An early coordination of respond within the 30-de are no homes are locate hin 1,000 ft. downstream. o substantially increase. A will be no substantial change.	located in a con letter was lay time fram d within the The structurs a result, the ge in flood ri	regulatory floodplain as sent on April 13, 2021, to ne. This project qualifies as base floodplain within 1,000 re will have an effective lere will be no substantial sks; and there will be no
Farmland Agricultural Lands Prime Farmland (per NR Total Points (from Section *If 160 or greater, see CE Ma	VII of CPA-106/AD-1006*)	<u>Presence</u>	Ye	Impacts es No
Discuss existing farmland resources	-	t will occur to farmland, and	d mitigation a	and minimization measures
considered. Based on a desktop review, a site v no land that meets the definition of The requirements of the FPPA do n	armland under the Farmland P	rotection Policy Act (FPPA) within or a	
				March 2, 2022
This is page 15 of 23 Project	name: <u>US 6 Bridge Project</u>		Date:	March 2, 2023

County Lake	Route US 6	Des. No
SECTION D - CULTURAL RESOURCE	ES	
Minor Projects PA Full 106 Effect Finding	y(ies) and Type(s) Category B-4 and B-12	INDOT Approval Date(s) N/A June 23, 2021
No Historic Properties Affected	No Adverse Effect	Adverse Effect
Eligible and/or Listed Resources NRHP Building/Site/District(s)	Present Archaeology	NRHP Bridge(s)
Documentation Prepared (mark a APE, Eligibility and Effect Deterr 800.11 Documentation Historic Properties Report or Sharchaeological Records Check a Archaeological Phase Ia Survey Archaeological Phase Ic Survey Other:	ort Report and Assessment Report	pproval Date(s) SHPO Approval Date(s)
Memorandum of Agreement (MC		ignature Dates (List all signatories)
full Section 106, use the headings provided. local newspapers. Please indicate the public Section 106 work which must be completed. On July 23, 2021 the INDOT Cultural Reso Type 4 and 12 under the Minor Projects Princlude, "installation of new safety appurter attenuators." Category B, Type 12 projects bridges, and bridge replacement projects (v	The completion of the Section 106 preation date, name of the paper(s) and at a later date, such as mitigation from surce Office (CRO) determined that this ogrammatic Agreement (MPPA) (Appnances, including but not limited to, guinclude, "replacement, widening, or rawhen both the super structure and substantial of the substanti	s under and any approval dates. If the project requires rocess requires that a Legal Notice be published in the comment period deadline. Include any further in a MOA or avoidance commitments. It is project falls within the guidelines of Category Bendix D, pages 2 to 5). Category B, Type 4 projects pardrails, barriers, glare screens, and crash asing the elevation of the superstructure on existing distructure are removed)." No further consultation is FHWA under Section 106 have been fulfilled.
SECTION E – SECTION 4(f) RESOUR	RCES/ SECTION 6(f) RESOURCE	<u> </u>
	Presence L	Jse_
Parks and Other Recreational Land Publicly owned park Publicly owned recreation area Other (school, state/national forest, bike Wildlife and Waterfowl Refuges National Wildlife Refuge National Natural Landmark State Wildlife Area State Nature Preserve Historic Properties Site eligible and/or listed on the NRHP This is page 16 of 23 Project name:	eway, etc.) Yes X X US 6 Bridge Project	No X X X Date: March 2, 2023

County Lake	Route US 6	Des. No.	1900012				
,	Evaluations						
Programmatic Section 4(f) "De minimis" Impact Individual Section 4(f) Any exception included in 23 CFR 774	Prepared .13						
Discuss Programmatic Section 4(f) and "demust be included in the appendix and sum FHWA has identified various exceptions to Section 4(f) of the U.S. Department of Trafunded transportation facilities unless the parks, recreation areas, wildlife / waterfow subject to this law are considered Section	marized below. Discuss proposed the requirement for Section 4(f) apparsportation Act of 1966 prohibits the re is no feasible and prudent alternation and NRHP eligible or list	alternatives that satisfy the proval. Refer to 23 CFR § the use of certain public and ative. The law applies to s	e requirements of Section 4(f). 774.13 - Exceptions. d historic lands for federally ignificant publicly owned				
Based on a desktop review, the aerial map of the project area (Appendix B, page 4), and the RFI report (Appendix E, page 3), there are 11 potential 4(f) resources located within the 0.5-mile search radius. According to additional research, and by the site visit on May 17, 2022 by Hanson, there are two 4(f) resources located within or adjacent to the project area. Riverview Park is located on the east side of US 6. Veterans Memorial Covered Bridge is on the west side of US 6 and leads to Veterans Park and Bicentennial Park. Both Riverview Park and the covered bridge are publicly owned by the City of Lake Station and are adjacent to the project area. Access to the public recreation sites will be maintained throughout construction. The project will not use this resource by taking permanent right of way and will not indirectly use the resource in such a way that the protected activities, features, or attributes that qualify a resource for protection under Section 4(f) are substantially impaired. Therefore, no 4(f) use is expected.							
Section 6(f) Involvement Section 6(f) Property		<u>Presence</u>	Yes No X				
Discuss Section 6(f) resources present or I	not present. Discuss if any convers.	ion would occur as a result	of this project. If conversion				
will occur, discuss the conversion approval. The U.S. Land and Water Conservation F created to preserve, develop, and assure of lands purchased with LWCF monies to	Fund Act of 1965 established the La accessibility to outdoor recreation						
One 6(f) property, Riverview Park, is loca Recreation on April 13, 2021 and January	A review of 6(f) properties on the INDOT ESD website revealed a total of 57 properties in Lake County (Appendix I, pages 9 and 10). One 6(f) property, Riverview Park, is located adjacent to the project area. Early coordination letters were sent to IDNR – Outdoor Recreation on April 13, 2021 and January 27, 2022. Responses were received on April 17, 2021 and January 27, 2022 stating there are no anticipated impacts to the 6(f) resource. Therefore, there will be no impacts to 6(f) resources						
SECTION F – Air Quality							
STIP/TIP and Conformity Status Is the project in the most current S Is the project located in an MPO A	STIP/TIP? Area? -attainment or maintenance area? ont MPO TIP? formity? ortation Plan (TP)?	Yes No X X X X X X					

Version: December 2021

County Lake	Route US 6	Des. No.	1900012
Location in STIP:		FY 2022-2026 STIP	
Name of MPO (if appl	icable):	NIRCP	
Location in TIP (if app	licable):	FY 2022-2026, pg. 69	
Level of MSAT Analys	sis required?		
Level 1a X Le	evel 1b Level 2 Level 3	Level 4 Level 5	
located. Indicate whether the p the TP and TIP. Describe if a h	in the STIP and if it is in a TIP. Describe roject is exempt from a conformity deterrot spot analysis is required and the MSA	mination. If the project is not exem T Level.	pt, include information about
	Fiscal Year (FY) 2022-2026 NIRCP Meti which has been directly incorporated into		
according to the July 5, 2022 areas_map.pdf). This project	art Township in Lake County, which is cu IDEM "Current Nonattainment Area" map has been identified as being exempt fror ct of air quality concern (40 CFR Part 93.	o (https://www.in.gov/idem/sips/file m air quality analysis in accordance	es/nonattainment_ee with 40 CFR Part 93.126
	ying as a categorical exclusion (Group 1) 93.126, and as such, a Mobile Source A		empt under the Clean Air Act
SECTION G - NOISE			
Noise			Yes No
Is a noise analysis red	quired in accordance with FHWA regulation	ons and INDOT's traffic noise police	cy? X
Date Noise Analysis v	was approved/technically sufficient by INE	DOT ESD:	
were identified. If noise impacts	e I or Type III project. If it is a Type I proje s were identified, describe if abatement is	s feasible and reasonable and incl	ude a statement of likelihood.
	ect. In accordance with 23 CFR 772 and	the current <i>Indiana Department</i> o	f Transportation Traffic Noise
	n does not require a formal noise analys		<u> </u>
	n does not require a formal noise analys		·
SECTION H – COMMUNIT			
Regional, Communit Will the proposed acti Will the proposed acti Will the proposed acti Will construction activ Does the community to If No, are steps be		oment patterns for the area? unity cohesion? ax base or property values? fairs, etc.)? ansition plan?	Yes No X

Version: December 2021

Indiana Department of Transportation							
County	Lake	Route	US 6	Des. No.	1900012		
cohesion; au In order for Americans areas with	nd impact community of a municipality to be e with Disability Act (AL features (i.e., sidewall	events. Discuss how the ligible to receive federal f DA) Transition Plan. The T ks, crosswalks, curb ramp	oroject conforms unds they must ransition Plan ir s, building acce	ss, etc.) that are not in compl	n. er development, an nfrastructure identifying those iance with the ADA and		
The Northy 5.9.2019.p renewed, u pedestrian update AD current app the infrastr standards.	west Indiana (NWI) 20 df) was reviewed by Hunited, and vibrant reguland transit infrastruction plans on a proved ADA transition ucture must conform the project is not anti-	50 Plan authored by the Nanson on September 29, on by 2050" for the northure by providing funds to routine basis. The NWI 2 plan for the City of Lake 5 of the ADA. There is one cipated to negatively affe	JIRCP (https://ni 2022. This docu west region of In local governmen 2050 plan did no Station. The project ramp and sict community co	ect is a federal-aid project, m	an to create a "connected, creasing accessibility to on plan and monitor and this project area. There is no reaning all improvements to a that will be designed to ADA property values, since		
the year. T Broad Ced St. C Vinta Fest Lake Roc	the following special et ad Street Blues & BBC ar Lake Summer Fest John Festival from July age Tractor and Farm Lival of the Lakes from E County Fair from Aust K N Rail Music and St	vents or festivals were no Festival from June 24 - C from July 1 - July 4 2022	ted: lune 26, 2022 v 10, 2022 ber 1 - Septemb	ny special events or festivals er 4, 2022	in Lake County throughout		
impact. An the commu	nouncements regardir inity will occur to minir	ig construction activities v	vill be published ent possible. All a	es to events may be impacte on the INDOT social media p applicable recommendations cument	pages and coordination with		
completion	. Temporary commun			all occur during construction vel time and expense; therefo			
Discuss whathow the imphealth facility public pedea Based on a are two scior adjacen	acts have been minimies, educational facilitistrian and bicycle facilitia desktop review, the anools, one airport, and to the project area. C	ized and what coordinations, public and private utilications. The project a five religious facilities locations are religious facilities locations public-use airport, Holes	on has occurred. ties, emergency area (Appendix E tated within the 0 part Sky Ranch,	od impacts (such as MOT) the Some examples of public far services, religious institution 3, page 4), and the RFI report 5.5 mile of the project. There is within 3.8 miles (20,000 ft. project will have no direct or i	cilities and services include s, airports, transportation or t (Appendix E, page 3), there are no public facilities within) of the project area. That		
facilities du during con INDOT – A object will	ue to their proximity to struction. Aviation responded on exceed 200 ft. in heigh	the project area. Therefore April 14, 2021 stating the tt, the object will need to be	re, no impacts a	with surrounding airspace or the the Federal Aviation Adminent in the Environmental Con	operties will be maintained public use airports. If any istration (FAA) 45 days prior		
Highway D	epartment if Grand Bl	vd./N. Lake Park Ave. bet	ween Central Av	ecommendations to notify La ve. and 37th Ave. (Ridge Rd. d in the Environmental Comn			

This is page 19 of 23 Project name: US 6 Bridge Project Date: March 2, 2023

County	Lake	Route	US 6	Des. No.	1900012
	sponsibility of the project sponsoon that would block or limit acces		ol corporations and eme	rgency services at leas	t two weeks prior to any
Enverse Duil Door If Y Indicate if Exwas required EJ population project that permanent Potential E population population Township, the AC is C the low-inc	vironmental Justice (EJ) (Presing the development of the project require an EJ ana ES, then: Are any EJ populations located Will the project result in adversible to the project result in adversible to the EJ population of the EJ population of EJ pop	ect were EJ iss lysis? ed within the pr rsely high and or project development was identified If yes, described the project sponot have a disprigorical Exclusio 0.5 acre of ados is required. Ing minority and her there could and is called the munity that over population of co	oject area? disproportionate impacts ment. If an EJ analysis v d. Include if the project is actions to avoid, minimi onsor, as a recipient of fu oportionately high and a n Manual, an Environme ditional permanent right-of d low-income populations be disproportionately high community of comparisor erlaps the project area is oncern for EJ if the popu c. Data from the America	was not required, discuss has a disproportionately ize and mitigate these of anding from FHWA, are adverse effect on minoriental Justice (EJ) Analystof-way. The project will be relative to a reference gh and adverse impacts on (COC). In this project called the affected com lation is more than 50% an Community Survey (y high or adverse effect on effects. responsible to ensure that ity or low-income sis is required for any require 2.197 acres of e population to determine if it to them. The reference on the COC is Hobart formunity (AC). In this project, if minority or low-income or if (ACS) 2020 5-Year Estimate.
was ublain	ieu iioiii tile 0.3. Celisus bulea			ila conecieu foi minority	y and low-income
	s within the AC are summarized			AC - Census Trac	t 418
	s within the AC are summarized	COC	C – Hobart Township,	AC – Census Trace	
	Percent Minorit	COC	C – Hobart Township, ake County Indiana 29.3%	Lake County Indi 29.3%	ana
	Percent Minorit 125% of COC	COC La	C – Hobart Township, Ike County Indiana	29.3% AC < 125% CO	ana
	Percent Minorit 125% of COC EJ Population of Co	COC La ty	C – Hobart Township, ike County Indiana 29.3% 36.7%	29.3% AC < 125% CO No	ana
	Percent Minorit 125% of COC EJ Population of Co Percent Low-Inco	COC La ty ncern ome	C – Hobart Township, ike County Indiana 29.3% 36.7%	Lake County Indi 29.3% AC < 125% CO No 11.1%	C C
	Percent Minorit 125% of COC EJ Population of Coc Percent Low-Inco 125% of COC	COC La ty ncern ome	C – Hobart Township, ike County Indiana 29.3% 36.7%	Lake County Indi 29.3% AC < 125% CO No 11.1% AC < 125% CO	C C
	Percent Minorit 125% of COC EJ Population of Cor Percent Low-Inco 125% of COC EJ Population of Cor	coc La sy ncern ome	C – Hobart Township, ake County Indiana 29.3% 36.7% 15.6% 19.5%	Lake County Indi 29.3% AC < 125% CO No 11.1%	C C
The AC, Contract 418, contain mir	Percent Minorit 125% of COC EJ Population of Coc Percent Low-Incoc 125% of COC EJ Population of Coc Minority and Low-Incoch rensus Tract 418, has a percent has a percent low-income of 11 nority or low-income populations s data sheets, map, and calculated resulted in no adverse impact	ncern ne Data (ACS, minority of 29.3 .1% which is be s of EJ concern tions can be for	29.3% 36.7% 15.6% 19.5% 2020) 3% which is below 50% arelow 50% and the 125% und in Appendix I (pages	Lake County Indi	eshold. The AC, Census ore, the AC does not
The AC, Contract 418, contain mire. The census by the projection warranted. Rel Will Is a	Percent Minorit 125% of COC EJ Population of Coc Percent Low-Inco 125% of COC EJ Population of Coc Minority and Low-Incon tensus Tract 418, has a percent has a percent low-income of 11 nority or low-income populations as data sheets, map, and calcular ect resulted in no adverse impact of the proposed action result in the BIS or CSRS required?	ncern ne Data (ACS, minority of 29.3 .1% which is be s of EJ concern tions can be for	29.3% 36.7% 15.6% 19.5% 2020) 3% which is below 50% a elow 50% and the 125% und in Appendix I (pages or low-income population	Lake County Indi 29.3% AC < 125% CO No 11.1% AC < 125% CO No and the 125% COC three COC threshold. Therefore s 11 to 14). The EJ Ana s. No further environments.	eshold. The AC, Census ore, the AC does not

County Lake Ro	oute US 6	Des. No.	1900012					
Discuss any relocations that will occur due to the proj No relocations of people, businesses, or farms will ta			in the discussion below.					
	·							
SECTION I – HAZARDOUS MATERIALS & REGULATED SUBSTANCES								
Hazardous Materials & Regulated Substant Red Flag Investigation (RFI) Phase I Environmental Site Assessment (Phenase II Environmental Site Assessment (Phenase II) Design/Specifications for Remediation requiremental Site RFI concurrence by INDOT SAM (if applications)	nase I ESA) hase II ESA) ired?	<u>Document</u> :	ation					
include a summary of the potential hazardous material concerns found during review. Discuss in depth sites found within, directly adjacent to, or ones that could impact the project area. Refer to current INDOT SAM guidance. If additional documentation (special provisions, pay quantities, etc.) will be needed, include in discussion. Include applicable commitments. Based on a review of GIS and available public records, the RFI was completed on April 7, 2022 by Hanson and INDOT Site Assessment and Management (SAM) provided their concurrence on April 11, 2022 (Appendix E, pages 5 to 6). There are two RCRA Generator/TSDs, one State Cleanup Site, nine underground storage tanks (USTs), two solid waste landfills, eight leaking underground storage tanks (LUSTs), five brownfields, four institutional controls, and one NPDES facility located within 0.5 mile of the project area. The nearest LUST site, Luke il, Agency ID# 18473, 2470 Ripley Street, is mapped incorrectly and is located adjacent to the northwest corner of the project area. The latest correspondence within the Virtual File Cabinet (VFC) indicates No Further Action (NFA) approval determination pursuant to the Risk Integrated System of Closure (RISC) Non-rule Policy Document (NPD) guidelines and conditions for LUST incident #200801505 on May 16, 2018. Contamination remains in the area surrounding the site and possibly exists in the ROW. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.								
Part IV -	Permits and Cor	<u>nmitments</u>						
PERMITS CHECKLIST								
Permits (mark all that apply)	Likely Require	<u> </u>						
Army Corps of Engineers (404/Section10 Nationwide Permit (NWP) Regional General Permit (RGP) Individual Permit (IP) Other IN Department of Environmental Manager (401/CSGP) Nationwide Permit (NWP) Regional General Permit (RGP) Individual Permit (IP) Isolated Wetlands CSGP Other IN Department of Natural Resources Construction in a Floodway Navigable Waterway Permit Other	X							
Mitigation Required	X							

Date: March 2, 2023

This is page 21 of 23 Project name: US 6 Bridge Project

		•		
County	Lake	Route US 6	Des. No.	1900012
I	Permits (mark all that apply)	<u>Likely Required</u>		
	US Coast Guard Section 9 Others (Please discuss in			
List the p	ermits likely required for the	project and summarize why the permits are n	needed. includina permi	ts designated as "Other."
Per coo IDEM S Mitigatio Coastal Applicat docume	rdination with INDOT EWPO ection 401 WQC, an IDEM Con will we required since cun Program's boundary but is colle recommendations provid	O on September 14, 2022, due to impacts to lil Construction Stormwater General Permit (CQC nulative impacts to WOTUS are greater than (exempt from Federal Consistency review due ed by resource agencies are included in the Exencessary, the conditions of the permit will be	kely WOTUS, a USACE GP), and an IDNR CIF 0.1 acre. This project is to the USACE Section Environmental Commitn	E Section 404 NWP, an permit are required. within the Lake Michigan 404 NWP.
It is the	responsibility of the project s	sponsor to identify and obtain all required perr	mits.	
	, , , ,			
ENVIR	ONMENTAL COMMITME	:NTS		
	mmitments and include the a	name of agency/organization requesting/requ	iring the commitment(s). Listed commitments
Firm:				
1)		nanent or temporary right-of-way amounts ch be contacted immediately. (INDOT ESD and		and the INDOT District
2)	It is the responsibility of the	e project sponsor to notify school corporations and block or limit access. (INDOT ESD)	,	es at least two weeks prior

deer passage still needs to be considered in the design and at minimum the bank lines must be restored within structures to allow for smaller wildlife passage above the ordinary high water mark. All wildlife passage designs must include a smooth level pathway a minimum of 1-2 feet in width composed of natural substrate (soil, sand, gravel, etc.) or compacted aggregate fill over riprap (#2, #53, #73, etc.) tied into existing elevations both upstream and downstream. The stream crossing repairs or modifications, and any bank stabilization under or around the structure, must not create conditions that are less favorable for wildlife passage when compared to existing conditions. (IDNR-DFW)

4) Riprap must not be placed in the active thalweg channel or placed in the streambed in a manner that precludes fish or aquatic organism passage (riprap must not be placed above the existing streambed elevation). Riprap may be used only at the toe of the side slopes up to the ordinary high water mark (OHWM). The banks above the OHWM must be restored,

3) For brand new crossings in areas that currently do not have a crossing, the new structure must accommodate white-tailed deer passage where appropriate. For crossing replacements, the new structure must include wildlife passage appropriate for the type of replacement structure being proposed. If white-tailed deer passage is not possible with the existing structure,

Northern Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. (IDNR-DFW)

5) Install an entrenched silt fence along the border of the work area on the east side of bridge and along the east side north of

stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to

- the bridge, where feasible to prevent Blanding's turtles from entering the area (IDNR-DFW)
- 6) Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season (USFWS)
- 7) Tree Removal AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 8) Tree Removal AMM 2: Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 ft. of existing road/rail surface and outside of documented roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed. (USFWS and IDNR-DFW)
- 9) Tree Removal AMM 3: Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g. install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits). (USFWS)
- 10) Tree Removal AMM 4: Do not remove documented Indiana bat or NLEB roosts that are still suitable for rooting, or trees within 0.25 miles of roosts, or documented foraging habitat any time of year. (USFWS)
- 11) General AMM 1: Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are

This is page 22 of 23	Project name:	US 6 Bridge Project	Date:	March 2, 2023

		Indiana De	partme	ent of Transportation	on	
County	Lake	Route	US 6	3	Des. No.	1900012
12)	(USFWS) Prior to the start obirds are found duduring the nesting season (Septemb	VFRA/FTA (Transportation of nesting season (May 1) the tring the inspection avoidance season. Nests without eggs er 8 – April 30) and during the dor disturbed during the ne	e structure e and mir or young e nesting	e must be inspected for bird nimization measures must l g should be removed prior to g season if no eggs or youn	ds or signs of be implemen o constructio g are presen	birds. If birds or signs of ted prior to the start of and n during the non-nesting t. Nests with eggs or young
13)	screened or buffer If construction will Inspection of the s inspection must in	red from active construction. begin after May 17, 2023, a structure should check for predicate no signs of bats or biental Manager must be contained.	(INDOT) n inspecti esence of ds. If sign	ESD) ion of the structure by a qua f bats/bat indicators and/or ns of bats or birds are docu	alified individ presence of	ual, must be performed. birds. The results of the
14)	If excavation of Roand/or groundwate	OW occurs in the northwest er will be necessary. Refer to ination. (INDOT SAM)	corner of	the project area, proper ha	ndling, remo	val, and disposal of soil ended procedure to manag
15)	Any work in a wet permit. (INDOT E	land area within ROW or in t SD)	orrow/wa	iste area is prohibited unles	ss specifically	/ allowed in the USACE
-	(INDOT - Aviation		-	·		
18) 19)	37th Ave. (Ridge I Open Water 1 will Wetlands D and E If any special ever	y or the Lake County Highw Rd.) is used as the local deto be marked on the plans as will be marked on the plans and or festivals are held during INDOT social media page	our route. 'Do Not Do not as "Do Not Indiana"	(Lake County Highway Depoisturb". (INDOT ESD) Not Disturb". (INDOT ESD) action activities announcem	partment) ents regardir	ng construction activities wil
21) 22) 23)	structure. (IDNR-I Do not construct a DWF) Operate equipment Use minimum ave	n: n the low flow area except fo	ccess brid	dges, causeways, cofferdar	ms, diversion	s, or pumparounds. (IDNR-



Table of Contents

Appendix A: INDOT Supporting Documentation	A-1
CE Level Threshold Chart	A-2
Appendix B: Graphics	B-1
Project Location	B-2
USGS Topographic Map	B-3
Aerial Map and Site Photograph Locations	B-4
Site Photographs	B-5 to B-6
Stage 2 Plans	
Appendix C: Early Coordination	
Sample Early Coordination Letter and Mailing List	
IGWS Response	
IDEM Roadway Letter	
IDNR Response	
INDOT - ESD Response	C-21
IDNR – Outdoor Recreation Response	
INDOT - Aviation Response	C-26
Lake County Highway Department Response	C-27
Information Planning and Consultation	
Appendix D: Section 106 of the NHPA	
MPPA Applicability Documentation	D-2 to D-5
Appendix E: Red Flag and Hazardous Materials	E-1
Red Flag Investigation	E-2 to E-11
Appendix F: Water Resources	F-1
Waters of the U.S. Report	F-2 to F-46
Indiana Floodplain Information Portal Report	
Appendix G: Air Quality	
NIRCP TIP FY 2022-2026	
FHWA/FTA Letter to INDOT	
Appendix H: Public Involvement	
Notice of Survey	
Appendix I: Additional Studies	
Bridge Inspection Report Excerpt	
Lake County LCWF Excerpt	
El Analysia	111 + 114



APPENDIX A

INDOT Supporting Documentation

Categorical Exclusion Level Thresholds

	PCE	Level 1	Level 2	Level 3	Level 4 ¹
Section 106	Falls within guidelines of Minor Projects PA	"No Historic Properties Affected"	"No Adverse Effect"	-	"Adverse Effect" Or Historic Bridge involvement ²
Stream Impacts ³	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	USACE Individual 404 Permit ⁴
Wetland Impacts ³	No adverse impacts to wetlands	< 0.1 acre	-	< 1.0 acre	≥ 1.0 acre
Right-of-way ⁵	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations ⁶	None	-	-	< 5	≥ 5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)*	"No Effect", "Not likely to Adversely Affect" (With select AMMs ⁷)	"Not likely to Adversely Affect" (With any AMMs or commitments)	-	"Likely to Adversely Affect"	Project does not fall under Species Specific Programmatic ⁸
Threatened/Endangered Species (Any other species)*	Falls within guidelines of USFWS 2013 Interim Policy or "No Effect"	"Not likely to Adversely Affect"	-	-	"Likely to Adversely Affect"
Environmental Justice	No disproportionately high and adverse impacts	-	-	-	Potential ⁹
Sole Source Aquifer	No Detailed Groundwater Assessment	-	-	-	Detailed Groundwater Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Section 4(f) Impacts	None	-	-	-	Any ¹⁰
Section 6(f) Impacts	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Noise Analysis Required	No	-	-	-	Yes
Air Quality Analysis Required	No	-	-	-	Yes ¹¹
Approval Level District Env. (DE) Env. Serv. Div. (ESD) FHWA	Concurrence by DE or ESD	DE or ESD	DE or ESD	DE and/or ESD	DE and/or ESD; and FHWA

¹ Coordinate with INDOT Environmental Services Division. INDOT will then coordinate with the appropriate FHWA Environmental Specialist.

² Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement.

³ Total permanent impacts to streams (linear feet) and wetlands (acres).

⁴US Army Corps of Engineers Individual 404 Permit

⁵ Total permanent and temporary right-of-way. This does not include reacquisition of existing apparent right-of-way.

⁶ If any relocations are within an area with a known or suspected Environmental Justice (EJ) or disadvantaged population, or has greater than 5 relocations, a conversation with FHWA, through INDOT ESD, is needed to confirm NEPA classification and outreach plan for the project.

Avoidance and Mitigation Measures (AMMs) determined by the IPAC determination key to be required that are not tree AMMs, bridge AMMs, or structure AMMs.

⁸ Projects that do not fall under a Species Specific Programmatic and results in a "Likely to Adversely Affect". Other findings can be processed as a lower-level CE.

⁹ Potential for causing a disproportionately high and adverse impact.

¹⁰ Section 4(f) use resulting in an Individual, Programmatic, or *de minimis* evaluation. The only exception is a *de minimis* evaluation for historic properties (Effective January 2, 2020). If a historic property *de minimis* and no other use, mark the *None* column.

¹¹ Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

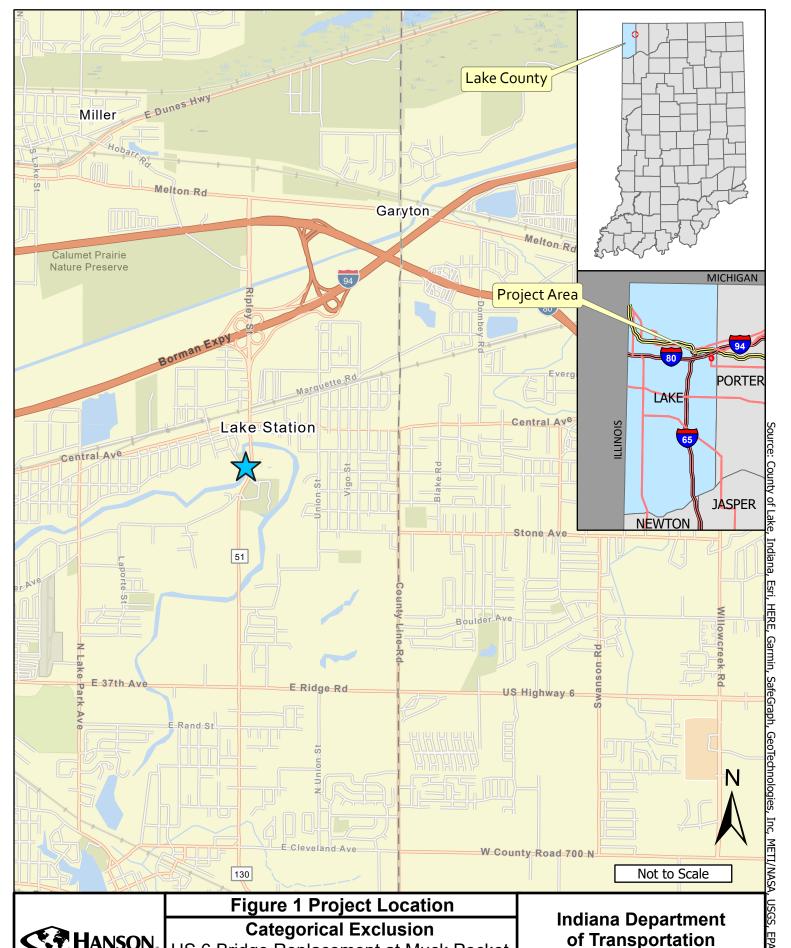
^{*} Includes the threatened/endangered species critical habitat

Note: Substantial public or agency controversy may require a higher-level NEPA document.



APPENDIX B

Graphics





US 6 Bridge Replacement at Muck Pocket Lake County, Indiana

Des. No. 1900012

Created: 8/2/2022

of Transportation

100 North Senate Avenue Indianapolis, IN 46204



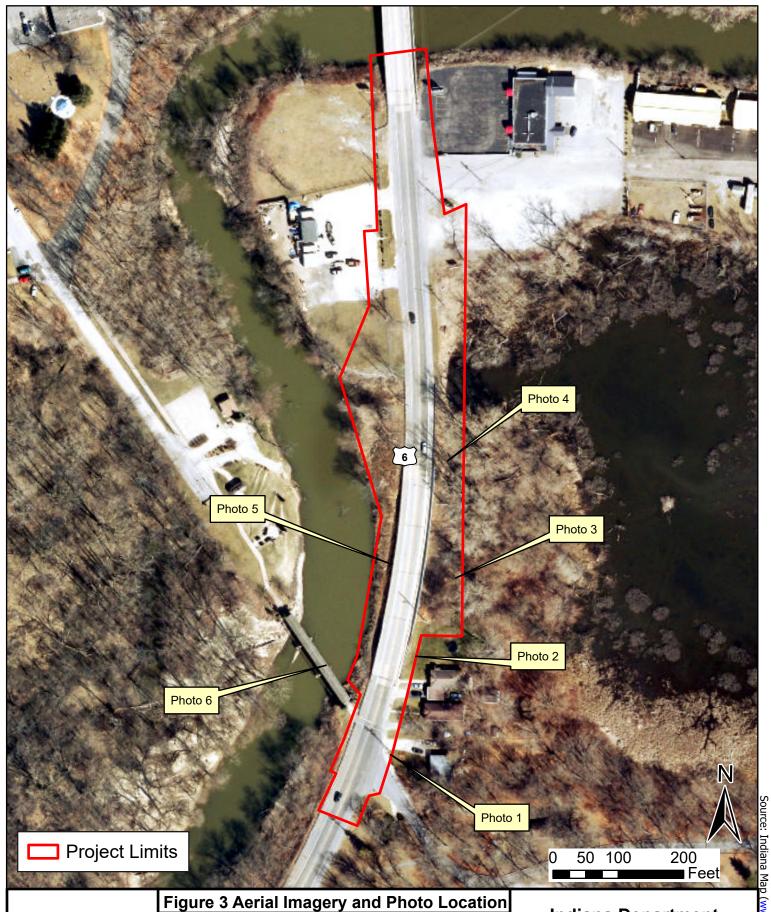




Figure 3 Aerial Imagery and Photo Location Categorical Exclusion

US 6 Bridge Replacement at Muck Pocket Lake County, Indiana

Des. No. 1900012

Created: 8/2/2022

Indiana Department of Transportation

100 North Senate Avenue Indianapolis, IN 46204



Photo 1. US 6/SR 51 at Riverview Park entrance, viewing north, 9/30/2020



Photo 2. US 6/SR 51 southeast corner, viewing northwest, 9/30/2020



Photo 3. US 6/SR 51 Bridge east side by Muck Pocket, viewing north, 9/30/2020



Photo 4. US 6/SR 51 Bridge northeast corner, viewing south, 9/30/2020





Photo 5. US 6/SR 51 Bridge west side along Deep River, viewing north, 9/30/2020

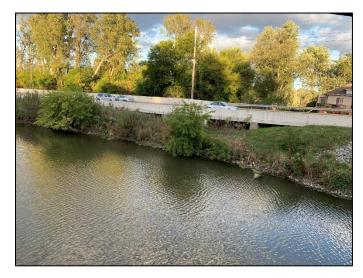


Photo 6. US 6/SR 51 Bridge west side from covered walking bridge with Deep River, viewing northeast, 9/30/2020

PROJECT	DESIGNATION
1900012	1900012
CONTRACT	BRIDGE FILE
B-42442	(6)51-45-10466-B

STRUCTURE INFORMATION							
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION			
(6)51-45-10466-B	REINFORCED CONCRETE SLAB BRIDGE	UNIT 1 3 SPANS: 20'-0", 25'-0" & 20'-0" SKEW: 0° UNIT 2 THRU 7 3 SPANS: 23'-9", 31'-0" & 23'-9" SKEW: 0°	MUCK POCKET	74+52.50 LINE "C2"			

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: US 6 / SR 51 OVER MUCK POCKET AT: RP 16 - 13

PROJECT NO. 1900012 P.E.

1900012 R/W

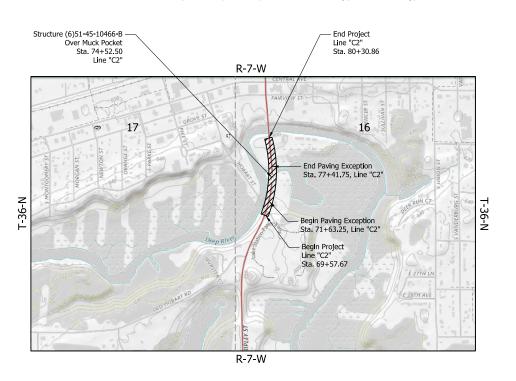
1900012 CONST.

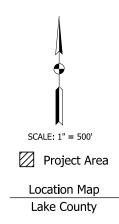
Project Description: Bridge replacement on US 6/ SR 51 over Muck Pocket Located 0.84 miles South of SR 51/I-80/94 Section 16, T-36-N, R-7-W, Hobart Township, Lake County, Indiana



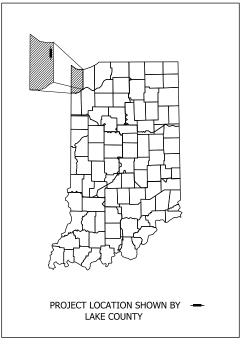
Soil Boring Logs

redacted





	C DATA	
A.A.D.T.	(2021)	16,398 V.P.D.
A.A.D.T.	(2044)	17,303 V.P.D.
D.H.V	(2044)	1,601 V.P.H.
DIRECTIONAL DISTR	RIBUTION	50 %
TRUCKS		4 % A.A.D.T
		8 % D.H.V.
		0 % D.H.V.
DESIGN DESIGN SPEED	DATA	
DESIGN SPEED		35 м.р.н
DESIGN SPEED PROJECT DESIGN CR	RITERIA	35 M.P.H 4R (Non-Freeway
DESIGN SPEED PROJECT DESIGN CR FUNCTIONAL CLASSI	RITERIA	35 M.P.H 4R (Non-Freeway PRINCIPAL ARTERIAL - OTHER
DESIGN SPEED PROJECT DESIGN CR	RITERIA	35 M.P.H 4R (Non-Freeway
DESIGN SPEED PROJECT DESIGN CR FUNCTIONAL CLASSI	RITERIA	35 M.P.H 4R (Non-Freeway PRINCIPAL ARTERIAL - OTHER



LATITUDE: 41°34'14"	LONGITUDE: -87°14'23"	
BRIDGE LENGTH:	0.102	MI.
ROADWAY LENGTH:		MI
TOTAL LENGTH:	0.203	MI.
MAX. GRADE:	2.75	_ %
HUC	12: 040400010508	

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

FDS HDR ENGINEERING, INC. 10401 NORTH MERIDIAN STREET INDIANAPOLIS, IN 46290-0900 PHONE: (317) 558-4920

PLANS
PREPARED BY: HDR ENGINEERING INC "THIS NEDIA SHOULD NOT BE CONSIDE A CERTIFIED DOCUMENT." \$SIG_DATE\$ APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION

22 00E9 WITH THE 0E TE WO					
	BRI	DGE F	ILE		
	(6)51-	45-10	1466 - B		
DESIGNATION			TION		
	1	90001	.2		
SURVEY BOOK	S	HEET	S		
Electronic	1 of 52				
CONTRACT	CONTRACT PROJECT				
B-42442	1	90001	.2		

UTILITIES					
UTILITY	ADDRESS	CITY/STATE/ZIP	CONTACT NAME	PHONE	EMAIL
City of Lake Station (Sanitary Sewer)	1969 Central Avenue	Lake Station, IN 46405	Frank Krebs	219-406-1402	fkrebs@lakestation-in.gov
Frontier Communications (Telephone)	2401 Chicago St.	Valparaiso, IN 46383	Charles Mckean	219-531-6947	Chuck.McKean@ftr.com
Indiana DOT (Traffic Signals)	315 E. Boyd Blvd.	LaPorte, IN 46350	Adam Banks	219-352-7581	ABanks1@indot.IN.gov
Indiana American Water	153 N Emerson Avenue	Greenwood, IN 46143	Ellen Hohl	317-504-9419	inutilitycoordination@amwater.com
NIPSCO Electric	801 E 86th Ave.	Merrillville, IN 46410	Dean Garrett	219-647-6260	DAGarrett@NiSource.com
NIPSCO Gas	801 E 86th Ave.	Merrillville, IN 46410	Dean Garrett	219-647-6260	DAGarrett@NISource.com
Town of New Chicago	122 Huber Blvd	Hobart, IN 46342	Alicia Barber	219-484-3460	watermanager@frontier.com

REVISIONS					
SHEET NO.	DATE	REVISED			

GENERAL NOTES

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

All removal items not paid for directly will be included in the lump sum cost of "Clearing Right of Way."

It is the Contractor's responsibility to contact any and all utility companies within the limits of the project three weeks prior to any construction.

When re-shaping cross section, all existing slopes steeper than 4:1 shall be benched before establishing the proposed flattened slope.

All borrow used on this job shall be obtained within the right of way limits, unless approved by the Project Engineer.

The Contractor shall ensure that safe access is maintained to all residences and businesses during all phases of construction.

All concrete curbing including modified or special curbs as shown on the plans shall be in accordance with Section 605.

Existing curb types may vary at streets. The Contractor shall inspect curb prior to beginning work to assure proper fit and transition.

The Contractor shall ensure that positive drainage is maintained along curb and gutter flowlines and at Intersections after the completion of curb ramp construction.

Sidewalks and curb ramps have been designed to a cross slope of 1.5% or as specified otherwise herein. If field conditions differ, the Contractor shall ensure sidewalk and curb ramp cross slope is no greater than 2.00% in final constructed condition.

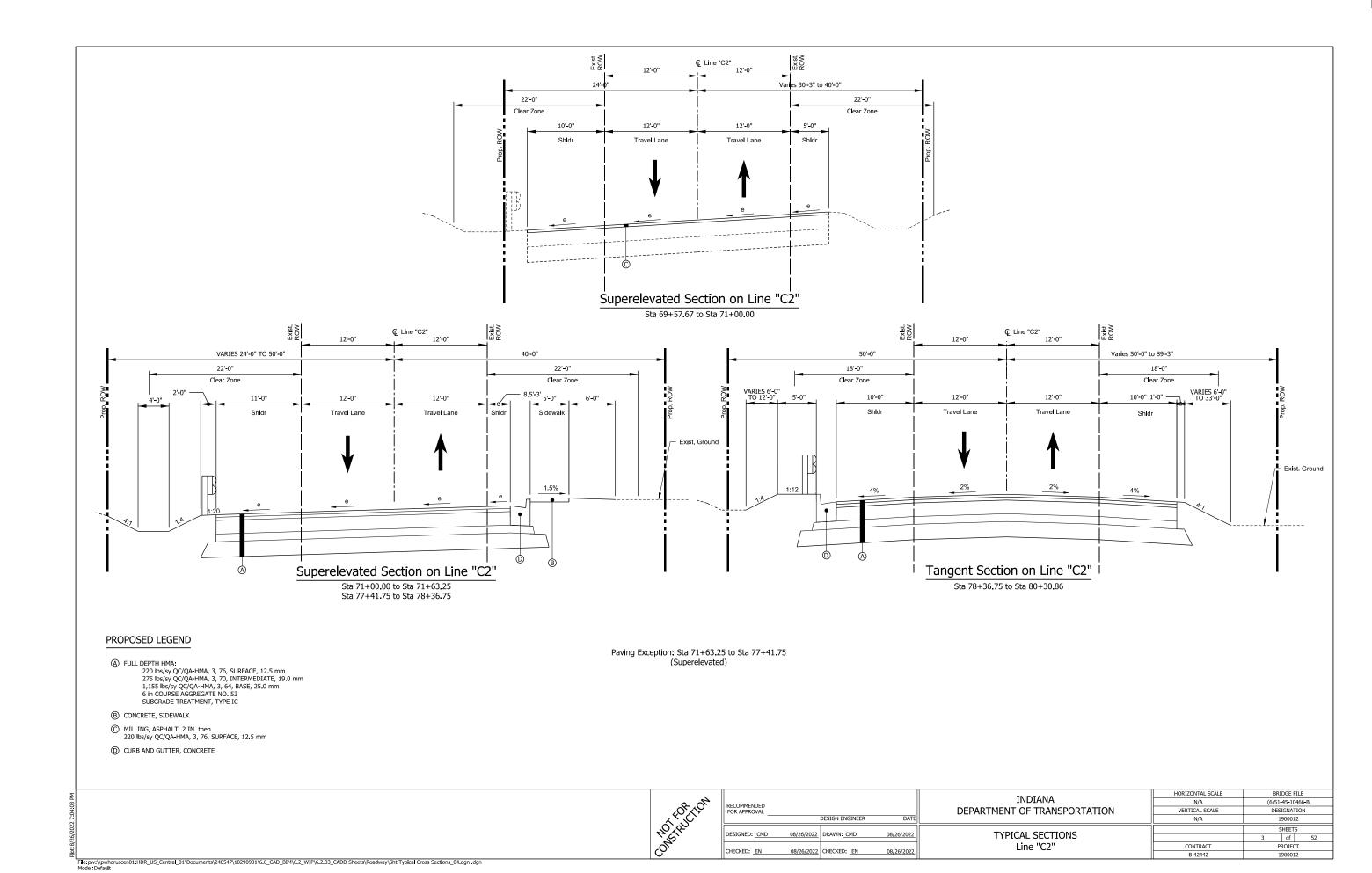
INDEX							
SHEET NO.		DRAWINGS INDEX					
1		TITLE					
2		GENERAL NOTES & INDEX					
3		TYPICAL CROSS SECTIONS					
4		PLAT NO. 1					
5		MAINTENANCE OF TRAFFIC DETOUR ROUTE					
6		ALIGNMENT GEOMETRIC DETAILS					
7 -	8	PLAN AND PROFILE SHEETS					
9		SUPERELEVATION DETAILS					
10 -	12	CONSTRUCTION DETIALS					
13		ADA RAMP DETAILS					
14 -	16	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN					
17		PAVEMENT MARKINGS AND SIGNINGS					
18 -	34	SOIL BORINGS					
35		LAYOUT					
36 -	38	GENERAL PLAN					
39		BRIDGE SUMMARY					
40		APPROACH TABLE					
41 -	52	CROSS SECTIONS					



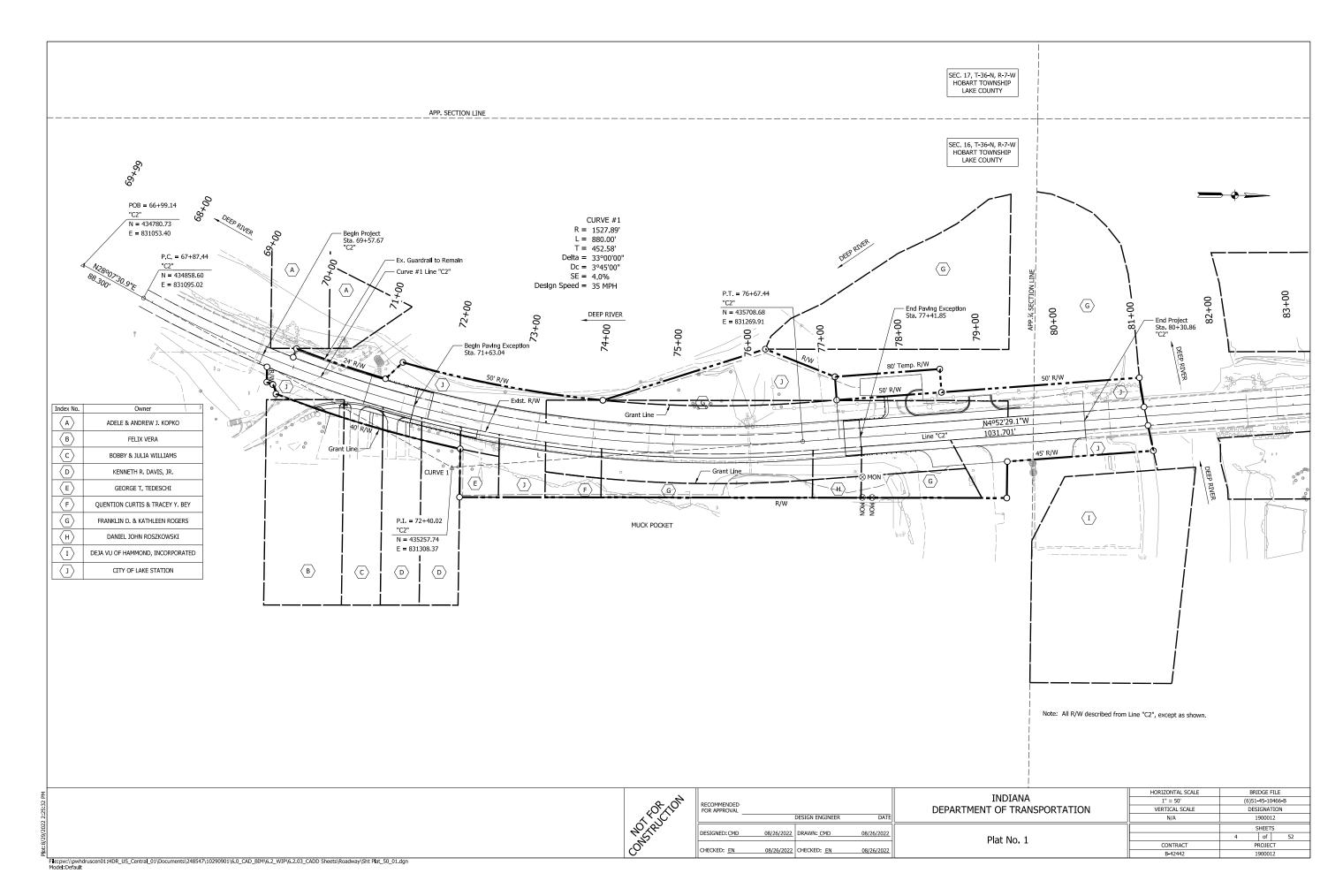
INDIANA UNDERGROUND 1-800-382-5544 OR CALL 811 24 HOURS A DAY 7 DAYS A WEEK

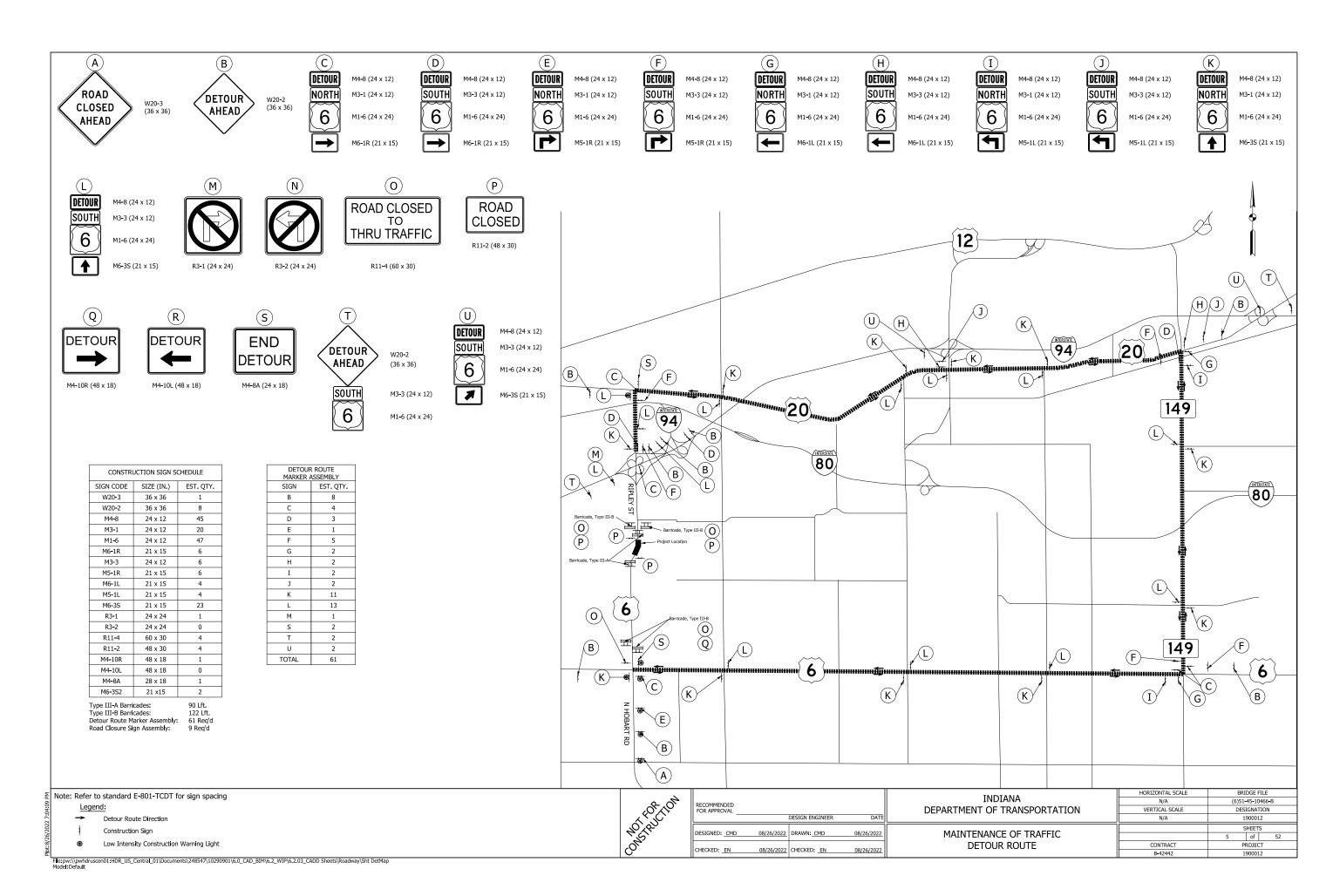
, s
40,40
W KIN
JAS'
O

	DESIGN ENGINEER DATE			INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
RECOMMENDED FOR APPROVAL					N/A	(6)51-45-10466-
					VERTICAL SCALE	DESIGNATION
					N/A	1900012
PESIGNED: <u>EN</u>			ID 08/26/2022	GENERAL NOTES & INDEX		SHEETS
	08/26/2022 DRAW	DRAWN: CMD				2 of
HECKED: JLP	00/04/0000 (01/04	CHECKED: JLP	08/26/2022		CONTRACT	PROJECT
	U8/26/2022 CHECK				B-42442	1900012



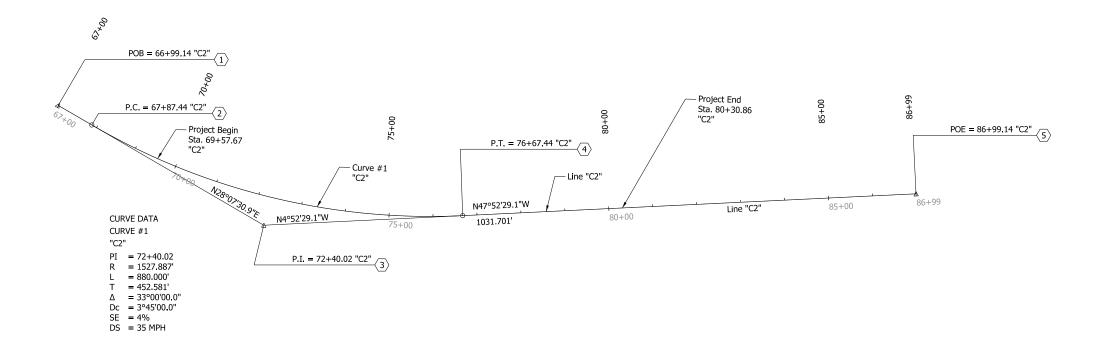
B-9





B-11



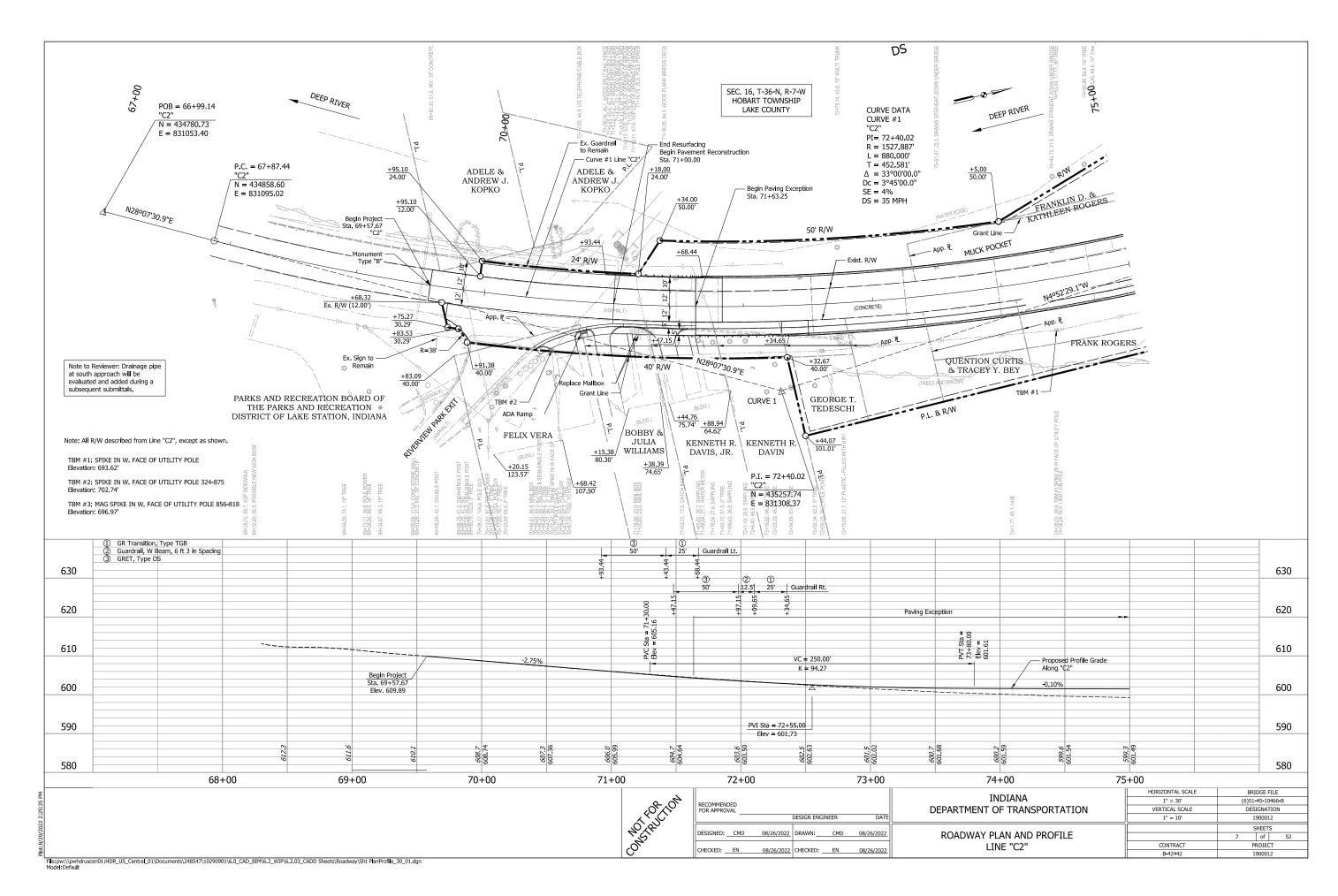


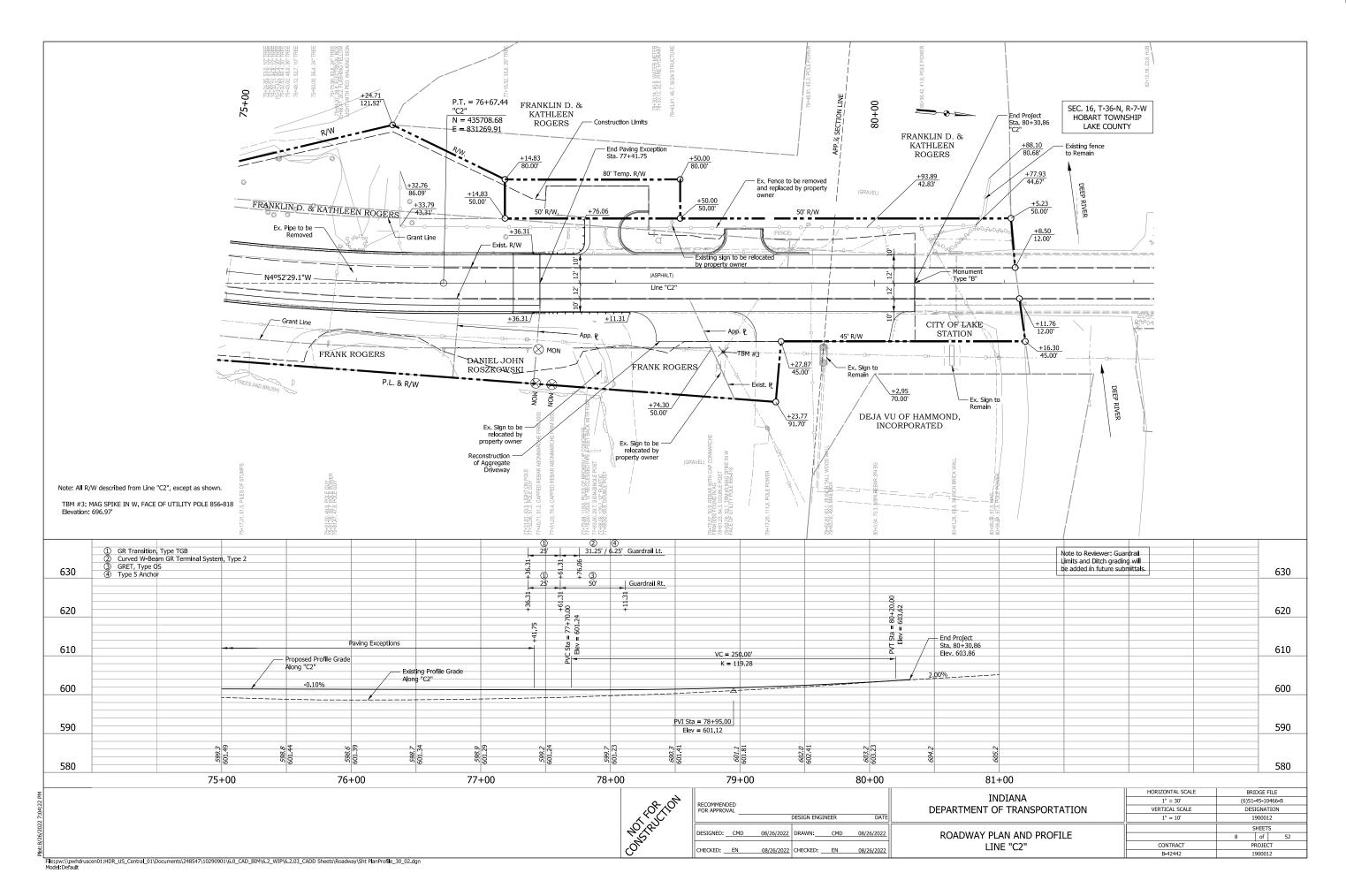
ALIGNMENT DATA (Line "C2")											
Number Northing Easting Stationin											
1	434,780.7259	831,053.3990	P.O.B. 66+99.14								
(2)	434,858.5993	831,095.0237	P.C. 67+87.44								
(3)	435,257.7391	831,308.3706	P.I. 72+40.02								
4	435,708.6829	831,269.9112	P.T. 76+67.44								
5	436,736.6524	831,182.2395	P.O.E. 86+99.14								

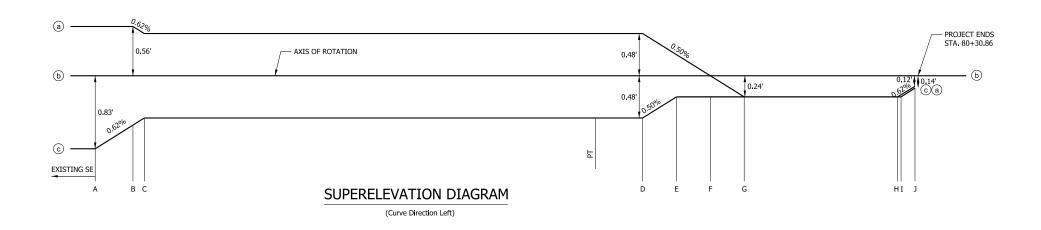
10 10 ¹	
MOTAN	
Ou.	

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
		DESIGN ENGINEER	DATE
DESIGNED: CMD	08/26/2022	DRAWN: CMD	08/26/2022
CHECKED: EN	08/26/2022	CHECKED: EN	08/26/2022

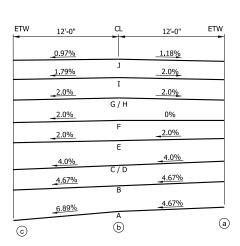
TAIDTANIA	HORIZONTAL SCALE	BRIDGE F.				
INDIANA	1" = 100'	(6)51-45-10-				
DEPARTMENT OF TRANSPORTATION	VERTICAL SCALE	DESIGNATI				
	N/A	1	90001	2		
			SHEET:	s		
ALIGNMENT GEOMETRIC DETAILS		6	of	Т		
LINE "C2"	CONTRACT	PROJEC				
		1000017				







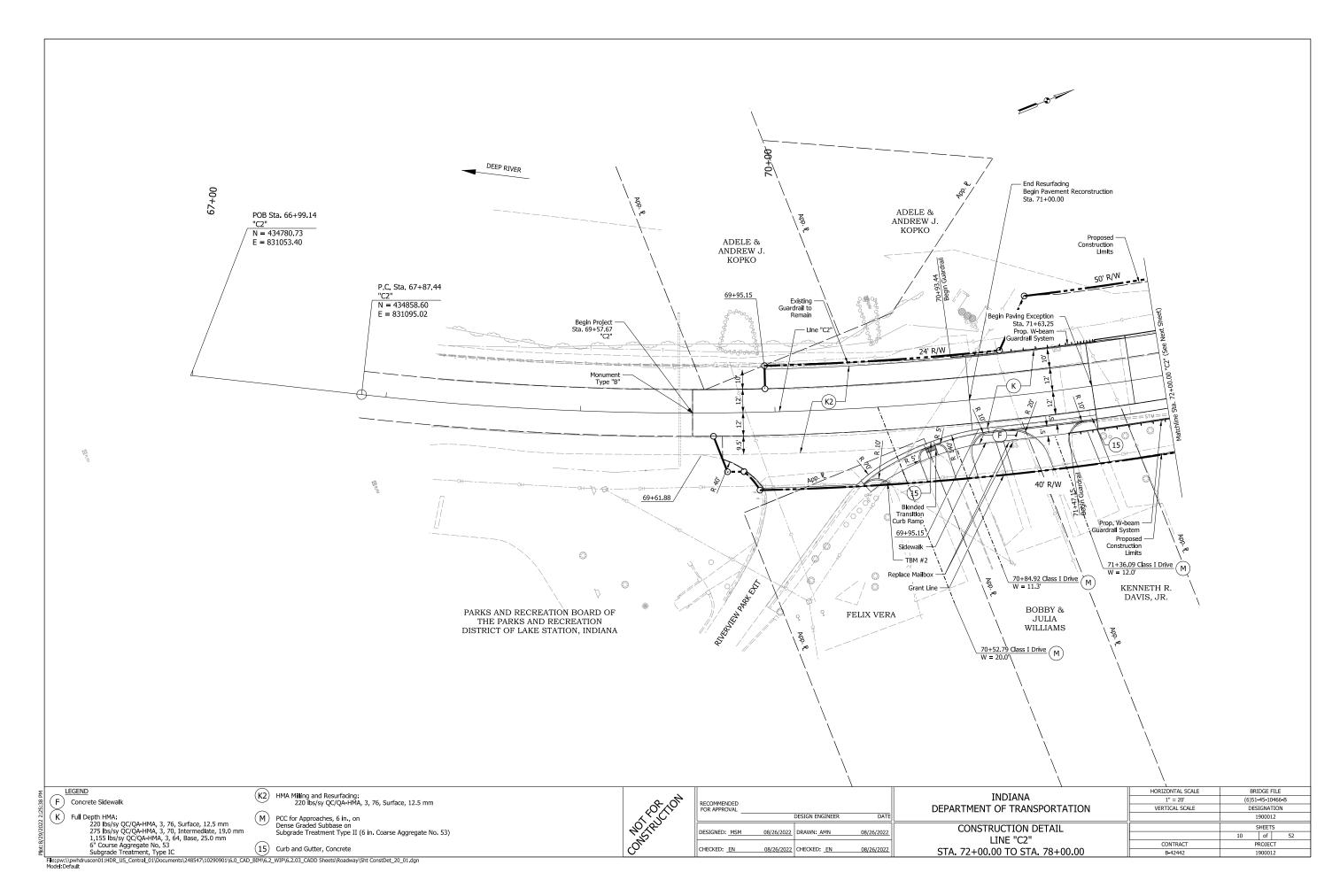
SUPERELEVATION Line "C2"						
Curve	1					
Curve Radius	1527.89					
Super (e)	4%					
PC	67+87.44					
PI	72+40.02					
PT	76+67.44					
Α	70+99.14					
В	71+42.03					
С	71+54.97					
D	77+21.25					
E	77+59.75					
F	77+98.25					
G	78+36.75					
Н	80+11.00					
I	80+15.04					
J	80+30.86					

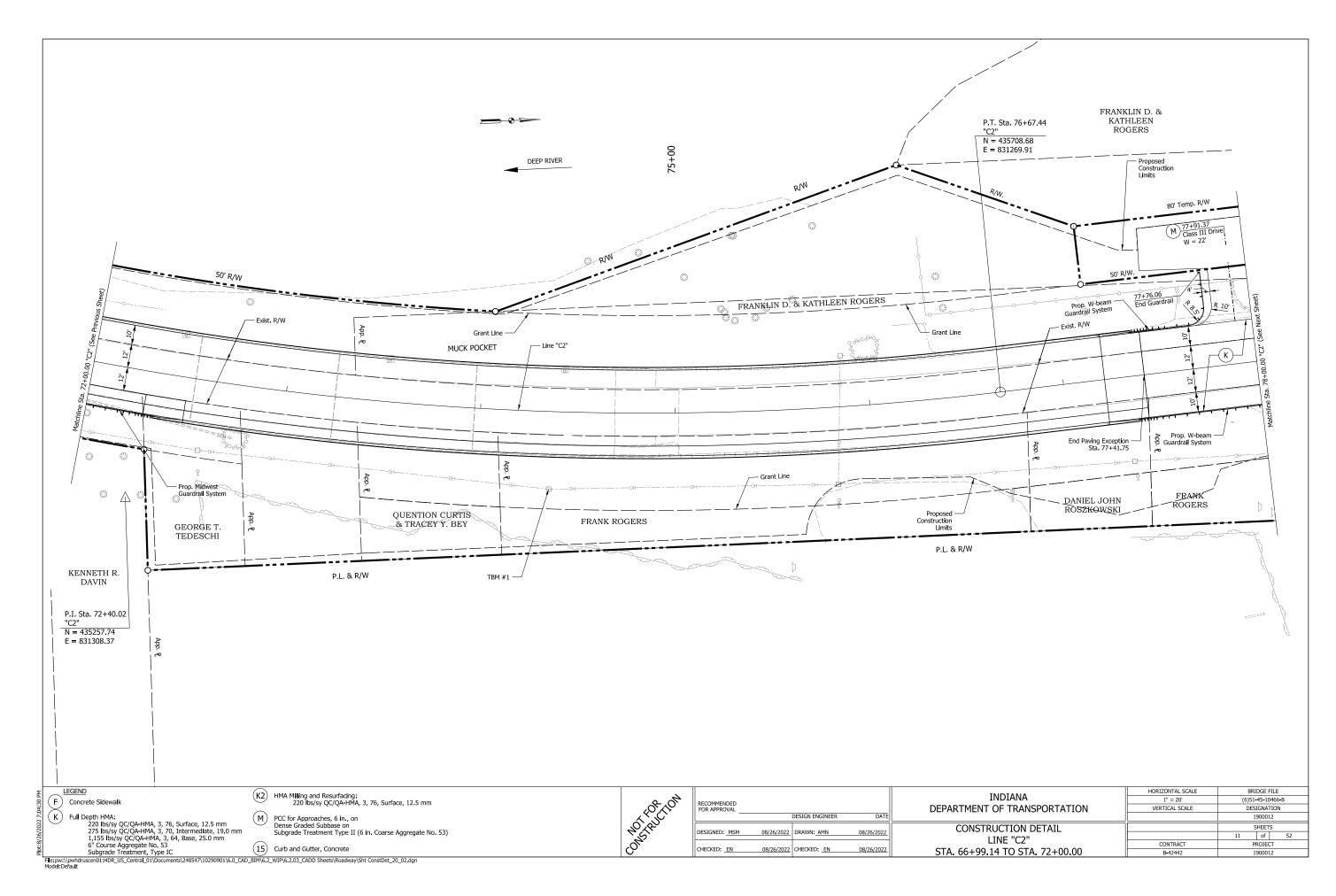


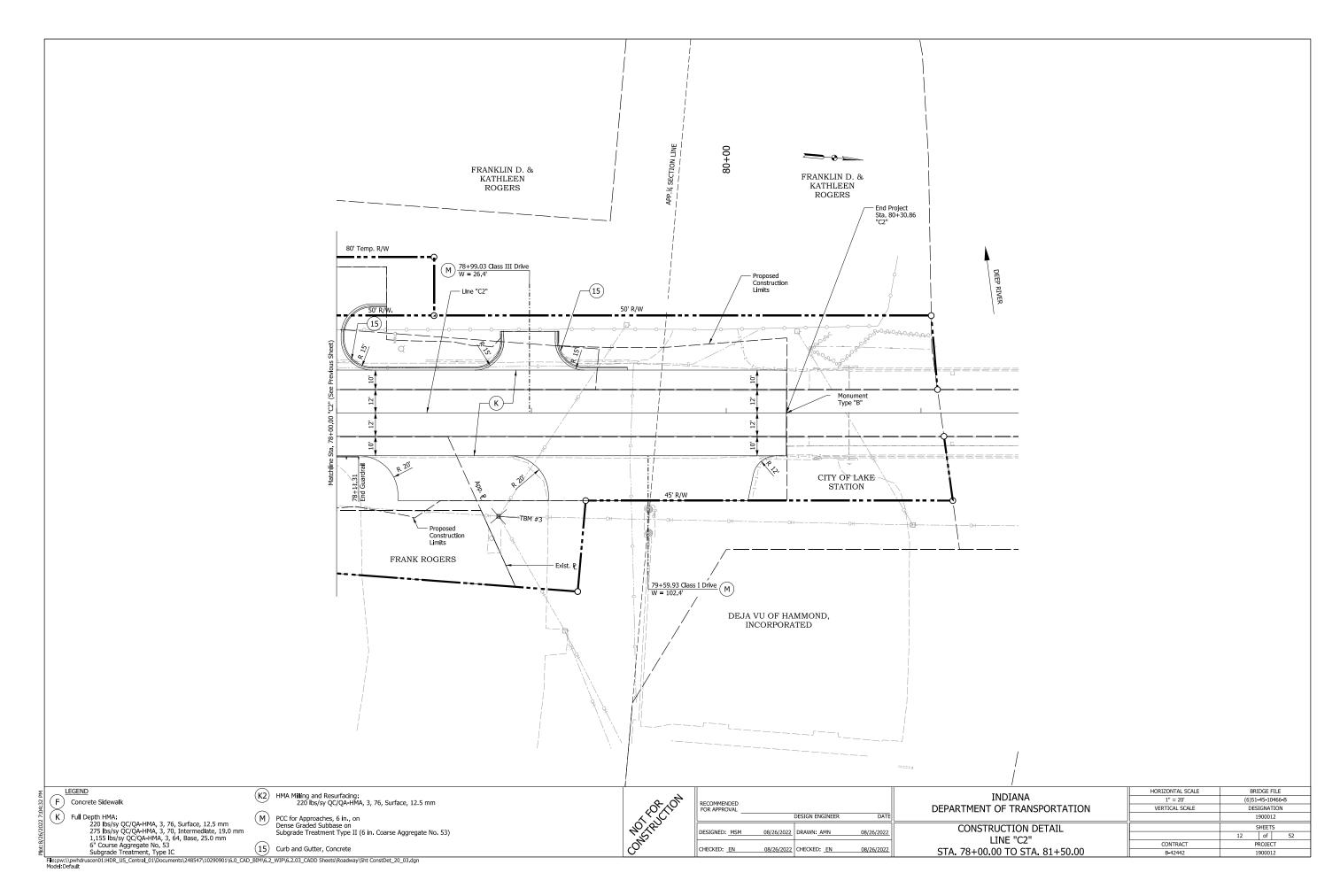
ST AND TON
THO

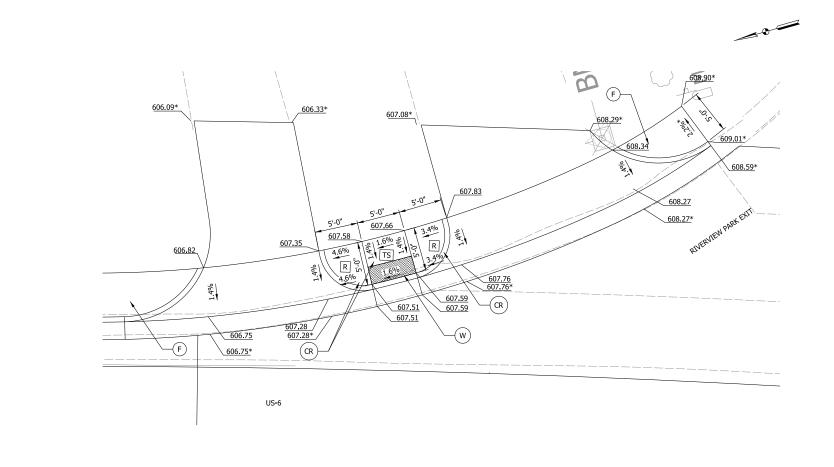
			TAIDTANIA	HORIZONTAL SCALE	BRIDGE FILE				
•	RECOMMENDED		INDIANA	N/A	(6)51-45-10466-B				
	FOR APPROVAL		DEPARTMENT OF TRANSPORTATION	VERTICAL SCALE	DESIGNATION				
		DESIGN ENGINEER DAT		N/A	1900012				
	DEGRAMED 0110 00/05/2000				SHEETS				
DESIGNED: CM	DESIGNED: <u>CMD</u> 08/26/2022	DRAWN: CMD 08/26/202	SUPERELEVATION DETAILS		9 of 52				
	CUECKED. FAI 00/20/2022	CHECKED. EN 00/26/202	Line "C2"	CONTRACT	PROJECT				
	CHECKED: EN 08/26/2022	CHECKED: EN 08/26/202	.	R-42442	1000012				

L File:pw:\\pwhdruscen01:HDR_US_Central_01\Documents\248547\10290901\6.0_CAD_BIM\6.2_WIP\6.2.03_CADD Sheets\Roadway\Sht Super_50_01.dgn Model:Default



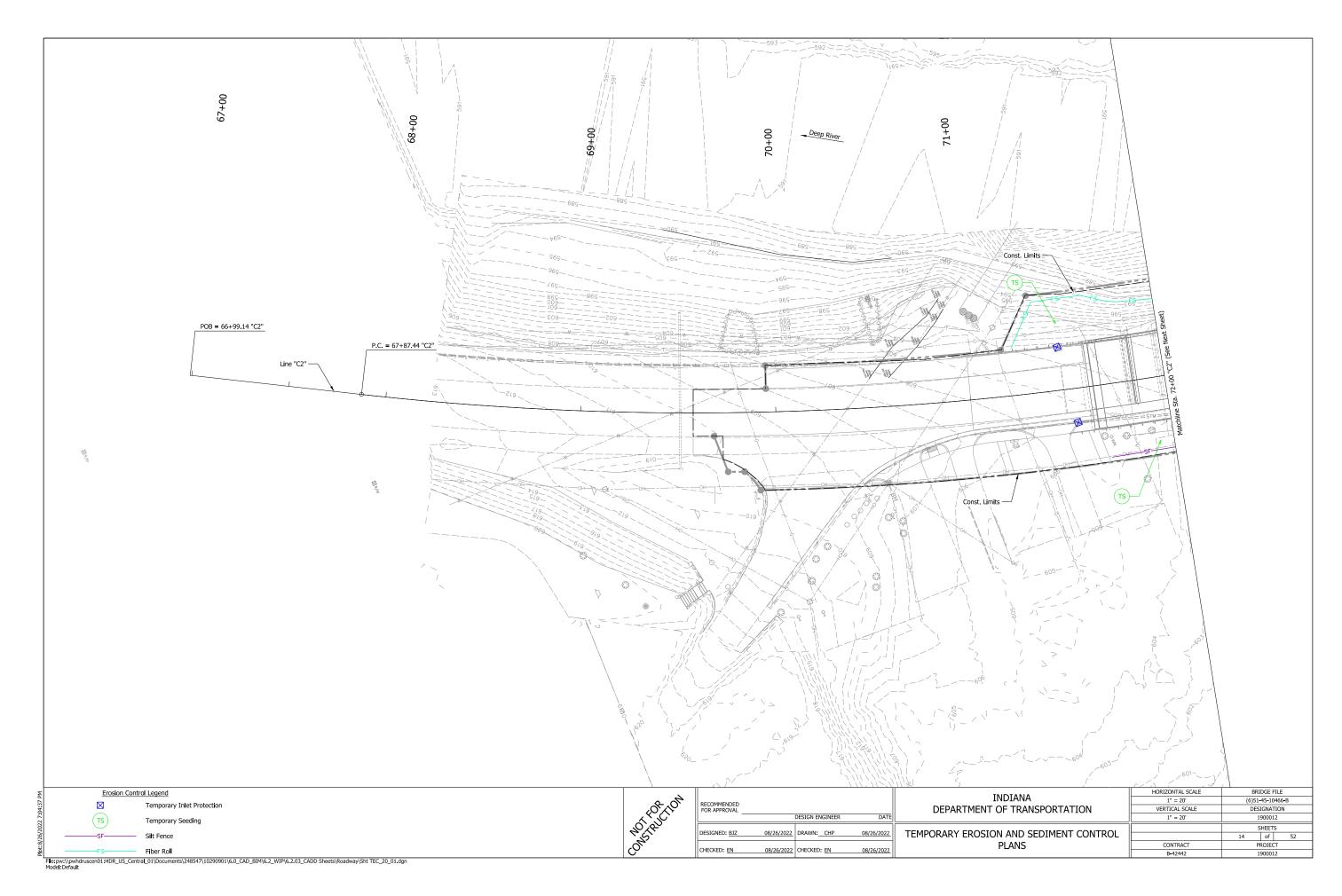


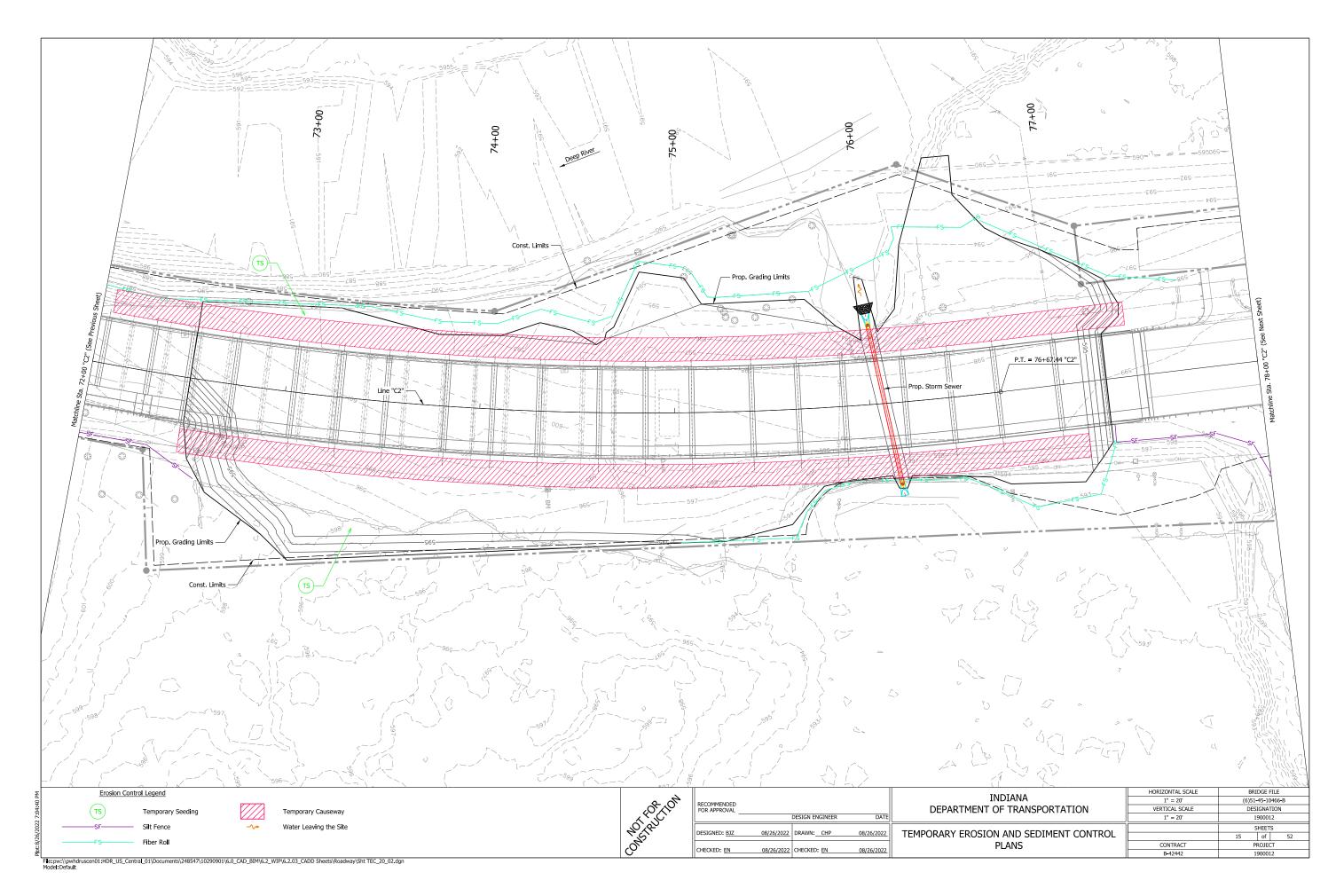




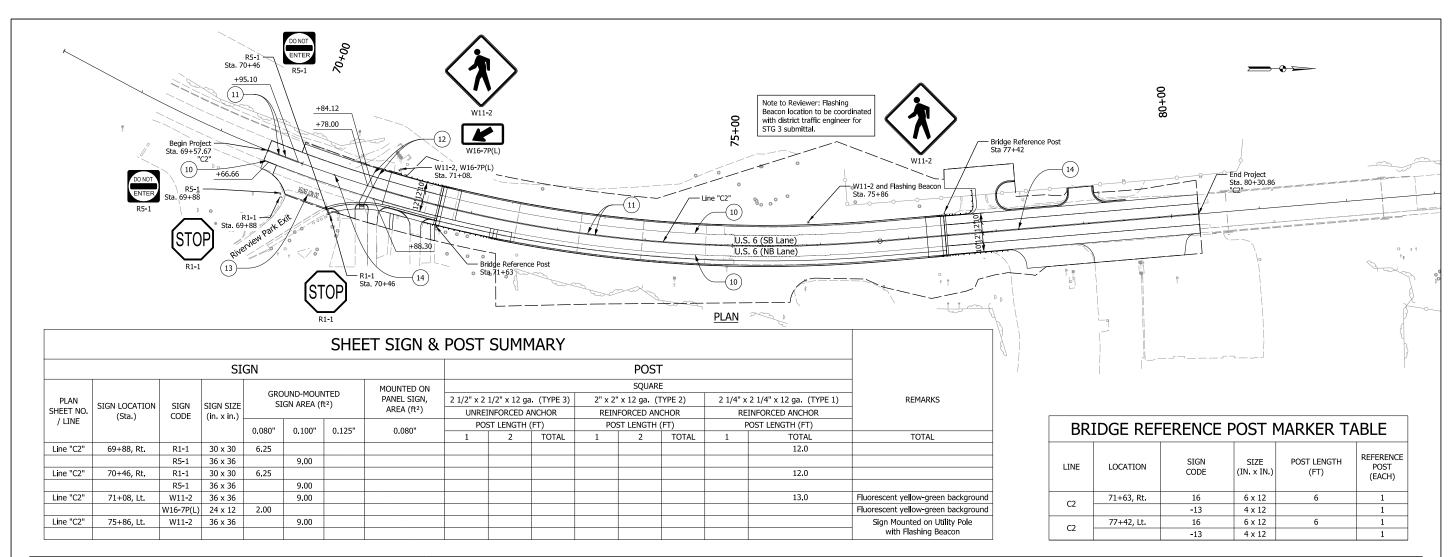
BLENDED TRANSITION CURB RAMP NE CORNER US-6 AND RIVERVIEW PARK EXIT

HORIZONTAL SCALE 1" = 3' VERTICAL SCALE BRIDGE FILE (6)51-45-10466-B INDIANA TS Turning Space (F) Sidewalk Concrete Direction of Slope DEPARTMENT OF TRANSPORTATION DESIGNATION 1900012 R Ramp (CR) Curb Ramp, Concrete Detectable Warning Surface SHEETS 52
PROJECT 08/26/2022 DRAWN: AMN FS Flared Side * Existing Elevation / Slope (W) Detectable Warning Tile ADA RAMP 08/26/2022 CHECKED: EN L
File: pw:\pwhdruscen01:HDR_US_Central_01\Documents\248547\10290901\6.0_CAD_BIM\6.2_WIP\6.2.03_CADD Sheets\Roadway\Sht ADA Ramp_3_01.dgn
Model: Default









	PAVEMENT MARKINGS TABLE																								
LOCATION				LINE, MULTI-	T COMPONENT LINE DAINT LINE THERMODIASTIC DESCOMED MARKING, PAVEMENT MICS MARKINGS,		LINE, PAINT		PREFORMED PAVEM		WPLOWAI RAISED AVEMENT MARKER	2	INEATOR W/POST D3 3 IN. DIA.												
	BROKEN WHITE 6 IN. FT	BROKEN YELLOW 6 IN. FT	BROKEN WHITE 5 IN, FT	SOLID YELLOW 6 IN. FT	SOLID WHITE 6 IN. FT	SOLID WHITE 10 IN. FT	SOLID WHITE 12 IN, FT	SOLID WHITE 16 IN. FT	SOLID WHITE 6 IN. FT	SOLID YELLOW 6 IN. FT	SOLID WHITE 6 IN. FT	SOLID YELLOW 6 IN.	SOLID WHITE 24 IN, FT	BROKEN WHITE 6 IN. FT	BROKEN YELLOW 6 IN. FT	STOP LINE 24 IN. FT	CROSS WALK 8 IN. FT	DO NOT ENTER	LANE ARROW EACH	WORN ONLY EACH	LANE ARROW EACH	WHITE	/ RED	TWO WAY WHITE / RED EACH EACH	
																							$\overline{}$		\top
Sta. 69+57.67 to 80+30.88 Lt.											1067.6														
Sta. 69+57.67 to 69+95.10												74.9											i		
Sta. 70+81.65 to 80+30.87												1898.4													
Sta. 69+57.67 to 69+63.48 Rt.											5.9														
Sta. 70+88.30 to 80+30.87 Rt.											947.0														
Sta. 70+78.00																	43.6								
Sta. 70+84.12																	41.8								
Sta. 69+57.67 to 71+63.03																							6		
Sta. 77+41.75 to 80+30.87																							8		
Sta. 70+17.28																		1					\longrightarrow		\perp
																							\longrightarrow		
																							\longrightarrow		\perp

Legend

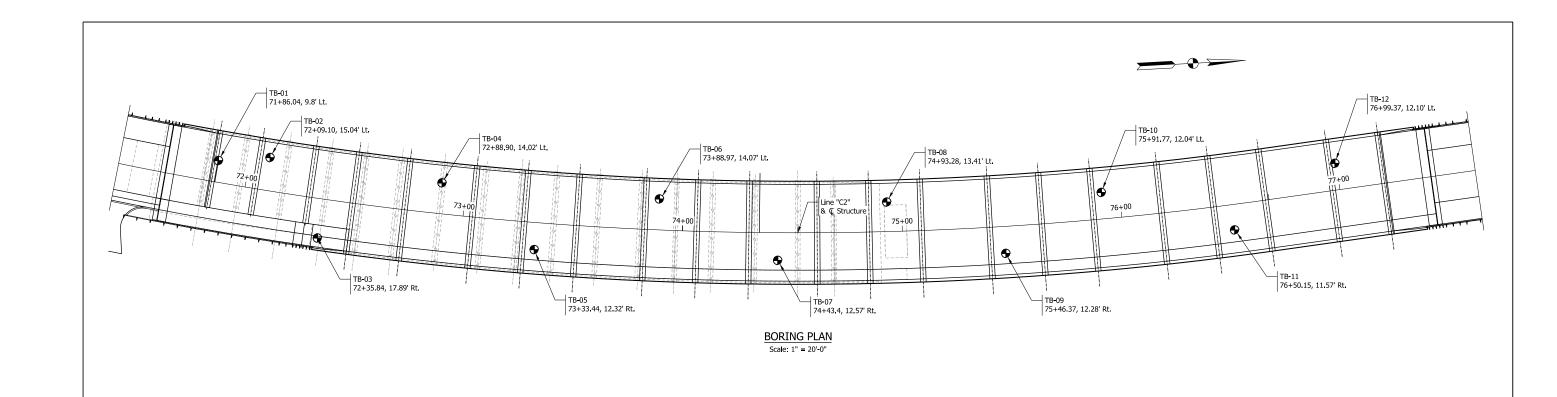
- □ Proposed Ground Mounted Sheet Sign, Both Sides
- → Proposed Ground Mounted Sheet Sign, Single Sides
- Line, Thermoplastic, Solid, White, 6 in.
- Line, Thermoplastic, Solid, Yellow, 6 in.
- 12) Transverse Marking, Paint , Crosswalk, 8 in.
- Pavement Message Marking, Thermoplastic, DO NOT ENTER
- 14 Snowplowable Raised Pavement Marker

TO TION	RI Fi
40 th	DE
Q ⁿ	CH

•	RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATI
	DESIGNED: CMD	08/26/2022	DRAWN: CHP	08/26/2022
	CHECKED: EN	08/26/2022	CHECKED: EN	08/26/2022

TAIRTANIA	HORIZONTAL SCALE	BRIDGE FILE					
INDIANA	1" = 50'	(6)51-45-10466-B					
DEPARTMENT OF TRANSPORTATION	VERTICAL SCALE	DESIGNATION					
	N/A 1900012						
		9	HEET!	5			
PAVEMENT MARKINGS AND SIGNINGS		17	of	52			
TAVEITENT PIARRINGS AND SIGNINGS	CONTRACT	PROJECT					

L
File: pw:\pwhdruscen01:HDR_US_Central_01\Documents\248547\10290901\6.0_CAD_BIM\6.2_WIP\6.2.03_CADD Sheets\Roadway\Sht Pvmt Markings and Signs_50_01.dgm
Model: Default



	PILE LOADING FOR GEOTECHINCAL TESTING														
	Bent No. 1 & Pier No. 2	Pier No. 3 & 4	Pier No. 5 & 6	Bent No. 7 & 8	Pier No. 9 & 10	Pier No. 11 & 12	Pier No. 13 & 14	Pier No. 15 & 16	Pier No. 17 & 18	Pier No. 19 & 20	Pier No. 21 & 22				
Pile Size, Type, and Grade						. x 0.375" Steel F 2, Grade 3 Steel,									
Factored Design Load, Qf (kip)	221	221	221	221	221	221	221	221	221	221	221				
Factored Design Soil Resistance, R, (kips)	223	227	224	221	222	222	222	224	223	225	225				
Resistance Factor for Axial Compression, φ _{dyn}	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7				
Drag Force at Neutral Plane, DF (kips)	-	-	-	-	-	-	-	-	-	-	=				
Nominal Soil Resistance, R _n (kips)	319	324	320	316	317	317	317	319	318	321	321				
Scour Zone Friction, R _{scour} (kips)	0	0	0	4	4	5	10	15	10	7	0				
Nominal Driving Resistance, R _{ndr} (kips)	319	324	320	320	321	322	327	334	328	328	321				
Minimum Pile Tip Elevation	-	-	-	-	-	-	-	-	-	-	-				
Estimated Pile Tip Elevation	513.7	521.8	505.1	503.8	509.6	502.5	504.7	499.2	501.1	502.6	508.6				
Testing Method			Star	ndard Specification	s Section 701.05	(b)									

W. Karly

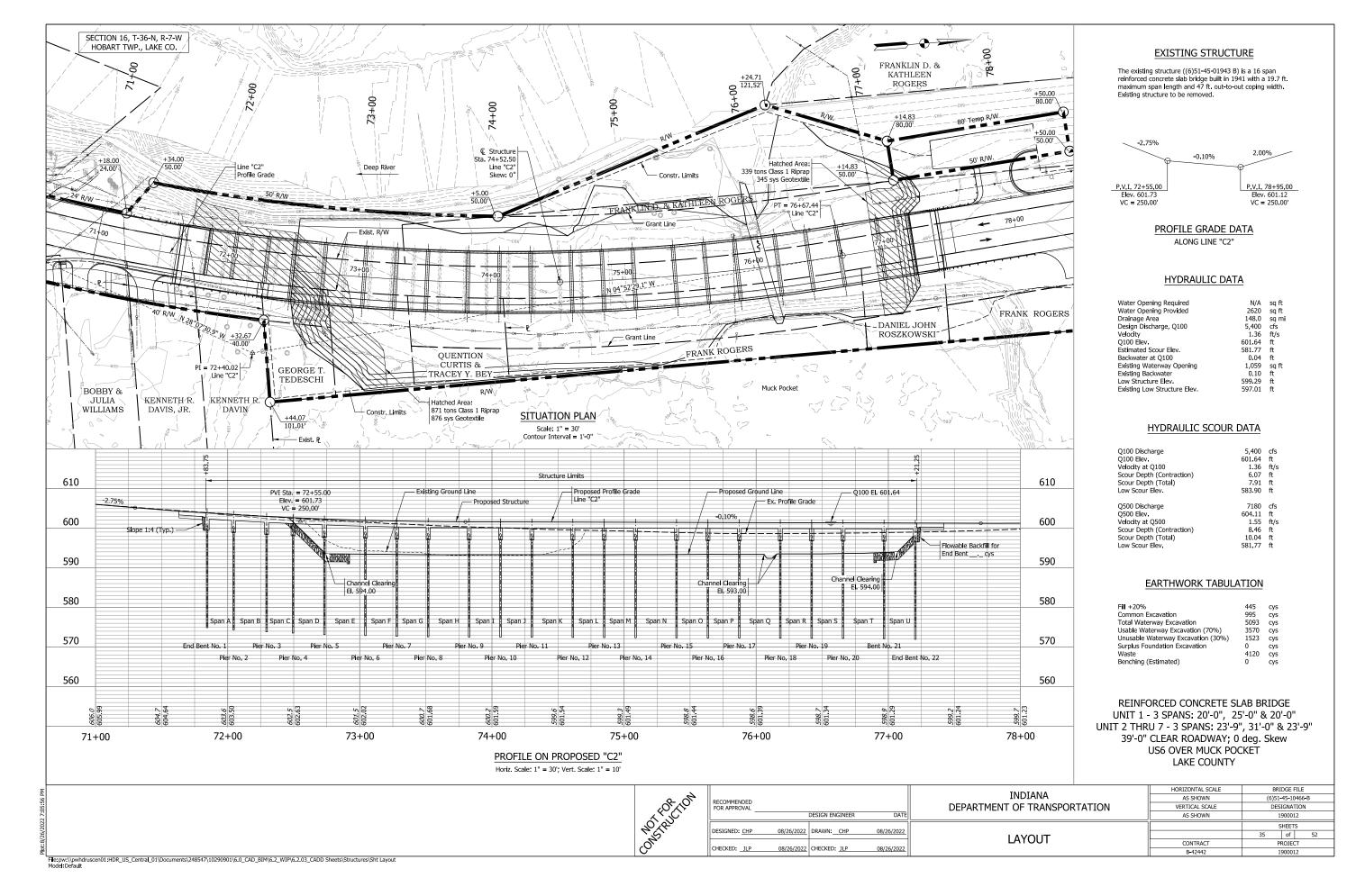
		TNIDTANIA	HORIZONTAL SCALE
RECOMMENDED		INDIANA	NTS
FOR APPROVAL		DEPARTMENT OF TRANSPORTATION	VERTICAL SCALE
	DESIGN ENGINEER DATE		NTS
DESIGNED: <u>CHP</u> 08/26/2022	DRAWN: <u>CHP 08/26/2022</u>	SOIL BORINGS	
CUECUED III OCUCUODO	CUECUED III D	SOIL DORINGS	CONTRACT
CHECKED: <u>JLP 08/26/2022</u>	CHECKED: <u>JLP 08/26/2022</u>		B-42442

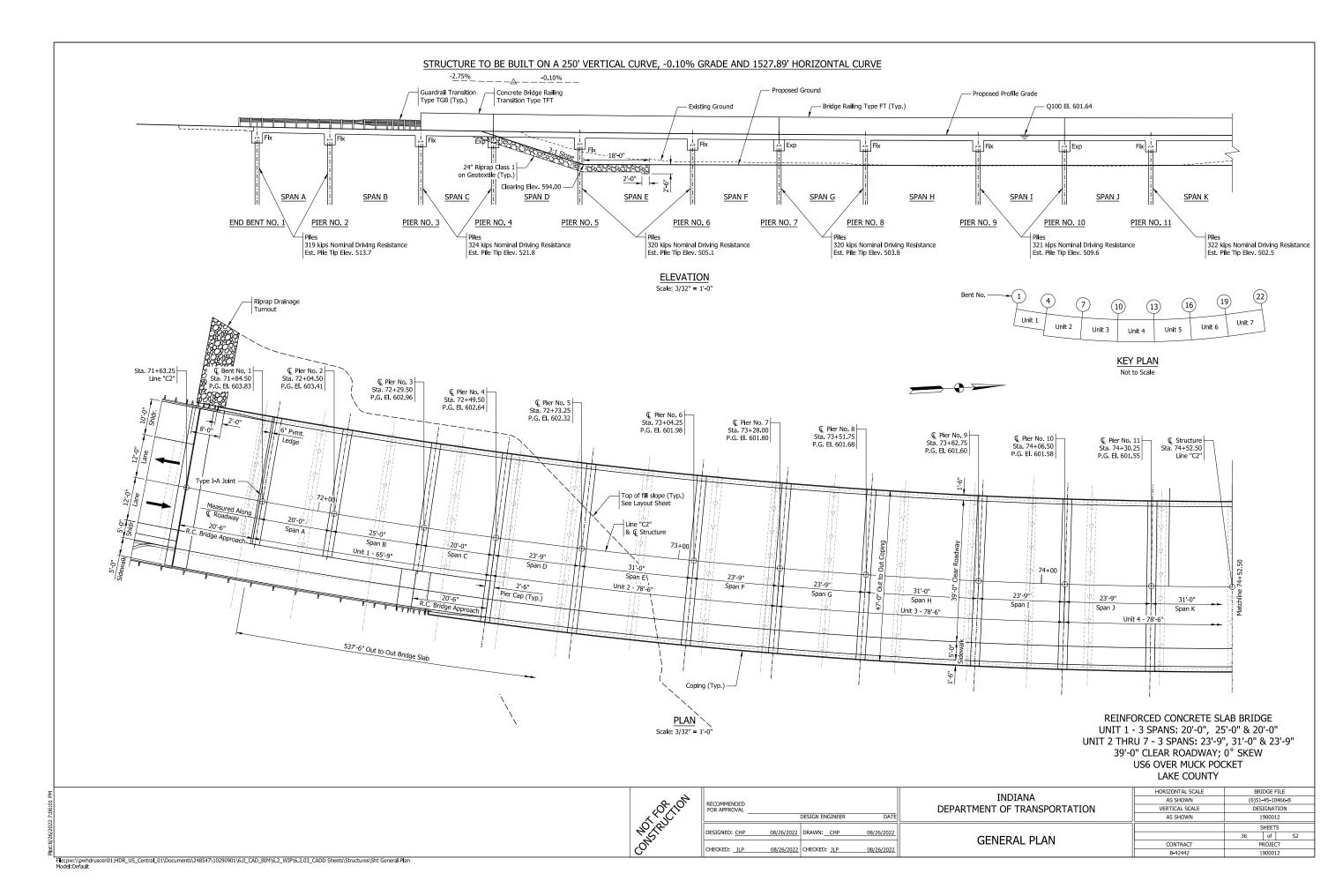
L File:pw:\\pwhdruscen01:HDR_US_Central_01\Documents\248547\10290901\6.0_CAD_BIM\6.2_WIP\6.2.03_CADD Sheets\Structures\Sht Boring Model:Default

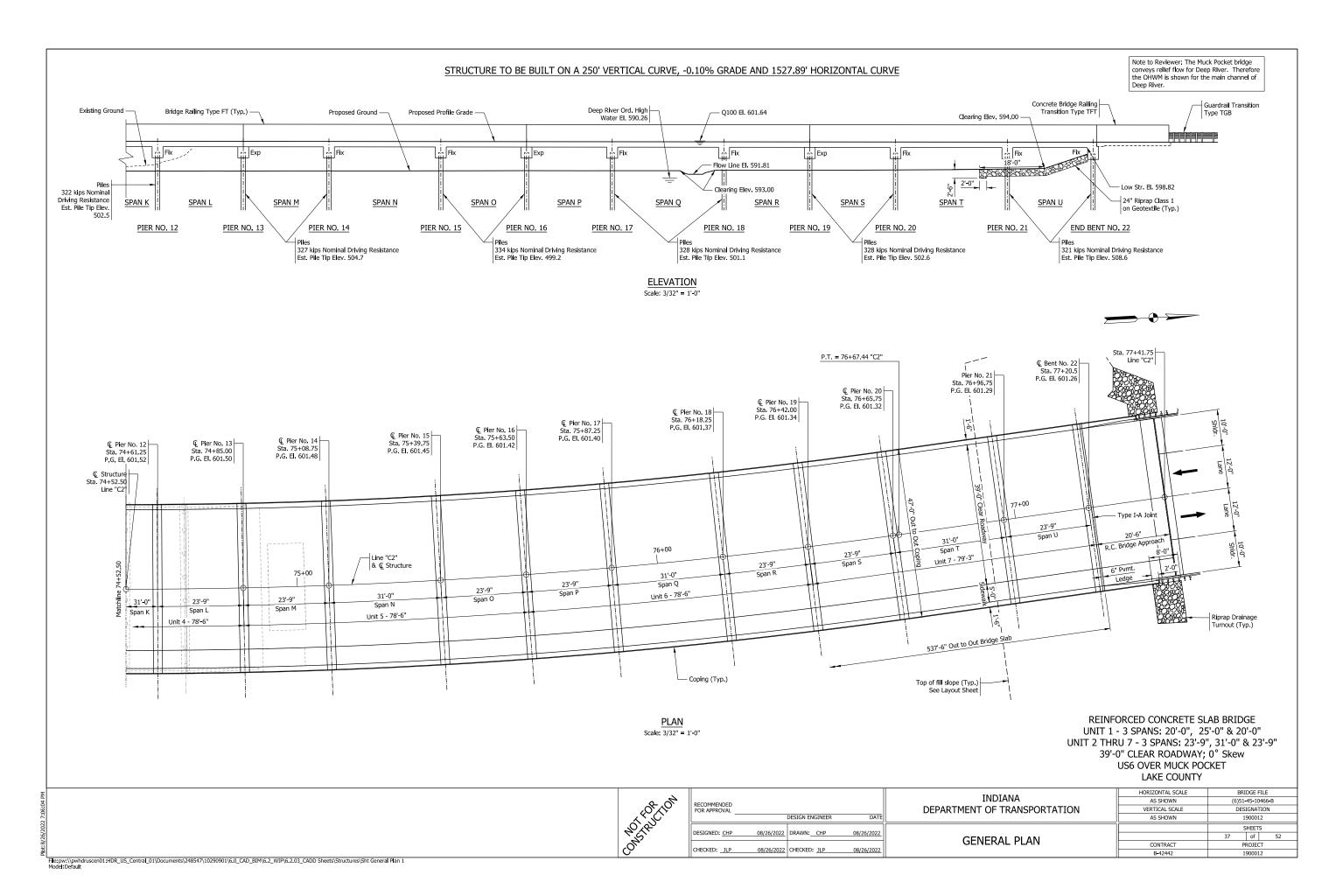
BRIDGE FILE
(6)51-45-10466-B
DESIGNATION
1900012

SHEETS

18 | of | 52
PROJECT
1900012







GENERAL NOTES

Reinforcing steel cover shall be $2\frac{1}{2}$ " in top and 1" minimum in bottom of floor slab, 3" in footings, except bottom steel which shall be 4", and 2" in all other parts, unless noted.

Surface seal all exposed surfaces of concrete railing. Surface seal to be paid as a lump sum item. Estimated quantity is 8,863 sft.

DESIGN DATA

LIVE LOAD

Superstructure and Substructure designed for HL-93 loading, in accordance with AASHTO LRFD Bridge Design Specifications, Ninth Edition, 2020.

DEAD LOAD

Actual weight plus 35 lb/ft² for future wearing surface

FLOOR SLAB

Designed with a 17½" structural depth plus ½" sacrificial wearing surface.

DESIGN STRESSES

CONCRETE

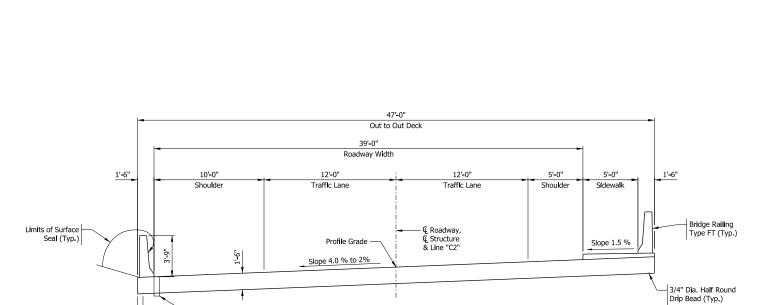
Class C f'c = 4,000 psi Class A f'c = 3,500 psi

REINFORCING STEEL

Grade 60 fy = 60,000 psi

SEISMIC DESIGN DATA

Seismic Performance Zone	Zone 1
Seismic Soil Profile Type	Class E
Modified PGA	0.098
S _{DS}	0,220
S _{D1}	0.130



TYPICAL SECTION

UNIT 1 Scale: ½" = 1'-0"

Out to Out Deck 34'-0" Roadway Wldth 12'-0"

Traffic Lane

Slope 4.0 %

Profile Grade

10'-0"

Shoulder

6" Dia. PVC Pipe

6" Dia. PVC Pipe at 6' Spacing

(Typ.)

at 6' Spacing

Limits of Surface Seal (Typ.)

Bridge Railing

Type FT (Typ.)

12'-0"

Traffic Lane

5'-0"

_Slope 1.5 %

- Subbase for PCCP - Subgrade Treatment, Type IC

- Geotextile for Pavement, Type 2B

Shoulder

TYPICAL SECTION

UNIT 2 THRU UNIT 7 Scale: $\frac{1}{4}$ " = 1'-0"

REINFORCED CONCRETE SLAB BRIDGE UNIT 1 - 3 SPANS: 20'-0", 25'-0" & 20'-0" UNIT 2 THRU 7 - 3 SPANS: 23'-9", 31'-0" & 23'-9" 39'-0" CLEAR ROADWAY, 0° Skew US6 OVER MUCK POCKET LAKE COUNTY

RECOMMENDED FOR APPROVAL	ı	DESIGN ENGINEER	DATE	
DESIGNED: CHP	08/26/2022	DRAWN: CHP	08/26/2022	
CHECKED: JLP	08/26/2022	CHECKED: JLP	08/26/2022	

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

- 1												
		38 of 52										
٦		S	HEET	S								
	AS SHOWN	1	90001	12								
	VERTICAL SCALE	DESIGNATION										
	AS SHOWN	(6)51-	45-10	0466 - B								
	HORIZONTAL SCALE	DKI	DGE I	-ILC								

L
File: pw:\\pwhdruscen01:HDR_US_CentraL01\Documents\248547\10290901\6.0_CAD_BIM\6.2_WIP\6.2.03_CADD Sheets\Structures\Sht Typical section Model:Default

											SUMI	MARY C	F BRIDG	E QUANT	TTIES													
			CONCRETE				REINF.	REINF. CONC.		CURCRARE	GEOTEXTILE	THREADED			PILES			FLOWABLE	TEDMINIAL	TEDNATALAL	CONC. BRIDGE	BRIDGE					GEOTEXTILE	eT .
	CLA:	SS C	CLASS A		SS B	CONCRETE	BARS,	BRIDGE	SUBBASE	SUBGRADE TREATMENT,	FOR	TIE BAR	PILE,	PILE, STEEL PIPE	TEST PILE,	DYNAMIC	TEST PILE,	BACKFILL,	TERMINAL JOINT,	TERMINAL JOINT,	RAILING	EXP.	LONGITUDINAL		, PCCP,	RIPRAP	LOD DIDDAD	5 SURFACE
ITEM	SUPERSTR	SUBSTR	SUBSTR	ABOVE	IN	RAILING CLASS C	EPOXY		FOR PCCP	TYPE IC	PAVEMENT,	ASSEMBLY	STEEL PIPE,	EPOXY COATED	DYNAMIC,	PILE LOAD	DYNAMIC,	NON-		TYPE PCCP	TRANSITION,	JOINT	GROOVING	COMMON	12 IN.	CLASS 1	TYPE 1A	SEAL**
				FTG.	FTG.		COATED	12 IN.			TYPE 2B				PRODUCTION	TEST	RESTRIKE	REMOVABLE			IFI	SS						
	CYS	CYS	CYS	CYS	CYS	CYS	LBS	SYS	CYS	SYS	SYS	EACH	LFT	LFT	LFT	EACH	EACH	CYS	LFT	LFT	CYS	LFT	SYS	CYS	SYS	TON	SYS	SFT
Superstructure	1,427.3						401,070					48										283	2,091					
		40.0					0.770																			071		
End Bent No. 1		13.8					3,772						352.6	47.4	98.0	1	1	9								871	876	
Pler No. 2 Pier No. 3		13.8 13.8					3,772 3,772						396.5 356.0	47.1 44.9														+
Pier No. 3 Pier No. 4		15.8	18.3				3,772					-	356.0 498.4	60.5			1	+		10	-	-	-	+	-	+	+	+
Pier No. 4		18.3	16.5				3,772						527.4	50.0	118.5	1	1			10							+	+
Pier No. 6		18.3					3,772						615.3	55.9	110.5	1	1								_		+	+
Pier No. 7		10.5	18.3				3,772						624.4	54.6													+	+
Pier No. 8		18.3	10.5				3,772						624.4	53.8														+
Pier No. 9		18.3					3,772						583.8	53.3														+
Pier No. 10		2010	18.3				3,772						583,8	53.1														+
Pier No. 11		18.3	20.0				3,772						543.0	45.3	118.1	1	1											+
Pier No. 12		18.3					3,772						633.5	52,7														1
Pier No. 13			18.3				3,772						618.1	52.5														
Pier No. 14		18.3					3,772						618.1	52.4														
Pier No. 15		18.3					3,772						562.8	44,8	117.3	1	1											
Pier No. 16			18.3				3,772						656.6	52.0														
Pier No. 17		18.3					3,772						643.3	51.8														
Pier No. 18		18.3					3,772						643.3	51.6														
Pier No. 19			18.3				3,772						542.4	44.1	112.8	1	1											
Pier No. 20		18.3					3,772						632.8	51.3														
Pier No. 21		18.3					3,772						590.8	51.1														
End Bent No. 22		18.3					3,772						544.0		113.0	1	1	11								339	345	
R.C. Bridge Approach (12") at End Bent No. 1							5,706	107	27	107	107								44				80					
D.C. D. Harris Arrange de (420) et Fred Breat No. 22							F 706	107	27	107	107								44				00					+
R.C. Bridge Approach (12") at End Bent No. 22							5,706	107	27	107	107								44				80					+
Concrete Bridge Railing, Type FT						122.9	43,780	-													4	-					+	8,863
Concrete bridge Railing, Type FT						122.9	45,/80														+ 4				_		+	0,863
PCCP, 12 IN.									19	74	74											+			74	_	+	+
r cor, 12 iiv.								<u> </u>	13	/ 7	'											+		 	 ' -	_	+	+
TOTALS	1.427.3	279.3	109.8			122,9	539,246	214	73	288	288	48	12,391.3	1,022.8	677.7	6	6	20	78	10	4		2,251		74	1.210	1,221	8,863

^{**} For information only. Estimated quantity paid for as Lump Sum

SOF FOLLOW

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: CHP	08/26/2022	DRAWN: CHP	08/26/2022
CHECKED: JLP	08/26/2022	CHECKED: JLP	08/26/2022

TAUDTANIA	HORIZONTAL SCALE	E	BRIDGE	FILE
INDIANA		(6)	51-45-1	0466
DEPARTMENT OF TRANSPORTATION	VERTICAL SCALE	D	ESIGNA	TIOI
			19000	12
			SHEET	TS
BRIDGE SUMMARY OF QUANTITIES		39	of	
DRIDGE SUMMART OF QUANTITIES	CONTRACT		PROJE	СТ

\[\] File: pw:\\pwhdruscen01:HDR_US_Central_01\Documents\248547\10290901\6.0_CAD_BIM\6.2_WIP\6.2.03_CADD Sheets\Structures\Sht Bridge SOQ.dgn Model:Default

	APPROACH SUMMARY TABLE																																		
LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)				BEYOND R/W	G	RADE		EXCAV	ATION	CP. 10 IN.	ACTION	-OR PCCP	IA, 1, 64, 9.5 mm	1A, 1, 64, ЫАТЕ,	A, 1, 64, ı mm	IA, 3, 70, 9.5 mm	MA, 3, 70, DIATE, mm	A, 3, 64,	ACE,	змер <u>т</u> ате,	IT, TYPE IA	: TREATMENT,	ED AGGREGATE,	ED AGGREGATE, SE	ED CRUSHED TE, 8	CRETE	E CURB AND TYPE B	CURB AND	E CURB AND MODIFIED	E CURB	: CENTER E D	APPROACHES,	APPROACHES,	APPROACHES
		WIDTH	LENGTH	RADII	DISTANCE	1% 2%	3%	4%	CUT	FILL	QC/QA-PC	D-I CONTR JOINT	SUBBASE	QC/QA-HM SURFACE,	QC/QA-HM INTERMED 19.0 mm	QC/QA-HM BASE, 25.0	QC/QA-HIM SURFACE,	QC/QA-HM INTERMED OG 19.0 m	QC/QA-HM, BASE, 19.0	HMA SURF TYPE A	HMA INTE	SUBGRADE	SUBGRADE TYPE IIIA	COMPACTE NO. 53	COMPACTE NO. 53 BA	COMPACTE	4 IN. CONG SIDEWALK	CONCRETE GUTTER, 1	CONCRETE	CONCRETE GUTTER, N	CONCRETE	CONCRETE CURB, TYP	PCCP FOR 6 IN.	PCCP FOR 9 IN.	HMA FOR
		(FT)	(FT)	(FT)	(FT)				(CYS)	(CYS)	(SYS)	(LFT)	(CYS)	(TON)	(TON)	(TON)	(TON)	(TON)	(TON)	(TON)	(TON)	(SYS)	(SYS)	(TON)	(TON)	(TON)	(SYS)	(LFT)	(LFT)	(LFT)	(LFT)	(LFT)	(SYS)	(SYS)	(SYS)
LINE "US-6"																																			
70+55.04 to 70+72.86	CONCRETE	17.33	10.4	24.55																													Х		
70+86.47 to 70+98.03	CONCRETE	11.4	16.85	19.11																													Х		
71+31.08 to 71+50.00	CONCRETE	11.6	14.45	27.08																													Х		
69+57.67 to 70+93.74	ASPHALT	18.77	74.53	91.00																															Х
77+48.64 to 78+10.26	ASPHALT	29.07	22.65	26.50																															Х
78+68.84 to 79+29.24	ASPHALT	28.59	13.59	16.00																															X
77+93.49 to 78+89.30	ASPHALT	95.74	61.5	28.66																															Х
	TOTALS																																		

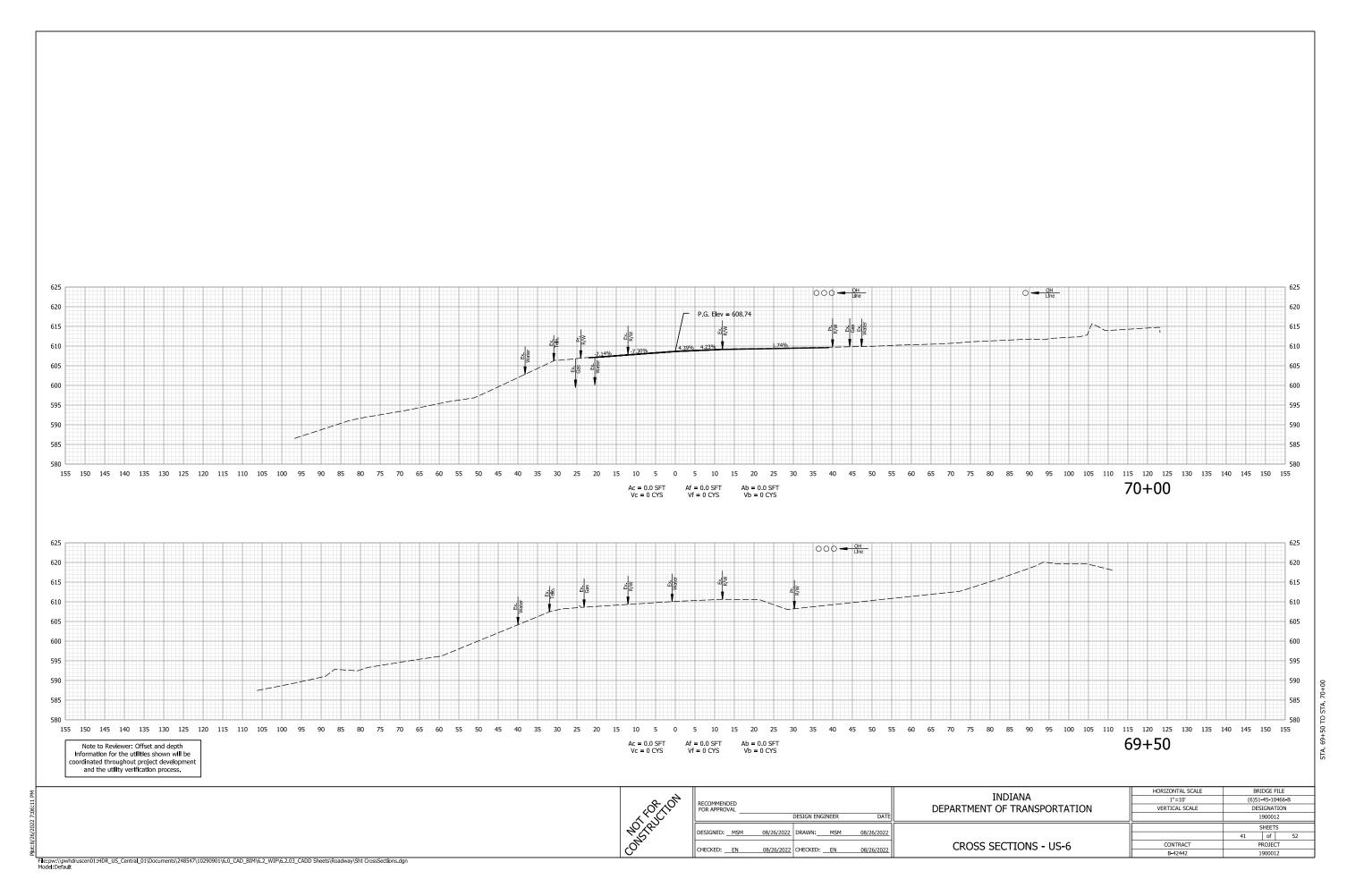
MONUMENT TABLE														
STATION	OFFSET		TYPE											
LOCATIONS	OFFSET	Α	В	С	D									
LINE "US-6"														
69+57.67			1											
80+30,86			1											

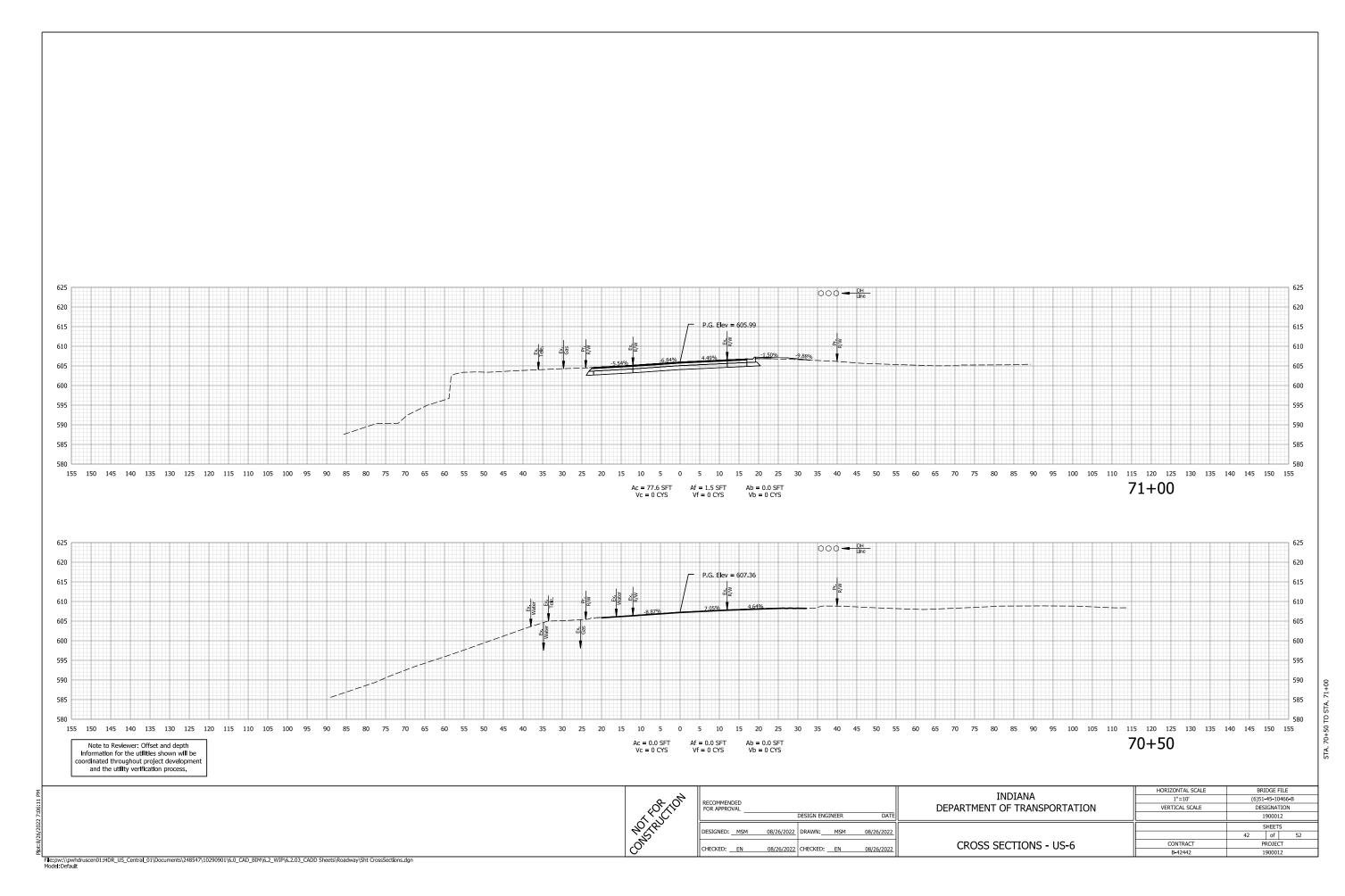
NOTE: TABLES WILL BE COMPLETED AT A LATER DATE

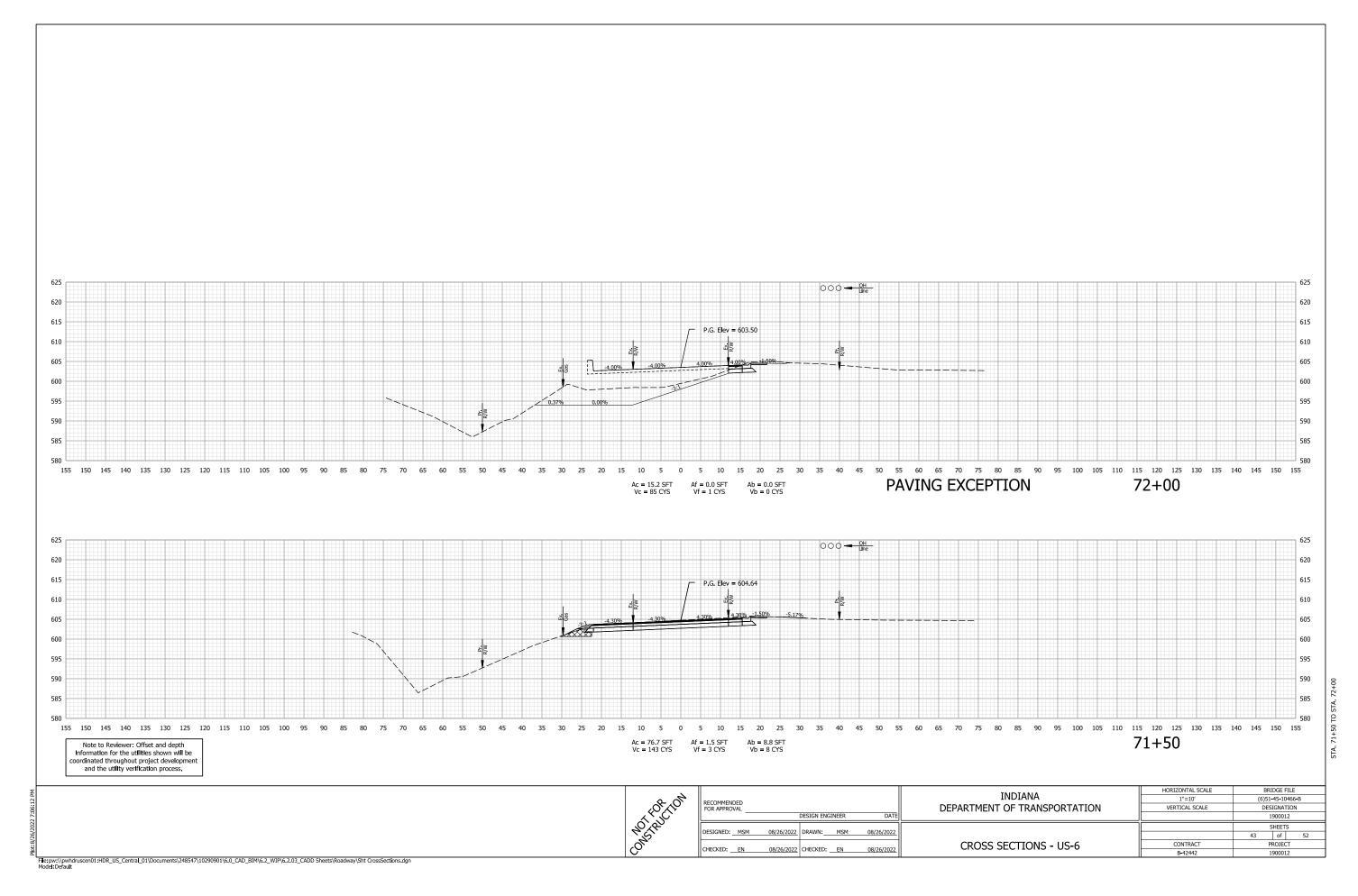
With the

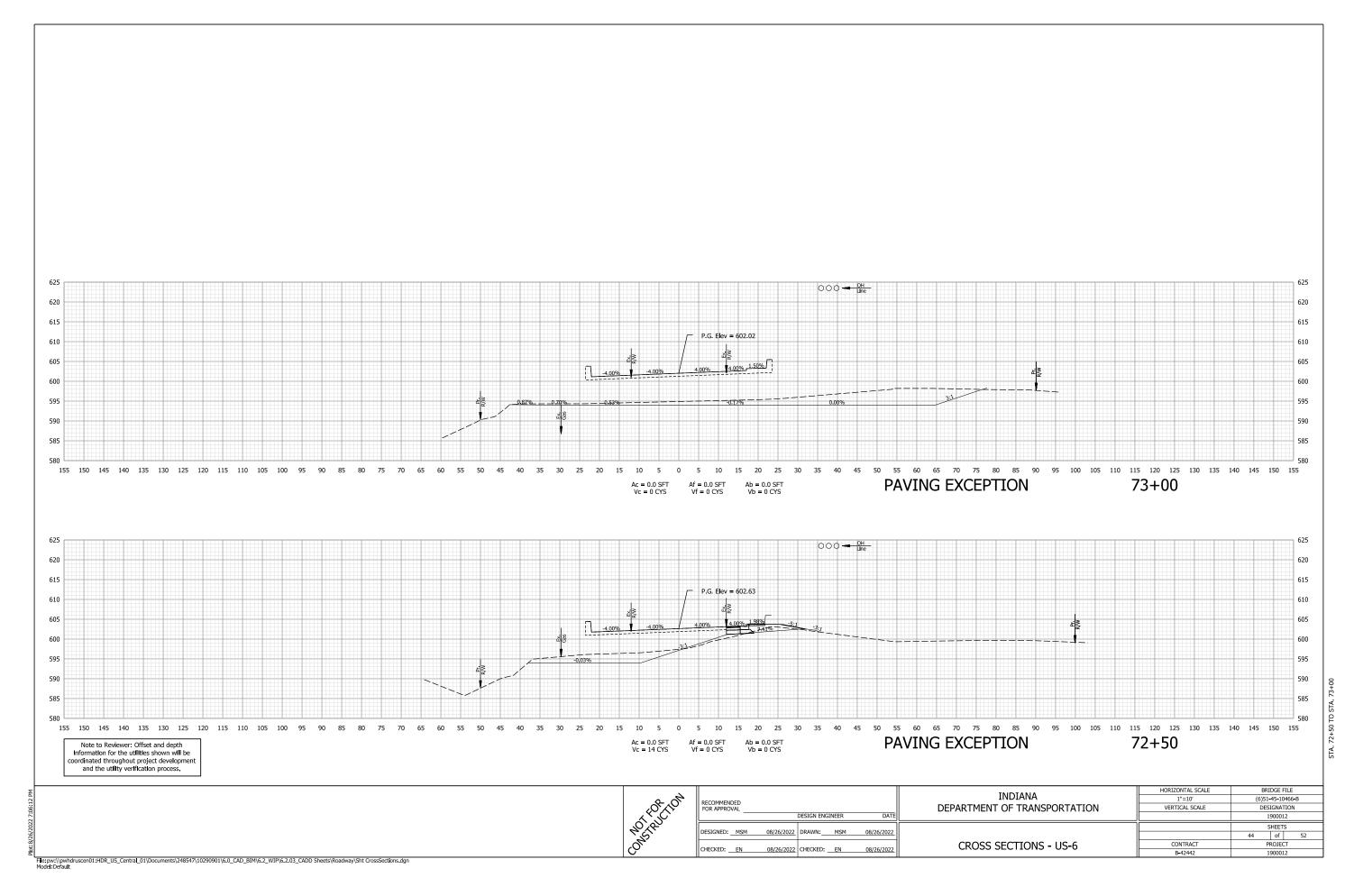
			TAUDTANIA	HORIZONTAL SCALE	BRIDGE FILE
RECOMMENDED			INDIANA		(6)51-45-10466-B
FOR APPROVAL			DEPARTMENT OF TRANSPORTATION	VERTICAL SCALE	DESIGNATION
	DESIGN ENGINEER			N/A	1900012
					SHEETS
DESIGNED: EN	08/26/2022 DRAWN: <u>CMD</u>	08/26/2022	SUMMARY OF QUANTITIES		40 of 52
CUECUED	an included a control of	00/06/0000		CONTRACT	PROJECT
CHECKED: JLP	08/26/2022 CHECKED: <u>JLP</u>	08/26/2022		R-42442	1900012

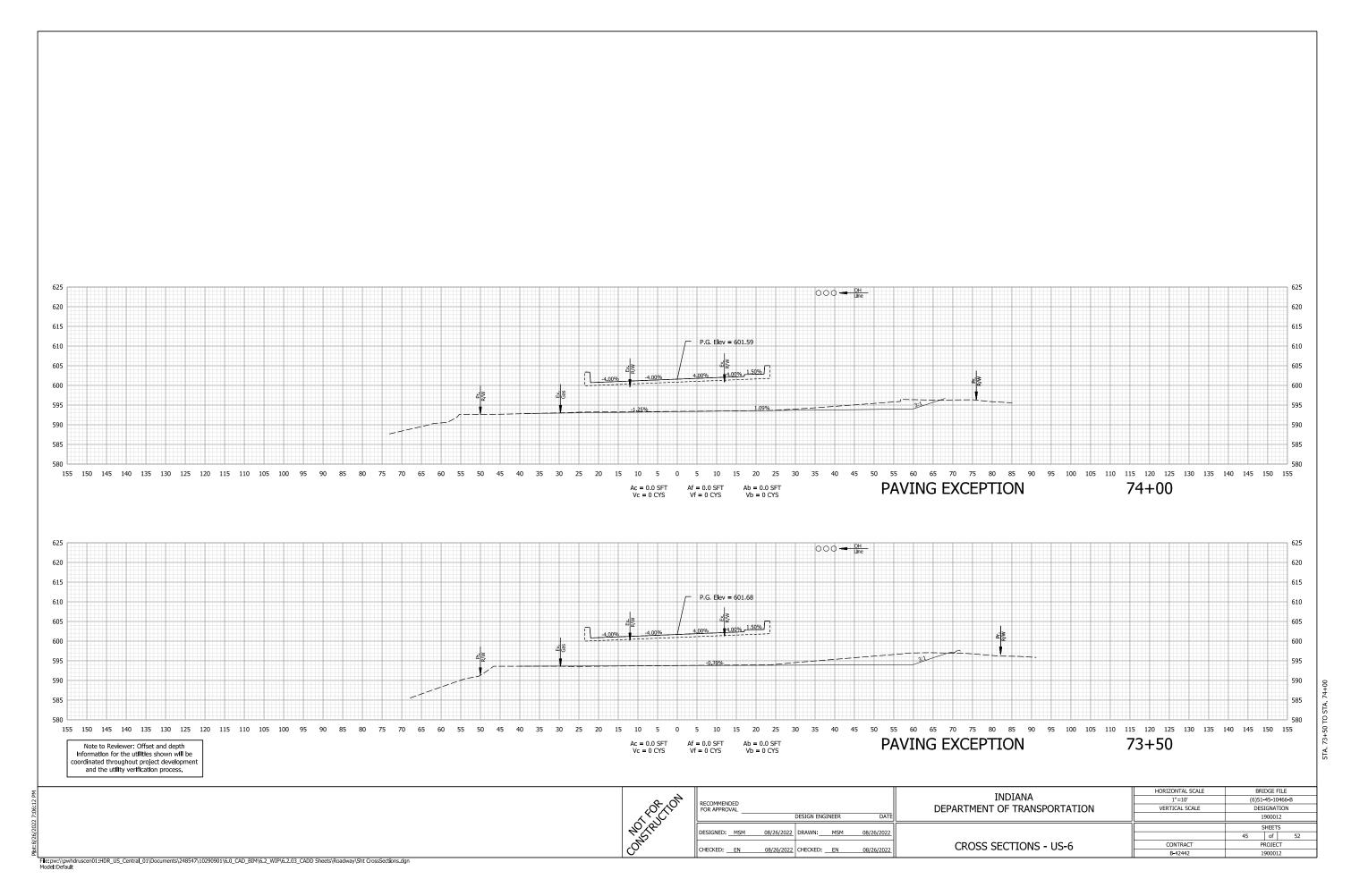
L File:pw:\pwhdruscen01:HDR_US_Central_01\Documents\248547\10290901\6.0_CAD_BIM\6.2_WIP\6.2.03_CADD Sheets\Roadway\Sht SOQ.dgn Model:Default

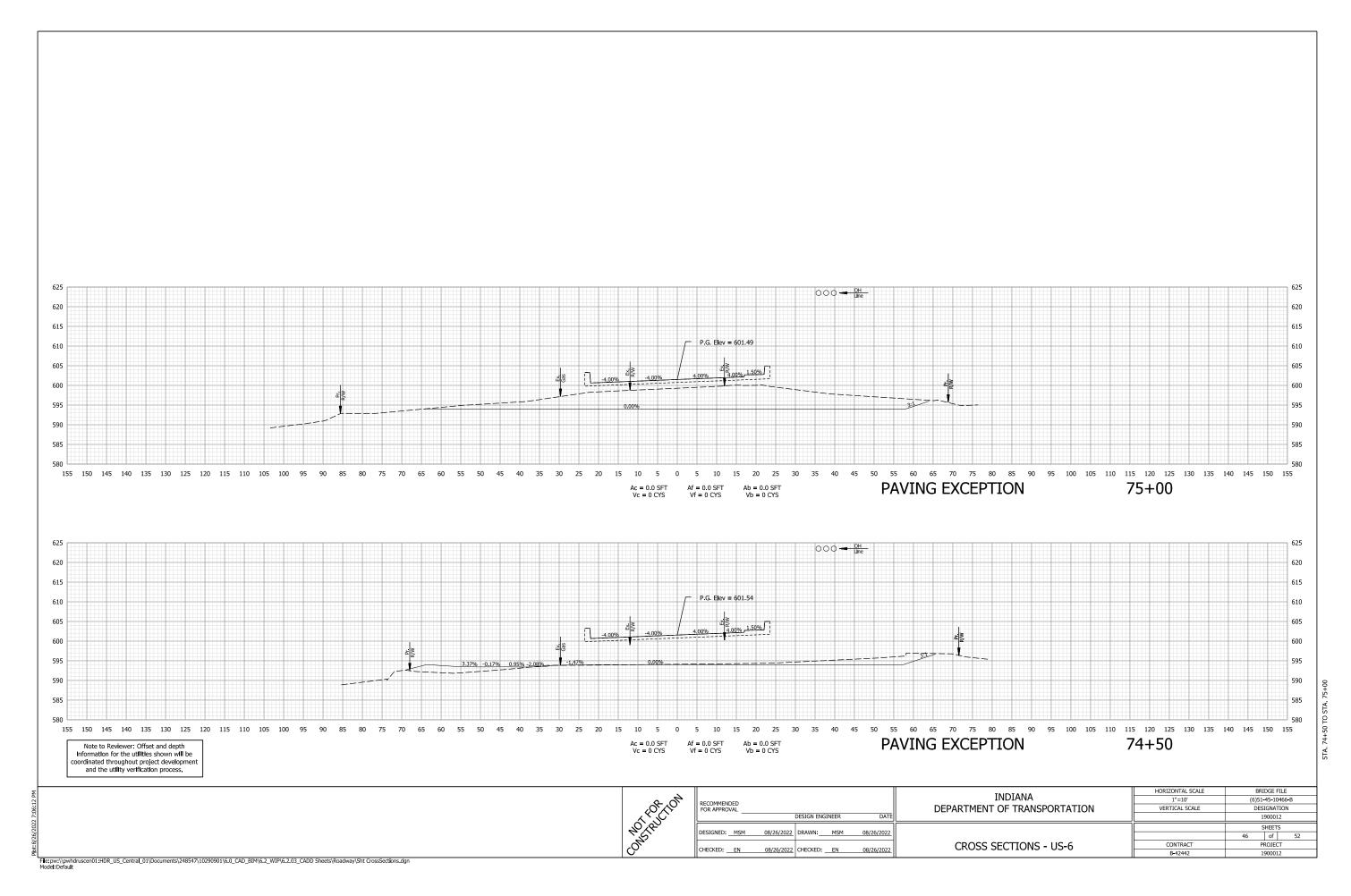


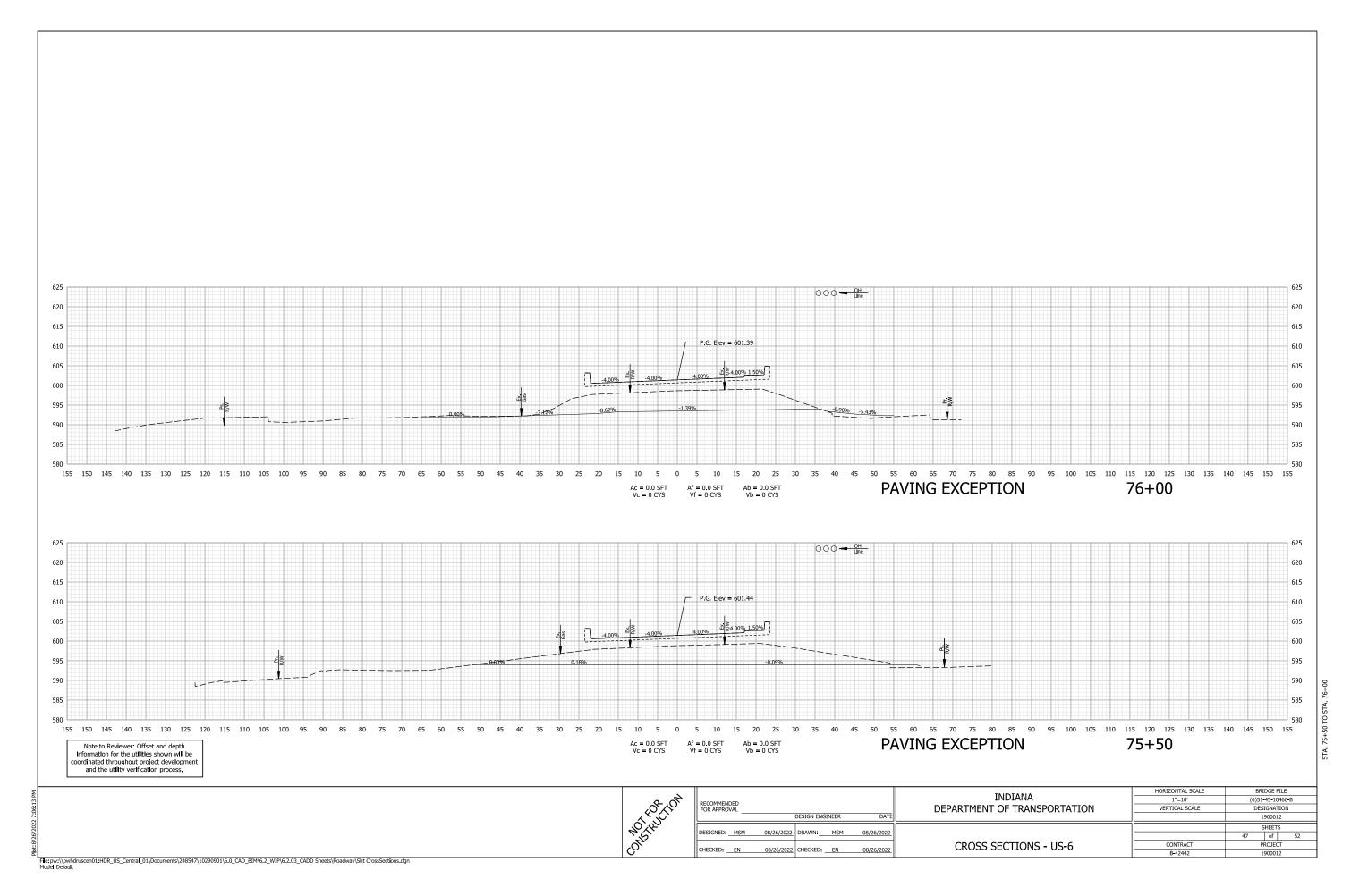


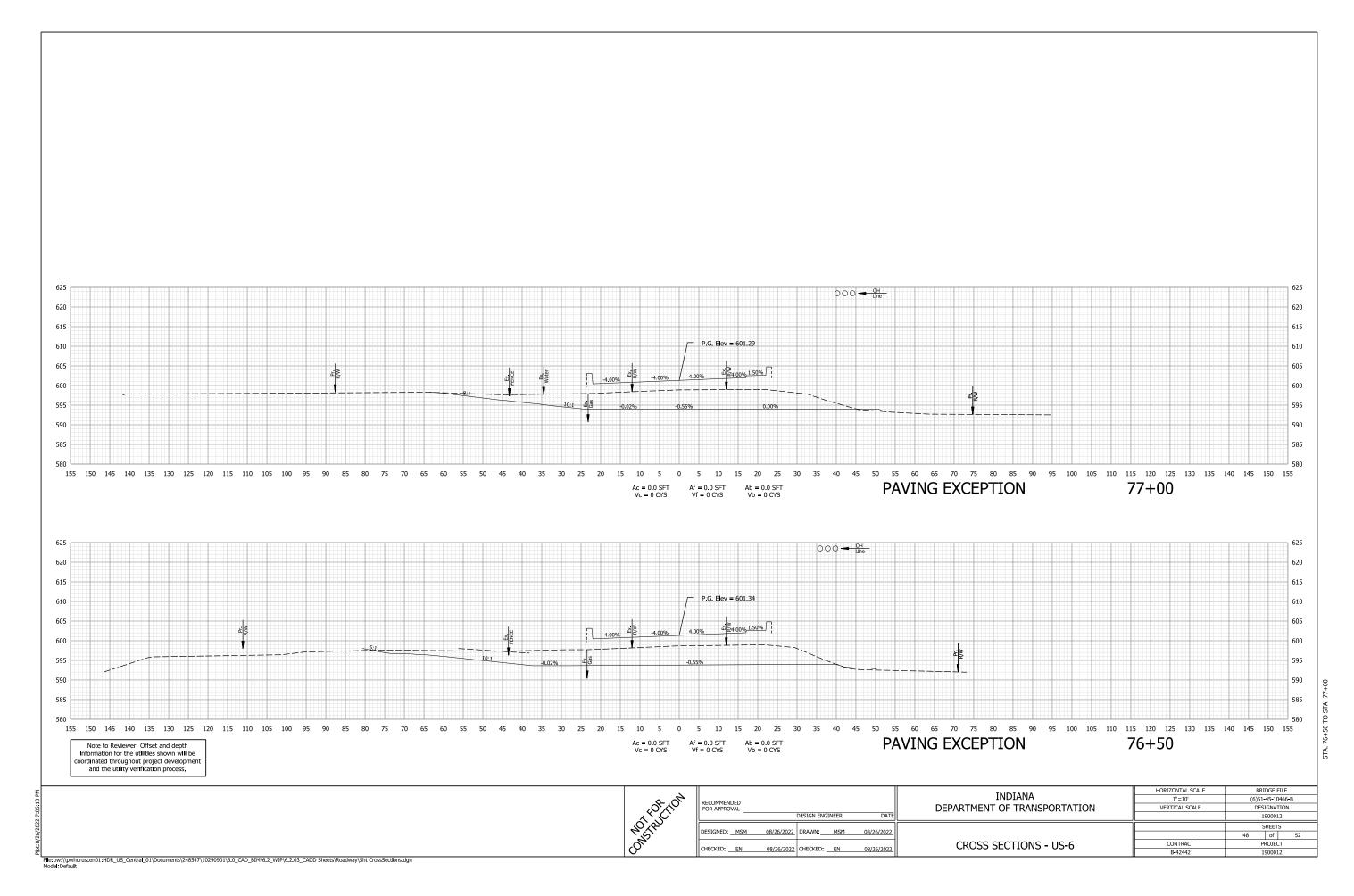


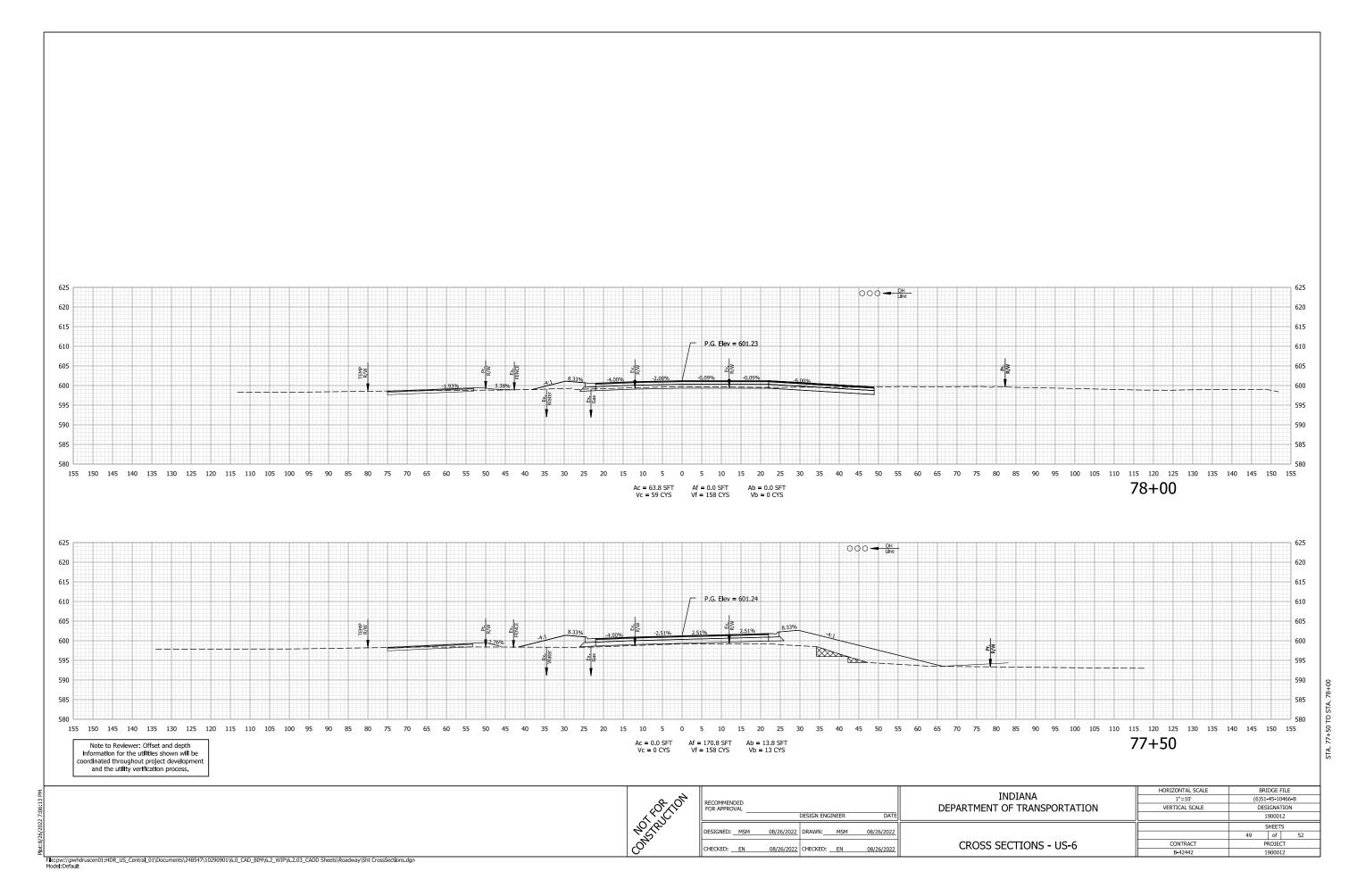


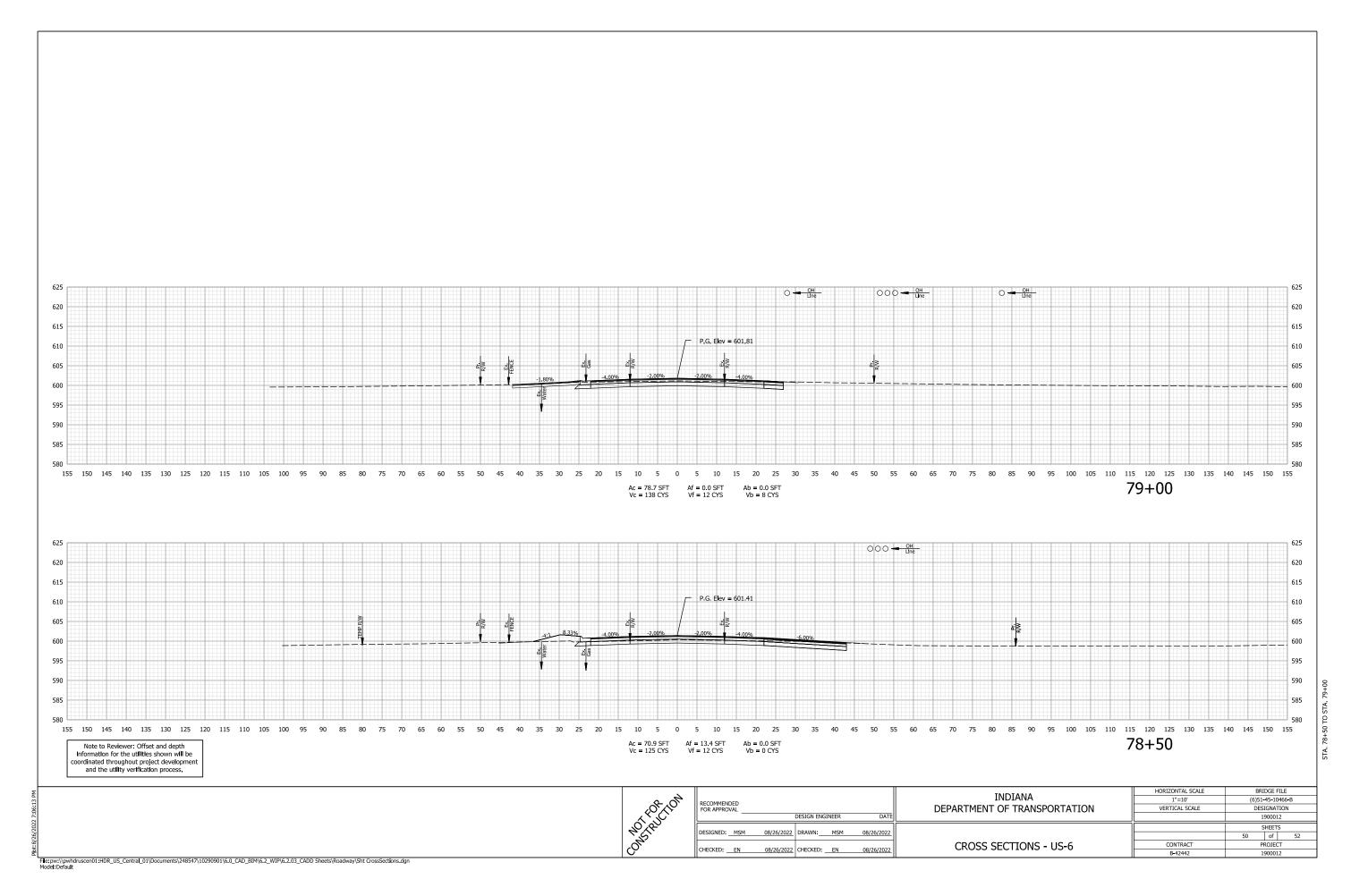


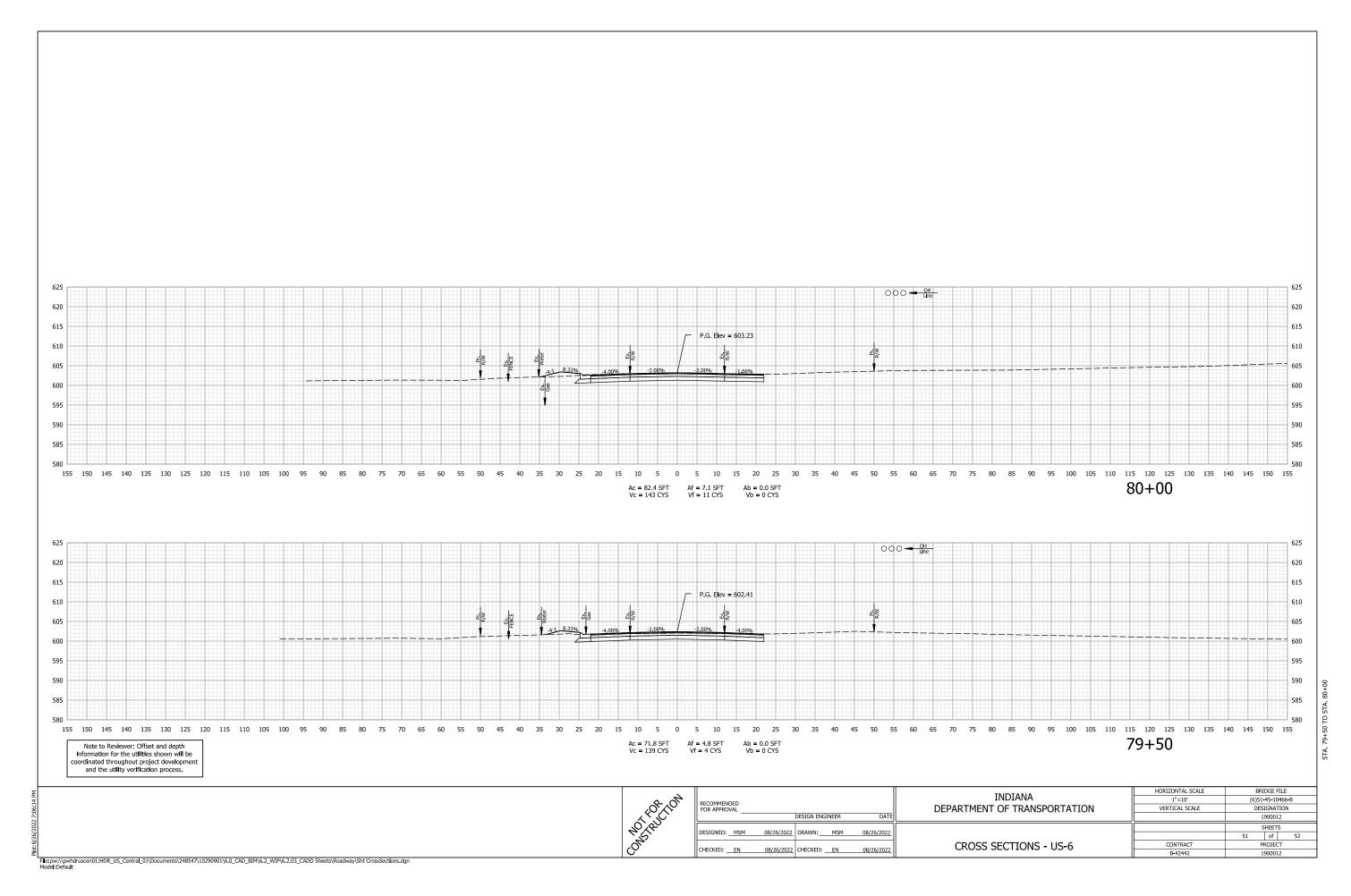


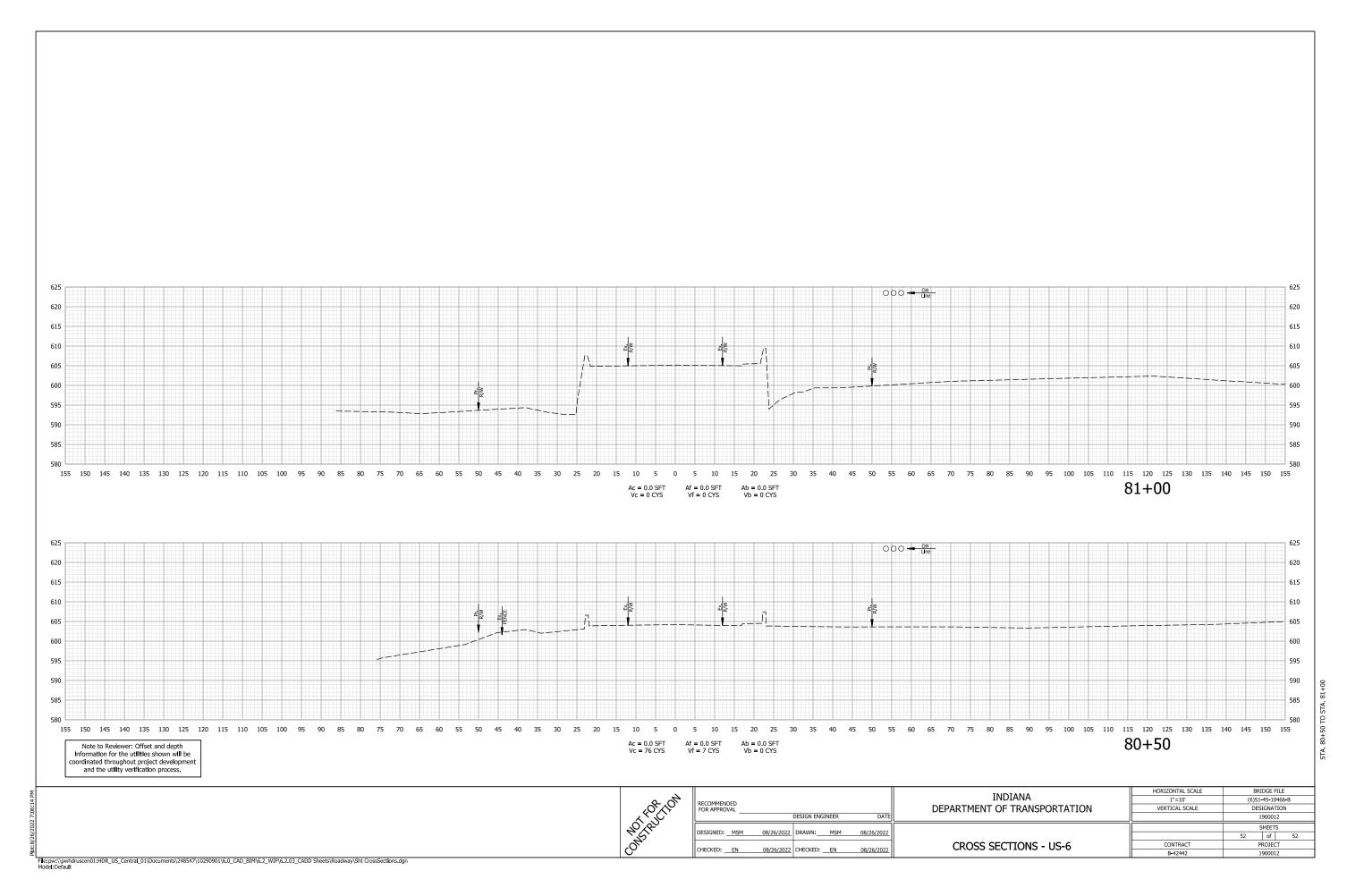














APPENDIX C

Early Coordination



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (317) 232-5113 FAX: (317) 233-4929 Eric Holcomb, Governor Joe McGuinness, Commissioner

April 13, 2021

Scott Mason Project Manager Indiana Department of Transportation 315 E. Boyd Blvd. 2nd Floor, Traffic Ops Bldg. LaPorte, IN 46350

Re: Early Coordination Letter, Des. No.: 1900012, Bridge Project at Muck Pocket on US 6/SR 51, 0.84 mile south of I-80/94, LaPorte District, Gary Subdistrict, Lake County, Indiana

Dear Indiana Department of Transportation,

The Indiana Department of Transportation (INDOT), with federal and state funding, intends to proceed with a project involving the aforementioned bridge project in Lake County. This letter is part of the early coordination phase of the environmental review process. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. **Please use the above designation number and description in your reply.** We will incorporate your comments into a study of the project's environmental impacts.

The project is located on US 6/SR 51, 0.84 mile south of I-80/94 over Muck Pocket in Lake County, Indiana. This section of US 6 is classified as an *Urban Principal Arterial — Other* and is part of the US National Highway System. The existing US 6 approach cross section consists of two 12 feet (ft.) travel lanes, 10 ft. (max) paved shoulders, and 10 ft. usable shoulders. The existing bridge is a 290 ft., 16 ft. spans with 19.7 ft. maximum length reinforced concrete slab on reinforced concrete piles. The bridge is located parallel and adjacent to Deep River and is located within the floodplain of Deep River over an area called Muck Pocket. The need (or deficiency) for this project is due to the existing structure having longitudinal cracking with delamination, spalling, and exposed reinforced steel. Local rain events have shown that the structure is hydraulically insufficient. The purpose of this project is to provide a long lasting structurally and hydraulically sufficient crossing of US 6 over Muck Pocket.

The proposed project is anticipated to replace the existing structure with a cast-in-place concrete slab superstructure on pile bent substructure units. The roadway profile is anticipated to be raised to provide improvements to the hydraulic performance. The raised profile will result in a longer proposed bridged, extending the proposed structure to the north of the existing bridge limits. Longer bridge spans will be provided to minimize the number of substructure units. The project is anticipated to also include new reinforced concrete bridge approaches, bridge railing, and guardrail. This proposed project is expected to require permanent and/or temporary right-of-way. The right-of-way needed is expected to exceed 0.5 acre.

www.in.gov/dot/ **An Equal Opportunity Employer** The maintenance of traffic is anticipated to require a full closure with a detour route of approximately 16 miles utilizing US 6, SR 149, and US 20, coordination will be ongoing throughout the early coordination process. Access to local businesses and residents shall be maintained. A local detour route will be coordinated with the City of Lake Station. The project is anticipated to begin construction in 2024.

Land use in the vicinity of the project is primarily urban with commercial properties at the north side of the project, riverine and bottomland adjacent to the bridge, and residential and park at the south side of the project. Hanson Professional Services will perform waters and wetlands determinations to identify water resources that may be present and coordinate the findings with the INDOT Ecology & Permitting Office. This project is anticipated to qualify for the Rangewide Programmatic Agreement for the Indiana bat and Northern Longeared bat by completing the Information for Planning and Consultation (IPaC). Coordination will occur with the INDOT Cultural Resources Office to evaluate the project area for archaeological and historical resources and for Section 106 compliance. The results of this investigation will be forwarded to the State Historic Preservation Officer for review and concurrence as appropriate.

Please provide your response within thirty (30) calendar days from the date of this letter. However, should you find that an extension to the response time is necessary, a reasonable amount may be granted upon request. If you have any questions regarding this matter, please feel free to contact Jason Rowley P.E, Senior Project Manager, Hanson Professional Services Inc., *jrowley@hanson-inc.com*, (317) 803-8960, or, Scott Mason, INDOT Project Manager, *smason@indot.in.gov*, (219) 325-7523. Thank you in advance for your input.

Sincerely,

Jason Rowley, P.E. Senior Project Manager

Hanson Professional Services Inc.

Attachments – Maps/Graphics (Location, Aerial, Topographic, Photographs) See Appendix B for attachments.

The following agencies received early coordination letters:

Kari Carmany-George Federal Highway Administration Federal Office Building, Room 254 575 North Pennsylvania Street Indianapolis, Indiana 46204 k.carmanygeorge@dot.gov	Indiana Department of Transportation Office of Aviation 100 N. Senate Avenue, Rm. 955 Indianapolis, IN 46204 JCourtade@indot.in.gov
Indiana Geological and Water Survey 611 North Walnut Grove Bloomington, IN 47405 https://igws.indiana.edu/eAssessment	Mr. Paul Leffler, Chief Environmental Resources Department of the Army Chicago District, Corps of Engineers 231 South LaSalle St. Suite 1500 Chicago, IL 60604 chicagorequests@usace.army.mil
Environmental Coordinator Indiana Department of Natural Resources Division of Fish and Wildlife 402 West Washington Street, Rm. W273 Indianapolis, IN 46204 environmentalreview@dnr.in.gov	Melanie Castillo Field Environmental Officer Chicago Regional Office US Department of Housing & Urban Development Metcalf Fed. Bldg. 77 W. Jackson Blvd. Room 2401 Chicago, IL 60604 Melanie.H.Castillo@hud.gov
Indiana Department of Environmental Management (Automatic website early coordination) https://www.in.gov/idem/5284.htm	Stewart Michels Environmental Section Manager (Supervisor) LaPorte District Indiana Department of Transportation 315 E. Boyd Blvd. Attn: CPM LaPorte, IN 46350 SMichels@indot.in.gov
Scott Mason Project Manager, LaPorte District Indiana Department of Transportation 315 E. Boyd Blvd. 2nd Floor, Traffic Ops Bldg. LaPorte, IN 46350 smason@indot.in.gov	Ty Warner Executive Director Northwestern Indiana Regional Planning Commission 6100 Southport Rd. Portage, IN 46368 twarner@nirpc.org
William Baker Chairman Little Calumet River Basin Development Commission 900 Ridge Rd. Suite H Munster, IN 46321 wbaker@lcrbdc.org	Duane Alverson Lake County Highway Department 110 East Monitor St. Crown Point, IN 46307 alverda@lakecountyin.org
Kyle W. Allen, Sr. Commissioner, 1st District Lake County Board of Commissioners Building "A", 3rd Floor 2293 N. Main Street Crown Point, IN 46307 allenkw@lakecountyin.org	Robert Walker Lake County Emergency Management 2900 W. 93rd Ave. Crown Point, IN 46307 bwalker@lakecountyin.org
Fred Williams City Council Member, 3rd District Lake Station City Council 1969 Central Ave. Lake Station, IN 46405 fwilliams@lakestation-in.gov	Linda Werner Lake Station Historical Society Inc. 2400 Central Ave Lake Station, IN 46405 linderlee7@aol.com

www.in.gov/dot/ **An Equal Opportunity Employer**

Bill Carroll Adrian Vera Mayor Director City of Lake Station Lake Station Parks and Recreation Department 1969 Central Ave. 2701 Ripley St. Lake Station, IN 46405 Lake Station, IN 46405 kim.frizzell@lakestation-in.gov avera@lakestation-in.gov Attn: Bill Carroll Bob Bronson Dr. Chandana Vavilala State and Community Outdoor Recreation Section **Health Officer** Indiana Department of Natural Resources – Division of Outdoor Lake County Health Department 2900W. 93rd Ave. Recreation 402 W. Washington St., Room 271 Crown Point, IN 46307 Indianapolis, IN 46204 vavilcx@lakecountyin.org bbronson@dnr.in.gov



Organization and Project Information

Project ID: 20H0008A Des. ID: 1900012

Project Title: US 6/SR 51 Bridge Project at Muck Pocket

Name of Organization: Hanson Professional Services Inc.

Requested by: Payton Fischer

Environmental Assessment Report

1. Geological Hazards:

- High liquefaction potential
- Floodway
- 2. Mineral Resources:
 - Bedrock Resource: High Potential
 - Sand and Gravel Resource: Low Potential
- 3. Active or abandoned mineral resources extraction sites:
 - None documented in the area

DISCLAIMER:

This document was compiled by Indiana University, Indiana Geological Survey, using data believed to be accurate; however, a degree of error is inherent in all data. This product is distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of these data and document to define the limits or jurisdiction of any federal, state, or local government. The data used to assemble this document are intended for use only at the published scale of the source data or smaller (see the metadata links below) and are for reference purposes only. They are not to be construed as a legal document or survey instrument. A detailed on-the-ground survey and historical analysis of a single site may differ from these data and this document.

This information was furnished by Indiana Geological Survey

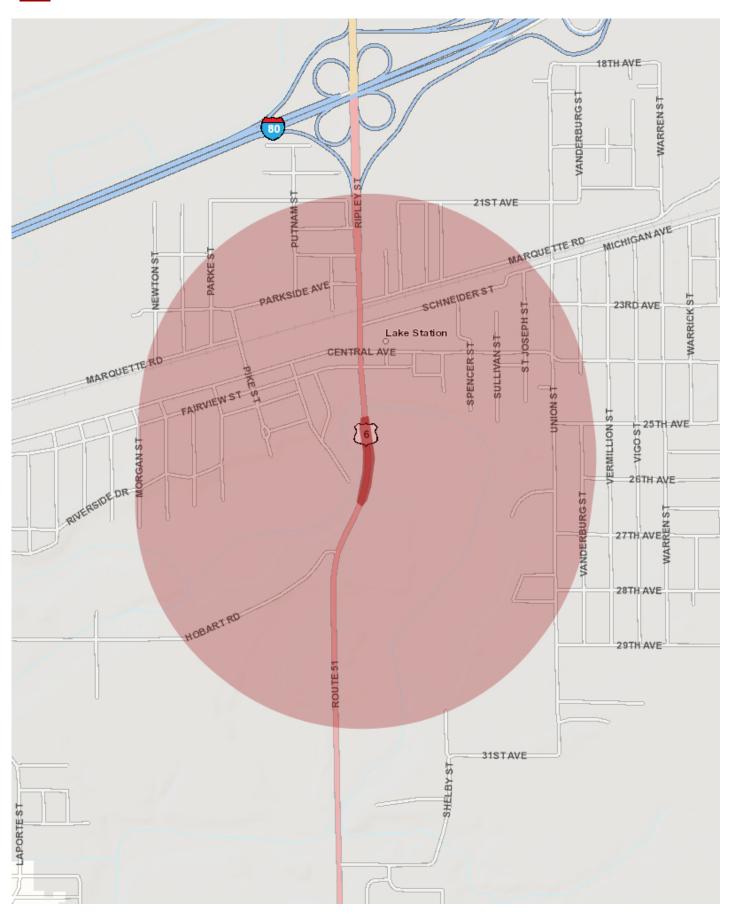
Address: 420 N. Walnut St., Bloomington, IN 47404

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428 Date: April 13, 2021

^{*}All map layers from Indiana Map (maps.indiana.edu)







Metadata:

- https://maps.indiana.edu/metadata/Geology/Seismic Earthquake Liquefaction Potential.html
- https://maps.indiana.edu/metadata/Geology/Industrial Minerals Sand Gravel Resources.html
- https://maps.indiana.edu/metadata/Hydrology/Floodplains_FIRM.html
- https://maps.indiana.edu/metadata/Geology/Bedrock Geology.html



Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

100 North Senate Avenue - Indianapolis, IN 46204 (800) 451-6027 - (317) 232-8603 - www.idem.IN.gov

INDOT - LaPorte District

315 E. Boyd Blvd. LaPorte , IN 46350 Hanson Professional Services Inc. Jason Rowley 6510 Telecom Dr. Suite 210 Indianapolis , IN 46278

Date

To Engineers and Consultants Proposing Roadway Construction Projects:

RE: The project is located on US 6, 0.84 mile east of SR 51/I-80/I-94 over Muck Pocket in Lake County, Indiana. This section of US 6 is classified as an Urban Principal Arterial - Other and is part of the US National Highway System. The existing US 6 approach cross section consists of two 12 feet (ft.) travel lanes, 10 ft. (max) paved shoulders, and 10 ft. usable shoulders. The existing bridge is a 290 ft., 16 ft. spans with 19.7 ft. maximum length reinforced concrete slab on reinforced concrete piles. The bridge is located parallel and adjacent to Deep River and is located within the floodplain of Deep River over an area called Muck Pocket. The need (or deficiency) for this project is due to the existing structure having longitudinal cracking with delamination, spalling, and exposed reinforced steel. Local rain events have shown that the structure is hydraulically insufficient. The purpose of this project is to provide a long lasting structurally and hydraulically sufficient crossing of US 6 over Muck Pocket. The proposed project is anticipated to replace the existing structure with a cast-in-place concrete slab superstructure on pile bent substructure units. The roadway profile is anticipated to be raised to provide improvements to the hydraulic performance. The raised profile will result in a longer proposed bridged, extending the proposed structure to the north of the existing bridge limits. Longer bridge spans will be provided to minimize the number of substructure units. The project is anticipated to also include new reinforced concrete bridge approaches, bridge railing, and guardrail. This proposed project is expected to require permanent and/or temporary right-of-way. The right-of-way needed is expected to exceed 0.5 acre. The maintenance of traffic is anticipated to require a full closure with a detour route of approximately 16 miles utilizing US 6, SR 149, and US 20, coordination will be ongoing throughout the early coordination process. Access to local businesses and residents shall be maintained. A local detour route will be coordinated with the City of Lake Station. The project is anticipated to begin construction in 2024.

This letter from the Indiana Department of Environmental Management (IDEM) serves as a standardized response to enquiries inviting IDEM comments on roadway construction, reconstruction, or other improvement projects within existing roadway corridors when the proposed scope of the project is beneath the threshold requiring a formal National Environmental Policy Act-mandated Environmental Assessment or Environmental Impact Statement. As the letter attempts to address all roadway-related environmental topics of potential concern, it is possible that not every topic addressed in the letter will be applicable to your particular roadway project.

For additional information on specific roadway-related topics of interest, please visit the appropriate Web pages cited below, many of which provide contact information for persons within the various program areas who can answer questions not fully addressed in this letter. Also please be mindful that some environmental requirements

may be subject to change and so each person intending to include a copy of this letter in their project documentation packet is advised to download the most recently revised version of the letter; found at: http://www.in.gov/idem/5283.htm (http://www.in.gov/idem/5283.htm).

To ensure that all environmentally-related issues are adequately addressed, IDEM recommends that you read this letter in its entirety, and consider each of the following issues as you move forward with the planning of your proposed roadway construction, reconstruction, or improvement project:

WATER AND BIOTIC QUALITY

1. Section 404 of the Clean Water Act requires that you obtain a permit from the U.S. Army Corps of Engineers (USACE) before discharging dredged or fill materials into any wetlands or other waters, such as rivers, lakes, streams, and ditches. Other activities regulated include the relocation, channelization, widening, or other such alteration of a stream, and the mechanical clearing (use of heavy construction equipment) of wetlands. Thus, as a project owner or sponsor, it is your responsibility to ensure that no wetlands are disturbed without the proper permit. Although you may initially refer to the U.S. Fish and Wildlife Service National Wetland Inventory maps as a means of identifying potential areas of concern, please be mindful that those maps do not depict jurisdictional wetlands regulated by the USACE or the Department of Environmental Management. A valid jurisdictional wetlands determination can only be made by the USACE, using the 1987 Wetland Delineation Manual.

USACE recommends that you have a consultant check to determine whether your project will abut, or lie within, a wetland area. To view a list of consultants that have requested to be included on a list posted by the USACE on their Web site, see USACE Permits and Public Notices (http://www.lrl.usace.army.mil/orf/default.asp) (http://www.lrl.usace.army.mil/orf/default.asp) (http://www.lrl.usace.army.mil/orf/default.asp)) and then click on "Information" from the menu on the right-hand side of that page. Their "Consultant List" is the fourth entry down on the "Information" page. Please note that the USACE posts all consultants that request to appear on the list, and that inclusion of any particular consultant on the list does not represent an endorsement of that consultant by the USACE, or by IDEM.

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Elkhart, LaGrange, Steuben, and Dekalb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is served by the USACE District Office in Detroit (313-226-6812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciosko, and Wells counties; smaller portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and all other Indiana counties located in north-central, central, and southern Indiana) are served by the USACE Louisville District Office (502-315-6733).

Additional information on contacting these U.S. Army Corps of Engineers (USACE) District Offices, government agencies with jurisdiction over wetlands, and other water quality issues, can be found at http://www.in.gov/idem/4396.htm (http://www.in.gov/idem/4396.htm). IDEM recommends that impacts to wetlands and other water resources be avoided to the fullest extent.

- 2. In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality Wetlands Program. To learn more about the Wetlands Program, visit: http://www.in.gov/idem/4384.htm (http://www.in.gov/idem/4384.htm).
- 3. If the USACE determines that a wetland or other water body is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana. A State Isolated Wetland permit from IDEM's Office of Water Quality (OWQ) is required for any activity that results in the discharge of dredged or fill materials into

isolated wetlands. To learn more about isolated wetlands, contact the OWQ Wetlands Program at 317-233-8488.

- 4. If your project will involve over a 0.5 acre of wetland impact, stream relocation, or other large-scale alterations to water bodies such as the creation of a dam or a water diversion, you should seek additional input from the OWQ Wetlands Program staff. Consult the Web at: http://www.in.gov/idem/4384.htm (http://www.in.gov/idem/4384.htm) for the appropriate staff contact to further discuss your project.
- 5. Work within the one-hundred year floodway of a given water body is regulated by the Department of Natural Resources, Division of Water. The Division issues permits for activities regulated under the follow statutes:
 - IC 14-26-2 Lakes Preservation Act 312 IAC 11
 - IC 14-26-5 Lowering of Ten Acre Lakes Act No related code
 - IC 14-28-1 Flood Control Act 310 IAC 6-1
 - IC 14-29-1 Navigable Waterways Act 312 IAC 6
 - IC 14-29-3 Sand and Gravel Permits Act 312 IAC 6
 - IC 14-29-4 Construction of Channels Act No related code

For information on these Indiana (statutory) Code and Indiana Administrative Code citations, see the DNR Web site at: http://www.in.gov/dnr/water/9451.htm (http://www.in.gov/dnr/water/9451.htm) . Contact the DNR Division of Water at 317-232-4160 for further information.

The physical disturbance of the stream and riparian vegetation, especially large trees overhanging any affected water bodies should be limited to only that which is absolutely necessary to complete the project. The shade provided by the large overhanging trees helps maintain proper stream temperatures and dissolved oxygen for aquatic life.

- 6. For projects involving construction activity (which includes clearing, grading, excavation and other land disturbing activities) that result in the disturbance of one (1), or more, acres of total land area, contact the Office of Water Quality Watershed Planning Branch (317/233-1864) regarding the need for of a Rule 5 Storm Water Runoff Permit. Visit the following Web page
 - http://www.in.gov/idem/4902.htm (http://www.in.gov/idem/4902.htm)

To obtain, and operate under, a Rule 5 permit you will first need to develop a Construction Plan (http://www.in.gov/idem/4917.htm#constreq (http://www.in.gov/idem/4917.htm#constreq)), and as described in 327 IAC 15-5-6.5 (http://www.in.gov/legislative/iac/T03270/A00150 [PDF] (http://www.in.gov/legislative/iac/T03270/A00150.PDF), pages 16 through 19). Before you may apply for a Rule 5 Permit, or begin construction, you must submit your Construction Plan to your county Soil and Water Conservation District (SWCD) (http://www.in.gov/isda/soil/contacts/map.html (http://www.in.gov/isda/soil/contacts/map.html)).

Upon receipt of the construction plan, personnel of the SWCD or the Indiana Department of Environmental Management will review the plan to determine if it meets the requirements of 327 IAC 15-5. Plans that are deemed deficient will require re-submittal. If the plan is sufficient you will be notified and instructed to submit the verification to IDEM as part of the Rule 5 Notice of Intent (NOI) submittal. Once construction begins, staff of the SWCD or Indiana Department of Environmental Management will perform inspections of activities at the site for compliance with the regulation.

Please be mindful that approximately 149 Municipal Separate Storm Sewer System (MS4) areas are now being established by various local governmental entities throughout the state as part of the implementation of Phase II federal storm water requirements. All of these MS4 areas will eventually take responsibility for Construction Plan review, inspection, and enforcement. As these MS4 areas obtain program approval from

IDEM, they will be added to a list of MS4 areas posted on the IDEM Website at: http://www.in.gov/idem/4900.htm (http://www.in.gov/idem/4900.htm).

If your project is located in an IDEM-approved MS4 area, please contact the local MS4 program about meeting their storm water requirements. Once the MS4 approves the plan, the NOI can be submitted to IDEM.

Regardless of the size of your project, or which agency you work with to meet storm water requirements, IDEM recommends that appropriate structures and techniques be utilized both during the construction phase, and after completion of the project, to minimize the impacts associated with storm water runoff. The use of appropriate planning and site development and appropriate storm water quality measures are recommended to prevent soil from leaving the construction site during active land disturbance and for post construction water quality concerns. Information and assistance regarding storm water related to construction activities are available from the Soil and Water Conservation District (SWCD) offices in each county or from IDEM.

- 7. For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources Division of Fish and Wildlife (317/232-4080) for addition project input.
- 8. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality Drinking Water Branch (317-308-3299) regarding the need for permits.
- 9. For projects involving effluent discharges to waters of the State of Indiana, contact the Office of Water Quality Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.
- For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality - Permits Branch (317-232-8675) regarding the need for permits.

AIR QUALITY

The above-noted project should be designed to minimize any impact on ambient air quality in, or near, the project area. The project must comply with all federal and state air pollution regulations. Consideration should be given to the following:

1. Regarding open burning, and disposing of organic debris generated by land clearing activities; some types of open burning are allowed (http://www.in.gov/idem/4148.htm (http://www.in.gov/idem/4148.htm)) under specific conditions. You also can seek an open burning variance from IDEM.

However, IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on site (you must register with IDEM if more than 2,000 pounds is to be composted; contact 317/232-0066). The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as leaves, twigs, branches, limbs, tree trunks and stumps) onsite, although burying large quantities of such material can lead to subsidence problems, later on.

Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. For example, wetting the area with water, constructing wind barriers, or treating dusty areas with chemical stabilizers (such as calcium chloride or several other commercial products). Dirt tracked onto paved roads from unpaved areas should be minimized.

Additionally, if construction or demolition is conducted in a wooded area where blackbirds have roosted or abandoned buildings or building sections in which pigeons or bats have roosted for 3-5 years precautionary measures should be taken to avoid an outbreak of histoplasmosis. This disease is caused by the fungus Histoplasma capsulatum, which stems from bird or bat droppings that have accumulated in one area for 3-5 years. The spores from this fungus become airborne when the area is disturbed and can cause infections over an entire community downwind of the site. The area should be wetted down prior to cleanup or demolition of the project site. For more detailed information on histoplasmosis prevention and control, please contact the Acute Disease Control Division of the Indiana State Department of Health at (317) 233-7272.

2. The U.S. EPA and the Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. (For a county-by-county map of predicted radon levels in Indiana, visit: http://www.in.gov/idem/4145.htm (http://www.in.gov/idem/4145.htm).)

The U.S. EPA further recommends that all homes (and apartments within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L, or higher, EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L, or higher, EPA recommends the installation of radon-reduction measures. (For a list of qualified radon testers and radon mitigation (or reduction) specialists visit: http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf (http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf).) It also is recommended that radon reduction measures be built into all new homes, particularly in areas like Indiana that have moderate to high predicted radon levels.

To learn more about radon, radon risks, and ways to reduce exposure visit: http://www.in.gov/isdh/regsvcs/radhealth/radon.htm (http://www.in.gov/isdh/regsvcs/radhealth/radon.htm), http://www.in.gov/idem/4145.htm (http://www.in.gov/idem/4145.htm), or http://www.epa.gov/radon/index.html (http://www.epa.gov/radon/index.html).

3. With respect to asbestos removal: all facilities slated for renovation or demolition (except residential buildings that have (4) four or fewer dwelling units and which will not be used for commercial purposes) must be inspected by an Indiana-licensed asbestos inspector prior to the commencement of any renovation or demolition activities. If regulated asbestos-containing material (RACM) that may become airborne is found, any subsequent demolition, renovation, or asbestos removal activities must be performed in accordance with the proper notification and emission control requirements.

If no asbestos is found where a renovation activity will occur, or if the renovation involves removal of less than 260 linear feet of RACM off of pipes, less than 160 square feet of RACM off of other facility components, or less than 35 cubic feet of RACM off of all facility components, the owner or operator of the project does not need to notify IDEM before beginning the renovation activity.

For questions on asbestos demolition and renovation activities, you can also call IDEM's Lead/Asbestos section at 1-888-574-8150.

However, in all cases where a demolition activity will occur (even if no asbestos is found), the owner or operator must still notify IDEM 10 working days prior to the demolition, using the form found at http://www.in.gov/icpr/webfile/formsdiv/44593.pdf (http://www.in.gov/icpr/webfile/formsdiv/44593.pdf).

Anyone submitting a renovation/demolition notification form will be billed a notification fee based upon the amount of friable asbestos containing material to be removed or demolished. Projects that involve the removal of more than 2,600 linear feet of friable asbestos containing materials on pipes, or 1,600 square feet or 400 cubic feet of friable asbestos containing material on other facility components, will be billed a fee

of \$150 per project; projects below these amounts will be billed a fee of \$50 per project. All notification remitters will be billed on a quarterly basis.

For more information about IDEM policy regarding asbestos removal and disposal, visit: http://www.in.gov/idem/4983.htm (http://www.in.gov/idem/4983.htm).

- 4. With respect to lead-based paint removal: IDEM encourages all efforts to minimize human exposure to lead-based paint chips and dust. IDEM is particularly concerned that young children exposed to lead can suffer from learning disabilities. Although lead-based paint abatement efforts are not mandatory, any abatement that is conducted within housing built before January 1, 1978, or a child-occupied facility is required to comply with all lead-based paint work practice standards, licensing and notification requirements. For more information about lead-based paint removal visit: http://www.in.gov/isdh/19131.htm (http://www.in.gov/isdh/19131.htm).
- 5. Ensure that asphalt paving plants are permitted and operate properly. The use of cutback asphalt, or asphalt emulsion containing more than seven percent (7%) oil distillate, is prohibited during the months April through October. See 326 IAC 8-5-2, Asphalt Paving Rule (http://www.ai.org/legislative/iac/T03260/A00080.PDF (http://www.ai.org/legislative/iac/T03260/A00080.PDF)).
- 6. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 (View at: www.ai.org/legislative/iac/t03260/a00020.pdf (http://www.ai.org/legislative/iac/t03260/a00020.pdf).) New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.
- 7. For more information on air permits visit: http://www.in.gov/idem/4223.htm (http://www.in.gov/idem/4223.htm), or to initiate the IDEM air permitting process, please contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or OAMPROD atdem.state.in.us.

LAND QUALITY

In order to maintain compliance with all applicable laws regarding contamination and/or proper waste disposal, IDEM recommends that:

- 1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ)at 317-308-3103.
- 2. All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more information, visit http://www.in.gov/idem/4998.htm (http://www.in.gov/idem/4998.htm).
- 3. If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal procedures.
- 4. If PCBs are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.
- 5. If there are any asbestos disposal issues related to this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbestos wastes (Asbestos removal is addressed above, under Air Quality).

6. If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317/308-3039. See: http://www.in.gov/idem/4999.htm (http://www.in.gov/idem/4999.htm).

FINAL REMARKS

Should you need to obtain any environmental permits in association with this proposed project, please be mindful that IC 13-15-8 requires that you notify all adjoining property owners and/or occupants within ten days your submittal of each permit application. However, if you are seeking multiple permits, you can still meet the notification requirement with a single notice if all required permit applications are submitted with the same ten day period.

Should the scope of the proposed project be expanded to the extent that a National Environmental Policy Act Environmental Assessment (EA) or Environmental Impact Statement (EIS) is required, IDEM will actively participate in any early interagency coordination review of the project.

Meanwhile, please note that this letter does not constitute a permit, license, endorsement or any other form of approval on the part of the Indiana Department of Environmental Management regarding any project for which a copy of this letter is used. Also note that is it the responsibility of the project engineer or consultant using this letter to ensure that the most current draft of this document, which is located at http://www.in.gov/idem/5284.htm (http://www.in.gov/idem/5284.htm), is used.

Signature(s) of the Applicant

I acknowledge that the following proposed roadway project will be financed in part, or in whole, by public monies.

Project Description

The project is located on US 6, 0.84 mile east of SR 51/I-80/I-94 over Muck Pocket in Lake County, Indiana. This section of US 6 is classified as an Urban Principal Arterial – Other and is part of the US National Highway System. The existing US 6 approach cross section consists of two 12 feet (ft.) travel lanes, 10 ft. (max) paved shoulders, and 10 ft. usable shoulders. The existing bridge is a 290 ft., 16 ft. spans with 19.7 ft. maximum length reinforced concrete slab on reinforced concrete piles. The bridge is located parallel and adjacent to Deep River and is located within the floodplain of Deep River over an area called Muck Pocket. The need (or deficiency) for this project is due to the existing structure having longitudinal cracking with delamination, spalling, and exposed reinforced steel. Local rain events have shown that the structure is hydraulically insufficient. The purpose of this project is to provide a long lasting structurally and hydraulically sufficient crossing of US 6 over Muck Pocket. The proposed project is anticipated to replace the existing structure with a cast-in-place concrete slab superstructure on pile bent substructure units. The roadway profile is anticipated to be raised to provide improvements to the hydraulic performance. The raised profile will result in a longer proposed bridged, extending the proposed structure to the north of the existing bridge limits. Longer bridge spans will be provided to minimize the number of substructure units. The project is anticipated to also include new reinforced concrete bridge approaches, bridge railing, and guardrail. This proposed project is expected to require permanent and/or temporary right-of-way. The right-of-way needed is expected to exceed 0.5 acre. The maintenance of traffic is anticipated to require a full closure with a detour route of approximately 16 miles utilizing US 6, SR 149, and US 20, coordination will be ongoing throughout the early coordination process. Access to local businesses and residents shall be maintained. A local detour route will be coordinated with the City of Lake Station. The project is anticipated to begin construction in 2024.

With my signature, I do hereby affirm that I have read the letter from the Indiana Department of Environment that appears directly above. In addition, I understand that in order to complete that project in which I am interested, with a minimum of impact to the environment, I must consider all the issues addressed in the aforementioned letter, and further, that I must obtain any required permits.

Date: <u>4/14/2021</u>		
Signature of the INDOT Project Engineer or Other Re	Scott Mason esponsible Agent	
Date: <u>4/14/2021</u>		
Signature of the For Hire Consultant	Joseph Rawly	
	Jason Rowley	

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

DNR #: ER-23638 Request Received: April 13, 2021

Requestor: Hanson Professional Services Inc.

Jason Rowley

7820 Innovation Boulevard, Suite 200

Indianapolis, IN 46278

Project: US 6/SR 51 bridge replacement over Muck Pocket (adjacent to Deep River), 0.84 mile

south of I-80/94, Lake Station; Des #1900012

County/Site info: Lake

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not

have permitting authority, all recommendations are voluntary.

*NOTE: This project is within the Lake Michigan Coastal Program's boundary: therefore.

it may be subject to Federal Consistency (FC) review. Please go to

http://www.in.gov/dnr/lakemich/files/20070214-IR-312070085NRA.xml.pdf (Section III, pages 8-16) to see the federal activities that require a project to go through the FC

process which is outlined at http://www.in.gov/dnr/lakemich/6041.htm.

Regulatory Assessment: This proposal will require the formal approval for construction in a floodway under the

Flood Control Act, IC 14-28-1. Please submit a copy of this letter with the permit

application.

Natural Heritage Database: The Natural Heritage Program's data have been checked.

A marsh natural community is located southwest of the project area. The Division of Nature Preserves does not anticipate any impacts to the marsh as a result of this project. Also, the state endangered Blanding's Turtle (Emydoidea blandingii) has been

documented within 1/2 mile of the project area.

Fish & Wildlife Comments: Avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest

extent possible, and compensate for impacts. The following are recommendations that

address potential impacts identified in the proposed project area:

1) Blanding's Turtle:

To minimize impacts to the Blanding's Turtle, an entrenched silt fence should be installed along the border of the work area on the east side of the bridge and along the east side of the road just north of the bridge, where feasible, to prevent Blanding's

turtles from entering the area.

2) Wildlife Crossings:

Maintaining or improving fish and wildlife passage at existing or proposed crossing locations is a priority for the Division of Fish & Wildlife (DFW) to reduce wildlife mortality along roadways. The DFW has outlined different requirements for different types of crossing structure impacts. For brand new crossings in areas that currently do not have a crossing, the new structure must accommodate white-tailed deer passage where appropriate. Minimum structure dimensions for white-tailed deer passage are 20 feet of width clearance (overall size of the structure span) and 8 feet of height clearance measured from the OHWM to the low chord elevation and where deer passage is

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

provided. For crossing replacements, the new structure must include wildlife passage appropriate for the type of replacement structure being proposed. If the replacement structure is sized to accommodate white-tailed deer passage then it should be included in the design of the new structure. If white-tailed deer passage is not possible with the existing structure, deer passage still needs to be considered in the design and at minimum the bank lines must be restored within structures to allow for smaller wildlife passage above the ordinary high water mark. All wildlife passage designs must include a smooth level pathway a minimum of 1-2 feet in width composed of natural substrate (soil, sand, gravel, etc.) or compacted aggregate fill over riprap (#2, #53, #73, etc.) tied into existing elevations both upstream and downstream. The stream crossing repairs or modifications, and any bank stabilization under or around the structure, must not create conditions that are less favorable for wildlife passage when compared to existing conditions. Upgrading wildlife passage for rehabilitated/modified structures is encouraged whenever possible to improve wildlife/vehicle safety.

There are a number of techniques and materials for incorporating wildlife passage into the design of a crossing structure. Coordination with a Regional Environmental Biologist to address wildlife passage issues before submitting a permit application (if required) is encouraged to avoid delays in the permitting process. The following links are good resources to consider in the design of stream crossing structures to maintain fish and wildlife passage: http://www.fs.fed.us/wildlifecrossings/library/, https://roadecology.ucdavis.edu/files/content/projects/DOT-FHWA_Wildlife_Crossing_Structures_Handbook.pdf, https://www.fs.fed.us/biology/nsaec/fishxing/aop_pdfs.html, https://www.fhwa.dot.gov/engineering/hydraulics/pubs/11008/hif11008.pdf.

3) Bank Stabilization:

Establishing vegetation along the banks is critical for stabilization and erosion control. In addition to vegetation, some other form of bank stabilization may be needed. While hard armoring alone (e.g. riprap or glacial stone) may be needed in certain instances, soft armoring and bioengineering techniques should be considered first. In many instances, one or more methods are necessary to increase the likelihood of vegetation establishment. Combining vegetation with most bank stabilization methods can provide additional bank protection and help reduce impacts upon fish and wildlife. Information about bioengineering techniques can be found at http://www.in.gov/legislative/iac/20120404-IR-312120154NRA.xml.pdf. Also, the following is a USDA/NRCS document that outlines many different bioengineering techniques for streambank stabilization: http://directives.sc.egov.usda.gov/17553.wba.

Riprap must not be placed in the active thalweg channel or placed in the streambed in a manner that precludes fish or aquatic organism passage (riprap must not be placed above the existing streambed elevation). Riprap may be used only at the toe of the sideslopes up to the ordinary high water mark (OHWM). The banks above the OHWM must be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to Northern Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion.

4) Riparian Habitat:

We recommend a mitigation plan be developed (and submitted with the permit application) for any unavoidable habitat impacts that will occur. The DNR's Habitat Mitigation Guidelines (and plant lists) can be found online at: http://iac.iga.in.gov/iac/20200527-IR-312200284NRA.xml.pdf.

Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees) or by using the 1:1 replacement ratio based on area depending on the type of habitat impacted (individual canopy tree removal in an urban streetscape or park-like environment versus removal of habitat supporting a tree canopy, woody understory, and herbaceous layer). Impacts under 0.10 acre in an urban area may still involve the replacement of large diameter trees but typically do not require any additional mitigation or additional plantings beyond seeding and stabilizing disturbed areas. There are exceptions for high quality habitat sites however.

5) Wetland Habitat:

Due to the presence or potential presence of wetland habitat on site, we recommend contacting and coordinating with the Indiana Department of Environmental Management (IDEM) 401 program and also the US Army Corps of Engineers (USACE) 404 program. Impacts to wetland habitat should be mitigated at the appropriate ratio according to the 1991 INDOT/IDNR/USFWS Memorandum of Understanding.

The additional measures listed below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:

- 1. Revegetate all bare and disturbed areas within the project area using a mixture of grasses (excluding all varieties of tall fescue), sedges, wildflowers, shrubs, and trees native to Northern Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion.
- 2. Minimize and contain within the project limits inchannel disturbance and the clearing of trees and brush.
- 3. Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife.
- 4. Do not cut any trees suitable for Indiana bat or Northern Long-eared bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
- 5. Do not excavate in the low flow area except for the placement of piers, foundations, and riprap, or removal of the old structure.
- 6. Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds.
- 7. Operate equipment used to replace the bridge from the existing roadway.
- 8. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
- 9. Do not use broken concrete as riprap.
- 10. Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.
- 11. Minimize the movement of resuspended bottom sediment from the immediate project area.
- 12. Do not deposit or allow demolition/construction materials or debris to fall or otherwise enter the waterway.
- 13. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
- 14. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.
- 15. Do not excavate or place fill in any riparian wetland.

THIS IS NOT A PERMIT

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

Contact Staff:

Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife Our agency appreciates this opportunity to be of service. Please contact the above staff member at (317) 232-4080 if we can be of further assistance.

Christie L. Stanifer Date: May 12, 2021

Christie L. Stanifer
Environ. Coordinator
Division of Fish and Wildlife

From: Michels, Stewart <SMichels@indot.IN.gov>
Sent: Wednesday, April 14, 2021 9:53 AM

To: Payton Fischer

Subject: RE: Des No. 1900012 US 6/SR 51 Bridge Project at Muck Pocket – INDOT Project

EXTERNAL SENDER STOP.THINK.QUESTION If this is unexpected, verify before you click links or open attachments.

Payton,

Thank you for providing a copy of the early coordination letter for Des 1900012 to the LaPorte District Environmental Services. We do not have any comment at this time. Thank you, again, for contacting us. Regards,

Stew

From: Payton Fischer pfischer@hanson-inc.com>

Sent: Tuesday, April 13, 2021 11:23 AM

To: Michels, Stewart <SMichels@indot.IN.gov> **Cc:** Tamra Reece <TReece@hanson-inc.com>

Subject: Des No. 1900012 US 6/SR 51 Bridge Project at Muck Pocket – INDOT Project

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hello,

This is Payton Fischer with Hanson Professional Services Inc. and we are working on the INDOT Project Des. No. 1900012, US 6/SR 51 Bridge Project at Muck Pocket. Please take a moment and review the enclosed early coordination documents.

Respectfully,



Payton Fischer | Environmental Specialist

<u>Hanson Professional Services Inc.</u> | 6510 Telecom Dr. Ste. 210 | Indianapolis, IN 46278 w 317-293-9024 | c 574-298-2359 | <u>Facebook</u> | <u>Twitter</u> | <u>LinkedIn</u>

Disclaimer

This entire e-mail may contain confidential information belonging to the sender which is legally privileged. This information is intended only for the use of the individual(s) or entity named above. If you are not the intended recipient you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of this information is strictly prohibited. If you have received this e-mail in error please notify the sender immediately by e-mail and then delete this e-mail from your system.

Mail delivered by Hanson Professional Services Inc. mail system.

From: Hurst, Allen A <AHurst@dnr.IN.gov>
Sent: Tuesday, April 20, 2021 5:09 PM

To: Payton Fischer **Cc:** Bronson, Bob

Subject: RE: Des No. 1900012 US 6/SR 51 Bridge Project at Muck Pocket – INDOT Project

Attachments: ECL_DesNo1900012.pdf

EXTERNAL SENDER STOP.THINK.QUESTION If this is unexpected, verify before you click links or open attachments.

Designation #: 1900012

Description: Bridge Project at Muck Pocket on US 6/SR 51, 0.84 mile south of I-80/94, LaPorte District, Gary Subdistrict, Lake County, Indiana

The project as submitted will not impact a LWCF site or a Designated Natural, Scenic, or Recreational River. Should the location or scope of the project change as to negatively impact outdoor recreation at the nearby Riverview Community Park, the applicant or agent will need to contact DNR, Outdoor Recreation branch at 317-232-4075 or bbronson@dnr.in.gov.

Thank you,

ALLEN HURST

Trails Coordinator

Division of State Parks

Department of Natural Resources | <u>DNR.IN.GOV</u>

402 W.Washington St. Room W298, Indianapolis, IN 46204

P: (317)232-4070 | <u>Ahurst@dnr.in.gov</u>

From: Bronson, Bob

Sent: Tuesday, April 13, 2021 2:44 PM

To: Hurst, Allen A <AHurst@dnr.IN.gov>

Subject: FW: Des No. 1900012 US 6/SR 51 Bridge Project at Muck Pocket – INDOT Project

Please review, THANKS bob

From: Payton Fischer opfischer@hanson-inc.com>

Sent: Tuesday, April 13, 2021 12:47 PM

To: Bronson, Bob < bbronson@dnr.IN.gov >
Cc: Tamra Reece < TReece@hanson-inc.com >

Subject: Des No. 1900012 US 6/SR 51 Bridge Project at Muck Pocket – INDOT Project

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

^{*} Please let us know about the quality of our service by taking this brief <u>customer survey</u>.

Hello,

This is Payton Fischer with Hanson Professional Services Inc. and we are working on the INDOT Project Des. No. 1900012, US 6/SR 51 Bridge Project at Muck Pocket. Please take a moment and review the enclosed early coordination documents.

Respectfully,



Payton Fischer | Environmental Specialist

<u>Hanson Professional Services Inc.</u> | 6510 Telecom Dr. Ste. 210 | Indianapolis, IN 46278 w 317-293-9024 | c 574-298-2359 | <u>Facebook</u> | <u>Twitter</u> | <u>LinkedIn</u>

Disclaimer

This entire e-mail may contain confidential information belonging to the sender which is legally privileged. This information is intended only for the use of the individual(s) or entity named above. If you are not the intended recipient you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of this information is strictly prohibited. If you have received this e-mail in error please notify the sender immediately by e-mail and then delete this e-mail from your system.

Mail delivered by Hanson Professional Services Inc. mail system.

From: Hurst, Allen A <AHurst@dnr.IN.gov>
Sent: Thursday, January 27, 2022 4:05 PM
To: Tamra Reece; bbronsons@ndr.in.gov

Cc: Jeff Bushur; Payton Fischer

Subject: RE: Des 1900012 US 6 Muck Pocket Bridge Replacement Project

EXTERNAL SENDER STOP.THINK.QUESTION If this is unexpected, verify before you click links or open attachments.

8

This message needs your attention

 No employee in your company has ever replied to this person.

Report or Mark as Safe

Powered by Mimecast

Des. No.: 1900012

Description: Bridge Project at Muck Pocket on US 6/SR 51, 0.84 mile south of I-80/94, LaPorte District, Gary Subdistrict,

Lake County, Indiana

Thank you for checking back in. The project as newly submitted still is in the clear from a LWCF standpoint.

Should there be any future changes to the location or scope of the project as to negatively impact outdoor recreation at the nearby Riverview Community Park, the applicant or agent will need to contact DNR, Outdoor Recreation branch at 317-232-4075 or bbronson@dnr.in.gov.

Allen Hurst, Trails Coordinator IDNR Division of State Parks

402 W. Washington Room W298, Indianapolis, IN 46204

OFFICE: 317-232-4070 ahurst@dnr.in.gov

Please let us know about the quality of our service by taking this brief customer survey.

From: Tamra Reece <TReece@hanson-inc.com> Sent: Thursday, January 27, 2022 1:47 PM

To: bbronsons@ndr.in.gov; Hurst, Allen A <AHurst@dnr.IN.gov>

Cc: Jeff Bushur <JBushur@hanson-inc.com>; Payton Fischer <pfischer@hanson-inc.com>

Subject: Des 1900012 US 6 Muck Pocket Bridge Replacement Project

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hello:

Please see the attached updated coordination letter, which includes a copy of your original response dated April 20, 2021, and the updated preliminary right-of-way information along with a set of plans for your review. You have received

this information due to design changes that have taken place over the course of the design process. Please let us know if the updated preliminary plans would change your impact assessment from last April. If additional coordination or information is needed, please do not hesitate to contact me.

Thanks



Tamra L. Reece | Environmental Scientist

<u>Hanson Professional Services Inc.</u> | 6510 Telecom Drive, Suite 210, | Indianapolis, IN 46278 w 317-803-8958 | c 260-610-2600 | <u>Facebook</u> | <u>Twitter</u> | <u>LinkedIn</u>

Disclaimer

This entire e-mail may contain confidential information belonging to the sender which is legally privileged. This information is intended only for the use of the individual(s) or entity named above. If you are not the intended recipient you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of this information is strictly prohibited. If you have received this e-mail in error please notify the sender immediately by e-mail and then delete this e-mail from your system.

Mail delivered by Hanson Professional Services Inc. mail system.

From: Courtade, Julian <JCourtade@indot.IN.gov>

Sent: Wednesday, April 14, 2021 6:40 AM

To: Payton Fischer

Subject: RE: Des No. 1900012 US 6/SR 51 Bridge Project at Muck Pocket – INDOT Project

EXTERNAL SENDER STOP.THINK.QUESTION If this is unexpected, verify before you click links or open attachments.

Payton -

I reviewed the Early Coordination Letter and found no issues with any surrounding airspace or public-use airports. This is due to the project meeting the required glideslope criteria from the nearest public-use facility according to 14 CFR Part 77 – Safe, efficient use, and preservation of the navigable airspace.

If any object will exceed 200 ft in height regardless of location, the object will need to be airspaced with the FAA 45 days prior to construction through the OEAAA portal below.

https://oeaaa.faa.gov/oeaaa/external/searchAction.jsp

Please let me know if you have any questions!

Thanks,

Julian L. Courtade

Chief Airport Inspector

100 North Senate Ave, N758-MM Indianapolis, IN 46204

Cell: (317) 954-7385

Email: jcourtade@indot.in.gov











From: Payton Fischer <pfischer@hanson-inc.com>

Sent: Tuesday, April 13, 2021 12:21 PM

To: Courtade, Julian <JCourtade@indot.IN.gov> Cc: Tamra Reece <TReece@hanson-inc.com>

Subject: Des No. 1900012 US 6/SR 51 Bridge Project at Muck Pocket – INDOT Project

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

From: Duane Alverson <alverda@lakecountyin.org>

Sent: Thursday, April 22, 2021 7:43 AM

To: Payton Fischer

Cc: Tamra Reece; Jason Rowley; smason@indot.in.gov

Subject: RE: Des No. 1900012 US 6/SR 51 Bridge Project at Muck Pocket – INDOT Project

EXTERNAL SENDER STOP.THINK.QUESTION If this is unexpected, verify before you click links or open attachments.

Mr. Fisher,

I have tentatively reviewed the Early Coordination letter and offer the following comment;

If Grand Boulevard/North Lake Park Avenue between Central Avenue and 37th Avenue (Ridge Road) is used as the Local Detour Route I request Lake County/ Lake County Highway Department be notified as the portion of Grand Boulevard/North Lake Park Avenue between 36th Avenue north to 31st Avenue is a County Road.

The maintenance of traffic is anticipated to require a full closure with a detour route of approximately 16 miles utilizing US 6, SR 149, and US 20, coordination will be ongoing throughout the early coordination process. A local detour route will be coordinated with the City of Lake Station. The project is anticipated to begin construction in 2024.

Thank you for the opportunity to comment. If you have any additional questions for myself, please contact me.

Respectfully,

Duane A. Alverson, PE Engineer



Lake County Highway Department 1100 East Monitor Street Crown Point, IN 46307 Phone 219-663-0525 Fax 219-662-0497 alverda@lakecountyin.org

From: Payton Fischer [mailto:pfischer@hanson-inc.com]

Sent: Tuesday, April 13, 2021 11:25 AM

To: Duane Alverson <alverda@lakecountyin.org>