ounty _1	Marion	Route I-4	65	Des. No.	1802075
Cz	ATEGORICAL EXC	LUSION / EN	Environmental Docum VIRONMENTA DJECT INFORMATION	AL ASSESSM	ENT FORM
Road	No./County:	Interstate 465 (I	-465) / Marion Coun	ty	
Desig	nation Number:		1701345, 1700949, 194, 1900749, 1900749,		
After c	ompleting this form, I conclude to	Section A/B: I-46 interchange to I-4 Section C: I-465, interchange.	ation; Added Travel L 5, from 0.3 mile west 65/I-65 interchange. from I-465/I-70 interc tes for the following type	of I-465/(United Standards)	Mann Road
	Categorical Exclusion, Le Level 2 - table 1, CE Level	evel 2 — The propos Thresholds. Requir	ed action meets the c	riteria for Categorio (Environmental Sco	cal Exclusion Manual ping Manager)
	Categorical Exclusion, Le Level 3 - table 1, CE Level				
X	Categorical Exclusion, Le Level 4 - table 1, CE Level				al Exclusion Manual
	Environmental Assessment is necessary to determine the				
	or documents prepared by or for Envi o release for public involvement or si		sion, it is not necessary for	the ESM of the district in	n which the project is
Appro	valN/A ESM Signature	Date	ES Signature	- OMIL	2/21/2020 Date
	Rober	1 (0.1	Digitally signed by Robei Date: 2020.02.28 14:54:10		Date
Release	e for Public Involvement				
	N/A itials Da 3-20 cation of Public Involvement	1/1/	ES Initials Land Involvement	11-18 Date	
INDOT E Reviewer	S/District Env. Signature: Organization of CE/EA Preparer:	106 public involvemen	Date:	nental requirements ha	we been satisfied.
is is page	, 1 of 43 Project name:	I-465 Reconfiguration	n	Date	e: November 18, 2019

County Marion	Route	I-465	Des. No.	1802075
	Part I - PU	BLIC INVOLVEMEN	<u>T</u>	
-	n requires some level of public involver process. The level of public involver			
If No, then:	oject have a historic bridge processed aity for a Public Hearing Required?	under the Historic Bridges PA*?	Yes X	No
*A nublic hearing is	required for all historic bridges process	sed under the Historic Bridges P	rogrammatic A	Agreement hetween INDOT

"A public nearing is required for all historic bridges processed under the Historic Bridges Programmatic Agreement between INDOT, FHWA, SHPO, and the ACHP.

Discuss what public involvement activities (legal notices, letters to affected property owners and residents (i.e. notice of entry), meetings, special purpose meetings, newspaper articles, etc.) have occurred for this project.

Remarks:

Notice of Entry letters were mailed to potentially affected property owners near the project area on March 27, 2019 notifying them about the project and that individuals responsible for land surveying and field activities may be seen in the area. A sample copy of the Notice of Entry letter is included in Appendix G-1.

Early in the project development process, the project team prepared a Public Involvement Plan (PIP). The purpose of this plan was to establish the goals and strategies for engaging with the public and key stakeholders in accordance with the Indiana Department of Transportation (INDOT) Public Involvement Procedures Manual. The PIP was approved by INDOT on June 25, 2019. A copy of the PIP is included in Appendix G-5.

A Community Advisory Committee (CAC) was formed to obtain early input from key stakeholders including local government officials, elected officials, transportation managers, major employers, and emergency responders (listed below). The CAC was initiated with meeting invitations, sent on June 13, 2019 (Appendix G-16). The CAC meeting was held on July 9, 2019. The meeting summary and request for written comments, sent on July 23, 2019, is included in Appendix G-22. No written comments were received.

CAC Members

CAC Members				
Governor, State of Indiana Town of Homecroft Council				
Mayor, City of Indianapolis	Decatur Township Trustee			
Senators of Indiana, U.S. Senate	Perry Township Trustee			
Congressman, U.S. Congress Indiana 7th District	Decatur Township Civic Council			
State Senators, State Districts 32, 35, and 36	Indianapolis Mayor's Neighborhood Advocates 3 and 4			
Representatives, House Districts 90, 91, and 97	Indianapolis Neighborhood Housing Partnership South			
Councilman, City/County Council Districts 16, 20, 22, and 24	City of Indianapolis, Department of Metropolitan Development			
Mayor of Southport	Decatur Township Center (Nursing Home)			
Federal Highway Administration (FHWA)	City of Indianapolis, Department of Public Works			
Indianapolis Fire Station 23	Big Car/South Indy Quality of Life Plan			
INDOT Rail Office	Indianapolis Metropolitan Planning Organization (MPO)			
INDOT Office of Aviation	IndyGo			
Central Indiana Regional Transportation Authority	Indianapolis Public Schools			
Metropolitan School District of Decatur Township	Roncalli High School			
University of Indianapolis	Perry Township High School			
Louisville & Indiana Railroad Co.	Indianapolis Fire Department			
Indianapolis Airport Authority Indianapolis Metropolitan Police Departmen				
Indiana Department of Homeland Security	Marion County Health and Hospital			
Indiana State Police	Decatur Township Fire Department			
Indianapolis Homeland Security Bureau, Emergency Management Agency	Northwest Perry Neighborhood Association			

This is page 2 of 43 Project name: I-465 Reconfiguration Date: February 21, 2020

County Marion Route I-465 Des. No. 1802075

A public open house for the I-465 Reconfiguration project was held at Decatur Central High School on July 10, 2019. Invitations to the open house were sent to adjoining property owners, places of worship, civic organizations, and neighborhood groups (Appendix G-41). Additionally, the open house was advertised via INDOT's mailing list, press releases, social media, and traditional media outlets (Appendix G-50). Media coverage included WIBC, CBS4, RTV6, the *Daily Journal*, Fox 59, the *Nuvo*, WFYI, and WishTV (Appendix G-54). During the open house, project team members were stationed to allow for small group discussions, and a short presentation was given on the project's purpose and need, environmental analyses, and the recommended alternative (Appendix G-72).

Project team members were invited to attend several community events where they presented meeting materials from the public open house (Appendix G-72). These meetings are listed below.

Community Outreach Events

Meridian Place Homeowners Association July 22, 2019
Perry Township National Night Out August 6, 2019

A noise meeting was held on August 29, 2019 at Decatur Central Middle School to solicit input from residents that would benefit from the construction of noise barriers. Meeting invitations and pre-stamped surveys, which allowed the resident to state whether or not they would like the noise wall associated with their property constructed, were mailed to each benefited resident on August 13, 2019 (Appendix G-128). A presentation was given on the noise analysis conducted for the project, and boards showing the locations where noise abatement is likely were made available. In September 2019, project team members conducted additional outreach to discuss the proposed project and noise barriers that are proposed in their area (Appendix G-126). Noise survey cards and written general comments were collected. A summary of the outreach events is provided in the table below.

Additional Noise Outreach

Community	Date	Event Type
Fox Club Apartments	September 3, 2019	Outdoor booth - distributed project information, collected
		noise surveys and project comments.
Decatur Township Center	September 3, 2019	Met with nursing home staff, left project information and
		noise surveys.
Madison Mobile Home	September 4, 2019	Outdoor booth - distributed project information, collected
Community		noise surveys and project comments.
Village of North Acre	September 4, 2019	Outdoor booth - distributed project information, collected
		noise surveys and project comments.
Single family homes along	September 5, 2019	Door-to-door, distributed project information and noise
Tincher Rd, Norcroft Dr,		surveys.
Gambell Rd, and Biltmore Ave.		
Horizons Apartments	September 6, 2019	Outdoor booth at neighborhood community day and pool
		party. Distributed project information, collected noise
		surveys and project comments.
Yorktown Homes South	September 9, 2019	Community clubhouse - distributed project information,
Cooperative		collected noise surveys and project comments.
Fox Club Apartments	September 10, 2019	Door-to-door, distributed project information and noise
		survey (including Spanish language).
Single family homes along	September 10, 2019	Door-to-door, distributed project information and noise
Redfern Dr. and Morgan Dr.	September 10, 2019	survey.
Long Acre mobile home	September 14, 2019	Door-to-door, distributed project information and noise
community		survey.

The noise survey card comment period ended on September 20, 2019. Of the 512 mailings sent to benefited receivers, 133 positive responses were received, and 6 negative responses were received (27% response rate). Outreach to businesses and landowners was conducted via mail and meetings. As a result of the stakeholder process, and mixed-use areas, the length of three barriers were shortened (Appendix G-158 to G-161). The revised barriers were displayed at the

This is page 3 of 43 Project name: I-465 Reconfiguration Date: February 21, 2020

unty	Marion	Route	I-465	De:	s. No.	1802075	
	public hearing. The results of noise analysis.	f the public hearing	g are discussed be	low. See the Noise section	n for furtl	her discussion	n on the
	The project meets the mining requires the project sponsor. Therefore, in accordance with December 10, 2019 at Decatt to comment on the environment in the <i>Indianapolis Star</i> on 10 comment period would end on the project area and advertised.	to offer the public h INDOT's FHWA ar Central High Sclental document and November 22 and n January 10, 2020	c an opportunity -approved public hool Cafeteria in 1 the preliminary 29, 2019 (Apper 6). Copies of the p	to submit comment and involvement guidelines, Indianapolis, Indiana to design plans. The public dix G-134 to G-137), w	d/or reque a public offer the p hearing n which also	est a public hearing was public an opp notice was ad announced	hearing. held on ortunity vertised that the
	Prior to the Public Hearing, a Log (Appendix G-91). The c transit, pedestrian/multi-use a	comments primarily	y discuss noise, sa	afety, construction timing	g, the Mar	nn Road inter	change,
	Majority of the comments respecifically, the exclusion of to be reasonable and feasible the interstate in this location. to safety issues. Because of the this location. Because of this A-weighted decibel (dBA) reasonableness was not evaluate.	Noise Barrier 12 (A in this location was These transmission nese safety issues a necessary gap, the reduction at major	Appendix G-168 to due to high-volta a lines restrict who and the associated barrier would not	o G-199). The reason that age transmission lines that are a barrier could be placed risks, a gap would have to meet the acoustic feasible.	t a noise but cross and ced along to be place ility criter	parrier was not then run parthe right-of-ved within a brion (i.e., pro	ot found rallel to way due arrier at vide a 5
	Residents in this area also con account for this removal. Up this area, per their safety pol noise impacts and abatement modeled unless the vegetation at this location is not evergre results provided in the <i>Tray</i> . Furthermore, the gap in the nodecision on the installation of and the public involvement pr	oon review, it was icy. The recent very. The recent very. Per INDOT's Note is evergreen and even, it was not ince the fice Noise Impact of the parties of any abatement meters.	determined that t getation clearing ise Analysis Proc completely blocks orporated into the Analysis already main. All of the p	the utility (Duke Energy) at this location does not redure, trees and other does all lines of sight to the renoise modeling for this reflect conditions with roposed noise barriers with	recently of require a ense vege roadway. It is project. Thout vego all be reeven.	cleared veget reanalysis of etation should Since the ve Therefore, the etation in the aluated, and the	tation in f traffic d not be getation ne noise is area. the final
	Other comments received include the project schedule, and right will be designed following the entirely within existing right-additional right-of-way and was considered moving forward. TINDOT customer service for open by the end of 2024. A 1 200 to G-204.	t-of-way. This prome award of the con- of-way. The quent would have impacted. The highway lighting follow-up. This prome the follow-up.	ject is part of a department. See the lastions on shoulded sensitive resouring concern was notoject is scheduled.	esign-build contract. Ther MOT section for more do the widening and interstate trees adjacent to the inter- tot related to this project, the that to begin construction a	efore, the letail. The access value. Their herefore it the end	MOT for the is project wi would have a refore, they we take a passed of 2020, with	e project ll occur required were not along to h traffic
	ntroversy on Environmental		community and	l/or natural resource im	pacts?	Yes	No X
•		. •	•				

		Indiana Department of Tr	ransportation
County	Marion	RouteI-465	Des. No1802075
<u>Par</u>	t II - General P	oject Identification, Des	cription, and Design Informat
•	of the Project: ne of the Facility:	INDOT I-465	INDOT District: Greenfield
Funding S	ource (mark all that app	ly): Federal X State X Loca	al Other*
*If other is	selected, please identify	the funding source:	
PURPOS	SE AND NEED:		
		n that the project will address. The solution nual, Section IV.B.2. Purpose and Need)	on to the traffic problem should NOT be discussed
On July 23	3, 2019, the draft purpose		NDOT and distributed to CAC members for comment
include into (I-465/I-65 southbound to I-465/M the eastbou	erchange ramp lengths that interchange to I-465/US I US 31 to I-465 ramp, and ann Road interchange), the	t do not meet current <i>Indiana Design Manua</i> 31 interchange), there are back-ups and acc the southbound US 31 to eastbound I-465 enere are back-ups and accidents where the east	ssues that result in a high rate of crashes. Safety issues at 2013 (revised 2019) standards. Within Section A/E cidents at the I-465 to northbound US 31 ramps, the ntrance lane. Within Section C (I-465/I-70 interchange thound I-70 to eastbound I-465 entrance lane drops, at 5 to eastbound I-70 exit ramp, and at the westbound I-
Existing cra	ash data from 2015 to 2017	within these sections of I-465 is summarized	d below.

Summary of Existing Crash Data (2015-2017)

CECTION		CRASI	І ТҮРЕ	TOTAL NO.	NO. OF	NO. OF	
SECTION	REAR END	RAN OFF ROAD	SAME DIRECTION SIDE SWIPE	OTHER	OF CRASHES	INJURIES	FATALITIES
Section A/B	92	28	59	37	216	35	2
Section C	72	19	81	26	198	21	0

Safety is evaluated using the Road Hazard Analysis Tool (RoadHAT) software. RoadHAT provides results in an Index of Crash Frequency (ICF) and Index of Crash Cost (ICC), which illustrate how the facility is performing. Per the *Indiana Design Manual 2013*, an ICF and ICC of zero or less represents average or below-average crash frequency. The results of the RoadHAT analysis provided an ICF of 1.47 and an ICC of 1.57 on Section A and an ICF of 1.68 and an ICC of 0.31 on Section C. Therefore, the project area is experiencing a higher than expected number of crashes for this type of facility. The primary types of crashes are rear end, ran off road, and same direction sideswipe. This indicates that capacity, merging, and weaving movements likely contribute to the safety issues.

C 1		Indiana Design Manual 2013 standards, which is summar ongestion issues that negatively impact safety within the proj		able below. The
This is page 5 of 43	Project name:	I-465 Reconfiguration	Date:	February 21, 2020
		Form Version: June 2013 Attachment 2		

County Marion Route I-465 Des. No. 1802075

Summary of Ramp Needs

		LENTH (FEET)		
RAMP	RAMP CRITERIA	EXISTING	DESIGN STANDARD	
Eastbound I-465 to Southbound US 31	Exit Ramp Deceleration Length	180	550	
Southbound US 31 to Eastbound I-465	Entrance Ramp Merge Length	300	600	
Westbound I-465 to SR 67	Exit Ramp Taper Length	220	300	
SR 67 to Eastbound I-465	Entrance Ramp Acceleration Length	225	1,000	

Source: Indiana Design Manual 2013 (revised 2019)

Traffic capacity was analyzed for the years 2016-2017 (existing conditions) and 2045 (design year) in terms of Levels of Service (LOS). LOS is a performance measure that represents quality of service, measured on an A – F scale, with LOS A representing a free flow of traffic and LOS F representing a breakdown in flow (e.g., start-and-stop congestion). The project area is within an urban area, therefore the minimum criteria during peak travel hours (i.e., rush hour) is LOS D.

The traffic capacity analysis identified substandard levels of service within the project area. For the years 2016-2017, I-465 Section A/B from US 31 to I-65 operated at LOS E. Along I-465 Section C, from SR 67 to Mann Road, the facility operated at LOS D.

Traffic operational issues for the year 2025 were analyzed and shown to have unacceptable LOS. The results are summarized below.

Section A/B LOS (2025)

- Eastbound I-465 at the US 31 interchange is LOS F during the PM peak (i.e., rush hour).
- Eastbound I-465 between US 31 and I-65 is LOS E during the AM and PM peak.
- Westbound I-465 between I-65 and US 31 is LOS F during the AM peak.

Section C LOS (2025)

- Eastbound I-465 between the I-70 entrance ramp and SR 67 is LOS F during the PM peak.
- Eastbound I-465 from SR 67 to Mann Road is LOS F during PM peak.
- Westbound I-465 from Mann Road to SR 67 is LOS F during the AM peak.

Correcting capacity issues is also needed due to the programmed I-69 Section 6 project. The I-69 Section 6 project will construct a new interchange with I-465 and added lane capacity on I-465 from just west of Mann Road to the US 31 interchange. This is expected to increase traffic volumes and worsen existing capacity issues on eastbound and westbound I-465 within the project area, which would result in potential safety issues and major operational issues.

The purpose of the I-465 Reconfiguration Project is to improve overall traffic operation within these sections of I-465 by improving level of service to at least LOS D in the design year (2045), meeting current design standards for ramp lengths, and improving safety.

PROJECT DESCRIPTION (PREFERRED ALTERNATIVE):							
County: Marion	Municipality:	City of Indianapolis					
Limits of Proposed Work:	Section A/B: I-465, from 0.3 mile west Section C: I-465, from the I-465/I-70 in	C		terchange.			
Total Work Length:	2.24 Mile(s)	Total Work Area: 52.44	_ Acre(s)				
Is an Interchange Modifica	tion Study / Interchange Justification	Study (IMS/IJS) required?	Yes ¹	No X			
This is page 6 of 43	Project name: I-465 Reconfigurati	on	Date:	February 21 2020			

Indiana Department of Transportation							
County	Marion	Route	I-465	Des. No.	1802075		
If yes, whe	n did the FHWA grant a	conditional approval for	this project?	D	ate:		
	r IJS is required; a copy the IMS/IJS.	of the approved CE/EA	document must be	submitted to the FHWA wit	th a request for final		
oreferred ali mprove saf	ternative. Include a discu ety or roadway deficienc	ssion of logical termini. ies if these are issues.	Discuss any major	pe of work for the project, i issues for the project and I	now the project will		
County, Ind The project	liana. The project consists of	of two sections: Section A ea on the south side of the	/B and Section C. A I	nes project on Interstate 465 Project Location Map is attach is, Marion County. Section A	ned (Appendix B-1).		
shoulders. S		65 and East Street interch		to 12-foot inside shoulders basses for Carson Avenue, Ke			
shoulders. S		nn Road, SR 67/Kentucky	y Avenue, and I-70 is	f-foot inside shoulders and 10 nterchanges, and has overpas hs in Appendix B-100.			
65 interchar 465, reconf southbound will be wide ditches will Keystone A capacity iss termini. Sin	nge. The proposed work for iguring the eastbound I-465 US 31 to eastbound I-465 ened. In order to contain the be piped where necessary evenue, and Carson Avenue uses between the I-465/US-	r Section A/B includes bu 5 to the northbound and (Appendix B-45). Guardre e project area within exist 7. The proposed work for bridges. Section A/B add 31 interchange and the I-	southbound US 31 e ail will be replaced ar ing right-of-way, reta Section A/B also in lresses the high rate of 465/I-65 interchange:	I-465/US 31 interchange and the to the outside on eastbour exit ramps, and extending the ad upgraded. Mainline bridges ining walls will be used and recludes the replacement of the forashes caused by insufficient therefore, it has independent ad would not need to be altered.	and and westbound I- entrance lane from s within the corridor oadside streams and e Madison Avenue, ent ramp lengths and t utility with logical		
Road intercepavement rewill be lengualls will be by insufficithe I-465/I-terminus of	change. The proposed wore eplacement at the shoulder of the dense of the characteristic characteristic contents. The e used and roadside stream ent ramp lengths and capacteristic characteristic charact	ck for Section C include s, and replacement of the eplaced and upgraded. In as and ditches will be pip- city issues along I-465; the Iann Road interchange. Co However, even if Section	s added travel lanes Mooresville Road By order to contain the p ed where necessary. Serefore, Section C has urrently, the eastern to 6 of I-69 becomes de	terchange and ends just west along the inside shoulder of ypass bridge (Appendix B-45 roject area within existing rig Section C will address the hig independent utility with logic terminus is proposed to match- layed or cancelled, Section C feed section).	of I-465, full depth). The SR 67 ramps ht-of-way, retaining gh crash rate caused cal termini between -up with the western		
feasibility a		oise barriers are being ev	aluated at all location	S's <i>Traffic Noise Analysis Pro</i> as in the project areas where discussion).			
				k as summarized in the tables orary ROW will be required for			
primarily re Avenue, and	emain open during construc	tion. Local roads will expos bridges are replaced, and	erience closures while	closures. All ramps within the the Madison Avenue, Keystovided (see the the Maintenance)	one Avenue, Carson		

County	Marion	Route	I-465	Des. No.	1802075
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This project will impact a total of 20 streams (12,722 linear feet), 1.052 acres of wetlands, the regulatory floodplain of McFarland and Lick Creek, 24.09 acres of non-wetland terrestrial habitat, up to 18.05 acres of trees considered "suitable summer habitat" for the Indiana bat and northern long-eared bat (NLEB), and urban trees. Additionally, there will be noise impacts to residential and commercial receptors.

Based on the October 26, 2018 *Final Engineer's Report - I-69 Section 6*, the preferred alternative will meet the project's purpose and need by improving overall traffic operation within these sections of I-465 by improving level of service to at least LOS D in the design year (2045). Furthermore, the project will improve safety by meeting current design standards for ramp lengths.

Summary of Bridges

Bridge No.	Structure No.	Des. No	Section	Crossing	Scope of Work
1	I465-165-04442 B	1900758	A/B	Carson Avenue over I-465, Lick Creek	Replacement
2	CV I465-049-00.30	1901612	A/B	I-465 over McFarland Creek	Rehabilitation and extend
3	I465-164-04444 BWBL	1900749	A/B	Westbound I-465 over Lick Creek	Widening bridge
4	I465-164-04444 CEBL	1900748	A/B	Eastbound I-465 over Lick Creek	Widening bridge
5	I465-164-04798 A	1701345	A/B	Keystone Avenue over I-465	Replacement
6	(I465)31-49-04449 B	1802075	A/B	US 31 northbound ramp over eastbound I-465, Lick Creek	No work is proposed
7	(I465)31-49-04450 B	1802075	A/B	US 31 southbound ramp over westbound I-465, Lick Creek	No work is proposed
8	031-49-04448 B	1900744	A/B	US 31 over I-465 eastbound/westbound, Lick Creek	New cut wall under bridge
9	I465-163-04447 BEBL	1900949	A/B	I-465 eastbound over Lick Creek	Rigid deck overlay
10	(I465)431-49-04445 B	1900757	A/B	Madison Avenue over I-465 and Lick Creek	Replacement
11	I465-164-02245	1802075	A/B	Louis ville and IN railroad over I-465	Resurfacing/striping under bridge only
12	I465-155-09161	1802075	C	West Hanna Avenue over I-465	Resurfacing/striping under bridge only
13	I465-156-02152 JBNB	1802075	C	I-465 northbound over IS railroad, SR 67	Striping (added lane)
14	I465-156-02152 BSBL	1802075	C	I-465 southbound over IS railroad, SR 67	Striping (added lane)
15	I465-157-04721 B	1900750	C	Mooresville Road over I-465	Bridge Replacement

Summary of Culverts

No.	Structure No.	Des. No.	Section	Waterbody	Existing Structure	Length (feet)	Work Type
1	CV 067-049-104.52	1802075	C	Dollar Hide Creek	11.5 ft x 6 ft Slabtop	140	No work is proposed*
2	CV I465-049-08.44L	1802075	С	UNT 1 to Dollar Hide Creek	6 ft x 3.75 ft RCP	130	No work is proposed*
3	CV I465-049-08.45	1901612	С	UNT 1 to Dollar Hide Creek	54-inch CMP w/HDPE liner	255	No work is proposed*
4	CV I465-049-08.38	1802075	C	UNT 1 to Dollar Hide Creek	48-inch CMP	120	No work is proposed*
5	CV I465-049-02.05	1901612	A/B	non-jurisdictional feature	66-inch CMP	176	Liner or replacement
6	CV I465-049-01.97	1901612	A/B	UNT 14 to Lick Creek	60-inch CMP	177	Liner or replacement
7	CV I465-049-01.90	1901612	A/B	UNT 11 to Lick Creek	60-inch CMP	137	Liner or replacement
8	CV I465-049-01.47	1901612	A/B	UNT 7 to Lick Creek	71- by 47-inch CMP	176	Liner or replacement
9	CV I465-049-00.27 L	1901612	A/B	UNT 1 to McFarland Creek	84-inch CMP	182	Liner or replacement

UNT = unnamed tributary; CMP = corrugated metal pipe; RCP= reinforced concrete pipe; ft = feet

OTHER ALTERNATIVES CONSIDERED:

Describe all discarded alternatives, including the Do-Nothing Alternative and an explanation of why each discarded alternative was not selected.

Alternative 1 – Do-Nothing (No-Build)

The Do-Nothing Alternative would leave the roadway in its current state; ramps would remain substandard and back-ups would continue to occur. This alternative would not incur any costs or environmental impacts. However, the existing operational and safety issues would remain, which would likely increase with the addition of I-69. Since the Do-Nothing Alternative would not meet the purpose and need of the project, it was dismissed from further consideration.

This is page 8 of 43	Project name:	I-465 Reconfiguration	Date:	February 21, 2020
			<u> </u>	

^{*} Located within the study area, but is outside construction limits.

		iliulalia D	epai u	nent or Transpor	lation		
County	Marion	Rou	ute <u>I</u>	465	Des. N	No.	1802075
of-way, and have had inc	would likely includereased impacts to en	e relocations, interchange	access mo	ere not studied because the odifications, and additional rees, including greater imparied forward.	bridge replacer	nents.	Thus, they would
It would not It would not It would not It would not	t correct existing of t correct existing s t correct the existing t correct existing d sult in serious impa	apacity deficiencies; afety hazards; ng roadway geometric d leteriorated conditions a	eficienci) :	X X X
ROADWA	Y CHARACTER	R:					
Current AD Design Hou	Classification: DT: ur Volume (DHV): Speed (mph):	10,222 Truck Po	(2025) ercentag peed (m		134,550	VF	PD (2045)
[-465 from U	S 31 to I-65 (Section			_			
		Existing		Proposed			
Number of	Lanes:	6		8			
Type of Lar	nes:	6 Through lanes		6 Through lanes 2 Auxiliary lanes			
Pavement '	Width:	120 to 124	ft.	144 to 148	ft.		
Shoulder W	Vidth:	Inside: 10 to 12	ft.	Inside: 16.75	ft.		
Median Wid	dth:	Outside: 12 Not applicable (N/A)	ft.	Outside: 10 to 12 N/A	ft.		
Sidewalk W		N/A	ft.	N/A	ft.		
-465 from I-	-70 to Mann Road (Section C) Existing		Proposed			
		6 Through lanes		8 Through lanes			
Type of Lar			££	2 Auxiliary lanes	L.		
Pavement '		136 Inside: 16.75	ft. ft.	160 Inside: 4.75	ft.		
Shoulder W		Outside: 14		Outside: 14			
Median Wid Sidewalk W		N/A N/A	ft.	N/A N/A	ft.		
Setting: Topograph	y:	X Urban Level	_ Suburba Rolling				

I-465 Reconfiguration

Date: February 21, 2020

This is page 9 of 43 Project name:

		In	idiana Depa	rtment of	ıransporta	tion			
County Mar	ion		Route	I-465		Des.	No.	1802	075
DESIGN CRITE	RIA FOR E	BRIDGES:							
vill not be worked of Brid Brid Brid Brid Brid Culv Culv Culv	on for this proge No. 6, US ge No. 7, US ge No. 11, Lo ge No. 12, Wert No. 1, CV rert No. 2, CV rert No. 3, CV	oject: 31 northbound 31 southbound buisville and IN	44L 45	and I-465 and Li ound I-465 and I 55, Structure No.	ick Creek, Struct Lick Creek, Struc 1465-164-02245	ure No. (I4 ture No. (I	65)31-4	19-0444	19 B
<mark>Bridge No. 1, Cars</mark> Structure/NBI No			42 B (existing)	Suffic	ciency Rating:	93.4 (Ju Report)	y 24, 2	018 Ins	pection
	- -					(Ratin	g, Sour	ce of In	formation)
		Existing	9	Propose	ed				
Bridge Type:		Continuous	steel beam	Continuou	s composite steel	beam			
Number of Span		7		3	1				
Weight Restriction		N/A	ton	N/A	ton				
Height Restrictic Curb to Curb Wi		N/A 35.3	ft. ft.	N/A 36.6	ft. ft.				
Outside to Outsi		38.3	ft.	38.7	ft.				
Shoulder Width:	do Widin.	6	ft.	7	ft.				
Length of Chann	nel Work:	Ü		45*		acts to Lic	c Creek	extend	past this structu
Remarks: Will the structure	The Carson of US 31 (A within a str span continuous vertical grabridge replaimpacts to be rehabilit	Avenue bridge Appendix B-63 ructure on the so ructure on the so ructure on the so ructure on the so ructure of the so ru	e over I-465 is locale over I-465 is locale. Lick Creek is locale outhern end. In order bridge will be rejected by less than two fulvert No. 9, Structure arland Creek. The code as part of the or small structure.	ated at the west of cated under the reler to accommod placed with a 3-feet. Up to 45 leture No. CV 146	end of the I-465/horthern end and date the added tra span continuous inear feet* of Lic 65-049-00.27L, d	I-65 intercl UNT 1 to Evel lanes of composite Ek Creek m iiscussed fu	McFarla on I-465 steel be ay be in inther be	and Cre f, the exeam brid earn brid mpacted elow, re	ek is carried isting 7-dge. The I by this egarding
This is page	10 of 43 P	roject name:	I-465 Reconfig	guration			Da	ate:	February 21, 20

Bridge Type: Reinforced concrete slab N/A N/A Weight Restrictions: 1 N/A ton N/A ton N/A ton Height Restrictions: N/A ft. N/A	ridge No. 2, I-465 Structure/NBI Nur		<u>cland Creek</u> CV I465-049-00.	30	Sufficiency I	Rating:	N/A (Rating,	Source of Info	ormation)
Number of Spans: 1			Existing		Proposed				ŕ
Weight Restrictions: N/A ton N/A ton telegist Restrictions: N/A ton telegist Restrictions: N/A ton telegist Restrictions: N/A ton telegist Restrictions: N/A ton to Curb Width: N/A to	Bridge Type:		Reinforced cond	crete slab	N/A				
Height Restrictions: N/A ft. N/A N			1		N/A				
Dutside to Outside Width: N/A Dutside: 12						1			
Dutside to Outside Width:			1						
Inside: 13 Outside: 12 Outside: 12 Outside: 12 Ength of Channel Work:					_				
Describe bridges and structures; provide specific location information for small structures. Remarks: The 1-465 bridge over McFarland Creek is located 0.031 mile west of Carson Avenue (Appendix B-70). It is a 9-foot high, 200-foot wide reinforced concrete slab bridge with wingwalls and one 18-foot long span. The preferred alternative includes lining the entire width of the channel (240 feet in length) with class one riprap over geotextile, extending the structure to the south by 22 feet to accommodate a lengthened ramp, and replacing the southern wingwall. McFarland Creek runs the width of the bridge, therefore up to 255 feet of the stream may be impacted by this work. Will the structure be rehabilitated or replaced as part of the project? **Yes** No N/A** **Indee No. 3 and 4.1-465 over Lick Creek** Structure/NBI Number(s): **Ides Nos. 3 and 4.1-465 over Lick Creek** Structure/NBI Number(s): **Ides Nos. 3 and 4.1-465 over Lick Creek** Structure/NBI Number(s): **Ides Nos. 3 and 4.1-465 over Lick Creek** Structure/NBI Number(s): **Ides Nos. 3 and 4.1-465 over Lick Creek** Structure/NBI Number(s): **Ides Nos. 3 and 4.1-465 over Lick Creek** Structure/NBI Number(s): **Ides Nos. 3 and 4.1-465 over Lick Creek** Structure/NBI Number(s): **Ides Nos. 3 and 4.1-465 over Lick Creek** Structure/NBI Number(s): **Ides Nos. 3 and 4.1-465 over Lick Creek** Structure/NBI Number(s): **Ides Nos. 3 and 4.1-465 over Lick Creek** Structure/NBI Number(s): **Ides Nos. 3 and 4.1-465 over Lick Creek** **Ides Nos. 3 and 4.1-465 over Lick Creek** **Structure/NBI Number(s): **Ides Nos. 3 and 4.1-465 over Lick Creek** **Ides Nos. 3 and 4		e vviatn:							
Describe bridges and structures; provide specific location information for small structures. Remarks: The I-465 bridge over McFarland Creek is located 0.031 mile west of Carson Avenue (Appendix B-70). It is a 9-foot high, 200-foot wide reinforced concrete slab bridge with wingwalls and one 18-foot long span. The preferred alternative includes lining the entire width of the channel (240 feet in length with class one riprap over geotextile, extending the structure to the south by 22 feet to accommodate a lengthened ramp, and replacing the southern wingwall. McFarland Creek runs the width of the bridge, therefore up to 255 feet of the stream may be impacted by this work. Will the structure be rehabilitated or replaced as part of the project? **Ves** No** N/A** **Ves** No**	snoulder width.			ι.					
Describe bridges and structures; provide specific location information for small structures. Remarks: The I-465 bridge over McFarland Creek is located 0.031 mile west of Carson Avenue (Appendix B-70). It is a 9-foot high, 200-foot wide reinforced concrete slab bridge with wingwalls and one 18-foot long span. The preferred alternative includes lining the entire width of the channel (240 feet in length) with class one riprap over geotextile, extending the structure to the south by 22 feet to accommodate a lengthened ramp, and replacing the southern wingwall. McFarland Creek runs the width of the bridge, therefore up to 255 feet of the stream may be impacted by this work. Will the structure be rehabilitated or replaced as part of the project? Yes No N/A Will the structure be rehabilitated or replaced as part of the project? **Endings Nos. 3 and 4, I-465 over Lick Creek** Structure/NBI Number(s): **Ideges Nos. 3 and 4, I-465 over Lick Creek** Structure/NBI Number(s): **Existing** Proposed** Sufficiency Rating: **Q2.6 (July 24, 2018 Inspection Reports) (Rating, Source of Information) **Existing** Proposed** **Bridge Type: **Continuous prestressed concrete spread box beam **Weight Restrictions: **N/A** **N/A** **It.* **Note, impacts to Lick Creek extend past this st the widened in order to accommodate added travel lanes. According to the approved August 6, 2019 Scour Letter, Lick Creek beneath these bridges is scour-critical, including cracking and undercutting of the existing concrete slope wall. Therefore, approximately 160 linear feet* of Lick Creek will be impacted in this area by the placement	ength of Channe	el Work	Outside, 12						
Remarks: The I-465 bridge over McFarland Creek is located 0.031 mile west of Carson Avenue (Appendix B-70). It is a 9-foot high, 200-foot wide reinforced concrete slab bridge with wingwalls and one 18-foot long span. The preferred alternative includes lining the entire width of the channel (240 feet in length) with class one riprap over geotextile, extending the structure to the south by 22 feet to accommodate a lengthened ramp, and replacing the southern wingwall. McFarland Creek runs the width of the bridge, therefore up to 255 feet of the stream may be impacted by this work. Will the structure be rehabilitated or replaced as part of the project? Yes No N/A Yes No	origin or originic	or vvoin.			233				
idges Nos. 3 and 4, I-465 over Lick Creek tructure/NBI Number(s): 1465-164-04444 DEBL and 1465-164-04444 CWBL									
Existing Proposed Continuous prestressed concrete spread box beam spread box beam Sumber of Spans: Veight Restrictions: N/A Inside: 11.4 Corb to Curb Width: Continuous prestressed concrete spread box beam N/A Inside: 11.4 Corb to Curb Width: Corb Wi	Vill the structure			as part of the pr	oject?			No	N/A
Bridge Type: Continuous prestressed concrete spread box beam Number of Spans: N/A Weight Restrictions: N/A Height Restrictions: N/A Tt. N	ridges Nos. 3 and	be rehabilit	ated or replaced r Lick Creek 1465-164-04444	DEBL and		Rating:	92.6 (July Reports)	24, 2018 Insp	ection
Spread box beam Spread box	ridges Nos. 3 and	be rehabilit	ated or replaced r <u>Lick Creek</u> 1465-164-04444 1465-164-04444	DEBL and	Sufficiency I	Rating:	92.6 (July Reports)	24, 2018 Insp	ection
Neight Restrictions: N/A ton N/A ft. N/A N/A ft. N/A N/A ft. N/A N	ridges Nos. 3 and 4 Structure/NBI Nur	be rehabilit	ated or replaced r Lick Creek 1465-164-04444 1465-164-04444 Existing	DEBL and CWBL	Sufficiency I		92.6 (July Reports) (Rating,	24, 2018 Insp	ection
Reight Restrictions: N/A ft.	idges Nos. 3 and 4 structure/NBI Nur	be rehabilit	r Lick Creek 1465-164-04444 1465-164-04444 Existing Continuous pres	DEBL and CWBL	Sufficiency I Proposed Continuous prestr		92.6 (July Reports) (Rating,	24, 2018 Insp	ection
Surb to Curb Width: 58.1 Sutside to Outside Width: 61.1 Shoulder Width: Outside: 10.7 Inside: 11.4 Ength of Channel Work: Inside: 11.4 Ength of Channel Work: The I-465 bridges over Lick Creek are located 1.21 miles east of US 31 (Appendix B-73). These bridges will be widened in order to accommodate added travel lanes. According to the approved August 6, 2019 Scour Letter, Lick Creek beneath these bridges is scour-critical, including cracking and undercutting of the existing concrete slope wall. Therefore, approximately 160 linear feet* of Lick Creek will be impacted in this area by the placement	idges Nos. 3 and 4 structure/NBI Nur sridge Type:	be rehabilit 4. I-465 ove mber(s):	r Lick Creek 1465-164-04444 1465-164-04444 Existing Continuous presspread box bean	DEBL and CWBL	Sufficiency I Proposed Continuous prestr spread box beam		92.6 (July Reports) (Rating,	24, 2018 Insp	ection
Putside to Outside Width: houlder Width: Outside: 10.7 Inside: 11.4 ength of Channel Work: Inside: 11.4 the continuous provide specific location information for small structures. Remarks: The I-465 bridges over Lick Creek are located 1.21 miles east of US 31 (Appendix B-73). These bridges will be widened in order to accommodate added travel lanes. According to the approved August 6, 2019 Scour Letter, Lick Creek beneath these bridges is scour-critical, including cracking and undercutting of the existing concrete slope wall. Therefore, approximately 160 linear feet* of Lick Creek will be impacted in this area by the placement	ridge Type: lumber of Spans	be rehabilit 4. I-465 ove mber(s):	r Lick Creek 1465-164-04444 1465-164-04444 Existing Continuous presspread box bean 3 N/A	DEBL and CWBL stressed concrete n ton	Proposed Continuous prestr spread box beam 3 N/A	essed conc	92.6 (July Reports) (Rating,	24, 2018 Insp	ection
houlder Width: Outside: 10.7 Inside: 11.4 ength of Channel Work: Describe bridges and structures; provide specific location information for small structures. Remarks: The I-465 bridges over Lick Creek are located 1.21 miles east of US 31 (Appendix B-73). These bridges will be widened in order to accommodate added travel lanes. According to the approved August 6, 2019 Scour Letter, Lick Creek beneath these bridges is scour-critical, including cracking and undercutting of the existing concrete slope wall. Therefore, approximately 160 linear feet* of Lick Creek will be impacted in this area by the placement	ridge Type: lumber of Spans Veight Restriction	be rehabilit 4. I-465 ove mber(s):	r Lick Creek 1465-164-04444 1465-164-04444 Existing Continuous presspread box bean 3 N/A N/A	DEBL and CWBL stressed concrete n ton ft.	Proposed Continuous prestr spread box beam 3 N/A N/A	essed cond	92.6 (July Reports) (Rating,	24, 2018 Insp	ection
Inside: 11.4 ength of Channel Work: Describe bridges and structures; provide specific location information for small structures. Remarks: The I-465 bridges over Lick Creek are located 1.21 miles east of US 31 (Appendix B-73). These bridges will be widened in order to accommodate added travel lanes. According to the approved August 6, 2019 Scour Letter, Lick Creek beneath these bridges is scour-critical, including cracking and undercutting of the existing concrete slope wall. Therefore, approximately 160 linear feet* of Lick Creek will be impacted in this area by the placement	ridge Type: lumber of Spans Veight Restriction leight Restriction leurb to Curb Wid	be rehabilit 4. I-465 ove mber(s):	Existing Continuous presspread box bean 3 N/A N/A 58.1	DEBL and CWBL stressed concrete m ton ft. ft.	Proposed Continuous prestr spread box beam 3 N/A N/A 73.1	essed cond ton ft. ft.	92.6 (July Reports) (Rating,	24, 2018 Insp	ection
Describe bridges and structures; provide specific location information for small structures. Remarks: The I-465 bridges over Lick Creek are located 1.21 miles east of US 31 (Appendix B-73). These bridges will be widened in order to accommodate added travel lanes. According to the approved August 6, 2019 Scour Letter, Lick Creek beneath these bridges is scour-critical, including cracking and undercutting of the existing concrete slope wall. Therefore, approximately 160 linear feet* of Lick Creek will be impacted in this area by the placement	ridge Type: umber of Spans /eight Restriction eight Restriction urb to Curb Wid	be rehabilit 4. I-465 ove mber(s):	r Lick Creek 1465-164-04444 1465-164-04444 Existing Continuous presspread box bean 3 N/A N/A 58.1 61.1	DEBL and CWBL stressed concrete m ton ft. ft. ft.	Proposed Continuous prestr spread box beam 3 N/A N/A 73.1 76.1	ton ft. ft. ft.	92.6 (July Reports) (Rating,	24, 2018 Insp	ection
Describe bridges and structures; provide specific location information for small structures. Remarks: The I-465 bridges over Lick Creek are located 1.21 miles east of US 31 (Appendix B-73). These bridges will be widened in order to accommodate added travel lanes. According to the approved August 6, 2019 Scour Letter, Lick Creek beneath these bridges is scour-critical, including cracking and undercutting of the existing concrete slope wall. Therefore, approximately 160 linear feet* of Lick Creek will be impacted in this area by the placement	ridge Type: umber of Spans /eight Restriction eight Restriction urb to Curb Wid	be rehabilit 4. I-465 ove mber(s):	r Lick Creek 1465-164-04444 1465-164-04444 Existing Continuous presspread box bean 3 N/A N/A 58.1 61.1 Outside: 10.7	DEBL and CWBL stressed concrete m ton ft. ft. ft.	Proposed Continuous prestr spread box beam 3 N/A N/A 73.1 76.1 Outside:13.7	ton ft. ft. ft.	92.6 (July Reports) (Rating,	24, 2018 Insp	ection
Remarks: The I-465 bridges over Lick Creek are located 1.21 miles east of US 31 (Appendix B-73). These bridges will be widened in order to accommodate added travel lanes. According to the approved August 6, 2019 Scour Letter, Lick Creek beneath these bridges is scour-critical, including cracking and undercutting of the existing concrete slope wall. Therefore, approximately 160 linear feet* of Lick Creek will be impacted in this area by the placement	ridge Type: lumber of Spans Veight Restriction eight Restriction eurb to Curb Wide butside to Outside houlder Width:	be rehabilit 4, I-465 over mber(s):	r Lick Creek 1465-164-04444 1465-164-04444 Existing Continuous presspread box bean 3 N/A N/A 58.1 61.1 Outside: 10.7	DEBL and CWBL stressed concrete m ton ft. ft. ft.	Proposed Continuous prestrespread box beam 3 N/A N/A 73.1 76.1 Outside:13.7 Inside: 11.4	ton ft. ft. ft. ft.	92.6 (July Reports) (Rating,	24, 2018 Insp	ection ormation)
widened in order to accommodate added travel lanes. According to the approved August 6, 2019 Scour Letter, Lick Creek beneath these bridges is scour-critical, including cracking and undercutting of the existing concrete slope wall. Therefore, approximately 160 linear feet* of Lick Creek will be impacted in this area by the placement	ridge Type: umber of Spans /eight Restriction eight Restriction urb to Curb Widi utside to Outside	be rehabilit 4, I-465 over mber(s):	r Lick Creek 1465-164-04444 1465-164-04444 Existing Continuous presspread box bean 3 N/A N/A 58.1 61.1 Outside: 10.7	DEBL and CWBL stressed concrete m ton ft. ft. ft.	Proposed Continuous prestrespread box beam 3 N/A N/A 73.1 76.1 Outside:13.7 Inside: 11.4	ton ft. ft. ft. ft.	92.6 (July Reports) (Rating,	24, 2018 Insp	ection ormation)
Lick Creek beneath these bridges is scour-critical, including cracking and undercutting of the existing concrete slope wall. Therefore, approximately 160 linear feet* of Lick Creek will be impacted in this area by the placement	ridge Type: umber of Spans /eight Restriction eight Restriction urb to Curb Widi outside to Outside houlder Width:	be rehabilit 4, I-465 over mber(s):	Existing Continuous presspread box bean 3 N/A N/A 58.1 G1.1 Outside: 10.7 Inside: 11.4	DEBL and CWBL stressed concrete m ton ft. ft. ft. ft.	Proposed Continuous prestr spread box beam 3 N/A N/A 73.1 76.1 Outside:13.7 Inside: 11.4 160*	ton ft. ft. ft. ft. ft.	92.6 (July Reports) (Rating,	24, 2018 Insp	ection ormation)
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	ridge Type: umber of Spans /eight Restriction eight Restriction urb to Curb Widi utside to Outside houlder Width: ength of Channe Describe bri Remarks:	be rehabilit 4. I-465 over mber(s): :: ns: ns: th: e Width: idges and s The I-465 t widened in	Existing Continuous presspread box bean 3 N/A N/A 58.1 61.1 Outside: 10.7 Inside: 11.4 tructures; provider order to accomm	DEBL and CWBL stressed concrete ton ft. ft. ft. ft. ft. creek are located added trave	Sufficiency F Proposed Continuous prestres spread box beam 3 N/A N/A 73.1 76.1 Outside:13.7 Inside: 11.4 160* Information for some set of the lanes. According	ton ft. ft. ft. ft. st. ft. *Not mall struc US 31 (Ap to the app	92.6 (July Reports) (Rating, rete e, impacts t tures. pendix B-7	24, 2018 Insp Source of Info o Lick Creek 6 3). These brid ust 6, 2019 So	ection prmation) extend past this struges will be cour Letter,
of Class 1 riprap and replacement of the cracked concrete slope wall.	ridge Type: umber of Spans /eight Restriction eight Restriction urb to Curb Widi utside to Outside houlder Width: ength of Channe Describe bri Remarks:	be rehabilit 4. I-465 ove mber(s): :: ns: ns: th: e Width: idges and s The I-465 t widened in Lick Creek	Existing Continuous presspread box bean 3 N/A N/A 58.1 61.1 Outside: 10.7 Inside: 11.4 tructures; provideridges over Lick order to accomm beneath these bri	DEBL and CWBL stressed concrete ton ft. ft. ft. ft. ft. ft. creek are located addate added trave idges is scour-crit	Sufficiency F Proposed Continuous prestrespread box beam 3 N/A N/A 73.1 76.1 Outside:13.7 Inside: 11.4 160* Information for sell lanes. According ical, including crack	ton ft. ft. ft. ft. ft. st. ft. *Not mall struct US 31 (Ap to the app king and to	92.6 (July Reports) (Rating, rete e, impacts t tures. pendix B-7 roved Augundercutting	24, 2018 Insp Source of Info o Lick Creek of 3). These brid ust 6, 2019 So g of the existin	ection prmation) extend past this struges will be cour Letter, ag concrete
	ridge Type: umber of Spans /eight Restriction eight Restriction urb to Curb Widi utside to Outside houlder Width: ength of Channe Describe bri Remarks:	be rehabilit 4, I-465 ove mber(s): :: ns: ns: th: e Width: idges and s The I-465 t widened in Lick Creek slope wall.	Existing Continuous presspread box bean 3 N/A N/A 58.1 61.1 Outside: 10.7 Inside: 11.4 tructures; provideridges over Lick order to accomm beneath these britherefore, approx	DEBL and CWBL stressed concrete m ton ft. ft. ft. ft. ft. ft. creek are located added trave added trave addes is scour-crit imately 160 linear	Sufficiency F Proposed Continuous prestrespread box beam 3 N/A N/A 73.1 76.1 Outside:13.7 Inside: 11.4 160* Information for some season of the lanes. According it including cracking feet* of Lick Creek	ton ft. ft. ft. ft. ft. structus 31 (Apto the appking and use will be in	92.6 (July Reports) (Rating, rete e, impacts t tures. pendix B-7 roved Augundercutting	24, 2018 Insp Source of Info o Lick Creek of 3). These brid ust 6, 2019 So g of the existin	ection prmation) extend past this struges will be cour Letter, ag concrete
	Bridges Nos. 3 and a Structure/NBI Nur Bridge Type: Jumber of Spans Veight Restriction Leight Restriction Curb to Curb Widt Dutside to Outside Shoulder Width: Length of Channe Describe bri Remarks:	be rehabilit 4, I-465 ove mber(s): :: ns: ns: th: e Width: idges and s The I-465 t widened in Lick Creek slope wall.	Existing Continuous presspread box bean 3 N/A N/A 58.1 61.1 Outside: 10.7 Inside: 11.4 tructures; provideridges over Lick order to accomm beneath these britherefore, approx	DEBL and CWBL stressed concrete m ton ft. ft. ft. ft. ft. ft. creek are located added trave added trave addes is scour-crit imately 160 linear	Sufficiency F Proposed Continuous prestrespread box beam 3 N/A N/A 73.1 76.1 Outside:13.7 Inside: 11.4 160* Information for some season of the lanes. According it including cracking feet* of Lick Creek	ton ft. ft. ft. ft. ft. structus 31 (Apto the appking and use will be in	92.6 (July Reports) (Rating, rete e, impacts t tures. pendix B-7 roved Augundercutting	24, 2018 Insp Source of Info o Lick Creek of 3). These brid ust 6, 2019 So g of the existin	ection prmation) extend past this struges will be cour Letter, ag concrete
Vill the structure be rehabilitated or replaced as part of the project? X	Bridges Nos. 3 and a Bridge Type: Sumber of Spans Veight Restriction Gurb to Curb Widd Dutside to Outside Shoulder Width: Length of Channe Describe bri Remarks:	be rehabilit 4, I-465 ove mber(s): :: ns: ns: th: e Width: idges and s The I-465 t widened in Lick Creek slope wall.	Existing Continuous presspread box bean 3 N/A N/A 58.1 61.1 Outside: 10.7 Inside: 11.4 tructures; provideridges over Lick order to accomm beneath these britherefore, approx	DEBL and CWBL stressed concrete m ton ft. ft. ft. ft. ft. ft. creek are located added trave added trave addes is scour-crit imately 160 linear	Sufficiency F Proposed Continuous prestrespread box beam 3 N/A N/A 73.1 76.1 Outside:13.7 Inside: 11.4 160* Information for some season of the lanes. According iteal, including cracles feet* of Lick Creek	ton ft. ft. ft. ft. ft. structus 31 (Apto the appking and use will be in	92.6 (July Reports) (Rating, rete e, impacts to tures. pendix B-7 roved Augumdercutting impacted in to the second	24, 2018 Insp Source of Info o Lick Creek of 3). These brid ast 6, 2019 So g of the existin his area by the	ges will be cour Letter, ag concrete e placement

ridge No. 5, Keyston Structure/NBI Numb	er(s).	I465-164-047	798 A (existing) 255 (proposed)	Suffic	iency Rating:	68.6 (July Report)			
						(Rating	g, Source	of Inform	nation)
		Existing	g	Propose	ed				
Bridge Type:		Continuous	steel beam		s composite bear	n			
Number of Spans:		4	1	2	4				
Veight Restrictions: Height Restrictions:		N/A N/A	ton ft.	N/A N/A	ton ft.				
Curb to Curb Width:		52.0	ft.	60.0	ft.				
Outside to Outside \		78.3	ft.	78.0	ft.				
Shoulder Width:	· · · · · · · · · · · · · · · · · · ·	N/A	ft.	N/A	ft.				
ength of Channel V	Nork:	1,112		N/A	ft.				
				ocation informations located 0.68 miles			archange	(Annendi	v R-77)
In	order to	accommodate	added travel lan	es on I-465, the essite beam bridge.	xisting 4-span co	ontinuous st	teel bean	structure	e will be
	he existin	a bridge has 1	-foot sidewalks	on oook aido with	a 16 foot raised	median in t	the cente	r. The ne	w bridge
W	ill have 8-	foot sidewalks	s on each side an	d a 12-foot raised		riter. Yes		No	N/A
Vill the structure be	ill have 8- rehabilit	foot sidewalks	s on each side an ced as part of th	d a 12-foot raised he project?		Yes X 89.6 (July Report)		8 Inspect	ion
Vill the structure be	ill have 8- rehabilit	ated or replace and Lick Cre 031-49-04448	s on each side an ced as part of the ek 8 C	d a 12-foot raised he project? Suffice	median in the ce	Yes X 89.6 (July Report)			ion
will the structure be	ill have 8- rehabilit	ated or replace and Lick Cre 031-49-04448	s on each side an ced as part of the ek 8 C	d a 12-foot raised he project? Suffice Propose	median in the ce	Yes X 89.6 (July Report)		8 Inspect	ion
will the structure be idge No. 8, US 31 or structure/NBI Numberridge Type:	ill have 8- rehabilit	ated or replace and Lick Cre 031-49-04448 Existing	s on each side an ced as part of the ek 8 C	d a 12-foot raised he project? Suffice Propose N/A	median in the ce	Yes X 89.6 (July Report)		8 Inspect	ion
will the structure be idge No. 8, US 31 or structure/NBI Number of Spans:	ill have 8- rehabilit ver I-465 per(s):	and Lick Cre 031-49-04448 Existing	s on each side an ced as part of the ced as part of	d a 12-foot raised he project? Suffice Propose N/A N/A	median in the ce	Yes X 89.6 (July Report)		8 Inspect	ion
/ill the structure be idge No. 8, US 31 or tructure/NBI Numb ridge Type: lumber of Spans: /eight Restrictions:	rehabilit ver I-465 per(s):	and Lick Cre 031-49-04448 Existing Steel continu	s on each side an ced as part of the ced as part of	d a 12-foot raised he project? Suffice Propose N/A N/A N/A	median in the ce	Yes X 89.6 (July Report)		8 Inspect	ion
/ill the structure be idge No. 8, US 31 or tructure/NBI Numb ridge Type: umber of Spans: /eight Restrictions:	rehabilit ver I-465 per(s):	and Lick Cre 031-49-04448 Existing Steel continue 7 N/A N/A	s on each side an ced as part of the ced as part of	d a 12-foot raised he project? Suffice Propose N/A N/A N/A N/A N/A	iency Rating: ton ft.	Yes X 89.6 (July Report)		8 Inspect	ion
will the structure be idge No. 8, US 31 or structure/NBI Number of Spans: Veight Restrictions: Eurob to Curb Width:	rehabilit ver I-465 per(s):	and Lick Cre 031-49-04448 Existing Steel continue 7 N/A N/A 78.0	s on each side an ced as part of the ced as part of	d a 12-foot raised he project? Suffice Propose N/A N/A N/A N/A N/A N/A	iency Rating: ton ft. ft.	Yes X 89.6 (July Report)		8 Inspect	ion
vill the structure be didge No. 8, US 31 out tructure/NBI Number of Spans: Veight Restrictions: eight Restrictions: out to Curb Width: butside to Outside N	rehabilit ver I-465 per(s):	and Lick Cre 031-49-04448 Existing Steel continue 7 N/A N/A	s on each side and ced as part of the ced as part o	d a 12-foot raised he project? Suffice Propose N/A N/A N/A N/A N/A	iency Rating: ton ft.	Yes X 89.6 (July Report)		8 Inspect	ion
Will the structure be ridge No. 8, US 31 over the structure of Structure of Spans: Veight Restrictions: Dutside to Outside to Shoulder Width:	rehabilit ver I-465 per(s): Width:	and Lick Cre 031-49-04448 Existing Steel continuon 7 N/A N/A 78.0 85.0	s on each side an ced as part of the ced as part of	he project? Suffice Propose N/A N/A N/A N/A N/A N/A N/A N/	iency Rating: ton ft. ft. ft.	Yes X 89.6 (July Report) (Rating	g, Source	8 Inspect	ion nation)
Will the structure be sidge No. 8, US 31 or Structure/NBI Numb Bridge Type: Number of Spans: Veight Restrictions: Leight Restrictions: Curb to Curb Width: Dutside to Outside Vishoulder Width: Length of Channel Vishoulder bridge	ill have 8- rehabilit ver I-465 per(s): Width: Work:	ated or replace and Lick Cree 031-49-04448 Existing Steel continue 7 N/A N/A 78.0 85.0 4.0	g uous ton ft. ft. ft. ft. ft. ovide specific lo	A da 12-foot raised The project? Suffice Propose N/A N/A N/A N/A N/A N/A N/A N/	iency Rating: ton ft.	Yes X 89.6 (July Report) (Rating	g, Source	8 Inspect of Inform	ion nation)
Will the structure be ridge No. 8, US 31 or Structure/NBI Numb Bridge Type: Number of Spans: Weight Restrictions: Leight Restrictions: Curb to Curb Width: Dutside to Outside Vidth: Length of Channel Vidth: Describe bridge Remarks:	rehabilit ver I-465 per(s): Width: Work:	ated or replace and Lick Cree 031-49-04448 Existing Steel continue 7 N/A N/A 78.0 85.0 4.0 tructures; probridge over I-4	g uous ton ft.	Propose N/A N/A N/A N/A N/A N/A N/A N/A N/A N/	ton ft.	Yes X 89.6 (July Report) (Rating	mpacted o	8 Inspect of Inform	ion nation)
Vill the structure be sidge No. 8, US 31 or Structure/NBI Numb Structure/NBI Numb Structure/NBI Numb Structure/NBI Numb Structure/NBI Number of Spans: Veight Restrictions: Leight Restrictions: Curb to Curb Width: Dutside to Outside Vidth: Length of Channel Videnarks: Describe bridg Remarks: Till Witter Till The Structure of Shoulder Width: The Company of The Structure of Shoulder Width: The Structure of Shoulder Width: The Company of The Structure of Shoulder Width: The Structure of Shoul	rehabilit ver I-465 per(s): Width: Work: ges and s he US 31 ork is propaccommon	ated or replace and Lick Cree 031-49-04448 Existing Steel continue 7 N/A N/A 78.0 85.0 4.0 tructures; probridge over I-4 posed for this loadet an auxilia	g uous ton ft. ft. ft. ft. ft. ft. ft. ft. ft. and Lick Crebridge, except the ary lane that will	he project? Suffice Propose N/A N/A N/A N/A N/A N/A N/A N/	ton ft. ft. ft. ft. ft. ft. ft. gram for small struenthe I-465/US 3 will be remove the proper for eastbound	89.6 (July Report) (Rating Ctures. I interchaned and replated and repl	mpacted of the second with the	8 Inspect of Inform elsewhere endix B-8 a a retainin	ion nation) in the project 3). No ng wall ast
Vill the structure be sidge No. 8, US 31 or Structure/NBI Number of Spans: Veight Restrictions: Height Restrictions: Ourb to Curb Width: Outside to Outside Vishoulder Width: Length of Channel Vishoulder Width:	rehabilit ver I-465 per(s): Width: Work: ges and s he US 31 ork is propaccommon accommon	and Lick Cre 031-49-04448 Existing Steel continum 7 N/A N/A 78.0 85.0 4.0 tructures; probridge over I-4 posed for this lodate an auxiliain this section	g uous ton ft. ft. ft. ft. ft. ft. ft. ft. ft. and Lick Crebridge, except the ary lane that will	he project? Suffice Propose N/A N/A N/A N/A N/A N/A N/A N/	ton ft. ft. ft. ft. ft. ft. ft. gradient for small struenthe I-465/US 3 we will be remove the proper for eastbound	89.6 (July Report) (Rating Ctures. I interchaned and replated and repl	mpacted of the second with the	8 Inspect of Inform elsewhere endix B-8 a a retainin	ion nation) in the project 3). No ng wall ast

County	Marion	Route	I-465	Des. No1802075
Rridge No. (9, I-465 Eastbound	Lover Lick Crook		
	NBI Number(s):	1465-163-04447 CEBL	Sufficiency Rating:	92.6 (July 25, 2019 Inspection Report)
				(Rating, Source of Information)
		Existing	Proposed	
Bridge Ty		Steel continuous	N/A	
Number o		3	N/A	
Weight Re		N/A ton N/A ft.	N/A ton N/A ft.	
	urb Width:	N/A ft. 73.0 ft.	N/A ft.	
	Outside Width:	76.0 ft.	N/A ft.	
Shoulder \	Width:	12 ft.	N/A ft.	
Length of	Channel Work:		0.0* ft. *Note, Lick	Creek is impacted elsewhere in the project are
	narks: The I-465 of Section	structures; provide specific locati Eastbound bridge over Lick Creek is A/B (Appendix B-59). The only wo within Lick Creek in this area.	s located 0.38 mile east of the I	I-465/US 31 interchange, near the end
Will the st	ructure be rehabil	itated or replaced as part of the p	project?	Yes No N/A
Bridge No.	10, Madison Aveni	ue over I-465 and Lick Creek		
Structure/	NBI Number(s):	(I465)431-49-04445 B (existing) I465(431)-49-10517 (proposed)	Sufficiency Rating:	90.7 (July 25, 2018 Inspection Report)
				(Rating, Source of Information)
		Existing	Proposed	
Bridge Ty		Steel beam	Continuous composite steel girder	plate
Number o		6	3	
Weight Re		N/A ton	N/A ton	
Height Re	urb Width:	N/A ft. 56.0 ft.	N/A ft. 66.0 ft.	
	Outside Width:	79.0 ft.	81.1 ft.	
Shoulder \		5.0 ft.	5.0 ft.	
Length of	Channel Work:		90* ft. *Note, imp	acts to Lick Creek extend past this structure.
		structures; provide specific locati		
Rem	(Appendix	son Avenue bridge over I-465 and Li B-85). In order to accommodate add d with a 3-span, continuous composi	ded travel lanes on I-465, the e	east of the 1-465/US 31 interchange xisting 6-span steel beam bridge will
				5.3 feet wide. The proposed structure
				ide sidewalks. The vertical grade will
	be raised b	by less than two feet. Up to 90 linear	feet* of Lick Creek may be im	pacted by this bridge replacement.
Will the st	ructure be rehabil	itated or replaced as part of the p	project?	Yes No N/A
This is	page 13 of 43	Project name: I-465 Reconfigu	ıration	Date: February 21, 2020

County Mari	on		Route _	I-465		Des. No.	1802075	_
Duidas Nos. 12 and	114 T 465 on	on Indiana Ca	outhour (IC) Doileo	ad and SD 47 (W	Zamturalius Ausan			
Bridge Nos. 13 and Structure/NBI Nu		1465-156-021 1465-156-021	52 JBNB		ency Rating:	90.7 (August 20 Reports)	0, 2018 Inspection	
						(Rating, Sour	ce of Information)	
		Existing	g	Proposed	İ			
Bridge Type:		Continuous	steel	N/A				
Number of Spans	s:	5		N/A				
Weight Restriction		N/A	ton	N/A	ton			
Height Restriction		N/A	ft.	N/A	ft.			
Curb to Curb Wid		72.5	ft.	N/A	ft.			
Outside to Outsid	de Width:	75.1	ft.	N/A	ft.			
Shoulder Width:		Outside: 12 Inside: 17.7		Outside: 1				
Length of Channe	el Work:	Inside: 17.7.	5	Inside: 4.7	ft.			
			_	0.0				
Describe br	ridges and s	tructures; pro	ovide specific locat	tion information	for small stru	ctures.		
Remarks:							S railroad and SR 67	
	-	Avenue). The der (Appendix	-	inside shoulder	will be conve	rted to a travel la	ane with a 4.75 foot	
				~			carried in a culvert	
	beneath the	twin bridges'	cut wall. No work is	s proposed on SR	R 67, the bridge	s, nor the culvert.		
VACII dis a satura da ma	b =b = b 204	-411-		:		Yes	No N/A	
will the structure	be renabilit	ated or repla	ced as part of the	project?			X	
Dridge No. 15 Mee	anogrilla Dag							
Diluge No. 15, Moc	ji esvine Koa	d Dymogg over	T <i>165</i>					
		d Bypass over						
Structure/NBI Nu		I465-157-047	721 B (existing)	Sufficie	ency Rating:	N/Δ		
Structure/NBI Nu		I465-157-047		Sufficie	ency Rating:	N/A (Rating, Sour	ce of Information)	
Structure/NBI Nu		I465-157-047 I465-157-105	721 B (existing) 516 (proposed)				rce of Information)	
Structure/NBI Nu		I465-157-047	721 B (existing) 516 (proposed)	Sufficie ———Proposed			ce of Information)	
		I465-157-047 I465-157-105	721 B (existing) 516 (proposed)	Proposed	I	(Rating, Sour	rce of Information)	
Structure/NBI Nu Bridge Type:		I465-157-047 I465-157-105	721 B (existing) 516 (proposed)	Proposed Composite p	l prestressed cond	(Rating, Sour	rce of Information)	
	ımber(s): -	I465-157-047 I465-157-105	721 B (existing) 516 (proposed)	Proposed	l prestressed cond	(Rating, Sour	rce of Information)	
Bridge Type:	s:	I465-157-047 I465-157-105 Existing	721 B (existing) 516 (proposed)	Proposed Composite p bulb-tee bea	l prestressed cond	(Rating, Sour	ce of Information)	
Bridge Type: Number of Spans Weight Restriction Height Restriction	s: ons: ns:	I465-157-047 I465-157-105 Existing Concrete gin	221 B (existing) 516 (proposed) g	Proposed Composite p bulb-tee bea 2 N/A	orestressed cond m	(Rating, Sour	ce of Information)	
Bridge Type: Number of Spans Weight Restrictio Height Restrictio Curb to Curb Wic	s: ons: ns:	Existing Concrete gin 4 N/A N/A 30.4	221 B (existing) 516 (proposed) g rder ton	Composite p bulb-tee bea 2 N/A N/A 32.6	orestressed cond m ton ft.	(Rating, Sour	ce of Information)	
Bridge Type: Number of Spans Weight Restriction Height Restriction Curb to Curb Wid	s: ons: ns:	I465-157-047 I465-157-105 Existing Concrete gin 4 N/A N/A	g (existing) g (file (proposed) g (file (proposed)) ton (file (file (file (proposed))) file (proposed)	Composite p bulb-tee bea 2 N/A N/A 32.6 34.6	orestressed cond m ton ft. ft. ft.	(Rating, Sour	rce of Information)	
Bridge Type: Number of Spans Weight Restriction Height Restriction Curb to Curb Wid Outside to Outsid Shoulder Width:	s: ons: ns: dth:	Existing Concrete gin 4 N/A N/A 30.4	g ton ft. ft.	Composite p bulb-tee bea 2 N/A N/A 32.6 34.6 6	ton ft. ft. ft. ft.	(Rating, Sour		
Bridge Type: Number of Spans Weight Restriction Height Restriction Curb to Curb Wid	s: ons: ns: dth:	Existing Concrete gin 4 N/A N/A 30.4 33.5	g (existing) g (file (proposed) g (file (proposed)) ton (file (file (file (proposed))) file (proposed)	Composite p bulb-tee bea 2 N/A N/A 32.6 34.6 6	ton ft.	(Rating, Sour	ce of Information)	o State Ditch
Bridge Type: Number of Spans Weight Restriction Height Restriction Curb to Curb Wid Outside to Outside Shoulder Width: Length of Channe	s: ons: dth: de Width:	Existing Concrete gin 4 N/A N/A 30.4 33.5 6	gg rder ton ft. ft. ft. ft.	Composite p bulb-tee bea 2 N/A N/A 32.6 34.6 6 300*	ton ft. ft. ft. ft. ft. ft. ft. extend pa	(Rating, Sour		o State Ditch
Bridge Type: Number of Spans Weight Restrictio Height Restrictio Curb to Curb Wic Outside to Outside Shoulder Width: Length of Channe	s: ons: dth: de Width: el Work:	Existing Concrete gin 4 N/A N/A 30.4 33.5 6 tructures; pro	g rder ton ft. ft. ft. ft. ft. ovide specific locate	Proposed Composite p bulb-tee bea 2 N/A N/A 32.6 34.6 6 300* tion information	ton ft.	(Rating, Sour crete cts to UNT 1 to Sast this structure.	State Ditch and UNT 2 to	o State Ditch
Bridge Type: Number of Spans Weight Restriction Height Restriction Curb to Curb Wid Outside to Outside Shoulder Width: Length of Channe	s: ons: oth: de Width: el Work: ridges and s The Moore	Concrete gin 4 N/A 30.4 33.5 6	g rder ton ft. ft. ft. ft. ft. gvide specific locat ypass bridge over I-	Proposed Composite p bulb-tee bea 2 N/A N/A 32.6 34.6 6 300* tion information 465 is located 0.	ton ft. ft. ft. *Note, impa extend po	(Rating, Sour crete crete ctures.	State Ditch and UNT 2 to ix B-91). In order to	o State Ditch
Bridge Type: Number of Spans Weight Restrictio Height Restrictio Curb to Curb Wic Outside to Outside Shoulder Width: Length of Channe	s: ons: ons: de Width: el Work: ridges and s The Moore: accommoda	Concrete gin 4 N/A N/A 30.4 33.5 6 tructures; prosville Road By the additional t	g rder ton ft. ft. ft. ft. ft. pvide specific locate typass bridge over I- ravel lanes on the in	Composite p bulb-tee bea 2 N/A N/A 32.6 34.6 6 300*	ton ft. ft. ft. ft. ft.*Note, impa extend po for small stru 34 mile east of I-465, the exist	(Rating, Sour crete crete ctures. Sector of S	state Ditch and UNT 2 to ix B-91). In order to ete girder bridge will	o State Ditch
Bridge Type: Number of Spans Weight Restrictio Height Restrictio Curb to Curb Wic Outside to Outside Shoulder Width: Length of Channe	s: ons: ns: de Width: el Work: The Moore: accommoda be replaced	Concrete gin 4 N/A 30.4 33.5 6 tructures; prosville Road By the additional t with a 2-spar	g rder ton ft. ft. ft. ft. ft. pvide specific locate typass bridge over I- ravel lanes on the in	Proposed Composite p bulb-tee bea 2 N/A N/A 32.6 34.6 6 300* tion information 465 is located 0. aside shoulder of seed concrete bul	ton ft. ft. ft. ft. ft. ft. ft. ft. a extend pa for small stru 34 mile east of 1-465, the exist b-tee beam bri	(Rating, Sour crete crete ctures. Sector of S	State Ditch and UNT 2 to ix B-91). In order to	o State Ditch
Bridge Type: Number of Spans Weight Restrictio Height Restrictio Curb to Curb Wic Outside to Outsic Shoulder Width: Length of Channe	s: ons: ns: de Width: el Work: The Moore: accommoda be replaced	Concrete gin 4 N/A 30.4 33.5 6 tructures; prosville Road By the additional t with a 2-spar	ton ft. ft. ft. ft. ft. ft. ryvide specific locate pass bridge over I- ravel lanes on the in a composite prestres	Proposed Composite p bulb-tee bea 2 N/A N/A 32.6 34.6 6 300* tion information 465 is located 0. aside shoulder of seed concrete bul	ton ft. ft. ft. ft. ft. ft. ft. ft. a extend pa for small stru 34 mile east of 1-465, the exist b-tee beam bri	(Rating, Sour crete crete ctures. Sector of S	state Ditch and UNT 2 to ix B-91). In order to ete girder bridge will	o State Ditch
Bridge Type: Number of Spans Weight Restrictio Height Restrictio Curb to Curb Wic Outside to Outside Shoulder Width: Length of Channe	s: ons: ons: dth: de Width: el Work: The Moore: accommoda be replaced by less than	Existing Concrete gin 4 N/A N/A 30.4 33.5 6 tructures; prosville Road By the additional twith a 2-spar two feet. Imp	g rder ton ft. ft. ft. ft. ft. ft. ft. ton ton in composite prestres acts will be narrowed UNT 2 to State D	Proposed Composite p bulb-tee bea 2 N/A N/A 32.6 34.6 6 300* tion information 465 is located 0. side shoulder of seed concrete bulled by the use of reliated are located at the seed of the	ton ft.	(Rating, Sour Retrete Present Structure). Control of the Structure. Contr	ix B-91). In order to ete girder bridge will grade will be raised of I-465 beneath the	o State Ditch
Bridge Type: Number of Spans Weight Restrictio Height Restrictio Curb to Curb Wic Outside to Outsic Shoulder Width: Length of Channe	s: ons: ons: dth: de Width: el Work: ridges and s The Moore: accommoda be replaced by less than UNT 1 to S bridge. UN'	Existing Concrete gin 4 N/A N/A 30.4 33.5 6 tructures; prosville Road By attenditional to with a 2-spart two feet. Impostate Ditch and Γ 3 to State D	g rder ton ft. ft. ft. ft. ft. ft. ft. ton ton it composite prestres acts will be narrowe the UNT 2 to State D itch is in the southw	Proposed Composite p bulb-tee beat 2 N/A N/A 32.6 34.6 6 300* tion information 465 is located 0. side shoulder of seed concrete bull and by the use of reliated a vest quadrant, UN	ton ft.	(Rating, Sour crete cret	ix B-91). In order to ete girder bridge will grade will be raised of I-465 beneath the thwest quadrant, and	o State Ditch
Bridge Type: Number of Spans Weight Restrictio Height Restrictio Curb to Curb Wic Outside to Outsic Shoulder Width: Length of Channe	s: ons: ons: dth: de Width: el Work: ridges and s The Moore: accommoda be replaced by less than UNT 1 to S bridge. UN'	Existing Concrete gin 4 N/A N/A 30.4 33.5 6 tructures; prosville Road By attenditional to with a 2-spart two feet. Impostate Ditch and Γ 3 to State D	g rder ton ft. ft. ft. ft. ft. ft. ft. ton ton it composite prestres acts will be narrowe the UNT 2 to State D itch is in the southw	Proposed Composite p bulb-tee beat 2 N/A N/A 32.6 34.6 6 300* tion information 465 is located 0. side shoulder of seed concrete bull and by the use of relief are located a vest quadrant, UN	ton ft.	(Rating, Sour crete cret	ix B-91). In order to ete girder bridge will grade will be raised of I-465 beneath the	o State Ditch
Bridge Type: Number of Spans Weight Restrictio Height Restrictio Curb to Curb Wic Outside to Outsic Shoulder Width: Length of Channe	s: ons: ons: dth: de Width: el Work: ridges and s The Moore: accommoda be replaced by less than UNT 1 to S bridge. UN'	Existing Concrete gin 4 N/A N/A 30.4 33.5 6 tructures; prosville Road By attenditional to with a 2-spart two feet. Impostate Ditch and Γ 3 to State D	g rder ton ft. ft. ft. ft. ft. ft. ft. ton ton it composite prestres acts will be narrowe the UNT 2 to State D itch is in the southw	Proposed Composite p bulb-tee beat 2 N/A N/A 32.6 34.6 6 300* tion information 465 is located 0. side shoulder of seed concrete bull and by the use of relief are located a vest quadrant, UN	ton ft.	(Rating, Sour crete cret	ix B-91). In order to ete girder bridge will grade will be raised of I-465 beneath the thwest quadrant, and	o State Ditch

County Ma	rion		Route	I-465		Des. No.	1802075	
		te 18-inch metal pipes feet* of impacts to UN			_	-	-	ruction.
Will the structur	e be rehabili	tated or replaced as	part of the	e project?		Yes X	No	N/A
Culvert No. 5, I-4	65 Culvert							
Structure/NBI N		CV I465-049-02.05		Suffi	ciency Rating:	N/A		
	()				, ,		rce of Informa	ation)
		Existing		Propos	ed			
Bridge Type:		CMP		N/A				
Number of Spa	ns:	N/A		N/A				
Weight Restrict		N/A ton		N/A	ton			
Height Restricti	ons:	N/A ft.		N/A	ft.			
Curb to Curb W		N/A ft.		N/A	ft.			
Outside to Outs		N/A ft.		N/A	ft.			
Shoulder Width		N/A ft.		N/A	ft.			
Length of Chan	nel Work:			N/A	ft.			
Remarks:	Small Structo northbou This pipe c contractor I	structures; provide softure No. CV I465-049 and US 31 (Appendix arries a non-jurisdiction has six approved option High density polyethylatiameter smooth pipe at A cured-in-place pipe (notall a 5-inch paved in Replace existing with a Replace existing with a Replace existing with a lay, Class 2 riprap will stated or replaced as	O-02.05 is logarithms be added at part of the part of	ocated beneath a 66-inch diam ge feature. Per to the existing r that has a wall 1.75-foot inner er diameter corrided diameter sm 5-foot reinforce the outlet.	westbound I-465 eter corrugated me he approved June nner diameter of thickness of 1.5 idiameter smooth ugated pipe with a 60 thickness with a 60 thickness of 1.5 idiameter smooth ugated pipe with a 60 thickness with a 60 thickness of 1.5 idiameter smooth grant with a 60 thickness of 1.5 idiameter smooth pipe with a 60 thickness o	and the ramp from tetal pipe (CMP) to 10, 2019 hydraul 4.27 feet. Install a sinches and a head pipe adjacent to a 6-inch sump 6-inch sump	that is 176 fee lic memo, the a 3-foot inner wall at the inl the existing	t long.
		5 over UNT 14 to Lic CV I465-049-01.97	k Creek	Suffi	ciency Rating:	N/A (Rating, Sour	rce of Informa	ation)
		Existing		Propos	ed			·
Bridge Type:		CMP		N/A		1		
Number of Spa	ns.	N/A		N/A				
Weight Restrict		N/A ton		N/A	Ton			
Height Restricti		N/A ft.		N/A	ft.			
Curb to Curb W		N/A ft.		N/A	ft.			
Outside to Outs		N/A ft.		N/A	ft.			
Shoulder Width		N/A ft.		N/A	ft.			
Length of Chan				187*		pacts to UNT 14 to	o Lick Creek	extend past this
This is page	15 of 43 F	Project name: _ I-4	.65 Reconfi	guration			Date: Febr	uary 21, 2020

County	Marion		Route	I-465		Des.	No.	1802075	
Desc Rema	Arks: Small Stru (Appendix September	structures; provided in ture No. CV 1465-6x B-56). It is a 60-in r 9, 2019 hydraulic HDPE Liner (48-incompacity pipe adjaced CIPP Liner (1.5-incompacity pipe adjaced in the seplace existing with the separate exists with the seplace ex	ch CMP that is ch CMP that is the CMP that is the control of the control of the control of the children of the	located beneath east 177 feet long. The antractor has sever meter/45-inch insting, 177 feet long 18-inch smooth repound corrugated pound smooth pipe	astbound I-465, This pipe carries al options to lin ide diameter) w sound added cap pipe, 177 feet long	, 0.310 mile s UNT 14 to ne or replace with 42-inch spacity pipe abong with a 6-inch with a 6-inch	Lick Countries the structure of the sump	reek. Per the acture: round added e existing, 17 mp and conci	7 feet rete
Culvert No. '	7, Westbound I-4	65 over UNT 11 to	Lick Creek		Dating	Yes X		No	N/A
Structure/iv	ibi Number(s).	CV I465-049-01.9	<u>U</u>	Sufficiency	Raung.	N/A (Ratin	g, Sour	ce of Informa	tion)
		Existing		Propose	d				
Bridge Typ	e:	CMP		N/A					
Number of		N/A		N/A					
Weight Re		N/A to	n	N/A	ton				
Height Res		N/A ft.		N/A	ft.				
Curb to Cu		N/A ft.		N/A	ft.				
	Outside Width:	N/A ft.		N/A	ft.				
Shoulder V		N/A ft.		N/A	ft.				
	Channel Work:	IV/A II.		160*	-	mosts to LINI	Г 11 +0	Lials Charles	ritand most this
Lengin or C	Jilalillei Wolk.			100**	structur	-	1 11 to	Lick Creek e	xtend past this
Rema	Additiona by this wo	structures; providacture No. CV I465-68 B-56). It is a 60-in ry July 19, 2019 hyd Replace existing wi Replace existing wi CIPP Liner (1.5-indeet long HDPE Liner (54-indepactity pipe above above 11y, Class 2 riprap work.	ches thick) will be added a	located beneath was 137 feet long. To the contractor has bund corrugated pound smooth pipe th 36-inch smooth smeter / 50.68-inch long at the outlet. Up to	restbound I-465 This pipe carries is the following pipe, 150 feet long the round added the inside diame	5, 0.239 mile s UNT 11 to approved op ong with a 6-with a 6-incl capacity pieter) with 42	Lick Cotions: inch such sump pe abord- inch s	reek. Per the mp we the existing mooth round	ng, 150 added
This is r	page 16 of 43	Project name:	I-465 Reconf	iguration			D:	ate: Febru	iary 21, 2020

County Mar	ion		Route I	-465		Des. No	D. 1802075	
Culvert No. 8, I-46	5 over UNT	7 to Lick Cre	ek					
Structure/NBI Nu		CV I465-049		Suffic	ciency Rating:	N/A		
	_					(Rating, S	ource of Informa	ation)
		Existin	g	Propos	ed			
Bridge Type:		Corrugated	metal pipe arch	N/A				
Number of Span	s:	N/A	• •	N/A				
Weight Restriction	ons:	N/A	ton	N/A	ton			
Height Restrictio		N/A	ft.	N/A	ft.			
Curb to Curb Wi		N/A	ft.	N/A	ft.			
Outside to Outside	de Width:	N/A	ft.	N/A	ft.			
Shoulder Width:		N/A	ft.	N/A	ft.			
Length of Chann	el Work:			198	ft.			
Remarks:	Small Struc B-58). It is a Lick Creek. C H ac R R R Additionally will be imposed	ture No. CV I a 71-inch by 4 Per the appro IPP Liner (1.5 DPE deforme Ided capacity eplace existin et long with a y, revetment r acted.	iprap over geotextile vector of the property o	ted beneath I led metal pipe 9 hydraulic ret long de diameter cisting, 176 f. B-inch elliptic foot reinforce will be placed	-465, 0.785 mile arch that is 176 nemo, the contract / 45-inch inside the long and smooth pipe, and concrete box v	west of Keyster feet long. This ctor has four of diameter) with 176 feet long with 12 inch by to 198 feet of Yes X	pipe carries UN ptions: 1 30-inch smooth with a 6-inch sum 1 12 inch haunch	h round np nes, 176 Creek
		Foliatio	_	D	1	(Rating, 5	ource of finoring	ation)
		Existin	y	Propos	eu			
Bridge Type:		CMP		N/A				
Number of Span	s:	NA		N/A				
Weight Restriction		N/A	ton	N/A	ton	<u></u>		
Height Restrictio		N/A	ft.	N/A	ft.			
Curb to Curb Wie		N/A	ft.	N/A	ft.			
Outside to Outside	de Width:	N/A	ft.	N/A	ft.			
Shoulder Width:		N/A	ft.	N/A	ft.			
Length of Chann	el Work:			192	ft.			
Describe b Remarks:	Small Struc 465, 0.025 i 1 to McFarl the followin	ture No. CV I mile west of C and Creek bei g five options IPP Liner (2-i	nches thick), 182 feet	eated below to dix B-66). To the approved to long	he south slope of his 84-inch diam September 5, 201	the Carson Aveter, 182-foot 19 hydraulic me	long CMP carrie emo, the contrac	es UNT etor has
	• H	DPE Liner (80.5-inch outside dia	meter / /2-1	inch inside diam	ieier) 182 fee	i long, with a	peveled

headwall at the inlet

County 1	Marion	Route	I-465	Des. No.	1802075
	• R	DPE Liner (63-inch outside dapacity pipe adjacent to the exist eplace existing with a 90-inch replace existing with a 90-inch representation over geotex l.	ting, 182 feet long ound smooth pipe, 13 ound corrugated pipe	82 feet long with a 6-inch sumpe, 182 feet long with a 6-inch su	o Imp
		ated or replaced as part of th Itiple bridges or small structu	• •	Yes X ould be filled out for each state X	No N/A ructure.
MAINTENA	NCE OF TRA	FFIC (MOT) DURING CO	NSTRUCTION:		
s a temporar Nill the proje Provisions Provisions Provisions Nill the propo	s will be made for some will be made for some will be made to osed MOT substantial controvers: This project	osed? se of a detour or require a railor access by local traffic and or through-traffic dependent to accommodate any local spetantially change the environnessy associated with the proposition part of a design-build contra	so posted. businesses. ecial events or festinental consequencesed method for MC ct. Therefore, the MC	ivals. es of the action? DT? OT for the project will be desig	
	ramp closure	. It is anticipated the MOT will es within interchanges, and loca s/lane restrictions will pose a services); however, no signific	al road closures for b	ridge replacements. Detours wi	Il be provided. ncluding school buses and
	(Appendix three bridge	CAC meeting, several committed G-26). For example, the represest within Section A/B were cleam. These comments were taken	sentative from Metro osed at the same tin	politan School District of Perrine, it would cause "gridlock"	y Township indicated if all and serious issues for the
	the contract C N In	n the MOT will be minimized to consecutive bridges (e.g., Madiso to lane restrictions on I-465 terchange) construction project order to minimize community	on Avenue and Keys are permitted durin	tone Avenue) may not be close g the downtown Indianapolis	d at the same time. "North Split" (I-70/I-65)
		nd the City of Indianapolis. is the responsibility of the cont	ractor to notify schoolld block or limit acc		services at least two week

Date: February 21, 2020

I-465 Reconfiguration

This is page 18 of 43 Project name:

County M	arion	Route	I-465		Des. No	. 1802075	
ESTIMATED	PROJECT COST AND S	CHEDULE:					
Engineering:	\$\ \begin{array}{lll} 4,000,000 & (2019) \\ 7,200,000 & (2020) \end{array}	Right-of-Way:	\$ <u>N/A</u>		Construction:	\$ 64,900,000* 9,499,854	(2020) (2022)
Anticipated Sta	art Date of Construction:	November 2020			*Included under	Contract R-4153	66
Date project in	corporated into STIP	2, 2019		_ (Apper	ndix H-3)		
Is the project in	n an MPO Area? X	No					
Name of MPC	O Indianapolis Metropolita	ın Planning Organ	nization (IMPO)	-			
Location of P	roject in TIP <u>https://mitip.ir</u>	dympo.org/		(Append	dix H-1 and H-2)		
Date of incorp	poration by reference into the	e STIP July 2	2, 2019				_

RIGHT OF WAY:

	Amount	(acres)
Land Use Impacts	Permanent	Temporary
D. H. C.I.	27/4	27/4
Residential	N/A	N/A
Commercial	N/A	N/A
Agricultural	N/A	N/A
Forest	N/A	N/A
Wetlands	N/A	N/A
Other:	N/A	N/A
Other:	N/A	N/A
TOTAL	N/A	N/A

Describe both Permanent and Temporary right-of-way and describe their current use. Typical and Maximum right-of-way widths (existing and proposed) should also be discussed. Any advance acquisition or reacquisition, either known or suspected, and there impacts on the environmental analysis should be discussed.

Remarks:

The existing ROW consists of paved surfaces, maintained side slopes, Lick Creek, McFarland Creek, roadside ditches and streams, and wooded areas. Within Section A/B, the existing ROW ranges from 100 to 150 feet, from the roadway centerline. Within Section C, the existing ROW ranges from 100 to 160 feet from the roadway centerline. This project will occur within existing ROW. No permanent or temporary ROW will be required for this project.

If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately.

This is page 19 of 43	Project name:	I-465 Reconfiguration	 Date:	February 21, 2020
		Form Version: June 2013 Attachment 2		

County	Marion	Route	I-465	Des. No.	1802075	
		-		_		

<u>Part III – Identification and Evaluation of Impacts of the Proposed Action</u>

SECTION A - ECOLOGICAL RESOURCES

 Presence
 Impacts

 Yes
 No

 Streams, Rivers, Watercourses & Jurisdictional Ditches
 X

 Federal Wild and Scenic Rivers
 X

 State Natural, Scenic or Recreational Rivers
 —

 Nationwide Rivers Inventory (NRI) listed
 —

 Outstanding Rivers List for Indiana
 —

 Navigable Waterways
 —

Stream Summary Table

Stream Name	Classification	OHWM Width ¹ (Feet)	OHWM Depth ¹ (Inches)	Length in Study Area (Linear Feet)	Length of Impacts ² (Linear Feet)	Quality
McFarland Creek	Perennial	12.0	14	349	255	Average
UNT 1 to McFarland Creek	Ephemeral	4.9	10	943	192	Poor
UNT 2 to McFarland Creek	Ephemeral	1.6	8	58	No Impact	Poor
UNT 3 to McFarland Creek	Intermittent	7.0	20	182	No Impact	Poor
UNT 4 to McFarland Creek	Ephemeral	2.0	5	188	188	Poor
Lick Creek ³	Perennial	32	31	7,127	550	Average
UNT 1 to Lick Creek	Ephemeral	7.0	6	328	No Impact	Average
UNT 2 to Lick Creek	Intermittent	6.0	6	97	No Impact	Poor
UNT 4 ³ to Lick Creek	Intermittent	9.0	6	740	740	Poor
UNT 5 to Lick Creek	Intermittent	8.0	8	393	393	Average
UNT 6 to Lick Creek	Ephemeral	6.0	6	709	709	Poor
UNT 7 to Lick Creek	Intermittent	6.0	7	201	198	Poor
UNT 8 to Lick Creek	Ephemeral	1.3	6	760	760	Poor
UNT 9 to Lick Creek	Ephemeral	1.0	1	125	88	Poor
UNT 10 to Lick Creek	Ephemeral	1.4	7	67	No Impact	Average
UNT 11 to Lick Creek	Ephemeral	4.0	16	1,320	508	Average
UNT 12 to Lick Creek	Ephemeral	2.2	11	60	60	Poor
UNT 13 to Lick Creek	Ephemeral	1.4	3	93	No Impact	Poor
UNT 14 ⁴ to Lick Creek	Ephemeral	2.3	3	156	187	Poor
UNT 1 to State Ditch	Ephemeral	1.8	9.3	5,152	4,006	Poor
UNT 2 to State Ditch	Ephemeral	3.3	12	5,161	3,667	Poor
UNT 3 to State Ditch	Ephemeral	5.5	7	350	39	Poor
UNT 4 to State Ditch	Ephemeral	6.0	6	363	107	Poor
UNT 5 to State Ditch	Ephemeral	4.0	7	338	37	Poor
UNT 1 to Dollar Hide Creek	Ephemeral	4.2	6	1,112	No Impact	Poor
UNT 2 to Dollar Hide Creek	Ephemeral	6.5	9	223	No Impact	Poor

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County	Marion	Route I-465	Des. No. 18020	75

Stream Name	Classification	OHWM Width ¹ (Feet)	OHWM Depth ¹ (Inches)	Length in Study Area (Linear Feet)	Length of Impacts ² (Linear Feet)	Quality
UNT 3 to Dollar Hide Creek	Ephemeral	4.0	5	315	38	Poor
UNT 4 to Dollar Hide Creek	Ephemeral	3.0	3	110	No Impact	Poor
UNT 5 to Dollar Hide Creek	Ephemeral	3.8	4	115	No Impact	Poor

¹Average Ordinary High Watermark (OHWM) dimensions noted within the study area.

Remarks:

Based on a desktop review, site visits on May 8-10, 13-16, 20-24, 28-30, and August 15 and 23, 2019 by Parsons, the aerial map of the project area (Appendix B-7), and the water resources map in the Red Flag Investigation (RFI) reports (Appendix E-1 and E-17), there are 38 streams located within the 0.5 mile search radius. There are two mapped streams present within or adjacent to the project area. The *Waters of the U.S. Report* was approved by INDOT on September 27, 2019 (Appendix F-1).

The U.S. Army Corps of Engineers (USACE) makes all final determinations regarding jurisdiction. On August 15, 2019, a jurisdictional determination field review was held with representatives of USACE, the Indiana Department of Environmental Management (IDEM), the INDOT Ecology and Waterway Permitting Office (EWPO), and Parsons to review the project area and determine the jurisdictional status of the features identified within the *Waters of the U.S. Report*. This field review confirmed 29 jurisdictional streams. Two additional features were initially identified as a streams (UNT 3 to Lick Creek and UNT 15 to Lick Creek). At the field check, it was determined that the features did not meet current USACE guidance as streams because they solely conveyed roadway drainage. UNT 3 to Lick Creek was completely eliminated. UNT 15 to Lick Creek was revised as an extension to Wetland 32 (see the Wetlands section below for more detail).

It was determined that 29 likely jurisdictional streams totaling 27,135 feet were identified within the study area. These streams are mapped on aerial photographs (Appendix B-6) and are labeled on project plans (Appendix B-45). These streams are summarized in the table above this remarks box. The streams are labeled on project plans (Appendix B-45).

None of the 29 streams within the project area are navigable waterways, classified as *Federal, Wild and Scenic Rivers*; *State Natural, Scenic, Recreational Rivers*; or on the *Indiana Register's list of Outstanding Rivers and Streams*, nor are they located within two miles of any such resources.

In order to achieve proper drainage of the preferred alternative, the majority of existing roadside ditches, including those containing UNTs, will be buried and piped. Additionally, streams will be impacted by the emplacement of scour treatments, such as riprap, as described above in the Design Criteria for Bridges section. Therefore, a total of 20 streams (12,722 linear feet total) will be impacted by the proposed project. All stream impacts will occur within existing ROW. The proposed impact to streams cannot be avoided because they already exist within the I-465 ROW, and the impacts are necessary to maintain drainage.

The project will require a USACE 404 permit and an IDEM Section 401 Water Quality Certification before impacting these resources. Mitigation will be required as part of this project. It is anticipated that the project will utilize credits from IDNR's Indiana Stream and Wetland Mitigation Program (in-lieu fee) to mitigate project impacts.

Early coordination letters were sent to the U.S. Fish and Wildlife Service (USFWS), USACE, and the Indiana Department of Natural Resources, Division of Fish and Wildlife (IDNR-DFW) on June 25, 2019 (Appendix C-1). Electronic coordination with IDEM occurred on June 25, 2019 (Appendix C-14). USFWS and USACE did not respond to the early coordination letter.

IDNR-DFW responded to early coordination on July 25, 2019 with standard recommendations to minimize impacts to streams, such as appropriate stream crossings, bank stabilization techniques, mitigating impacts to riparian habitats, and

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²Stream impacts include structure work and piping, see discussion below.

³Average of three Qualitative Habitat Evaluation Index (QHEI) assessments completed.

⁴UNT 3 to Lick Creek and UNT 15 to Lick Creek were revised after the agency field check, see discussion below.

_						
County	Marion	Route	I-465		Des. No.	1802075
	avoiding and minimizing im letter states that the physica affected water bodies, should IDNR-DFW and IDEM reco	l disturbance of the	stream and ri	parian vegetation, obsolutely necessary	especially large to complete the	rees overhanging any project. All applicable
					• •	
Reservoirs Lakes Farm Pond Detention E	·			Presence X X	Impacts Yes No	
Remarks:	Based on a desktop review, aerial map of the project are there are 31 other surface w project area.	a (Appendix B-7), a	nd the water r	esource map in the	RFI reports (App	pendix E-1 and E-17),
	The Waters of the U.S. Represources were identified or representatives of USACE, I of the features identified viprisdiction.	on-site. On August DEM, INDOT EWF	15, 2019, a PO, and Parson	jurisdictional determs to review the feat	mination field re ures and determin	eview was held with ne jurisdictional status
	Early coordination letters we coordination with IDEM occoordination letter. There we other surface waters.	curred on June 25, 20	019 (Appendix	C-14). USFWS an	d USACE did no	ot respond to the early
Wetlands	coordination with IDEM occoordination letter. There we	curred on June 25, 20	019 (Appendix	C-14). USFWS an	d USACE did no	ot respond to the early coordination regarding
Total wetla	coordination with IDEM occ coordination letter. There we other surface waters. and area: 3.54* acc wetlands extend beyond the steep of	eurred on June 25, 2 ere no applicable rece ere(s) Total udy area.	019 (Appendizommendations	C-14). USFWS an in IDNR-DFW's re Presence X a impacted:	Impac Yes 1.052 acre	t respond to the early coordination regarding ts No (s)
*Some	coordination with IDEM occ coordination letter. There we other surface waters.	eurred on June 25, 2 ere no applicable rece ere(s) Total udy area.	019 (Appendizommendations	C-14). USFWS an in IDNR-DFW's re Presence X a impacted:	Impac Yes 1.052 acre	ter respond to the early coordination regarding ts No (s)
Total wetla *Some (If a determ	coordination with IDEM occ coordination letter. There we other surface waters. and area: 3.54* acc wetlands extend beyond the sum of the sum o	eurred on June 25, 20 ere no applicable rece ere(s) Total udy area. or non-isolated/iso	019 (Appendizonmendations	C-14). USFWS an in IDNR-DFW's re Presence X a impacted:	Impac Yes 1.052 acre	t respond to the early coordination regarding ts No (s)
Total wetla *Some	coordination with IDEM occ coordination letter. There we other surface waters. and area: 3.54* acc wetlands extend beyond the sum of the sum o	erre no applicable recent recent applicable recent recent applicable recent rec	019 (Appendizommendations	C-14). USFWS an in IDNR-DFW's re Presence X a impacted:	Impac Yes 1.052 acre	t respond to the early coordination regarding ts No (s)
Total wetla *Some (If a determ ummary of Wetland N	coordination with IDEM occ coordination letter. There we other surface waters. and area: 3.54* acc wetlands extend beyond the sum of the sum o	eurred on June 25, 20 ere no applicable rece ere(s) Total udy area. or non-isolated/iso	O19 (Appendize ommendations of the commendations of the commendation of the commendatio	C-14). USFWS an in IDNR-DFW's re Presence X a impacted:	Impac Yes 1.052 acre yetland area imp	t respond to the early coordination regarding ts No (s)
Total wetla *Some (If a determ ummary of Wetland N	coordination with IDEM occ coordination letter. There we other surface waters. and area: 3.54* acc wetlands extend beyond the straination has not been made for the wetlands. Wetlands No. Classification	eurred on June 25, 20 ere no applicable receiver en applicable en applicab	ommendations I wetland area lated wetlance Impacted Acres	Presence X a impacted: As, fill in the total w	Impac Yes 1.052 acre vetland area impace ters of the U.S.	t respond to the early coordination regarding ts No (s)
Total wetla *Some *Some *Immary of Wetland 1 Wetland 2	coordination with IDEM occoordination letter. There we other surface waters. and area: 3.54* acce wetlands extend beyond the standard beyond been made for the wetlands. Classification Palustrine Emergent	ere (s) Total udy area. Total Size (Acres) 0.016	O19 (Appendizommendations I wetland area lated wetland Impacted Acres No Impact	Presence X a impacted: As, fill in the total we recovered to the proof of the pro	Impacyes Yes 1.052 acre Vetland area impacyetland area impacyes Lers of the U.S. ters of the U.S.	t respond to the early coordination regarding ts No (s)
Total wetla *Some *Immary of Wetland 1 Wetland 2 Wetland 3	coordination with IDEM occ coordination letter. There we other surface waters. and area: 3.54* acc wetlands extend beyond the straination has not been made for the surface waters. Wetlands No. Classification Palustrine Emergent Palustrine Emergent	ere (s) Total udy area. Total Size (Acres) 0.016 0.001	I wetland area lated wetland Impacted Acres No Impact	Presence Image: A control of the co	Impac Yes 1.052 acre Vetland area imp Comments ters of the U.S. ters of the U.S.	t respond to the early coordination regarding ts No (s)
Total wetla *Some Ummary of Wetland N Wetland 1 Wetland 2 Wetland 3 Wetland 4	coordination with IDEM occoordination letter. There we other surface waters. and area:3.54* access to execute the second	ere (s) Total udy area. Total Size (Acres) 0.016 0.001	I wetland area lated wetland Acres No Impact No Impact	Presence Impacted: Poor quality / War Poor quality / War Poor quality / War	Impacyes Yes 1.052 acre Vetland area imp Comments ters of the U.S. ters of the U.S. ters of the U.S.	t respond to the early coordination regarding ts No (s)
Total wetla *Some (If a determinary of Wetland 1 Wetland 2 Wetland 3 Wetland 4 Wetland 5	coordination with IDEM occ coordination letter. There we other surface waters. and area: 3.54* acc wetlands extend beyond the standard of the surface waters. Wetlands No. Classification Palustrine Emergent Palustrine Emergent Palustrine Emergent Palustrine Emergent Palustrine Emergent Palustrine Emergent	rere(s) Total udy area. Total Size (Acres) 0.016 0.001 0.001 0.014	I wetland area lated wetland Acres No Impact No Impact No Impact No Impact	Presence X a impacted: Poor quality / War Poor quality / War Poor quality / War Poor quality / War	Impac Yes 1.052 acre vetland area imp Comments ters of the U.S. ters of the U.S. ters of the U.S. ters of the State ters of the State	t respond to the early coordination regarding ts No (s)
Total wetla *Some (If a determ	coordination with IDEM occoordination letter. There we other surface waters. and area:3.54* access wetlands extend beyond the standard surface waters. Wetlands No. Classification Palustrine Emergent	re(s) Total udy area. Total Size (Acres) 0.016 0.001 0.001 0.009	Impacted Acres No Impact	Presence X a impacted: Poor quality / War	Impac Yes X 1.052 acre /etland area imp Comments ters of the U.S. ters of the U.S. ters of the U.S. ters of the State ters of the State ters of the State	t respond to the early coordination regarding ts No (s)

Date: February 21, 2020

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County Marion ____ Route __I-465 ____ Des. No. __1802075

Wetland No.	Classification	Total Size (Acres)	Impacted Acres	Comments
Wetland 9	Palustrine Forested	0.022	0.020	Average quality / Waters of the U.S.
Wetland 10	Palustrine Emergent	0.055	0.054	Poor quality / Waters of the U.S.
Wetland 11	Palustrine Emergent	0.319	0.319	Poor quality / Waters of the U.S.
Wetland 12	Palustrine Emergent	0.008	0.008	Poor quality / Waters of the State
Wetland 13	Palustrine Emergent	0.006	0.006	Poor quality / Waters of the State
Wetland 14	Palustrine Emergent	0.092	0.092	Poor quality / Waters of the State
Wetland 15	Palustrine Emergent	0.073	0.073	Poor quality / Waters of the State
Wetland 16	Palustrine Emergent	0.004	0.004	Poor quality / Waters of the State
Wetland 17	Palustrine Scrub-Shrub	0.044	0.034	Average quality / Waters of the U.S.
Wetland 18	Palustrine Emergent	0.066	0.066	Poor quality / Waters of the U.S.
Wetland 19	Palustrine Emergent	0.004	0.004	Poor quality / Waters of the State
Wetland 20	Palustrine Scrub-Shrub	0.084	0.066	Average quality / Waters of the U.S.
Wetland 21	Palustrine Emergent	0.238	0.238	Poor quality / Waters of the State
Wetland 22	Palustrine Emergent	0.001	0.001	Poor quality / Waters of the State
Wetland 23	Palustrine Emergent	0.027	0.013	Poor quality / Waters of the U.S.
Wetland 24	Palustrine Emergent	0.006	0.005	Poor quality / Waters of the U.S.
Wetland 25	Palustrine Scrub-Shrub	0.164	No Impact	Average quality / Waters of the U.S.
Wetland 26	Palustrine Emergent	0.002	< 0.001	Poor quality / Waters of the U.S.
Wetland 27	Palustrine Emergent	0.003	No Impact	Poor quality / Waters of the U.S.
Wetland 28	Palustrine Emergent	0.003	No Impact	Poor quality / Waters of the U.S.
Wetland 29	Palustrine Emergent	0.008	No Impact	Poor quality / Waters of the State
Wetland 30	Palustrine Emergent	0.003	No Impact	Poor quality / Waters of the State
Wetland 31	Palustrine Emergent	0.005	No Impact	Poor quality / Waters of the U.S.
Wetland 32	Palustrine Emergent	0.029	No Impact	Poor quality / Waters of the State
Wetland 33	Palustrine Emergent	0.015	No Impact	Poor quality / Waters of the State
Wetland 34	Palustrine Emergent	0.023	No Impact	Poor quality / Waters of the U.S.
Wetland 35	Palustrine Emergent	0.045	No Impact	Poor quality / Waters of the U.S.
Wetland 36	Palustrine Emergent	0.043	0.036	Poor quality / Waters of the U.S.
Wetland 37	Palustrine Emergent	0.023	No Impact	Poor quality / Waters of the State
Wetland 38	Palustrine Emergent	0.410	No Impact	Poor quality / Waters of the U.S.
Wetland 39	Palustrine Emergent	0.157	No Impact	Poor quality / Waters of the U.S.
Wetland 40	Palustrine Emergent	0.461	0.004	Poor quality / Waters of the U.S.
Wetland 41	Palustrine Emergent	0.010	No Impact	Poor quality / Waters of the State
Wetland 42	Palustrine Emergent	0.002	No Impact	Poor quality / Waters of the U.S.
Wetland 43	Palustrine Emergent	0.007	No Impact	Poor quality / Waters of the State
Wetland 44	Palustrine Emergent	0.049	0.005	Poor quality / Waters of the U.S.
Wetland 45	Palustrine Emergent	0.032	No Impact	Poor quality / Waters of the State
Wetland 46	Palustrine Emergent	0.158	No Impact	Poor quality / Waters of the State
Wetland 47	Palustrine Emergent	0.428	0.003	Poor quality / Waters of the U.S.
Wetland 48	Palustrine Emergent	0.352	No Impact	Poor quality / Waters of the State

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County _	Marion	Route	I-465	Des. No. 1802075
Wetland De Wetland De	lineation ated Waters Determination	<u>D</u>	X X X	ES Approval Dates September 27, 2019 September 27, 2019 Pending
would resu Substan Substan Unique Substan	Ints that will not result in any walt in (Mark all that apply and explorated adverse impacts to adjacent intially increased project costs; engineering, traffic, maintenance intial adverse social, economic, or opject not meeting the identified ne	ain): homes, busir e, or safety pro	ness or other improved poblems;	
Measures to Remarks:	/Mapper.html), site visits on Ma topographic map (Appendix B-2), within the 0.5 mile search radius. (Appendix F-1). On August 15, 2019, a jurisdiction INDOT EWPO, and Parsons to rewaters of the U.S. Report. This identified. Wetland 32 was extend section for additional details). USA It was determined that 27 wetlands (1.093 acre). A total of 3.536 aphotographs (Appendix B-6) and a Approximately 1.052 acres of wetlacre waters of the state). The majemergent wetlands that occur with utilize credits from IDNR's Indiana. The proposed impacts cannot be a practicable alternative to the proposed impacts cannot be a practicable alternative to the proposed in the adverse Early coordination letters were secondination with IDEM occurred coordination letter. IDNR-DFW responded on July 25 contact IDEM 401 and USACE 4	onal Wetlands y 8-10, 13-16, and the RFI real The Waters of the Waters were ideare labeled on pulsars will be informed to the Waters were ideare labeled on pulsars will be informed to the Waters were ideare labeled on pulsars will be informed to the Waters were ideare labeled on pulsars will be informed to the waters were ideare labeled on pulsars will be informed to the Waters were ideared to the Waters will be into the Waters were ideared to the Waters will be informed to the Water	Inventory (NWI) online, 20-24, 28-30, and Augueports (Appendix E-1 and of the U.S. Report was application field review was held es and determine jurisdictionade final determinations of check (see the Streams, If final determinations regarders of the U.S. (2.443 acrestified within the study project plans (Appendix Bental determination will be ditches. Mitigation will be vetland Mitigation Programs to the wetlands are located astruction in wetlands and he may result from such that ull SACE, and IDNR-DFW 2019 (Appendix C-14). USF excommendations to avoid of Appendix C-5). IDEM's lecommendations to avoid of Appendix C-50.	mapper (https://www.fws.gov/wetlands/data list 15 and 23, 2019 by Parsons, the USGS E-17), there are 48 mapped wetlands located groved for the project on September 27, 2019 with representatives of USACE, IDEM, and conal status of the features identified within the conthe jurisdictional status of the 48 features Rivers, Watercourses & Jurisdictional Ditches ding jurisdiction.

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County	Marion	Route I	-465	Des. No.	1802075
			<u>Presence</u>	<u>Impacts</u> Yes No	
Terrestria Unique or	ı l Habitat High Quality Habitat		X	X	
lse the ren	na <u>rks box to identify each type o</u>				
Remarks:	Based on a desktop review, site aerial map of the project area slopes, ditches, wetlands, and within 100 feet from an existing	(Appendix B-6), hal wooded stream corri	bitats within the project	area mainly consist of	maintained roadside
	Based on coordination with the near Section A/B are considere corridor. However, within the summer habitat" for bats. Refer	d "suitable summer ROW in Section C,	habitat" for bats due to the wooded fencerows	the presence of Lick C are urban trees and not	reek and its wooded considered "suitable
	The total amount of "suitable so urban trees within the study are were sugar maple (<i>Acer saccha</i> walnut (<i>Juglans nigra</i>), honey <i>americana</i>), and eastern red ced	a for Section C is 10 (rum), green ash (Fra-locust (Gleditsia tr	0.61 acres. The primary axinus pennsylvanica), exiacanthos), sandbar wil	tree species observed wastern cottonwood (<i>Popular</i>)	ithin the project area ulus deltoides), black
	The remaining terrestrial habit varietals of fescue, foxtail, clo considered to be low quality.		_	_	
	Bridge and Culvert Inspection I wildlife on structures, except for pigeons were reported in the Julian insects, reptiles, fish, and amphi	or the US 31 over I uly 25, 2018 inspect	-465 and Lick Creek braion. Additionally, comm	ridge, Structure No. 031	-49-04448 B, where
	Based on construction limits, a sand herbaceous vegetation) will and urban trees were based on saddetermined. Therefore, the total	l be impacted by thi the project's study an	is project. (Note, calcula rea, during Stage 1 plan	ntions for "suitable sum development before con	mer habitat" impacts struction limits were
	Impacts to terrestrial habitat and proposed bridge and culvert wo			-	-
	Early coordination letters were coordination with IDEM occurr letter.				
	IDNR-DFW responded on July such as mitigating impacts to n minimizing the clearing of brus included in the Environmental C	on-wetland forest of h and trees (Append	one acre or more at a 2 ix C-5). All applicable I	:1 ratio, revegetating all	disturbed areas, and
	igh incidences of animal movements ment, consideration of utilizing wildli			d other areas appear to b	e the sole corridor for

This is page 25 of 43 Project name:

County	Marion	Route	I-465		Des	. No.	1802075	
		ated within or adjacent to the within or adjacent to the				Yes	- 	No X X
		pject impact any of these ka					- <u>-</u>	
Use the ren		any karst features within th		. (Karst investig	ation must	comply	with the K	arst
MOU, dated	d October 13, 1993)	-						
Remarks:	13, 1993 Memorar and the RFI report	o review, the project is located adum of Understanding (MOU is (Appendix E-1 and E-17), the s to early coordination (Apper	J). According to here are no kars	the topographic t features identifi	map of the ied within o	project	area (Appen	dix B-2),
	exist in the project moderate potential The features are no are the purview of	lination response, the Indiana area (Appendix C-10). The I for bedrock resources, a high at a concern because they eith f geotechnical engineering st No impacts are expected.	IGWS reported potential for sa per already exist	the presence of a and and gravel res with the existing	high liques sources, and g ROW (e.g	faction p petrolet ., sand a	otential, floo um exploration nd gravel re	odway, a on wells. sources),
Any cri Federa State s	pecies found in proje		ultation with ID		No X		X	
Remarks:	IDNR Marion Co Appendix E-14. Ti county. According Heritage Program' project area: • Kirtland • America	p review and the RFI reports unty Endangered, Threatened he highlighted species on the to the IDNR-DFW early coor is Database has been checked as snake (Clonophis kirtlandii) in badger (Taxidea taxus), a spendpiper (Bartramia longicau)	d and Rare (E list reflect the f rdination respond, and three spe), a state endang pecial species of	TR) Species Listederal and state in the letter dated Justices of concern gered species concern, and	t has been dentified Early 25, 2019	checked FR special (Appen	d and is included and is located water dix C-5), the	luded in vithin the e Natural
	IDNR-DFW concl	uded that this project is not ex	spected to impa	et these species (o	or their prefe	erred hal	oitat).	
	an official species	n was submitted through the list was generated (Appendix) and the federally threatened project area.	x C-23). The pr	oject is within ra	inge of the	federally	endangered	l Indiana
	online IPaC determ long-eared bat (N (FRA), Federal T	osed impact of more than 20 a nination key for the <i>Range-wid</i> (<i>LEB</i>) dated May 2016 (revis transit Administration (FTA) (red with INDOT on how to	de Programmat sed February 2), and USFWS	ic Informal Cons 018), between F ("the informal	ultation for HWA, Fed programma	the Indiceral Raintic"). In	<i>ana bat and</i> Iroad Admir n July 2019	northern nistration , further

Date: February 21, 2020

I-465 Reconfiguration

This is page 26 of 43 Project name:

		Indiana Depa	artment o	f Transpor	rtation	
County	Marion	Route	I-465		Des. No.	1802075
	Submittal Forms fro	ed the project falls within m Appendix B of the tml) were completed to de	e USFWS <i>U</i>	Iser's Guide (
	Adversely Affect with NLEB (Appendix C-3 review of the finding (on Appendix C-36 and The RFI reports were	d Project Submittal Form Avoidance and Minimiza 2). INDOT reviewed and Appendix C-42). On Aug are included as firm compapproved on May 14, 201 ortal, and an official speci	verified the e ust 7, 2019, U mitments in the 9 (Appendix 1	s" (MA-NLAA ffect finding on SFWS concurre e Environmental E-1 and E-17). I	with AMMs) the It August 5, 2019, and with the effect find Commitments section.	ndiana bat and/or the di requested USFWS's ling. AMMs are listed on of this document.
	_	r the Rusty Patched Bumb	-			ct is located outside a
ecction	LD OTHER RESOL	IDOEC				
SECTION	I B – OTHER RESOL	JRCE5				
Wellher Public \ Resider Source Sole So If a SS. Is Is	Water Resources ad Protection Area Water System(s) Initial Well(s) Water Protection Area Source Aquifer (SSA) A is present, answer the The Project in the St. Jo The FHWA/EPA SSA Me Tial Groundwater Asses Setailed Groundwater Asses	following: seph Aquifer System? OU Applicable? sment Required?		Yes	No	No X X
Remarks:	only legally designate Memorandum of Unde not needed, and no imp	in Marion County, which d sole source aquifer in rstanding (MOU) is not a pacts are expected. d Proximity Determina em/cleanwater/pages/well	the state of Inpplicable to the	ndiana. Therefo is project. There was accessed	re, the FHWA/EPA fore, a detailed grou on September 9,	Sole Source Aquifer ndwater assessment is 2019, by Parsons
	dnr/water/3595.htm) w the project area. Based abandoned prior to the wells are expected. Sh	ment of Natural Resonance as accessed on September on visual observations development of I-465. Thould it be determined duriaisal to restore the wells.	9, 2019 by Pa uring the site e project will	ersons. There are visits, these wel occur within exi	e seven wells mapped ls are either inaccura sting ROW, therefore	d within or adjacent to ately-mapped, or were e, no impacts to active
	(https://entapps.indot.i	p review of the INC n.gov/MS4/) by Parsons o location. An early coord	n August 2, 20	119, and the RFI	reports; this project	is located in an Urban

website (http://dnrmaps.dnr.in.gov/appsphp/fdms/) by Parsons on September 7, 2019, and the RFI reports; portions of this project are located in regulatory floodplains (McFarland Creek and Lick Creek) as determined from approved IDNR floodplain maps (Appendix B-6). An early coordination letter was sent on June 25, 2019 to the local Floodplain Administrator (Appendix C-1). IDNR-DFW stated a construction in a floodway permit will be required for this project (Appendix C-5). Additionally, the City of Indianapolis MS4 coordinator's response to early coordination recommended submitting plan information to the Department of Business and Neighborhood Services (Appendix C-21). Applicable recommendations from IDNR-DFW and the City of Indianapolis are included as commitments in the Environmental Commitments section of this document. This project qualifies as a Category 4 per the current INDOT CE Manual, which states Category 4 are projects involving replacement of existing drainage structures on essentially the same alignment. No homes are located within the base floodplains within 1,000 feet downstream. The proposed structures will have an effective capacity such that backwater surface elevations are not expected to substantially increase. As a result, there will be no substantial adverse impacts on natural and beneficial floodplain values; there will be no substantial change in flood risks; and there will be no substantial increase in potential for interruption or termination of emergency service or emergency evacuation routes; therefore, it has been determined that this encroachment is not substantial. Hydraulic design studies that addresses various structure size alternatives will be completed during the preliminary design phase. Presence Impacts	County	Marion	Route	I-465		Des. No.	1802075
aerial map of the project area (Appendix B-6), this project is located where there is a public water system. The public water system, operated by Citizens Energy Group (CEG), was sent a utility coordination letter on January 29, 2019 (Appendix C-43). CEG responded on February 22, 2019 with information about their facilities (Appendix C-44). The public drinking water system will not be affected because the subgrade lines within the project area are too deep to be impacted. Presence Presence Impacts Yes No		Construction Manual further coordination cannot be avoided l project team and aw this project. Applic	id, including Chapter 700 S regarding increased stormy because of its presence with arded contractor will continuable recommendations from	tormwater Quality water runoff (Appe hin existing ROW. nue to coordinate we to the City of Ind	and Chapter 600 ndix C-21). The putility coordinate ith the City of In	Erosion and Seproposed impaction for this produced image.	ediment Control, and to the MS4 system edit is ongoing. The rding stormwater for
Longitudinal Encroachment Transverse Encroachment Project located within a regulated floodplain Homes located in floodplain within 1000' up/downstream from project Remarks: Based on a desktop review of The Indiana Department of Natural Resources Indiana Floodway Information Portal website (http://dnrmaps.dnr.in.gov/appsphp/fdms/) by Parsons on September 7, 2019, and the RFI reports; portions of this project are located in regulatory floodplains (McFarland Creek and Lick Creek) as determined from approved IDNR floodplain maps (Appendix B-6). An early coordination letter was sent on June 25, 2019 to the local Floodplain Administrator (Appendix C-1). IDNR-DFW stated a construction in a floodway permit will be required for this project (Appendix C-5). Additionally, the City of Indianapolis MS4 coordinator's response to early coordination recommended submitting plan information to the Department of Business and Neighborhood Services (Appendix C-21). Applicable recommendations from IDNR-DFW and the City of Indianapolis are included as commitments in the Environmental Commitments section of this document. This project qualifies as a Category 4 per the current INDOT CE Manual, which states Category 4 are projects involving replacement of existing drainage structures on essentially the same alignment. No homes are located within the base floodplains within 1,000 feet downstream. The proposed structures will have an effective capacity such that backwater surface elevations are not expected to substantially increase. As a result, there will be no substantial and beneficial floodplain values; there will be no substantial and serves impacts on natural and beneficial floodplain values; there will be no substantial cleasign studies that addresses various structure size alternatives will be completed during the preliminary design phase. Presence Impacts Presence Impacts Yes No Agricultural Lands Prime Farmland (per NRCS) Total Points (from Section VII of CPA-106/AD-1006* "If 160 or greater, see CE Manual for guida		aerial map of the property water system, opera (Appendix C-43). C public drinking water	oject area (Appendix B-6), ted by Citizens Energy Gr EG responded on February	this project is locatoup (CEG), was so 22, 2019 with inf	ted where there i ent a utility coor ormation about the	s a public wate dination letter of heir facilities (A	r system. The public on January 29, 2019 Appendix C-44). The
Longitudinal Encroachment Transverse Encroachment Project located within a regulated floodplain Homes located in floodplain within 1000' up/downstream from project Secuss impacts according to classification system described in the "Procedural Manual for Preparing Environmental Studies' Remarks: Based on a desktop review of The Indiana Department of Natural Resources Indiana Floodway Information Portal website (http://dnrmaps.dnr.in.gov/appsphp/fdms/) by Parsons on September 7, 2019, and the RFI reports; portions of this project are located in regulatory floodplains (McFarland Creek and Lick Creek) as determined from approved IDNR floodplain maps (Appendix B-6). An early coordination letter was sent on June 25, 2019 to the local Floodplain Administrator (Appendix C-1). IDNR-DFW stated a construction in a floodway permit will be required for this project (Appendix C-5). Additionally, the City of Indianapolis MS4 coordinator's response to early coordination recommended submitting plan information to the Department of Business and Neighborhood Services (Appendix C-21). Applicable recommendations from IDNR-DFW and the City of Indianapolis are included as commitments in the Environmental Commitments section of this document. This project qualifies as a Category 4 per the current INDOT CE Manual, which states Category 4 are projects involving replacement of existing drainage structures on essentially the same alignment. No homes are located within the base floodplains within 1,000 feet upstream and no homes are located within the base floodplains within 1,000 feet upstream and no homes are located within the base floodplains within 1,000 feet upstream and no homes are located within the base floodplains within 1,000 feet upstream and no homes are located within the base floodplains within 1,000 feet upstream and no homes are located within the base floodplains within 1,000 feet upstream and no homes are located within the base floodplains within 1,000 feet upstream and no homes are located within the base floodplai					Presence	Impact	<u>s</u>
Based on a desktop review of The Indiana Department of Natural Resources Indiana Floodway Information Portal website (http://dnrmaps.dnr.in.gov/appsphp/fdms/) by Parsons on September 7, 2019, and the RFI reports; portions of this project are located in regulatory floodplains (McFarland Creek and Lick Creek) as determined from approved IDNR floodplain maps (Appendix B-6). An early coordination letter was sent on June 25, 2019 to the local Floodplain Administrator (Appendix C-1). IDNR-DFW stated a construction in a floodway permit will be required for this project (Appendix C-5). Additionally, the City of Indianapolis MS4 coordinator's response to early coordination recommended submitting plan information to the Department of Business and Neighborhood Services (Appendix C-21). Applicable recommendations from IDNR-DFW and the City of Indianapolis are included as commitments in the Environmental Commitments section of this document. This project qualifies as a Category 4 per the current INDOT CE Manual, which states Category 4 are projects involving replacement of existing drainage structures on essentially the same alignment. No homes are located within the base floodplains within 1,000 feet upstream and no homes are located within the base floodplains within 1,000 feet upstream and no homes are located within the base floodplains within in the proposed structures will have an effective capacity such that backwater surface elevations are not expected to substantially increase. As a result, there will be no substantial adverse impacts on natural and beneficial floodplain values; there will be no substantial change in flood risks; and there will be no substantial increase in potential for interruption or termination of emergency service or emergency evacuation routes; therefore, it has been determined that this encroachment is not substantial. Hydraulic design studies that addresses various structure size alternatives will be completed during the preliminary design phase. Presence Impacts Yes No Agricultural Lan	Longitud Transve Project I	dinal Encroachment rse Encroachment ocated within a regul		am from project	X	X	
replacement of existing drainage structures on essentially the same alignment. No homes are located within the base floodplains within 1,000 feet upstream and no homes are located within the base floodplains within 1,000 feet downstream. The proposed structures will have an effective capacity such that backwater surface elevations are not expected to substantially increase. As a result, there will be no substantial adverse impacts on natural and beneficial floodplain values; there will be no substantial change in flood risks; and there will be no substantial increase in potential for interruption or termination of emergency service or emergency evacuation routes; therefore, it has been determined that this encroachment is not substantial. Hydraulic design studies that addresses various structure size alternatives will be completed during the preliminary design phase. Farmland Agricultural Lands Presence Impacts Yes No Agricultural Lands Prime Farmland (per NRCS) Total Points (from Section VII of CPA-106/AD-1006* *If 160 or greater, see CE Manual for guidance.	Remarks:	Based on a desktop website (http://dnrm this project are local floodplain maps (A Administrator (Appe (Appendix C-5). Ad submitting plan infor recommendations for	o review of The Indiana Daps.dnr.in.gov/appsphp/fdm ed in regulatory floodplains ppendix B-6). An early condix C-1). IDNR-DFW staditionally, the City of India promation to the Department om IDNR-DFW and the C	Department of Natures (McFarland Creek coordination letter vited a construction inapolis MS4 coordination states and I defend the states of Business and I	ral Resources In September 7, 20 and Lick Creek) was sent on June in a floodway per inator's response Neighborhood Se	diana Floodwa 19, and the RF as determined to 25, 2019 to rmit will be req to early coordi rvices (Append	y Information Portal I reports; portions of From approved IDNR the local Floodplain uired for this project nation recommended ix C-21). Applicable
Farmland Agricultural Lands Prime Farmland (per NRCS) Total Points (from Section VII of CPA-106/AD-1006* *If 160 or greater, see CE Manual for guidance.		replacement of exis floodplains within downstream. The p expected to substan floodplain values; th for interruption or to that this encroachment	ting drainage structures on 1,000 feet upstream and a coposed structures will have tially increase. As a result, ere will be no substantial of ermination of emergency seent is not substantial. Hydra	essentially the san no homes are locate an effective cap- there will be no sanange in flood risks rvice or emergency tulic design studies	ne alignment. No ated within the acity such that b ubstantial advers ; and there will b e evacuation route	base floodplair ackwater surface impacts on ne no substantial es; therefore, it	ated within the base as within 1,000 feet be elevations are not atural and beneficial increase in potential has been determined
Farmland Agricultural Lands Prime Farmland (per NRCS) Total Points (from Section VII of CPA-106/AD-1006* *If 160 or greater, see CE Manual for guidance.				Presenc	<u>.</u>	Imnacts	
*If 160 or greater, see CE Manual for guidance.	-			X	_	es No	
ee CE Manual for guidance to determine which NRCS form is appropriate for your project.		•					
	ee CE Mar	nual for guidance to o	etermine which NRCS for	rm is appropriate i	or your project.		

Date: February 21, 2020

County Marion		Route	I-465		Des. I	No. 180	02075
Policy farmla project	Act (FPPA). Mos nd adjacent to the t; therefore, no in	of existing ROW, what of the surrounding project in Section C, apacts are expected. Services (NRCS) (Ap	area is do west of N An early	eveloped land. Hann Road. The a	owever, there is a requirements of the er was sent on Jul	relatively s FPPA do	small amount of not apply to this
SECTION C - CU	ILTURAL RES	OURCES					
Minor Projects PA Cl	earance		/pe 4, 9, 6	August 29, 20			N/A
		Eligible and					
Results of Research	1	Resource	Present				
Archaeology NRHP Buildings/Site NRHP District(s) NRHP Bridge(s)	(s)						
Project Effect							
No Historic Propertie	s Affected	No Adverse	Effect	Adv	erse Effect]	
		<u>Documentation</u>	<u>1</u>				
Documentation (man Historic Properties Statistaric Property Reparchaeological Recontraction Phase Archaeological Phase Archaeological Phase Archaeological Phase Archaeological Phase APE, Eligibility and E	hort Report port rds Check/ Revie e la Survey Repo e Ic Survey Repo e II Investigation e III Data Recove ffect Determination	ort		S/FHWA oval Date(s)	SHF Approval	_	
Memorandum of Agr	eement (MOA)		MOA Si	gnature Dates	(List all signatories)	
Describe all efforts categories outlined in I local newspapers nclude any further S	n the remarks bo. . Please indicate	x. The completion the publication d	of the Sec ate, name	ction 106 proces of paper(s) a	ss requires that a nd the comment	Legal Not period de	ice be published adline. Likewise
This is page 29 (of 43 Project na	ame: _ I-465 Reco	nfiguratior	1		Date:	February 21, 2020

Date: February 21, 2020

County	Marion	Route	I-465	Des. No	. 1802075
Remarks:	of Category B, Types 2, applicable MPPA work de Installation of no Construction of deceleration land Installation of no crash attenuators Installation, repl Replacement, w replacement pro Installation of M walls and structu	3, 4, 9, 12, and 16 unscriptions are listed between lighting, signals, signalded travel, turning, ces) and shoulder widen ew safety appurtenance accement, repair, lining idening, or raising the ejects (when both the surface (when both the surface mounted noise wall identifications).	der the Minor Proj low. gnage and other traf or auxiliary lanes (e. ing s, including but not or extension of cul- elevation of the sup- perstructure and sur- lls and noise barries s) not exceeding 30 . INDOT CRO re- further consultation	g., bicycle, truck climbing, a limited to, guardrails, barrie verts and other drainage stru erstructure on existing bridge ostructure are removed) is (including earth berms, grofeet in height within the Intercommendations are included in is required. This completes	nt (Appendix D-1). The cceleration and rs, glare screens, and ctures es, and bridge bund mounted noise erstate ROW d in the Environmental
SECTION	D – SECTION 4(f) RES	SOURCES/ SECTION	ON 6(f) RESOU	RCES	
Parks & Ot Publicly	ther Recreational Land y owned park y owned recreation area school, state/national fore		<u>Presence</u>	Yes No	
"De Ind Wildlife & \ Nationa	ogrammatic Section 4(f)* e minimis" Impact* lividual Section 4(f) Waterfowl Refuges al Wildlife Refuge		Presence	FHWA Approval date Use Yes No	
State V	al Natural Landmark Vildlife Area lature Preserve		Evaluations Prepared		
"De	ogrammatic Section 4(f)* e minimis" Impact* ividual Section 4(f)			FHWA Approval date	
Historic Pro Sites el	operties ligible and/or listed on the	NRHP	<u>Presence</u>	Yes No	

Date: February 21, 2020

I-465 Reconfiguration

This is page 30 of 43 Project name:

County _	Marion	Route	I-465	Des. No.	1802075
"De	grammatic Sectior minimis" Impact* vidual Section 4(f)	.,	Evaluations Prepared	<u>FHWA</u> <u>Approval date</u>	
	oval of the enviror discussed below.	nmental document also ser	ves as approval of	any Section 4f Programma	tic and/or De minimis
documentation Individual Se	on must be separation 4(f) evaluationsed alternatives a Section 4(f) of the for federally function significant publication (NRHP) eligible (4(f) resources.	rate Draft and Final documions please refer to the "that satisfy the requirement." e U.S. Department of Transported transportation facilities us owned parks, recreation are or listed historic properties re	nents. For further of Procedural Manual sof Section 4(f). ortation Act of 1966 punless there is no feature, wildlife / waterforgardless of ownership	the remarks box below. In the remarks box below. In the liscussions on Programma for the Preparation of Enterohibits the use of certain pulsasible and prudent alternative will refuges, and National Region. Lands subject to this law a	tic, "de minimis" and vironmental Studies". blic and historic lands e. The law applies to ster of Historic Places are considered Section
	aerial map of the Section 4(f) resou	project area (Appendix B-6)	, and the RFI reports le search radius. Ther	28-30, and August 15 and 23 (Appendix E-1 and E-17) the are no Section 4(f) resource:	ere are four potential
Section 6(f) Involvement) Property		Presence	Use Yes No	
-				0 (0() 1	,
Discuss prop Remarks:	The U.S. Land an which was created prohibits conversion A review of 6(1) https://www.lwcfc	d Water Conservation Fund A to preserve, develop, and asson of lands purchased with LV f) properties on the Land coalition.com/map-of-lwcf rever located within or adjacent to	Act of 1965 establishesure accessibility to of WCF monies to a non- and Water Conservate aled a total of 21 pro-	d the Land and Water Conserutdoor recreation resources. Secretarion use. ation Fund (LWCF) website operation in Marion County (Aperefore, there will be no impact	vation Fund (LWCF), ection 6(f) of this Act e (Appendix J-1) at ppendix J-2). None of

County N	Marion	Route <u>I-465</u>	Des. No1802075
SECTION E	E – Air Quality		
Air Qu	ualit <u>y</u>		
Is the If YE Is	S, then: s the project in the r s the project exemp f the project is NOT Is the project in t	uality non-attainment or maintenance area? most current MPO TIP?	Yes No X
Leve	el of MSAT Analysis	required?	
Leve	el 1a Level	1b Level 2 X Level 3 Level 4	Level 5
Remarks:	(MPO TIP) and the listing of the lead	cluded in the Fiscal Year (FY) 2020-2024 Indianal the FY 2020-2024 Statewide Transportation Implementary Des. No. (1802075) covers the overall project because purposes of the MPO TIP and STIP under the contraction of the MPO TIP under the contraction o	rovement Program (STIP) (Appendix H-1). The cause the other Des. Nos. have been consolidated
	Ozone under the 1 the February 16, 2 Decision. The pro (TP) and the MF	cated in Perry and Decatur Townships in Marion C 1997 Ozone 8-hour standard, which was revoked in 2018, South Coast Air Quality Management Distripct's design concept and scope are accurately reflect TIP, and both conform to the State Implement O CFR 93 have been met.	2015 but is being evaluated for conformity due to rict V. Environmental Protection Agency, Et. Al. lected in both the Indy MPO Transportation Plan
		ocated in Marion County, which is in attainment Therefore, a hot spot analysis for PM2.5 or CO is no	
	vehicle miles trave Do-Nothing altern increase in VMT alternative. There diesel particulate	alternative, the amount of mobile source air toxic eled, or VMT. The VMT estimated for the preferrative, because the added travel lanes attract trips means MSAT under the preferred alternative valued also be localized differences in MSAT (e.g. matter from tractor-trailers and delivery trucks. Traces in emissions at those locations.	that would not otherwise occur in the area. This would probably be higher than the Do-Nothing g., benzene) from parked cars, and emissions of
	Environmental Proby over 90 percer Documents, FHW mix and turnover, reductions is so gr	are virtually certain to be lower than present legistration Agency's (USEPA) national control programs from 2010 to 2050 (<i>Updated Interim Guidance</i> A, October 12, 2016). Local conditions may differ VMT growth rates, and local control measures. Freat (even after accounting for VMT growth), that Methan they are today.	ams that are projected to reduce MSAT emissions <i>e on Mobile Source Air Toxic Analysis in NEPA</i> r from these national projections in terms of fleet However, the magnitude of the USEPA-projected

Date: February 21, 2020

This is page 32 of 43 Project name: <u>I-465 Reconfiguration</u>

County	Marion		Route	I-465	Des. No.	18020)75
SECTION	I F - NOISE						
							
Noise						Yes	No
Is a noise	analysis required in accordar	ce with F	HWA reg	ulations and INDOT's traffi	c noise policy?	X	
		No	Yes/ Da	te			
ES Reviev	w of Noise Analysis		Draft app	proved for public			
				nent August 29, 2019;			
			•	draft approved for CE			
			Decembe	er 2019.			

Remarks:

A *Draft Traffic Noise Impact Analysis* was conducted for this project and is included in Appendix I. The purpose of the analysis was to evaluate noise impacts and abatement under the requirements of Title 23, Part 772 of the Code of Federal Regulations (23 CFR 772) "Procedures for Abatement of Highway Traffic Noise". The FHWA Traffic Noise Model (TNM) Version 2.5 was used to predict existing and future design year noise levels. Because design year noise levels are predicted to approach or exceed the FHWA Noise Abatement Criteria (NAC), the project has been found to have traffic noise impacts. Based on the *Traffic Noise Analysis Procedure* (2017), the feasibility and cost-effectiveness of noise barriers were considered at all locations in the project area where noise impacts were identified under the future build alternative. Based on this evaluation, 10 feasible and cost-effective barriers were identified for this project. These locations are summarized in the following table and shown on the figures in Appendix I-24 to I-33.

Summary of Feasible and Cost-Effect Noise Barriers

Noise Barrier	Location	Length (feet)	Number of Benefited Receivers
1 + 3	Section C: north side of I-465 between Kentucky Avenue and Mann Road	4,525	123
2 + 4	Section C: south side of I-465 between Kentucky Avenue and Mann Road	3,600	119
6	Section A/B: south side of I-465 between East Street and Madison Avenue	2,700	63
7	Section A/B: north side of I-465 between Madison Avenue and the Louisville & Indiana Railroad	600	38
8+10	Section A/B: south side of I-465 between Madison Avenue and Keystone Avenue	5,100	169
9	Section A/B: north side of I-465 between Louisville & Indiana Railroad and Keystone Avenue	3,850	89
11	Section A/B: north side of I-465 east of Keystone Avenue	1,175	103

Based on the studies completed to date, INDOT has identified 602 impacted receptors and has determined that noise abatement is likely, but not guaranteed, at 10 locations where 581 of the 602 impacted receptors are located (Appendix I-23). Noise abatement at these locations is based upon preliminary design costs and design criteria. Noise abatement in these locations at this time has been estimated to cost approximately \$9.6 million and will reduce the noise level by a minimum of 5 dB(A) at a majority of the identified impacted receptors.

The viewpoints of the benefited residents and property owners were sought and were considered in determining the reasonableness of highway traffic noise abatement measures for proposed highway construction projects. Meeting invitations and pre-stamped surveys, which allowed the resident to state whether or not they would like the noise wall associated with their property constructed, were mailed to each benefited resident on August 13, 2019 (Appendix G-128). On August 29, 2019, a presentation was given on the noise analysis conducted for the project, and boards showing the locations where noise abatement is likely were made available. Meeting materials were

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	County	Marion	Route	I-465	Des. No.	1802075	
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posted online at the project website, www.in.gov/indot/3961.htm. During September 2019, additional noise outreach was conducted in each residential area. This included distributing surveys door-to-door to residents who had not yet responded to the survey, collecting comments, hosting booths in common areas, and attending community events. Additionally, affected businesses and landowners were contacted. These activities were detailed in the Part I - Public Involvement section and in the September 19, 2019 memorandum (Appendix G-126). The noise survey card comment period ended on September 20, 2019.

Of the 512 mailings sent to benefited receivers, 133 positive responses were received, and 6 negative responses were received (27% response rate). Based on the responses received, including comments from business and landowners, the length of three barriers were shortened. The revised barriers were displayed at the public hearing on December 10, 2019 and are presented in Appendix I-24 to I-33. The results of the public hearing are discussed above in Part I – Public Involvement section.

As discussed above, the majority of the comments received at the hearing and during the comment period pertained to the noise analysis, and, specifically, the exclusion of Noise Barrier 12 (Appendix G-168 to G-199). The reason that a noise barrier was not found to be reasonable and feasible in this location was due to high-voltage transmission lines that cross and then run parallel to the interstate in this location. These transmission lines restrict where a barrier could be placed along the right-of-way due to safety issues. Because of these safety issues and the associated risks, a gap would have to be placed within a barrier at this location. Because of this necessary gap, the barrier would not meet the acoustic feasibility criterion (i.e., provide a 5 dBA reduction at a majority of the impacted receptors). Since the wall was not feasible, reasonableness was not evaluated.

Residents in this area also commented on recent vegetation cleared in the area and requested additional noise analysis to account for this removal. Upon review, it was determined that the utility (Duke Energy) recently cleared vegetation in this area, per their safety policy. The recent vegetation clearing at this location does not require a reanalysis of traffic noise impacts and abatement. Per INDOT's *Noise Analysis Procedure*, trees and other dense vegetation should not be modeled unless the vegetation is evergreen and completely blocks all lines of sight to the roadway. Since the vegetation at this location is not evergreen, it was not incorporated into the noise modeling for this project. Furthermore, the gap in the noise barrier must remain. Therefore, the noise results provided in the *Traffic Noise Impact Analysis* already reflect conditions without vegetation in this area.

This project is a design build best value (DBBV). All of the proposed noise barriers will be reevaluated, and the final decision on the installation of any abatement measure(s) will be made upon the completion of the projects' final design and the public involvement process. INDOT will incorporate highway traffic noise consideration in ongoing activities for public involvement in the highway program. If during final design it has been determined that conditions have changed such that noise abatement is not feasible and reasonable, the abatement measures might not be provided. The *Traffic Noise Impact Analysis* will be finalized by the DBBV contractor.

SECTION G - COMMUNITY IMPACTS

Regional, Community & Neighborhood Factors

Will the proposed action comply with the local/regional development patterns for the area? Will the proposed action result in substantial impacts to community cohesion? Will the proposed action result in substantial impacts to local tax base or property values?

Will construction activities impact community events (festivals, fairs, etc.)? Does the community have an approved transition plan?

If No, are steps being made to advance the community's transition plan? Does the project comply with the transition plan? (explain in the remarks box) X X X

No

Yes

This is page 34 of 43 Project name: I-465 Reconfiguration Date: February 21, 2020

Indiana Department of Transportation								
County	Marion	Route	I-465		Des. No.	18020)75	
Remarks:	The I-465 Reconfiguration project involves the reconschanges to access, it will not impacts are expected to do issues on these sections of have minimal impacts to dominimized through stakehold. The City of Indianapolise effective in 2013. An annual by the City of Indianapoli applicable Americans with	struction of existing her result in substantial evelop as a result of 1-465. Therefore, this community cohesion, lider coordination and most recent transital report demonstrating on December 28, 2	nighways and int impacts to com- the project. This is project will po- the local tax ba should not impa- tion/accessibility ag continued impa- 2018. The project	erchanges, primarily we munity cohesion. No si project is necessary to sitively impact motori se, or property values ct community events. implementation plan lementation of accessily	within the ex gnificant eco o address th sts using the . Impacts fr was devel- bility enhance	cisting Ronomic on safety is facility om the oped and cements	OW, with no or community and capacity y, and should MOT will be d considered was prepared	
	nd Cumulative Impacts posed action result in subs	tantial indirect or cu	mulative impac	ts?	[Yes	No X	
Remarks:	Indirect impacts are effects still reasonably foreseeable changes in the pattern of la result from the incrementa actions regardless of what impacts because it involve highly developed areas. As Similarly, the project will a has been highly developed addition, the project's impacts.	e. Indirect effects mand use, population de al impact of the action agency or person un a result, there will be not result in substantia, so there will be mindered.	ny include grown ensity, or growth n when added to dertakes such act of existing highway eminimal opport al cumulative im- nimal impacts as	h inducing effects and rate. Cumulative imparts of other past, present, a ctions. The project will vays and interchanges unity for the project to pacts because it is local sociated with other pa	d other effect acts affect the and reasonal d not result with no chat induce deve ted in an areast, present,	cts related the environments of the the environments of the the environments of the the environments of the environment of the environments of the environments of the environments of the environments of the environment of the environment of the environments of the environment of the environmen	ed to induced onment which seeable future antial indirect access within arrently is and re actions. In	
Will the proprivate utili	cilities & Services sposed action result in substies, emergency services, refacilities? Discuss how the	eligious institutions,	airports, public	transportation or ped	ic and destrian	Yes	No X	
and bicycle Remarks:	Based on a desktop review aerial map of the project facilities are located within airport, sidewalks on two sidewalks on the Keystone located within or adjacent to	area (Appendix B-6) n the 0.5 mile of the local bridges, and pu Avenue bridge over	, and the RFI r project: two sch blic transit oper	eports (Appendix E-1 pols, four recreational ated by IndyGo. Excep	and E-17), facilities, or pt for the bu	the following the mana	owing public ged land, one and existing	
	Access to all public facilit temporary closure during of to be replaced to accommon a detour for motorists will with 8-foot wide sidewalks with 6.6-foot wide sidewalks	construction. Impacts date the added lanes of the provided. The Key and The Madison Avenu	to the sidewalks on I-465. It is ass ystone Avenue b	on bridges cannot be umed temporary closur ridge has 4-foot wide s	avoided bec re of these b sidewalks, w	ause the ridges w which wi	bridges need vill occur, and ll be replaced	
	IndyGo, the Indianapolis participate in the CAC me							

Date: February 21, 2020

I-465 Reconfiguration

This is page 35 of 43 Project name:

		man	una De	partine	01 1	anspo	, tation			
County	Marion		Route	e <u>I-465</u>	5		[Des. No.	180207	5
			22 2010						- · ·	
	was sent to CAC memb			(Appendix	: G-22). No	response	was receiv	ed. The IS	Railroad a	and the IAA
	It is the responsibility of prior to any construction to any construction that Environmental Committee	n that woul it would b	d block or lock or lin	limit acces	s. Addition	nally, Indy	Go must be	notified a	t least two	weeks prior
invironm	ental Justice (EJ) (Presi	idential E(7 12909)					,	′es ∣	No
During the Does the p	development of the projectoroject require an EJ anal	ect were E		dentified?					<i>X</i>	NO
	en: any EJ populations locate the project result in adver				impacts to	EJ popul	ations?		Χ	X
Remarks:	Under FHWA Order 6640.23A, FHWA and INDOT, as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT CE Manual, an Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 acre of additional permanent ROW. The project will require no ROW and no relocations. However, since this project is a Type 1 project requiring noise analysis and a CE-4, it was determined by INDOT that EJ analysis is warranted.									
Potential EJ impacts are detected by locating minority and low-income populations relative to a ref determine if populations of EJ concern exists and whether there could be disproportionately high an them. The reference population may be a county, city or town and is called the community of compa project, the COC is Marion County. The community that overlaps the project limits is called the (AC). In this project, the ACs are eight census track block groups (CTBGs) in Section A/B, AC-A th CTBGs in Section C, AC-I to AC-N.						and adverso parison (C e affected	e impacts to OC). In this community			
	An AC has a population income or minority por Community Survey five July 2019 by Parsons. The Community Survey for the Co	pulation is year estiment. The data co	s 125% of nate was ob llected for	f the COC stained from minority a	C. Data from the US Country of the US Country of the Country of th	om the U. Census Bure come popul	S. Census eau Websit ations with	Bureau's te https://fa	2013-2017 ctfinder.ce	7 American nsus.gov/ in ons A/B and
	Section C are summar Preliminary EJ Analysis				inore de	taned disci	ussion is j	provided ii	i ille Aug	ust 8, 2019
	Section A/B I-465 Reconfi									
		COC	AC-A Block Group	AC-B Block Group	AC-C Block Group	AC-D Block Group	AC-E Block Group	AC-F Block Group	AC-G	AC-H
		Marion County, Indiana	3, Census Tract 3804.02	1, Census Tract 3804.04	1, Census Tract 3805.01	2, Census Tract 3805.01	1, Census Tract 3805.02	3, Census Tract 3805.02	Block Group 1, Census Tract 3806	Block Group 3, Census Tract 3806
	Minority Percent Minority	43.3	27.1	43.1	6.9	20.1	35.8	24.5	35.8	22.2
	125% of COC	54.1	AC<125% COC	45.1 AC<125% COC	AC<125% COC	AC<125% COC	AC<125% COC	AC<125% COC	AC<125% COC	AC<125% COC
	EJ Population of Concern	N/A	No	No	No	No	No	No	No	No

As shown in the above-table, all eight ACs within Section A/B have a percent minority below 50 and below the 125% COC threshold, therefore they do not contain minority populations of EJ concern.

18.0

AC<125% COC

10.3

AC<125% COC

18.4

AC<125% COC AC<125% COC

24.6

Percent Low-Income

EJ Population of Concern

125% of COC

19.8

24.7

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AC-C, AC-F, AC-G, and AC-H have a percent low-income that are below 50 and are below the 125% COC threshold. AC-A, AC-B, AC-D, and AC-E have a percent low-income that are below 50 but are above the 125% COC threshold. Therefore, of the eight ACs within Section A/B, four are low-income populations of EJ concern, specifically AC-A, AC-B, AC-D, and AC-E.

Section C I-465 Reconfiguration Minority and Low-Income Data (ACS 2017)

	coc	AC-I	AC-J	AC-K	AC-L	AC-M	AC-N
	Marion County, Indiana	Block Group 1, Census Tract 3702.01	Block Group 2, Census Tract 3702.01	Block Group 3, Census Tract 3702.01	Block Group 4, Census Tract 3702.01	Block Group 3, Census Tract 3702.02	Block Group 1, Census Tract 3703.02
Minority							
Percent Minority	43.3	3.6	8.0	10.6	7.6	4.7	14.9
125% of COC	54.1	AC<125% COC					
EJ Population of Concern	N/A	No	No	No	No	No	No
Low-Income							
Percent Low-Income	19.8	10.0	1.5	37.3	17.8	8.8	21.4
125% of COC	24.7	AC<125% COC	AC<125% COC	AC>125% COC	AC<125% COC	AC<125% COC	AC<125% COC
EJ Population of Concern	N/A	No	No	Yes	No	No	No

As shown in the above-table, all six ACs within Section C have a percent minority below 50 and below the 125% COC threshold, therefore they do not contain minority populations of EJ concern.

AC-I, AC-J, AC-L, AC-M, and AC-N have a percent low-income that are below 50 and are below the 125% COC threshold. AC-K has a percent low-income of 37.3, which is below 50% but is above the 125% COC threshold. Therefore, of the six ACs adjacent to Section C, five ACs are not low-income populations of EJ concern. AC-K is a low-income population of EJ concern.

The map showing the AC boundaries, summary tables, and data obtained from Census.gov are provided in Appendices B-105, J-7, J-8, and J-9, respectively.

Specific Communities

Specific communities along the alignment were researched to help identify potential EJ populations. Additionally, the U.S. Department of Housing and Urban Development (HUD) mapper tool was used to identify potential low-income communities. https://resources.hud.gov/. The results are summarized below and shown on the maps in Appendix J-23 and J-24.

- Hanna Village Apartments, at 4020 Hanna Village Drive, is located 0.4 mile north of Section A/B. This
 apartment complex is listed under the HUD low-income housing tax credit program.
- Valley Forge Apartments, at 4350 Madison Avenue, is 0.1 mile north of Section A/B along Madison Avenue. This apartment complex is listed under the HUD low-income housing tax credit program.
- Madison Mobile Home Community, at 4403 Madison Avenue, is adjacent to Section A/B at the northeast of I-465 and Madison Avenue.
- Longacre Mobile Home Park, at 4701 Madison Avenue, is located adjacent to Section A/B, southwest of I-465
 and Madison Avenue. This mobile home community is located within AC-D, which is a low-income population
 of EJ concern.
- Village of North Acre, at 1507 E Little Piney Way, is a mobile home community located adjacent to Section A/B.
- Decatur Township Center, 4851 Tincher Road, is a nursing home facility that abuts Section C of the project.
- Abbey Apartments, at 4012 Mann Road, is located 0.6 mile north of Section C. It is identified as a low income, elderly, and special needs housing by HUD.
- Two community organizations that appear to represent ethnic groups were identified near the project area:
 Burmese American Community Institute and Chin Community of Indiana-Chin Center (Southeast Asian ethnic group).

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This is bade 57 of 45	Project name.	1-405 Reconfiguration	Date.	February 7.1. 2020

County					
	Marion	Route	I-465	Des. No.	1802075
	for translation to Chir received at communi	n language was requested a	t the public open hous bed in Public Involve	ed to the July 10, 2019 public se. Additionally, requests for ment section). Parsons works Spanish language.	Spanish language were
	closures within interc cause an inconvenier provided, coordinatio roads. Additionally, t	changes, and local road clo nee to motorists, substantia on with transit (IndyGo) is the closure of consecutive by	sures for bridge replated impacts to EJ popular required, and the proridges (e.g., Keyston	ctions along I-465, occasions accements. Detours will be pro- lations are not anticipated be roject area contains a well-d e Avenue and Madison Aven nately high and adverse effect	ovided. While this will ecause detours will be eveloped grid of local nue) will be prohibited.
		e residential communities v	-	s, a noise meeting, and commerce proposed (see the Noise a	
	area. Noise barriers contains EJ population Since there were no evaluated. The major	are proposed for the commons of concern, but the propnoise-sensitive uses within	munities in AC-D (E perties adjoining I-465 this section of I-465 impacts do not conta	st of the project area and outstarriers 8 and 10) and AC-E are mostly vacant land or co (between I-70 and SR 67), rain EJ populations of concernadverse.	E (Barrier 11). AC-K ommercial warehouses. noise barriers were not
	income populations of EJ populations. This	of EJ concern. Additionally project has no relocations coordination regarding MO	, there are multiple a and will require no n Γ during construction 5 Reconfiguration Pr	AC-D, AC-E, and AC-K) were djacent and nearby communities or temporary ROW. Importable in the Public Involvoject should not have a disproper trading to the property of the pr	ities that likely contain acts will be minimized rement section) and the oportionately high and
	installation of noise b	populations. At this time, r	io futulei elivitolillei	tai jastice anaiysis is wairant	ea.
	installation of noise b		io furtilei environinei	nur justice unurysis is warrant	ed.
Will the prosecution of the world with the will be wil	installation of noise by adverse impact on EJ n of People, Business opposed action result in less Information Survey optual Stage Relocation	populations. At this time, research for Farms the relocation of people,	businesses or farm		Yes No
Will the production of the work of the work of the will the will the work of t	installation of noise by adverse impact on EJ n of People, Business opposed action result in less Information Survey optual Stage Relocation relocation coordination	ses or Farms the relocation of people, (BIS) required? Study (CSRS) required been initiated for this present the study of the present the study of t	businesses or farm	ns?	Yes No

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County Mar	ion	Route	I-465	Des. No.	1802075
SECTION H -	HAZARDOUS MATI	ERIALS & REG	ULATED SUBSTA	NCES	
Red Flag Investi Phase I Environ Phase II Environ	erials & Regulated Su gation mental Site Assessmen mental Site Assessmen ations for Remediation i	nt (Phase I ESA) nt (Phase II ESA)		<u>X</u>	
ES Review of Ir	nvestigations	No Yes/ D			

Include a summary of findings for each investigation.

Remarks:

Based on a review of GIS and available public records, RFIs (one for each section) were completed on May 9, 2019 by Parsons (Appendix E-1 and E-17). The following table summarizes the hazmat sites located within 0.5 mile of the project area.

Summary of Hazmat Sites

Type of Site	Total No. within 0.5 mile	Nearest Site and Distance	Facility Type / Regulatory Status
		Section A	/B
Resource Conservation and Recovery Act (RCRA)/ Transfer Disposal Facility (TSD)	3	0.3 mile north	Service station / conditionally exempt generator of hazardous of waste
State Cleanup	3	0.10 mile north	Former service station / granted No Further Action status by IDEM in 2010
Underground Storage Tanks (USTs)	6	0.27 mile north	Service station / three registered USTs with no reported releases
Voluntary Remediation Program (VRP)	2	0.20 mile south	Commercial / Granted a Certificate of Completion from IDEM. An environmental restrictive covenant (ERC, a type of Institutional Control) was placed on the property's deed.
Solid Waste Landfill	1	0.07 mile north	Residential / no file on Virtual File Cabinet
Leaking Underground Storage Tank (LUST)	25	0.13 mile north	Service station / IDEM issued an Agreed Order for paperwork in August of 2018. A release from USTs was reported in 1991.
Institutional Controls	4	0.13 mile north	Same site listed above under "LUST"
National Pollutant Discharge Elimination System (NPDES) Facilities	3	Adjacent	Industrial / no impact is expected
NPDES Pipes	2	Crosses the site	Citizens Energy Group Pipeline / coordination is ongoing
		Section 0	
RCRA/TSD	2	0.15 mile southwest	Industrial / hazardous waste generator
State Cleanup	1	Adjacent west	Indy Railway Service Corp. / no evidence of significant soil or groundwater contamination was encountered in 2012.
UST	2	0.11 mile east	Commercial / no violations or releases
LUST	7	0.10 mile southwest	Service station / granted No Further Action status in May 2001

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		инина Бера	ii tiiieiit Oi	Transportation
County	Marion	Route	I-465	Des. No1802075
	Institutional Controls	2	0.20 mile southwest	Filling station / an ERC was placed on the property in 2009 for residual petroleum contamination from a 1988 release
	NPDES Facilities	6	Adjacent east	Commercial / no impact is expected
	NPDES Pipes	1	0.35 mile northeast	Industrial / no impact expected
		project. No im	pacts to the ot	tizens Energy pipeline, should not be impacted. Utility her hazmat sites are expected. Further investigation for
SECTION	ON I – PERMITS CHECKLIST			
Permits	(mark all that apply)		Likely Requ	<u>uired</u>
IDEM	orps of Engineers (404/Section16 Individual Permit (IP) Nationwide Permit (NWP) Regional General Permit (RGP) Pre-Construction Notification (PCN Other Wetland Mitigation required Stream Mitigation required Section 401 WQC Isolated Wetlands determination Rule 5 Other Wetland Mitigation required Stream Mitigation required Stream Mitigation required Construction in a Floodway Navigable Waterway Permit Lake Preservation Permit Other Mitigation Required st Guard Section 9 Bridge Permi		X	
Others	(Please discuss in the remarks I	oox below)	X	
Remark	Wetland Permit will be required be needed with IDEM and IDEM's electronic coordinate. This work will impact the fluction of the compact of the coordinate o	ired. Stream ar USACE to dion discussed the oodplains of Mikely be required to compensate	nd wetland midetermine mitinese permit reduced for the reduced for these impacts of the second management of the second for these impacts of these impacts of the second for the second fo	itigation will be required. Further coordination will igation requirements. IDNR-DFW's response and quirements (Appendix C-5 and C-14). Leek and Lick Creek, therefore it will require IDNR moval of trees from the floodplain of Lick Creek. A pacts. IDNR-DFW's response to early coordination
	More than one acre of land electronic coordination discu			an IDEM Rule 5 permit will be required. IDEM's (Appendix C-14).

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Based on the early coordination response from INDOT Aviation, a tall structure permit will be needed (Appendix C-22).

Applicable recommendations provided by IDNR-DFW, USFWS, and IDEM are included in the Environmental Commitments section of this document. If permits are found to be necessary, the conditions of the permit will be requirements of the project and will supersede these recommendations.

It is the responsibility of the project sponsor to identify and obtain all required permits.

SECTION J- ENVIRONMENTAL COMMITMENTS

The following information should be provided below: List all commitments, name of agency/organization requesting the commitment(s), and indicating which are firm and which are for further consideration. The commitments should be numbered.

Remarks:

Firm:

- 1) If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT Greenfield)
- 2) It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access. (INDOT ESD)
- 3) Bridge piers cannot be placed within the OHWM of jurisdictional streams (Lick Creek and McFarland). (INDOT)
- 4) It is the responsibility of the project sponsor to notify IndyGo at least two weeks prior to any construction that would block or limit access to public transit routes. (INDOT)
- 5) During construction, the closure of consecutive bridges (e.g., Madison Avenue and Keystone Avenue) at the same time is prohibited. (INDOT)
- 6) INDOT should coordinate with DPW to manage the potential for increased stormwater runoff into two adjacent DPW projects, one in Section A/B and one in Section C. The current project manager for both projects is David Haas (David.Hass@indy.gov). (City of Indianapolis)
- 7) GENERAL AMM 1: Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs. (USFWS)
- 8) LIGHTING AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 9) LIGHTING AMM 2: When installing new or replacing existing permanent lights, use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting); or for those transportation agencies using the BUG system developed by the Illuminating Engineering Society, be as close to 0 for all three ratings with a priority of "uplight" of 0 and "backlight" as low as practicable. (USFWS)
- 10) TREE REMOVAL AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 11) TREE REMOVAL AMM 2: Apply time of year restrictions for tree removal when bats are not likely to be present (i.e. no clearing April 1 to September 30), or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/ rail surface and outside of documented roosting/foraging habitat or travel corridors;

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			_ 000.	

visual emergence survey must be conducted with no bats observed. (USFWS)

- 12) 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)
- 13) TREE REMOVAL AMM 4: Do not remove documented Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or documented foraging habitat any time of year. (USFWS)
- 14) USFWS Bridge/Structure Assessment shall take place no earlier than two (2) years prior to the start of construction. Current surveys were conducted between July 2018 and March 2019. Since construction will likely begin after July 2020, inspection of structures by qualified individuals must be performed. The inspection of the structures should check for presence of bats/bat indicators and/or presence of birds. The results of the inspection must indicate no signs of bats or birds. If signs of bats or birds are documented during this inspection, the INDOT District Environmental Manager must be contacted immediately. (INDOT ESD)
- 15) If box or pipe culverts are used, the bottoms should be buried to a minimum of 6 inches (or 20% of the culvert height/pipe diameter, whichever is greater up to a maximum of 2 feet) below the stream bed elevation to allow a natural streambed to form within or under the crossing structure. Crossings should: span the entire channel width (a minimum of 1.2 times the bankful width); maintain the natural stream substrate within the structure; have a minimum openness ratio (height x width/length) of 0.25; and have stream depth and water velocities during low-flow conditions that are approximate to those in the natural stream channel. The new, replacement, or rehabbed structure should not create conditions that are less favorable for wildlife passage under the structure compared to the current conditions. (IDNR-DFW)
- 16) 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 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 central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. (IDNR-DFW)
- 17) Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. Impacts to non-wetland forest 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 inches dbh or greater (5:1 mitigation based on the number of large trees). (IDNR-DFW)
- 18) Do not cut any trees suitable for Indiana bat or Northern Long-eared bat roosting from April 1 through September 30. (IDNR-DFW)
- 19) Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pump-arounds. (IDNR-DFW)
- 20) Use minimum average six-inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids. (IDNR-DFW)

For Further Consideration:

21) The project should comply with the *City of Indianapolis Storm Water Design and Construction Manual* including Chapter 700 Stormwater Quality and Chapter 600 Erosion and Sediment Control. (City of Indianapolis)

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SECTION K-EARLY COORDINATION

Please list the date coordination was sent and all 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. INDOT and FHWA are automatically considered early coordination participants and should only be listed if a response is received.

Remarks:

Early coordination letters were sent on June 25, 2019 (Appendix C-1). The list of agencies are summarized below and shown on Appendix C-4.

Early Coordination

Agency	Response Received	Appendix C Page #'s
IDNR-DFW	July 25, 2019	C-8
IGWS (electronic coordination)	June 26, 2019	C-10
IDEM (electronic coordination)	June 26, 2019	C-14
City of Indianapolis Department of Public Works	July 1, 2019	C-21
INDOT Aviation	July 24, 2019	C-22
USACE	None	N/A
USFWS	None	N/A
Natural Resources Conservation Service (NRCS)	None	N/A
Indianapolis MPO	None	N/A
U.S. HUD	None	N/A
National Park Service	None	N/A

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Appendix A

INDOT Supporting Documentation

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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	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	Individual 404 Permit
Wetland Impacts	No adverse impacts to wetlands	< 0.1 acre	-	< 1 acre	≥ 1 acre
Right-of-way ³	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations	None	-	-	< 5	≥ 5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)	"No Effect", "Not likely to Adversely Affect" (Without AMMs ⁴ or with AMMs required for all projects ⁵)	"Not likely to Adversely Affect" (With any other AMMs)	-	"Likely to Adversely Affect"	Project does not fall under Species Specific Programmatic
Threatened/Endangered Species (Any other species)	Falls within guidelines of USFWS 2013 Interim Policy	"No Effect", ""Not likely to Adversely Affect"	-	-	"Likely to Adversely Affect"
Environmental Justice	No disproportionately high and adverse impacts	-	-	-	Potential ⁶
Sole Source Aquifer	Detailed Assessment Not Required	-	-	-	Detailed Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Coastal Zone Consistency	Consistent	-	-	-	Not Consistent
National Wild and Scenic	Not Present	-	-	-	Present
River	News				A
New Alignment	None None	-	-	-	Any
Section 4(f) Impacts Section 6(f) Impacts	None None	-	-	-	Any
Added Through Lane	None	-	-	-	Any Any
Permanent Traffic Alteration	None	-	-	<u>-</u> -	Any
Coast Guard Permit	None		-	-	Any
Noise Analysis Required	No	-	-	-	Yes
Air Quality Analysis Required	No	-	-		Yes ⁷
Approval Level	Concurrence by INDOT District				100
 District Env. Supervisor Env. Services Division 	Environmental or Environmental Services	Yes	Yes	Yes Yes	Yes Yes Yes
FHWA Coordinate with INDOT Environmental Section 1.		11	: · EIIII ·	. 10	105

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

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

³Permanent and/or temporary right-of-way.

⁴AMMs = Avoidance and Mitigation Measures.

⁵AMMs determined by the IPAC decision key to be needed that are listed in the USFWS *User's Guide for the Range-wide Programmatic Consultation* for Indiana bat and Northern long-eared bat as "required for all projects".

Potential for causing a disproportionately high and adverse impact.

⁷Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

^{*}Substantial public or agency controversy may require a higher-level NEPA document.