# **DOTD FORM: 24-102**

## (Revised March 1, 2022)

#### PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

1	Contract title as shown in the advertisement	LIBUSE CUTOFF RD OVER FLAGON BAYOU
2.	Contract number(s) as shown in the advertisement	4400025035
3.	State Project Number(s), if shown in the advertisement	H.014984.5
4.	Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	TriCoeur Services, L.L.C.  TriCoeur  Services LLC
5.	Prime consultant license number (as registered with the	EF#: 4660
	Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	VF#: 0653
6.	Prime consultant mailing address	9270 Siegen Lane, Suite 501, Baton Rouge, LA 70810
	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	9270 Siegen Lane, Suite 501, Baton Rouge, LA 70810
8.	Name, title, phone number, and email address of prime	Barry P. Gahagan, PE, PLS; Projects Principal
	consultant's contract point of contact	Phone: 225-266-7507
		E-Mail: BGahagan@TriCoeur.com
9.	Name, title, phone number, and email address of the official	Aileen Foley, Managing Principal
	with signing authority for this proposal	Phone:225-228-2681
135		Email: AFoley@TriCoeur.com



10. This is to certify that all information contained herein is		
accurate and true, and that the team presently has sufficient		
staff to perform these services within the designated time		
frame. By submitting this proposal, proposer certifies that it		
is not engaged in a boycott of Israel and it will, for the		
duration of its contract obligations, refrain from a boycott of		
Israel. Proposer also certifies and agrees that the following		
information is correct: In preparing its response, the		
proposer has considered all proposals submitted from		
qualified, potential subcontractors and suppliers, and has		
not, in the solicitation, selection, or commercial treatment of		
any subcontractor or supplier, refused to transact or		
terminated business activities, or taken other actions		
intended to limit commercial relations, with a person or		
entity that is engaging in commercial transactions in Israel		
or Israeli-controlled territories, with the specific intent to		
accomplish a boycott or divestment of Israel. The proposer		
also has not retaliated against any person or other entity for	Signature (shall be the same person as #9):	
reporting such refusal, termination, or commercially	11 7	
limiting actions. DOTD reserves the right to reject the	Welen Foley	
response of the bidder or proposer if this certification is	Date: December 6, 2022	
subsequently determined to be false, and to terminate any		
contract awarded based on such a false response.		
11. If a Disadvantaged Business Enterprise (DBE) goal has been	Firm(s):	Firm(s)'
set for this advertisement, indicate which firm(s) will be	<u>%:</u>	
used to meet the DBE goal and each firm(s)' percentage.	N/A	

## 12. Past Performance Evaluation Discipline Table:

As indicated in the advertisement, insert the completed table here. The percentages for the prime and sub-consultants must total 100% for **each past performance evaluation discipline**, as well as the overall total percent of the contract.

Sub-consultants are allowed to be used for this proposal. Fill in the table by identifying only those evaluation disciplines consistent with the approach and methodology proposed in Section 18 of the DOTD Form 24-102\*, the name of each firm that is part of the proposal, and the percentage of work in each past performance evaluation discipline to be performed by that firm. The percentage estimated for each evaluation discipline is for evaluation purposes only and will not control the actual performance or payment of the work. The percentages for prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percentage of the contract.

Evaluation Disciplines	% of Overall Contract	Prime TriCoeur Services, LLC	Firm B Landsource, Inc.	Firm C Terracon Consultants, Inc.	Each Discipline must total to 100%
Survey	28.1%	10%	90%	0%	100%
Bridge	63.3%	100%	0%	0%	100%
Environmental	8.6%	4%	0%	96%	100%
Identify the percentage o	f work for the ove	erall contract to be pe	rformed by the prime	e consultant and each sub-cons	sultant
Percent of Contract	100%	66.4%	25.3%	8.3%	



## 13. Firm Size:

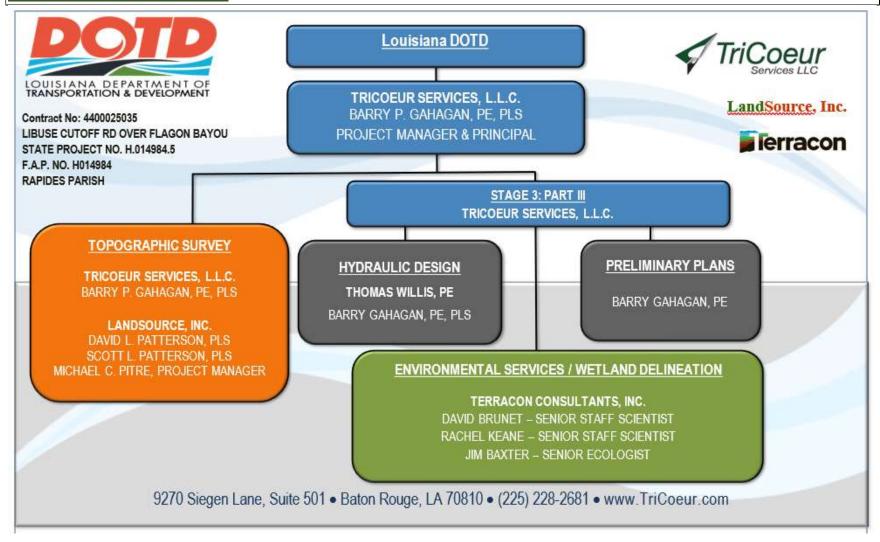
For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (xxxx)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link:

 $\underline{http://wwwsp.dotd.la.gov/Inside\_LaDOTD/Divisions/Engineering/CCS/Job\_Qualification/Job\%20Classifications\%20with\%20Descriptions.pdf}$ 

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
	Administrative	1	1
TriCoeur  Services LLC	Principal	1	1
Services LLC	Engineer	1	2
	CADD Technician	1	1
	Engineer - Intern	1	1
LandSource, Inc.	Surveyor	1	2
LandSource, Inc.	CADD Technician	1	4
	Clerical	1	2
	Instrument Man	1	4
	Party Chief	1	4
<b>Fierracon</b>	Biologist/Wetlands	2	20
<b>MICHACOII</b>	Environmental Manager	1	15



## 14. Organizational Chart:





## 15. Minimum Personnel Requirements:

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
1	Barry P Gahagan, PE		PE /Civil 21586	LA	3/31/2024
2	Barry P Gahagan, PE	TriCoeur	PE /Civil 21586	LA	3/31/2024
3	Barry P Gahagan, PE	V Services LLC	PE /Civil 21586	LA	3/31/2024
4	David L. Patterson	LandSource, Inc.	PLS.0004784	LA	3/31/2023
4	Scott L Patterson	<u> </u>	PLS.0005246	LA	9/30/2023
5	Jim Baxter	Fierracon	N/A	N/A	N/A



## 16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm emplo	Firm employed by TriCoeur Services, L.L.C.							
Name	Barr	y P Gahagan, P.E., P.L.	S.	Years of relevant experience with this employer	12			
Title	Proje	ets Principal	000	Years of relevant experience with other employer(s)	31			
Degree(s) /	Degree(s) / Years / Specialization			Bachelor of Science/ 1980 / Civil Engineering LSU				
13.1.1.2 3.0348 891.7.4		7,500		Master of Science / 1990 / Civil (Structural) Engineering LS	U			
Active regis	stration	number / state / expiration	on date	PE LA 21586, PLS 4834 / Louisiana / 3/31/2024				
Year registe	ered	1985	Discipline	Civil Engineering				
822		1997	SAM	Land Surveying				
Contract ro	le(s) / 1	orief description of respon	nsibilities	Project Manager				
Experience	1	Experience and qualification	ations relevant to the	e proposed contract; i.e., "designed drainage", "designed gird	ders", "designed			
dates				over the time specified in the applicable MPR(s).				
12/18 - 07/2	20			Pine Street over West Prong of Young's Bayou & Harrison	– Collier			
		Streets over Concrete Drainage Canal) TS & PP						
		Project Manager/ directed topographic survey/ designed horizontal and vertical geometrics for approach roadways and						
				age design/ reviewed plan preparation of two multiple RCB cre	ossings in place			
	Section 2			rewed alignments in FEMA floodways.				
12/18 - 03/2	20			m Cryer Rd. over Bayou Anacoco) TS & PP				
				ey/ designed horizontal and vertical geometrics for approach roadways and				
		bridge span configuration/ developed structure type size and location recommendation/ reviewed plan preparation of a 5						
				ent to enabling Parish's request to through travel during				
				6) 40ft spans to improve debris passage and gain economic	s advantage by			
00/12 02/	1.5	elimination of one intern	THE AMERICAN I TO A STREET	III (OII D. II D.				
09/13 - 03/	17			rish (Sligo Road Bridges) TS, PP & FP	1.71			
			ey/ designed horizontal and vertical geometrics along extremely hilly terrain					
				guration/ developed structure type size and location recommen				
				ches and reviewed plan preparation for the skewed 12 span Qu				
				ng of Gayle's Creek. Site construction sequencing to maintain	access to			
	35%	landowners between site	S.					



0.1/2.5 0.1/2.5	
04/13 - 04/16	SP No. H010040.5 OSB Morehouse Parish (Bud Road & Bonne Idee Road Bridges) TS, PP & FP
	Project Manager/ designed horizontal and vertical geometrics for approach roadways and bridge span configuration/
	developed structure type size and location recommendation/ ROW taking sketches and reviewed plan preparation for
	skewed /re-aligned/ curved and super-elevated slab span crossings. Prepared cantilevered sheetpile wall system design to
	minimize wetland encroachment.
05/13 - 01/14	East Baton Rouge City Parish Project No. 12-BR-US-018 (East Brookstown Bridge over Hurricane Bayou, Bridge
	Replacement) TS, PP & FP
	Project Manager/ designed horizontal and vertical geometrics for approach roadways and bridge span configuration/
	developed structure type size and location recommendation/ and reviewed plan preparation for slab span crossings over
	concrete lined channel and along challenging utility corridor including shallow, large diameter sewer force main and
	maintained pedestrian access.
02/19 - 03/20	East Feliciana Parish Project No. PW1178-DR 4277 LA (FEMA) (Carruth Road Bridge) TS, PP & FP
Section 1 Section 1	Project Manager/ directed topographic survey/ designed horizontal and vertical geometrics along narrow flood prone
	corridor for approach roadways and bridge span configuration/ developed structure type size and location recommendation
	and reviewed plan preparation for a multi span LG25 crossing as a cost saving alternative to "in kind" timber bridge
	crossing of the Lateral and Comite Creek Relief structure north of Clinton, LA.
02/19 - 04/20	East Feliciana Parish Project No. PW1190-DR 4277 LA (FEMA) (John Thomas Lane Bridge) TS, PP & FP
	Project Manager/ directed topographic survey/ designed horizontal and vertical geometrics along narrow flood prone
	corridor for approach roadways and bridge span configuration/ ROW taking sketches /developed structure alternative span
	recommendation and reviewed plan preparation for a multi concrete slab crossing as a cost saving alternative to "in kind"
	timber bridge crossing of the Waterfall Bayou structure south of Clinton, LA.
02/17 - 02/18	West Feliciana Parish Project No. 16-HMP-PW-02 (FEMA) (Plettenberg Road Bridge) TS, PP & FP
	Project Manager/ directed topographic survey/ designed horizontal and vertical geometrics along sharply curved alignment
	in extremely flood prone corridor for approach roadways and bridge span configuration/ prepared ROW taking sketches
	/developed structure alternative span recommendation of three central quad beam spans and curved end slab spans/
	reviewed plan preparation for the Polly Creek crossing replacement structure in the seasonally flood prone areas from the
	Mississippi River batture north of St Francisville, LA.
02/11 - 02/13	Jefferson Parish Project No. DPW-97-046B-DR(SELA) (WB West Metairie Ave over Soniat Canal) PP & FP
	Project Manager/ directed topographic survey/ designed horizontal and vertical geometrics along curved alignment
	requiring split phase construction, channel paving, approach surcharge loading and designed superstructure and
	substructure including segmental spliced precast pile construction below high tower electrical transmission lines. This
	project alternative was conceived following realization of constructability issues at the confluence of pumped drainage
	canals at the upstream terminus of USACE/SELA flood improvement project.
	canals at the apstream terminus of correct object.



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Firm employed	by TriCoeur Services, L.L.C.					
Name The	omas M. Willis, P.E.	Years of relevant experience with this employer	7			
Title Pro	ject Engineer (Hydr & Env)	Years of relevant experience with other employer(s)	35			
Degree(s) / Year	rs / Specialization	BS/ 1981/ Civil Engineering				
Active registrati	on number / state / expiration date	24205 / LA Expiration: 3/31/2024				
Year registered	1991 Discipline	Civil (Hydraulic) & Environmental Engineering				
Contract role(s)	/ brief description of responsibilities	Project Engineer Civil (Hydraulic) & Environmental				
Experience dates		e proposed contract; <i>i.e.</i> , "designed drainage", "designed gire over the time specified in the applicable MPR(s).	ders", "designed			
12/18 - 07/20	SP No. H013122.5 OSB Ouachita Parish (	Pine Street over West Prong of Young's Bayou & Harriso	<mark>n – Collier</mark>			
	Streets over Concrete Drainage Canal) H					
		es reports/ calibrated results to conform to FEMA data in unde				
		drainage network of Monroe, LA./ confirmed sufficiency of Parish preferred multiple RCB bridge replacements along				
existing skewed alignments in FEMA floodways.						
12/18 - 03/20	SP No. H013098.5 OSB Vernon Parish (Jim Cryer Rd. over Bayou Anacoco) HYDR					
	Project Engineer/ Prepared hydraulic analyses report for bridge span configuration developed structure type size and					
	location recommendation/ reviewed plan preparation of a 5 span LG25 crossing along offset alignment in woody debris					
00/12 02/17	prone regions downstream of the Anacoco L					
09/13 – 03/17	SP No. H010597.5 OSB West Feliciana Parish (Sligo Road Bridges) HYDR					
	Project Engineer/ Prepared hydraulic analyses reports for two bridge sites along extremely hilly terrain/flashy streams for Quad Beam bridge spans for the skewed 12 span crossing of Bayou Sara and the 3 span crossing of Gayle's Creek.					
02/19 - 03/20			s Cleek.			
02/19 - 03/20	East Feliciana Parish Project No. PW1178-DR 4277 LA (FEMA) (Carruth Road Bridge) HYDR  Project Engineer/ Prepared hydraulic analyses reports for narrow flood prone corridor for roadway crossing at the confluence of a					
	drainage lateral and significant primary channel relief along the existing bridge upstream face. Developed hydraulic studies inclusive					
	of 20ft timber and 48ft LG25 girder spans. The recommendation and reviewed plan preparation for a multi span LG25 crossing					
	proved low cost in bid as a cost saving alternative to "in kind" timber bridge crossing of the Lateral and Comite Creek Relief structure north of Clinton, LA.					
02/19 - 04/20	East Feliciana Parish Project No. PW1190-DR 4277 LA (FEMA) (John Thomas Lane Bridge) HYDR					
	Project Engineer/ Prepared hydraulic analyses reports for flood prone roadway crossing in flood prone corridor for a multi					
concrete slab crossing of Waterfall Bayou structure south of Clinton, LA.						
02/17 - 02/18		-PW-02 (FEMA) (Plettenberg Road Bridge) HYDR	Con also and a			
	Project Engineer/ Prepared hydraulic analyses reports for alignment in extremely flood prone corridor for the Polly Creek crossing					
S.	replacement structure in the seasonally flood prone areas of the Mississippi River batture north of St Francisville, LA.					



Firm ei	mployed by	LandSource, Inc.				
Name		Patterson		Years of relevant experience with this employer	26	
Title	President	3		Years of relevant experience with other employer(s)	10	
Degree	(s) / Years	/ Specialization		Louisiana State University, B.S., 4 yr., Construction Technology		
Active	registration	number / state / exp	iration date	License No.: 4784 / LA / 3/31/2023		
Year re	egistered	1996	Discipline	Professional Land Surveyor		
Contract role(s) / brief description of responsibilities			sponsibilities	Principal-in-Charge/Project Manager/Land Surveyor - Mr. Patterson has & will serve as Principal-in-Charge, Project Manager & Professional Land Surveyor on the projects listed below and the advertised project. He will oversee all project activities.		
Experience dates   Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "des				evant to the proposed contract; i.e., "designed drainage", "design	ed girders"	
(mm/yy-mm/yy) "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).					(s).	
	55. 55. 55.	(E.H)	100	20 20 20 20 20 20 20 20 20 20 20 20 20 2		
2021			FS 1876	tem Highway Bridge Program, East Baton Rouge Parish. Respons place one bridge. (2021)	ibilities	
2021		S.P. No. H.014318 topographic survey	68	tem Highway Bridge Program, Rapides Parish. Responsibilities in bridges. (2021)	cluded	
2020		S.P. No. H.014223, topographic survey	7	ighway Bridge Program, Vermillion Parish. Responsibilities inclubridge. (2020)	ded	
2020		S.P. No. H.014261, topographic survey		ighway Bridge Program, Rapides Parish. Responsibilities included bridges. (2020)	1	
2014	S.P. No. H.010626.5, Off-System Highway Bridge Program, Jefferson Parish. Responsibilities included topographic survey to replace one bridge. (2014)					
2013						
2013 S.P. No. H.010061.5 & H.010062.5, Off-System Highway Bridge Program, Tangipahoa Parish. Responsibilities included topographic survey to replace four bridges. (2013)						



Firm er	mployed by	LandSource, Inc.	a .			48	
Name	Scott L. I	Patterson			Years of relevant experience with this employer	10	
Title	Project N	Manager / Land Surveyor			Years of relevant experience with other employer(s)	3	
Degree	(s) / Years	/ Specialization		Loui	isiana State University, B.S., 4 yr., Construction Technology		
Active	registration	number / state / exp	oiration date	Lice	ense No.: 5246 / LA / 9/30/2023		
Year re	egistered	2022	Discipline	Prof	Sessional Land Surveyor		
Contrac	ct role(s) / l	orief description of r	esponsibilities	Proj	ect Manager		
Experie	ence dates	Experience and qu	alifications rele	evant	to the proposed contract; i.e., "designed drainage", "designed	ed girders".	
(mm/yy	y-mm/yy)				e dates should cover the time specified in the applicable MPR	10.000 pt	
			_				
2021		S.P. No. H.014318 Site 1, Off-System Highway Bridge Program, East Baton Rouge Parish. Responsibilities					
		included topograph	ic survey to rep	lace o	lace one bridge. (2021)		
2021		S.P. No. H.014318	Site 2, Off-Sys	tem H	lighway Bridge Program, Rapides Parish. Responsibilities in	cluded	
o-	:	topographic survey	to replace two	bridge	es. (2021)		
2020		S.P. No. H.014223	, Off-System H	ighwa	y Bridge Program, Vermillion Parish. Responsibilities include	led	
99		topographic survey	to replace one	bridge	e. (2020)		
2020		S.P. No. H.014261	, Off-System H	ighwa	y Bridge Program, Rapides Parish. Responsibilities included		
Se.		topographic survey	to replace two	bridge	es. (2020)		
2014		S.P. No. H.010626	.5, Off-System	Highway Bridge Program, Jefferson Parish. Responsibilities included			
×		topographic survey			bridge. (2014)		
2013 S.P. No. H.010597.5, Off-System Highway Bridge Program, West Feliciana Parish. R			vay Bridge Program, West Feliciana Parish. Responsibilities	included			
86		topographic survey					
2013		S.P. No. H.010061	.5 & H.010062.	5, Off	f-System Highway Bridge Program, Tangipahoa Parish. Resp	onsibilities	
		included topographic survey to replace four bridges. (2013)					



Firm er	mployed by	LandSource, Inc.				
Name	Michael		Years of relevant experience with this employer	26		
Title	Vice Pres	sident	Years of relevant experience with other employer(s)	5		
Degree	(s) / Years	/ Specialization	T.H. Harris Technical College, Associates Degree, 2 yr., Civil En	ngineering		
	8.55	-	Technology			
Active	registration	number / state / expiration date	License No.: CST Level III Certified / LA License #1003-1863			
Year re	egistered	Discipline	Survey Coordinator			
Contract role(s) / brief description of responsibilities  Survey Coordinator - Mr. Pitre has & will serve the projects listed below and the advertised projects urvey crews and CADD personnel.						
Experie	ence dates	Experience and qualifications rele	evant to the proposed contract; i.e., "designed drainage", "design	ned girders"		
(mm/yy-mm/yy) "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).						
2021		S.P. No. H.014318 Site 1, Off-Sys included topographic survey to rep	tem Highway Bridge Program, East Baton Rouge Parish. Respons	sibilities		
2021			tem Highway Bridge Program, Rapides Parish. Responsibilities in	ıcluded		
2020		S.P. No. H.014223, Off-System Hopographic survey to replace one	ighway Bridge Program, Vermillion Parish. Responsibilities inclubridge. (2020)	ded		
2020		S.P. No. H.014261, Off-System H. topographic survey to replace two	ighway Bridge Program, Rapides Parish. Responsibilities included bridges. (2020)	d		
2014						
2013						
2013						



Firm employed	by Terracon Consultants, I	nc.					
Name	Jim Baxter			Years of relevant experience with this employer	15		
Title	Senior Ecologist			Years of relevant experience with other employer(s)	5		
Degree(s) / Yea	rs / Specialization	Mast	ter of Forest Res	ources, University of Georgia, 2002			
	5.	Bach	nelor of Science,	University of the South, Natural Resources, 2000			
Active registrati	ion number / state / expiration d	late N/A	200				
Year	N/A	Discipline	CERTIFICA	TION: Wetland Delineation, 2005			
registered							
Contract role / b	orief description of responsibilit	ies Mr. I	Baxter meets the	requirements of MPR #5 with 20 years of experience perf	orming wetland delineations.		
				delineations, Section 404 permitting, threatened and endan			
				opplications, guidance for mitigation banking, and Phase I E			
		eviewer for nat	tural resource we	ork, including wetland delineations and he oversees variou	s ecological projects		
	the southeast.	* 14 (720) (1210)	12 U.S. 10 DEC 21				
90 9/3		neation field n	nethods in 2005.	He has since attended additional courses and training pro	grams in wetlands and		
endangered							
06/21 - 01/22				d Delineation, Baton Rouge, LA, DOTD	CONTRACT . MOST CONTRACTOR CONTRA		
				lineation for a project that involved a proposed bridge dist	nantling project and a new		
01/00 00/00				in Baton Rouge, LA where it crosses Weiner Creek.			
01/20 - 02/20	H.013081 Roundhill Road W				11		
				ineation and prepared a preliminary WOTUS delineation re			
	I .		of the Rivers and	d Harbors Act compliance requirements for the proposed R	oundniii Road over Little		
12/19 – 02/20	Colewa Bayou bridge rep		DOTD				
12/19 - 02/20	H.013111 Webster Bridge, M			inection and prepared a WOTLIS delinection report address	sing Section 404 of the Clean		
			onducted a wetland delineation and prepared a WOTUS delineation report addressing Section 404 of the Clean tion 10 of the Rivers and Harbors Act (Section 10) compliance requirements for the proposed Dorcheat Road				
	over Caney Creek bridge				ne proposed Doreneat Road		
07/19 - 12/19	H.013143, OSB Avoyelles Pa			11 (11311, 171.			
01/15 12/15				ineation for the Carbon Plant Road bridge over Bayou Boe	of in Avovelles Parish The		
				S Army Corps of Engineers (USACE) Wetland Delineation			
				ual: Atlantic and Gulf Coastal Plain Region (Version 2.0, 2			
	design/construction project with a similar alignment to the previous bridge.						
07/19 - 12/19				(over Watson Branch) and Charles Rawls Road (over P	rairion Bayou), Ouachita		
	Parish, LA, DOTD		3				
		acon conducte	ed a wetland deli	ineation for the Red Cut Road Bridge traversing Watson B	ranch south of West Monroe,		
	LA. The proposed project	included desi	ign/construction	of a replacement bridge structure with a similar alignment	to the previous bridge.		



07/19 - 03/20	H.013163 Wadesboro Road over Unnamed Creek, Tangipahoa Parish, LA, DOTD
	Senior Project Reviewer. Terracon conducted a site visit at the Wadesboro Road Bridge for proposed replacement of the 29.7-foot-long timber
	bridge, a project located withing the Pontchartrain River Basin in the Lake Maurepas Watershed. Terracon subsequently prepared a Waters of
	the US (WOTUS) Delineation report based on site conditions. The delineation was conducted in general accordance with the 1987 USACE
	Wetland Delineation Manual and the Regional Supplement to the Corps of Engineers Delineation Manual: Atlantic and Gulf Coastal Plain
	Region (Version 2.0, 2010), and the Louisiana Department of Transportation and Development (DOTD) guidelines.
05/22 - 06/22	SP H.014270, Lefort Bypass Road OSB, Thibodaux, LA, DOTD
	Senior Ecologist. Terracon prepared a Waters of the US (WOTUS) Delineation report based upon findings obtained during field delineation.
	Terracon recommended consultation with the USACE to determine the appropriate Nationwide Permitting action and for a jurisdictional
	determination of the identified waters, and for potential permit issuance prior to initiating construction activities for this project.
02/22 - 04/22	After the Fact Permitting – McComb Substation, LaPlace, LA, Illinois Central RR
	Senior Project Reviewer. Terracon performed a preliminary WOTUS delineation on the approximately 37.03-acre site to characterize the existing
	site conditions, observe the site for the presence of WOTUS, including wetlands, provide an opinion regarding whether WOTUS (if observed)
	would be considered jurisdictional by the USACE. Additionally, at the time of the WOTUS delineations, Terracon sought to identify (if
	observed) any impact from emergency repair operations from Hurricane Ida.
10/18 - 02/19	City Parish Project No. 16-BR-US-0019, Port Hickey Road Bridge over Drainage Bayou, E. Baton Rouge Parish, LA
	Senior Project Reviewer. Provided environmental wetlands services including Cultural and Historical Sensitivity of the Property (Section 106
	Environmental Review).
07/18 -04/20	SR 306 from SR 400 to SR 369, Baldridge Creek Project, Forsythe County, GA, GDOT
	Project Manager. For the approximately one-mile road widening project for State Route (SR) 306 located from SR 400 to SR 369, Terracon
	performed a wetland determination in addition to other ecological surveys. Background research was conducted prior to field surveys to identify
	potential ecological resources within the study area. Jurisdictional wetland determinations were performed using the three-parameter approach
	(hydrophytic vegetation, hydric soils, and hydrology) as described in the 1987 USACE Wetland Delineation Manual and utilized the 2012
	Eastern Mountains and Piedmont Regional Supplement as guidance.
00/15 10/22	
08/15 - 10/22	SR371 (Post Road) from SR 9 (Atlanta Hwy) to SR 20 Widening Project, Forsythe County, GA, GDOT
	Senior Project Reviewer. For the proposed widening and roadway reconstruction project, Terracon provided a geotechnical soil survey and several
	environmental services including Phase I Environmental Site Assessment, NEPA, Ecology, Air Quality, Noise Study, History, and
	Archaeology.

**Prime Consultant: TriCoeur Services, LLC** 



	by Terracon Consultants,	Inc.	71						
Name	Rachel Keane			Years of relevant experience with this employer	4				
Title	Senior Staff Scientist			Years of relevant experience with other employer(s) 20					
	ars / Specialization			cience, Limnology, 1997					
	tion number / state / expiration		N/A						
Year registered		Discipline		TION: Wetland Delineation, U.S. Army Corps of Engineers					
Contract role(s	) / brief description of responsi	bilities		eets the requirements of MPR #5 requiring a minimum of 5 ye	ears of experience				
				ng wetland delineations.					
				efined by EPA's AAI. With 24 years of experience, she has pe					
				es throughout the Southeast. She has also been a contributing					
				ase I Environmental Site Assessments (ESAs) and assisted in	natural resources surveys				
				as assisted in multiple Phase II ESAs.	2.1ED. E				
01/20 - 06/20	0	the Little C	omite River, E	. Feliciana Parish, LA Senior Staff Scientist. Provided DOTI	O NEPA Environmental				
03/20 - 05/20	Clearance.	ish Duidas E	enlacement. I	Jamison Street and Collier Street Duidge/Dusinege Cond	Onachita Davish I A				
03/20 - 05/20	Senior Staff Scientist, DOTI			<b>Harrison Street and Collier Street Bridge/Drainage Canal,</b>	Ouacmia Parish, LA				
02/20 05/20				TO CHARLES TAR	, DOTD MEDA				
03/20 - 05/20	Environmental Clearance.	ish Briage F	epiacement: P	ine Street Bridge Ouachita Parish, LASenior Staff Scientis	t. DOTD NEPA				
02/10		- 4 4 41 - 14		C-4-#	D : 136 - 26:				
02/18-				, Construction, and Disposition Projects, New Orleans, LA					
Ongoing				eview Record (ERR) documentation for several HUD program	IS.				
$\frac{1/20 - 6/20}{02/10}$				EPA Environmental Clearance.	D C4-4!1-				
02/18 -				ew Construction, Various Grant Programs for 2016 Floodi					
Ongoing				Leader. Prepared Environmental Assessments and Tier II ERR Corporation (LHC) for renovation and recovery funding for the					
				ghborhood Landlord, Multifamily, Baton Rouge Rebuilds, and					
				r staff and guided the preparation of 100+ Environmental Asse					
02/20 - 08/20				te, Louisiana Project Manager/Principal Technical Writer. Pr					
02/20 - 06/20	and Environmental Assessm	ent (EA) in c	ompliance with	HUD and NEPA for the construction of four single-family re	sidences on contiguous				
				onducted in compliance with the appropriate ASTM Standard.					
				es, endangered species, floodplain impacts, and other natural a					
	No issues of concern were in								
7/19 – 11/19	Jim Cryer Lane Bridge - S								
10/18 - 05/19				ttered Residential Lots, Mandeville and Covington, LA					
	Project Manager/Main Tech								
01/07 - Present				ultiple Project – HUD NEPA Environmental Clearance					

Prime Consultant: TriCoeur Services, LLC



Firm employed by	Terracon Consultants, Inc.								
	David Brunet			Years of relevant experience with this employer	<1				
Title	Senior Staff Scientist			Years of relevant experience with other employer(s)	22				
Degree(s) / Years /	Specialization		Mast	Master of Science /Biology/1995; Bachelor of Science, Biology, 1994					
Active registration	number / state / expiration date		N/A						
Year registered	N/A	Discipline	N/A						
	rief description of responsibilities			ands Biologist					
	nducted field work associated with wetland delineations and Coas								
various project	ts, he performed various rare and	d endangered sp	ecies s	surveys and habitat surveys. For four years, Mr. Brunet served a	s the Environmental				
				Parish Government. In this role, he was responsible for reviewing					
				nits as appropriate. He ensured that all parish projects followed lo					
	environmental permits and assisted various state and federal agencies in data collection efforts on the Pearl River System in St. Tammany Parish.								
11/22 - Ongoing	Plettenburg Bridge OSB, W. Feliciana Parish, LA Wetland Scientist. Terracon is conducting a WOTUS delineation for the bridge site. David is conducting the wetland delineation and preparing								
		onducting a WO	TUS	lelineation for the bridge site. David is conducting the wetland delir	neation and preparing				
	the permit application.								
11/22 - Ongoing	Baton Rouge City-Parish, Rep	lacement of the	Port	Hickey Road Bridge over Drainage Bayou, Zachary, LA	St.				
				l investigation and is providing wetlands permitting for the project	ct. David is assisting				
	with obtaining the wetland				C				
01/20-12/20	Sawaya Site, Coastal Use and				MANAGEMENT OF THE PARTY OF THE				
(performed with				the fieldwork, data collection, drafting, and reporting for the addre					
previous				and Harbors Act compliance requirements for permitting along wi	th Coastal Use, State				
employer)	Lands, Scenic Rivers, and Id	ocal requirement	s for th	he bulkhead and boat house. Project size was two acres.					
02/18-03/19	Railroad Avenue Site, Wetlan	d Delineation a	nd Sce	enic River Permits, Covington LA					
(performed with	Environmental Consultant. Dav	id was responsib	le for	the fieldwork, data collection, drafting, and reporting for the addre	essing Section 404 of				
previous									
employer)	Lands, Scenic Rivers, and lo	ocal requirement	s for th	he bulkhead and boat house Project size was one acre.					
04/19-12/19				permits, scenic river permit, DEQ Water quality certification C					
(performed with				the fieldwork, data collection, drafting, and reporting for the addre					
previous				and Harbors Act compliance requirements for permitting along wi	th Coastal Use, State				
employer)	Lands, Scenic Rivers, and lo	ocal requirement	s to co	onstruct a residential subdivision. Project size was 64 acres.					



# 17. Firm Experience:

Firm name	TriCoeur Services, L.L.C.	P	Past Performance Evaluation Discipline(s)* Bridge						
Project name	Sligo Road Bridges	Firm responsibility (prime or sub?) Prim	ne						
Project number	S.P. No. H.010597.5	Owner's	s name Louisiana DOTD						
Project location	West Feliciana Parish,	LA	Owner's Project Manager Barbara Ostuno, PE						
Owner's address		_	ss Road, (225) 379-1047, B.Ostuno @LA.GOV						
	enced by this firm (mm/yy)	09/13	Total consultant contract cost (\$1,000's) 155.948						
	eted by this firm (mm/yy)	01/22	Cost of consultant services provided by this firm (\$1,000's) 155,948						
A CONTRACTOR AND ADDRESS OF THE PROPERTY OF TH		The state of the s	r rural local roadways/ designed horizontal and vertical geometrics along						
			an configuration/ developed structure type size and location recommendation						
			red plan preparation for the skewed 12 span Quad Beam crossing of Bayou S						
			sequencing to maintain access to landowners between sites. All current mem	bers					
TANESTS.	staff were involved in this project								
Firm name	TriCoeur Services, L.L.C.	P	Past Performance Evaluation Discipline(s)*  Bridge						
Project name	Bud Road and Bonne Idee Road	Bridges	Firm responsibility (prime or sub?) Prim	ie					
Project number	S.P. No. H.010040.5	Owner's	s name Louisiana DOTD						
Project location	The state of the s		Owner's Project Manager Barbara Ostuno, PE						
			ss Road, (225) 379-1047, B.Ostuno @LA.GOV						
	enced by this firm (mm/yy)	04/13	Total consultant contract cost (\$1,000's) 116.113						
	eted by this firm (mm/yy)	11/15	Cost of consultant services provided by this firm (\$1,000's) 96.639						
			ral local roadways / ROW taking sketches for skewed /re-aligned/ curved and s						
			wall system design to minimize wetland encroachment. All current members of t	he					
	vere involved in this project and 100%								
Firm name	TriCoeur Services, L.L.C.		Past Performance Evaluation Discipline(s)* Bridge						
Project name	Pine Street over West Prong of			ie					
D : 4 1	Collier Streets over Concrete D								
Project number		Owner's							
-	Project location Ouachita Parish, LA Owner's Project Manager Barbara Ostuno, PE								
Owner's addres			ess Road, (225) 379-1047, B.Ostuno @LA.GOV						
7	enced by this firm (mm/yy)	12/18	Total consultant contract cost (\$1,000's) 110.664						
Services compl	eted by this firm (mm/yy)	05/21	Cost of consultant services provided by this firm (\$1,000's) 102.996						



Prepared Preliminary bridge replacement plans for urban local roadways, determined and implemented practical application as desired by City Parish representatives of multiple RCB crossings in place of existing bridge structures along existing skewed alignments in FEMA floodways. All current members of the TriCoeur staff were involved in this project and 100% performed in Louisiana.

TriCoeur Services, L.L.C. Past Performance Evaluat							Discipline(s)*	В	ridge	
Jim C	ryer Rd. over B	ayou Ana	сосо		Firm responsibility (prime or sub?)			Prime		
Project number S.P. No. H013098.5 Ov						isiana DOTI	D	62 6000-	7,62	12.
Project location Vernon Parish, LA						Owner's Project Manager Barbara			Ostuno, Pl	E
s, phone	e, email	1201 Cap	oital Acc	ess Road, (	225) 3	379-1047, B.O	stuno @LA.GOV	7		
Services commenced by this firm (mm/yy)					Total consultant contract cost (\$1,000's)			79	.692	
Services completed by this firm (mm/yy) 10/22					const	ıltant services	s provided by this	firm (\$1,00	00's) 42	.778
֡	Jim Cr	Jim Cryer Rd. over B S.P. No. H013 Vernon Paris s, phone, email enced by this firm (mm/	Jim Cryer Rd. over Bayou Anac S.P. No. H013098.5 Vernon Parish, LA s, phone, email 1201 Cap enced by this firm (mm/yy)	Jim Cryer Rd. over Bayou Anacoco  S.P. No. H013098.5 Owner  Vernon Parish, LA s, phone, email 1201 Capital Accorded by this firm (mm/yy) 11/18	Jim Cryer Rd. over Bayou Anacoco  S.P. No. H013098.5 Owner's name  Vernon Parish, LA s, phone, email 1201 Capital Access Road, (enced by this firm (mm/yy) 11/18 Total c	Jim Cryer Rd. over Bayou Anacoco  S.P. No. H013098.5 Owner's name Lou  Vernon Parish, LA  s, phone, email 1201 Capital Access Road, (225) 3 enced by this firm (mm/yy) 11/18 Total consult	Jim Cryer Rd. over Bayou Anacoco  S.P. No. H013098.5 Owner's name Louisiana DOTI  Vernon Parish, LA Owner's Property of the Company of the Co	Jim Cryer Rd. over Bayou Anacoco  S.P. No. H013098.5 Owner's name Louisiana DOTD  Vernon Parish, LA  Owner's Project Manager  s, phone, email 1201 Capital Access Road, (225) 379-1047, B.Ostuno @LA.GOV  enced by this firm (mm/yy) 11/18 Total consultant contract cost (\$1,000's)	Jim Cryer Rd. over Bayou Anacoco  S.P. No. H013098.5 Owner's name Louisiana DOTD  Vernon Parish, LA  Owner's Project Manager Barbara s, phone, email 1201 Capital Access Road, (225) 379-1047, B.Ostuno @LA.GOV enced by this firm (mm/yy) 11/18 Total consultant contract cost (\$1,000's)	Jim Cryer Rd. over Bayou Anacoco Firm responsibility (prime or sub?)  S.P. No. H013098.5 Owner's name Louisiana DOTD  Vernon Parish, LA Owner's Project Manager Barbara Ostuno, Plants, phone, email 1201 Capital Access Road, (225) 379-1047, B.Ostuno @LA.GOV  enced by this firm (mm/yy) 11/18 Total consultant contract cost (\$1,000's) 79

Prepared Preliminary bridge replacement plans for rural local roadway, determined and location recommendation/ reviewed plan preparation of a 5 span LG25 crossing along offset alignment to enabling Parish's request to through travel during construction. Recommended (5) 48ft spans in lieu of (6) 40ft spans to improve debris passage and gain economics advantage by elimination of one intermediate bent. All current members of the TriCoeur staff were involved in this project and 100% performed in Louisiana.

Firm name	TriCo	eur Services, L.	L.C.	P	ast Perfor	mance Evaluation	Discipline(s)*	Brid	ge	
Project name	Poplar	Street Bridge	over Bonn	abel Cana	Firm responsibilit	ty (prime or s	ub?)	Prime		
Project number	. 100 5	S.P. No. H006	138.5	Owner's	name	Louisiana DOT	D	76 × 150	7.02	13.
Project location Jefferson Parish, LA Owner's Project Manager Barbara Ostum								stuno, Pl	E	
Owner's address	s, phone	e, email	1201 Cap	ital Acces	s Road, (	225) 379-1047, B.C	Ostuno @LA.GOV			
Services commenced by this firm (mm/yy) 03/1					Total co	onsultant contract	cost (\$1,000's)		71	.517
Services completed by this firm (mm/yy)					Cost of	consultant service	s provided by this f	firm (\$1,000'	s) 71	.517

Preparation of Final Plans from Preliminary Plans and Topographic Survey previously initiated by others. Project required preparation of scour analyses, revisions of the project geometric layout, incorporation of prior Plan in Hand review comments, coordination of geotechnical investigations, coordination with utility conflicts for primary water, natural gas and sanitary sewer crossings, interaction with Parish personnel, preparation of non-standard bridge bent approach slab details, and roadway plan preparations. All members of the TriCoeur staff were involved in the project and 100% performed in Louisiana.



Firm name	Landsource, Inc.	S.			Past Performance Evaluation Discipline(s)* SURVEY				
Project name	Pine Street over	West Prong o	f Young	's Bayou	ou & Harrison – Collier Streets over Firm respo			lity	Sub
NASSOCIAL PROPERTY OF THE PROP	Concrete Draina	oncrete Drainage Canal							
Project number	State Proj. No.	H.013122.5	Owner	's name	LA Dept. of Transportation &	Develop	pment		
Project location	Ouachita Pari	sh	25		Owner's Project Manager	Barry	Gahagan, P.E.		
Owner's addres	s, phone, email	9270 Sieger	Ln., Ba	ton Roug	ge, LA 70810 (225)228-2681, bg	ahagan@	tricoeur.com		
Services commenced by this firm (mm/yy) 12				Total co	Total consultant contract cost (\$1,000's)			11.0	
Services completed by this firm (mm/yy) 01/19						41.	(\$1,0002a)	11.0	
Services comple	etea by this firm (	mm/yy)	01/19	Cost of	consultant services provided by	this firm	1 (\$1,000°s)	11.0	ă .

The project's objective was to develop plans for the replacement of two (2) bridges in Ouachita Parish, which was off the State Highway System. LandSource, Inc. was responsible for all the surveying, which included topographic, field and right-of-way surveys. All LandSource personnel listed on the prime's organizational chart were involved in this project & will be utilized in any future projects. 100% of the work was performed in Louisiana.

Firm name	Landsource, Inc.	p.			Past Performance Evaluation Discipline(s)*   SURVEY			
Project name	Jim Cryer Rd. ov	ver Bayou An	Firm re	esponsibility	Sub			
Project number	State Proj. No.	H.013098.5	Owner	LA Dept. of Transportation &	Developme	nt		
Project location	Vernon Parisl	h			Owner's Project Manager	Barry Gah	agan, P.E.	
Owner's addres	s, phone, email	9270 Sieger	ı Ln., Ba	ton Rou	ge, LA 70810 (225)228-2681, bga	hagan@tric	oeur.com	
Services commenced by this firm (mm/yy)			11/18	Total c	Total consultant contract cost (\$1,000's)			)
Services comple	eted by this firm (	(mm/yy)	01/19	Cost of	f consultant services provided by t	his firm (\$1	,000's) 6.0	)

The project's objective was to develop plans for the replacement of a bridge in Vernon Parish, which was off the State Highway System. LandSource, Inc. was responsible for all the surveying, which included topographic, field and right-of-way surveys. All LandSource personnel listed on the prime's organizational chart were involved in this project & will be utilized in any future projects. 100% of the work was performed in Louisiana.

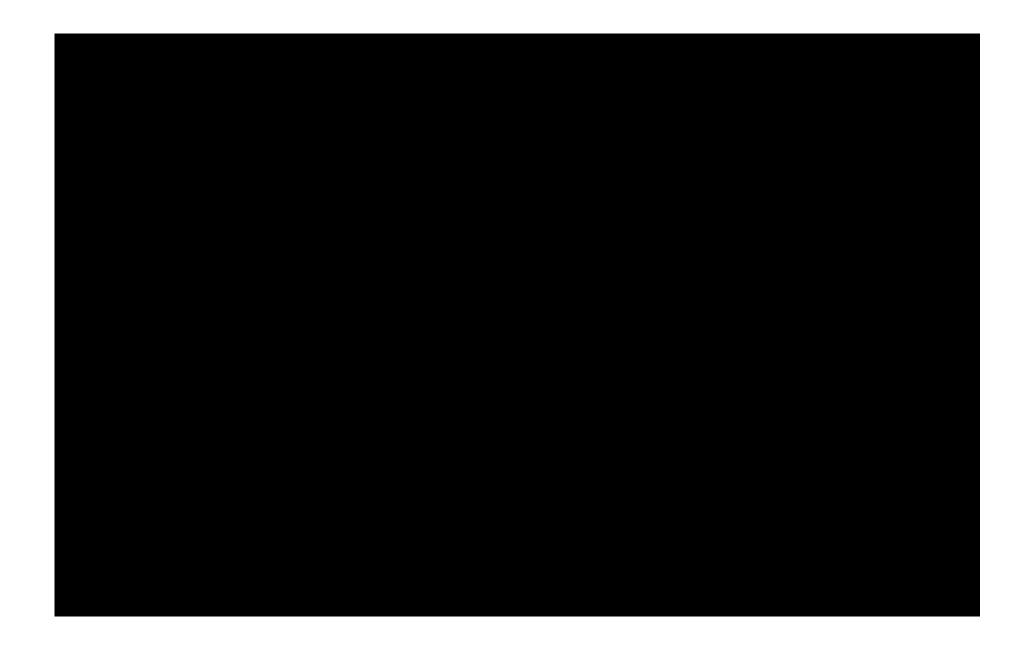


Firm name	Landsource, Inc.			]	Past Performance Evaluation Discipline(s)* SURVEY				
Project name	Bayou Bonne Ide	Bayou Bonne Idee Rd Bridge (Site 1) & Bud Rd Bridge over Bayou Bonne Idee (Site 2)   Firm respon							
Project number   State Proj. No. H.011532.5   Owner's name   LA Dept. of Transportation & Development							ent		
Project location	n Morehouse Pa	arish			Owner's Project Manager	Barry G	ahagan, P.E.		
Owner's addre	ss, phone, email	9270 Sieger	Ln., Bat	on Roug	ge, LA 70810 (225)228-2681, bga	hagan@tı	ricoeur.com		
Services commenced by this firm (mm/yy) 3			3/2015	Total c	Total consultant contract cost (\$1,000's)			5.00 Est	
Services completed by this firm (mm/yy)				Cost of	f consultant services provided by	this firm (	(\$1,000's) 1	5.00 Est	

The project's objective was to develop plans for the replacement of two (2) bridge in East Baton Rouge Parish, which was off the State Highway System. LandSource, Inc. was responsible for all the surveying, which included topographic, field and right-of-way surveys. All LandSource personnel listed on the prime's organizational chart were involved in this project & will be utilized in any future projects. 100% of the work was performed in Louisiana.









Firm name	Terracon Consultants, Inc	Terracon Consultants, Inc. Past Performance Evaluation Discipline(s)* Environmental							
Project name	Carruth Road Bridge over	the Little C	Firm responsib	ility (prime or sub?)	Sub				
Project number	PWEF014C	Owner's East Feliciana Parish Police Jury							
name									
Project location	East Feliciana Parish, LA		Owner's Project Manager Sonya Crowe, Parish Manager						
Owner's address	s, phone, email	12064 Mars	ton Street, Clinton, I	A 70722, 225-6	83-8577				
Services commenced by this firm (mm/yy) 02/19			Total consultant con	ntract cost (\$1,00	00's)	\$NA			
Services comple	eted by this firm (mm/yy)	02/20	Cost of consultant s	l by this firm (\$1,000's)	\$9				

Terracon was retained by TriCoeur Services, LLC for the replacement of the Carruth road Bridge over the Little Comite River FEMA Disaster Project in East Feliciana Parish. Terracon provided a wetland assessment and NEPA environmental review for the bridge replacement project.

The Little Comite River is considered a USACE Jurisdictional Water of the US. However, the project qualified for an NWP within the USACE's expedited program for transportation projects due to the lack of wetland habitat in the vicinity of the project area. A report was provided which outlined the site reconnaissance and findings, referenced published maps (including National Wetland Inventory Maps. Topographic Maps, and historical aerial photographs).

Based on the lack of wetland habitat and minimal impacts to the river from the proposed construction, it was recommended that a Nationwide Permit 14- Linear Transportation Projects be obtained for the construction portion of the project.



Key Members: Jim Baxter, Rachel Keane



Firm name	Terracon Consult	tants, Inc.		Pas	st Performance I	Evaluation Disciplin	ne(s)* Environmen	ntal
Project name	Jim Cryer Lane I	Bridge Ov	er Bayou A	nanco	co	Firm responsibilit	y (prime or sub?)	Sub
Project number	FAP No. H.013	098.5	Owner's n	ame	Louisiana Department of Transportation & Development			
Project location	n Vernon Parish,	LA			Owner's Project Manager Ryan Rodney			
Owner's addre	ss, phone, email	1201 Caj	pital Access	Road,	Baton Rouge, L.	A 70802, 225-379-	1309. Ryan.rodney(	@la.gov
Services commenced by this firm (mm/yy) 07/19 Total				Total	consultant contra	act cost (\$1,000's)		\$N/A
Services completed by this firm (mm/yy) 11/19 Cost					of consultant serv	vices provided by tl	nis firm (\$1,000's)	\$3.3

Terracon was retained by TriCoeur Services to perform a wetland delineation of the Off-System Bridge project which included the replacement of an existing 23-foot wide 190-foot long concrete bridge on Jim Cryer Lane over Bayou Anacoco in Vernon Parish, Louisiana. The replacement bridge was proposed to be a 5-foot span, 240-foot long concrete bridge with 28-foot clear roadway. A wetland delineation was conducted to identify wetland and Waters of the US to provide the USACE with a request for a Jurisdictional Determination. Terracon completed a wetland delineation, utilizing the approved United States Army Corps of Engineers Manual, 1987 and the 2008 Supplement for the Atlantic and Gulf Coastal Plain. Prior to the initiation of field work, Terracon completed a desktop review which included gathering published resources for background information. These resources include the USFWS National Wetland Inventory maps, topographic maps, United States Department of Agriculture Soil Surveys, and aerial photographs. During the site reconnaissance, vegetation communities, hydrologic evidence, and the soil profile to an approximate depth of 16 inches below ground surface was observed and documented. A determination was made as to the actual area of impact based on the construction area and expected bridge footprint with gathered information compiled to prepare a wetland delineation report.

In addition, an Environmental Checklist as required by LADOTD to complete a Categorical Exclusion document to satisfy the NEPA and FHWA requirements was prepared. Solicitation of Views (SOV) Letters including project description and location were prepared and submitted to Federal, State, and Local agency for coordination and consultation. In addition, other readily accessible information was reviewed to provide support documentation toward the completion of the Environmental Checklist. The Environmental Checklist with SOV letter responses, support documentation, and other pertinent information was compiled and submitted to the Contractor for submittal to the LADTOD.

Key Members: Jim Baxter, Rachel Keane



Firm	Terrace	on Consultants,	Inc.		Past	t Performance Evaluation Discipline	e(s)* E	Environmental				
name		Ouachita Parish Bridge Replacement: Harrison Street and Collier Street Bridge/Drainage Firm responsibility Sub										
Project	Ouachita Parish Bridge Replacement: Harrison Street and Collier Street Bridge/Drainage Firm responsible											
name	Canal	19004	0.000		symbolical	MW/5	(prime o	r sub?)				
Project number SP H.013122 Owner's name Louisiana Department of Trans								d Developme	ent			
Project lo	cation (	Duachita Parish,	LA			Owner's Project Manager   N	Noel Ard	loin				
Owner's a	address, p	hone, email	1201 Cap	oital Access	Road,	Baton Rouge, LA, 70802, 225-242-	-4201 No	oel.Ardoin@	la.gov	9		
Services commenced by this firm (mm/yy) 03/20 T						Total consultant contract cost (\$1,000's)			\$NA			
						Cost of consultant services provided by this firm (\$1,000's)			\$2.8			

Terracon was retained by TriCoeur Services to perform a wetland delineation of Off-System Bridge project which included designing and constructing the replacement of an existing 64.3-foot wide, 21.3-foot long clear opening concrete decked, steel girder single span bridge over a concrete paved drainage canal in Ouachita Parish, Louisiana. The recommended replacement bridge consists of a 93.2-foot double reinforced concrete box girder bridge. Terracon completed a wetland delineation, utilizing the approved United States Army Corps of Engineers Manual, 1987 and the 2008 Supplement for the Atlantic and Gulf Coastal Plain. Prior to the initiation of field work, Terracon completed a desktop review which included gathering published resources for background information pertaining to wetlands. These resources include the United States Fish & Wildlife Service National Wetland Inventory maps, topographic maps, United States Department of Agriculture Soil Surveys, and aerial photographs. During the site reconnaissance, vegetation communities, hydrologic evidence, and the soil profile to an approximate depth of 16 inches below ground surface was observed and documented at specific observation points. This information was compiled and used to determine and delineate area of wetlands adjacent to the bridge. The wetland habitat and Other Waters were identified and determination was made as to actual area of impact based on the construction area and expected bridge footprint. The information gathered during the site visit and desktop review was compiled to prepare a wetland delineation report.

In addition, an Environmental Checklist as required by the LADOTD to complete a Categorical Exclusion document to satisfy the National Environmental Policy Act (NEPA) and Federal Highway Administration (FHWA) requirements to be prepared. Solicitation of Views (SOV) Letters including project description and location were prepared and submitted to Federal, State, and Local agency for coordination and consultation. Other readily accessible information was reviewed to provide support documentation toward the completion of the Environmental Checklist. These sources included the NRCS Web Soil Survey, USFWS iPAC Project Review Application, EPA Sole Source Aquifer Map, FEMA FIRM Map, and other sources. The Environmental Checklist will include SOV letter responses, support documentation, and other pertinent information was compiled and submitted to the Contractor for submittal to the LADTOD.

Key Members: Jim Baxter, Rachel Keane



## 18. Approach and Methodology:

#### INTRODUCTION

The staff provided by the TriCoeur Services, LLC team offer a combined over 60 years of LADOTD Off-System Bridge Replacement (OSBR) experience with a record of project delivery for the OSBR program. Our staff has surveyed and prepared plans for OSBR projects involving both standard plan and numerous non-standard structures in accordance with appropriate LADOTD procedures and manuals including roadway and bridge design, BDEM, BDTM's, environmental and OSBR guidelines. Our team is led by Barry P. Gahagan, PE, PLS, who has served in various roles on LADOTD bridge replacements. Our Survey team includes David L. Patterson, PLS, who has led TriCoeur's survey effort on 7 LADOTD bridge replacements who has been involved in the OSBR program over 15 years. TriCoeur's team includes Terracon Consultants. Inc. who has a long history of performing environmental services for LADOTD through TriCoeur. Jim Baxter holds Wetland Delineation certification since 2005 and has over 20 years of experience performing wetland delineations.

#### PROJECT UNDERSTANDING & SITE VISIT

A site familiarization will be conducted to assess the project conditions, confirm Project site, identify potential design challenges, and understand Rapides Parish concerns.







#### TOPOGRAPHIC SURVEY

Landsource will perform the topographic survey for the project. The TriCoeur engineering staff works closely with survey staff during this phase to ensure that all required data is collected. The dual control and collaboration provides greater QA/QC. Surveys will be completed in accordance with LADOTD Off-System Bridge Guidelines and applicable LADOTD Location & Survey requirements. GPS control will be established using at minimum four (4) control points set in concrete with levels run between these points.

Once control is established and sketches complete, the topographic surveys will continue for the existing roadway, bridge, and channel/river. Surveys will be extended beyond traditional limits to incorporate any curves or additional geometric changes needed for design. Additional data points needed to show DTM break lines and surface anomalies will be collected, and any upstream structures in the channel/river will be surveyed. Bridge sketches will be provided and the channel/river traverses shown on the field roll. Survey data will be reviewed by the project engineering staff for completeness prior to preparation of survey deliverables and field rolls. The survey submittal will include all items required by the LADOTD OSBR Guidelines including photographs, point listing and plotted cross sections. Surveys will undergo QA/QC by both the survey and engineering teams prior to submittal to LADOTD.

#### 50% PRELIMINARY PLANS & HYDRAULICS ANALYSIS

After surveys are reviewed and approved by LADOTD, our team will begin the hydraulics analysis and preparation of 50% Preliminary Plans. Design Criteria

Tricoeur will review the 5-year crash history of the site as provided by the Parish to determine the roadway's performance and if any geometric improvements should be considered. Poor roadway performance may be justification for addressing geometric issues within the project limits per Section 1.2 of A Policy on Geometric Design of Highways and Streets, AASHTO, 7th Edition (Green Book). Upon review of data, bridge design criteria and LADOTD Design Report Forms will be submitted for review and approval, guiding the remainder of plan development.

#### Hydraulics & Scour Analysis

We will begin the hydraulics and scour analysis by reviewing additional data including topographic maps, FEMA Firm maps, USGS Quadrangle maps and LiDAR to delineate the site's drainage basin. Peak discharges and water surface elevations will be developed. Hydraulic design will be conducted in accordance with the LADOTD Hydraulics Manual and the results prepared in report format along with the Hydraulic Data table. The Bridge, Type, Size and Location (TS&L) will determine the appropriate bridge length, revetment slopes and hydraulic opening will be developed at the start of the hydraulics analysis. The existing bridge(s) may be subject to overtopping and debris loading. Our staff has the recent relevant experience and design tools to perform the design of a non-standard bridge structure in-house per LRFD methodology to accommodate non-standard site conditions.

#### 75% PRELIMINARY PLANS (PRE-PIH) & SOLICITATION OF VIEWS (SOV's)

After review of the 50% Preliminary Plans, Tricoeur will address all comments will prepare the Pre-PIH plans, if necessary, or proceed to Plan in Hand. Upon approval of the replacement structure, Tricoeur and Terracon will prepare the Solicitation of Views (SOVs), receive DOTD approval thereof and mail these to the recipient list provided by LADOTD Environmental Section. Responses will be logged and loops closed to all SOV responses.

Prime Consultant: TriCoeur Services, LLC

TriCoeur Services LLC

#### 95% PRELIMINARY PLANS (PLAN IN HAND)

Comments from the 50% PP or, 75% PP (if necessary) will be addressed in the Plan in Hand submittal. The roadway model, typical sections, plan & profiles, general notes, bridge GPE, summary of estimated quantities, and construction signing will continue to be developed from the previous plan submittal(s). If superelevation is required, the superelevation diagrams will be further developed and completed by the end of preliminary plans along with the foundation layouts. Standard Plan lists, cost estimate and the Constructability & Biddability Review form will be provided. Tricoeur will attend the Plan in Hand meeting onsite with LADOTD and Parish representatives. Meeting notes will be provided within three (3) days.

#### 100% PRELIMINARY PLANS (POST PLAN IN HAND PRINTS)

Plan development will continue to progress as comments are addressed and major design elements are completed. Items discussed at the PIH meeting will be addressed and added to the plans per the PIH Meeting Memorandum.

#### Environmental

The wetland delineation will be conducted onsite and a wetland findings report prepared in accordance with US Army Corps of Engineers (USACE) guidelines. A Preliminary Jurisdictional Determination (PJD) will be requested from the USACE upon report completion. Permit sketches sized 8.5"x11" will be prepared to accompany the wetlands report, SOV packet, and Environmental Determination Checklist. R/W Sketches & Other Documents

TriCoeur will prepare the Right of Way Sketch per OSBR guidelines showing the required taking lines and anticipated parcels affected along with a draft of the R/W agreements. A draft utility conflict matrix will be provided to the Parish to aide in their responsibility to relocate utilities. Our site visit will establish initial evidence of existing utilities. In addition to the 100% Preliminary Plans, environmental package and R/W sketches, the Design Report forms will be finalized and sealed by Tricoeur's Engineer of Record. The Level 1 or Level 2 TMP checklists will also be prepared and submitted. Pile length requests with all supporting documentation will be submitted at this stage for use by the geotechnical engineer.

#### 75% FINAL PLANS (PRE-ADVANCED CHECK PRINTS)

Following the environmental approval and receipt of the Notice to Proceed for Final Plans, Tricoeur will begin the development of additional plan sheets required including embankment widening details, geometric layout (if necessary), erosion control plans, quantity summary sheets, Pile Data & Elevation, and concrete surface finish. All bridge structure and pile cutoff elevations will be finalized. Any special design superstructure or substructure bridge elements or special approach slabs will be fully detailed and placed on bridge sheets. Bridge railing, joint and bearing details will also be completed. If a nonstandard structure is chosen for the site, a draft of the bridge calculations and Load Resistance and Factor Rating (LRFR) will be prepared at this stage to ensure adequacy of reviews.

#### 98% FINAL PLANS (ADVANCED CHECK PRINTS)

Comments from the 60% Final Plans (Pre-ACP) will be reviewed with LADOTD and addressed. Additional details, notes or changes will be added to the plans and quantities will be completed. The ACP Plans will be provided to the Plan Quality Unit (PQU) if necessary. An ACP review

Prime Consultant: TriCoeur Services, LLC

TriCoeur Services LLC

meeting will be held to ensure all comments are addressed. Upon resolution, a 98% Final Plan set will be prepared for review by the Chief Engineer and use by General Files to prepare the proposal. Tricoeur will work with LADOTD staff to input pay items and quantities into AASHTOWARE and generate final cost estimates.

#### 100% FINAL PLANS (TRACINGS)

Tricoeur will provide the 100% Final Plans (Tracings) as per OSBR Guidelines with the Title Sheet on Mylar for Chief Engineer signature. This submittal will be prepared once all comments are addressed from task managers, PQU and/ or the Chief Engineer. Parish granted Design Exceptions will be noted on the Title Sheet. A bound calculations book will be prepared and submitted with the original field books and an electronic copy of the Hydraulics Report.

#### QUALITY CONTROL AND QUALITY ASSURANCE (QC/QA)

A project specific QC/QA plan has been included Section 21. Each submittal will be accompanied by LADOTD QC/QA certification forms. Design and plan comments, along with their resolutions will be documented in Design Comment Review forms.

#### LETTING

Tricoeur will respond to questions and assist LADOTD during letting. Upon receiving the bid results and tabulations, Tricoeur will provide additional information to LADOTD as needed regarding contract award.

#### **STAGE 5: CONSTRUCTION**

Tricoeur staff will be available to provide LADOTD with Construction Support (if needed) by assisting with RFI's, reviewing shop drawings, evaluating contractor submittals, attending meetings, and providing design review assistance in the event of bridge component changes







## 19. Workload:

Firm(s)	Past Performance Evaluation Discipline	State project number	Project name	Remaining Unpaid Balance
TriCoeur Services, L.L.C.	Bridge	H.013098.5	Off System Bridge Program, Vernon Parish Jim Cryer Road Bridge, Stage 3 – Part IV Final Plans	\$11,812
LandSource, Inc.	Survey	N/A	N/A	N/A
Теггасоп	Geotechnical	H.003931.5-2	I-10: Calcasieu River Bridge Additional Borings	\$339,579
	Geotechnical	H.002868	I-49 Frontage Road Bridges PDA Testing	\$227,811
	Environmental	H.004273.5	Lafayette Urban Section (I-49 Lafayette Connector) Phase II ESA, Lafayette Parish	\$9,138
	Geotechnical	H.005967	Nelson Road Extension and Bridge	\$52,531
	Geotechnical	H.012569	Little Sugar Creek Bridge	\$5,419
	Geotechnical	H.005121	LA-1 and LA-415 Connector	\$227,167
	Geotechnical	H.000385.5	US190: LA415 & RR Overpass	\$213,763
	Geotechnical	H.011670	Loyola Interchange Design-Build	\$221,316
	Geotechnical	H.012033	Cross Bayou and Caney Bayou	\$20,420
	Geotechnical	H. 002794.5	LA 308 – Canal Bridges Near Larose	\$676
	Geotechnical	H.003931.5-2	I-10: Calcasieu River Bridge Additional Borings	\$339,579
	Geotechnical	H.002868	I-49 Frontage Road Bridges PDA Testing	\$227,811
	Environmental	H.004273.5	Lafayette Urban Section (I-49 Lafayette Connector) Phase II ESA, Lafayette Parish	\$9,138
	Geotechnical	H.005967	Nelson Road Extension and Bridge	\$52,531



## 20. Certifications/Licenses:

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Public Address:

Mr. Barry P. Gahagan, PE, PLS9270 Siegen Lane, Suite 501

TriCoeur Services, LLC

Baton Rouge, Louisiana 70810

License/Certificate Information w/ Supervision

License Status First Issuance Date Expiration Date Supervisor(s)

EF.0004660 Active 09/16/2010 03/31/2023 Mr. Barry Patrick Gahagan # PE.0021586 - Active

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Public Address:

Mr. Barry P. Gahagan, PE, PLS9270 Siegen Lane, Suite 501

TriCoeur Services, LLC

Baton Rouge, Louisiana 70810

License/Certificate Information w/ Supervision

License Status First Issuance Date Expiration Date Supervisor(s)

VF.0000653 Active 09/16/2010 03/31/2023 Mr. Barry Patrick Gahagan # PLS.0004834 - Active





#### **LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD**

(LAPELS)

9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291

www.lapels.com

## Mr. Barry Patrick Gahagan

License/Certificate Type - Number

**Expiration Date** 

PE.0021586

03/31/2024

Status: Active



## LOUISIANA PROFESSIONAL

**ENGINEERING & LAND SURVEYING BOARD** 

9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809

Phone (225) 925-6291

www.lapels.com

### Mr. Thomas Montrose Willis

License/Certificate Type - Number

**Expiration Date** 

PE.0024205

03/31/2024

Status: Active



#### **LOUISIANA PROFESSIONAL**

**ENGINEERING & LAND SURVEYING BOARD** (LAPELS)

9643 Brookline Avenue, Suite 121

Baton Rouge, LA 70809 Phone (225) 925-6291

www.lapels.com

## Mr. Barry Patrick Gahagan

License/Certificate Type - Number

**Expiration Date** 

PLS.0004834

03/31/2024

Status: Active



The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:

Public Address:

Ms. Sandra Wiley6730 Exchequer Drive

Landsource, Inc.

Baton Rouge, Louisiana 70809

License/Certificate Information w/ Supervision

License

Status First Issuance Date Expiration Date

Supervisor(s)

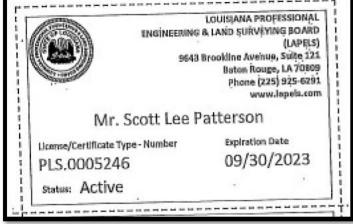
VF.0000377 Active 02/13/1996

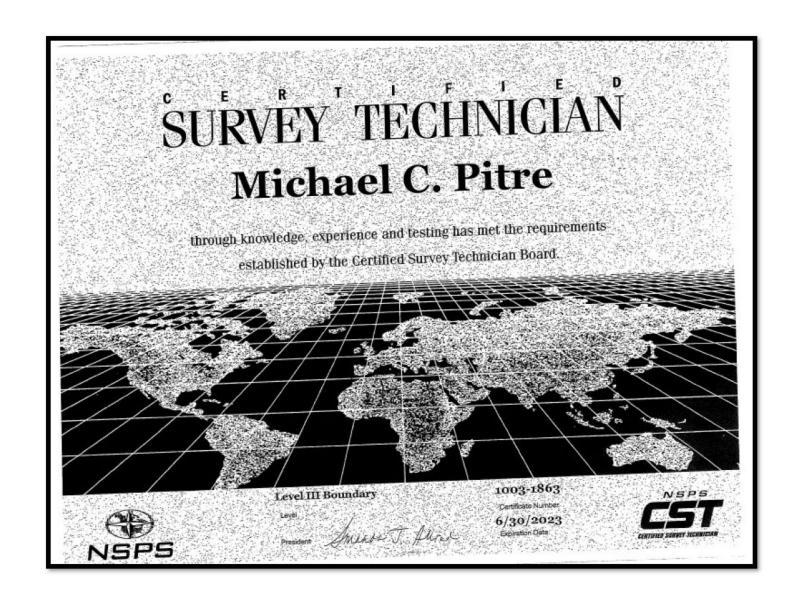
09/30/2024

Mr. David Lee Patterson # PLS.0004784 -

Active









## 21. QA/QC Plan and/or Work Plan:

# Quality Control / Quality Assurance Plan Off System Bridge Program

#### **Project Identification**

State Project No.:	H.014984.5			
Federal Aid Project No.:	H.014984			
Project Title:	OFF-SYSTEM HIGHWAY BRIDGE PROGRAM			
	RAPIDES PARISH			
<b>Project Name:</b>	LIBUSE CUTOFF RD OVER FLAGON BAYOU			

#### **Declaration:**

TriCoeur Services, L.L.C. and its design team shall maintain and follow active Quality Control / Quality Assurance procedures in conformance with the no less than the minimum requirements set in the "Guidance on QC/QA in Bridge Design in Response to NTSB Recommendations (H-08-17)" (FHWA/AASHTO Guidance), which was published by FHWA and AASHTO in August 2011, and LADOTD Bridge Design Section QC/QA policies for the duration of this project.

**Signature of Official:** 

Date: 12/06/2022



**Project Modules/Components & Assignments** 

Module - Component	Project Manager/	Professional of	Checker	Reviewer
Description	Supervisor / Team leader	Record (P.O.R.)		
Stage 3, Part Ia				
- Topographic Survey	B Gahagan, PE, PLS	D Patterson, PLS (Landsource)	S Patterson, PLS (Landsource)	M Pitre (Landsource)
Stage 3, Part III:				
- Preliminary Plans	B Gahagan, PE, PLS	B Gahagan, PE, PLS	N Lowe, EI	B Gahagan, PE, PLS
- Hydraulic & Hydrologic	B Gahagan, PE, PLS	TM Willis, PE	B Gahagan, PE, PLS	TM Willis, PE
- Solicitation of Views & Categorical Exclusion	D Brunet (Terracon)	J Baxter (Terracon)	R Keane (Terracon)	J Baxter (Terracon)
- Wetland Studies	D Brunet (Terracon)	J Baxter (Terracon)	R Keane (Terracon)	J Baxter (Terracon)
- Environmental Clearance	D Brunet (Terracon)	J Baxter (Terracon)	R Keane (Terracon)	J Baxter (Terracon)
- Right of Way Agreement / Sketch	B Gahagan, PE, PLS	B Gahagan, PE, PLS	N Lowe, EI	B Gahagan, PE, PLS
Stage 3, Part IV				
- Final Plans	B Gahagan, PE, PLS	B Gahagan, PE, PLS	TM Willis, PE N Lowe, EI	B Gahagan, PE, PLS



#### QC procedures shall assure:

- 1) A supervisor or team leader is responsible for determining the necessary technical knowledge and experience of the designer/checker for that specific design; Designers & checkers are assigned to bridge projects by matching experience to project complexity.
- 2) All bridge plan sheets shall include the names or initials and dates of the appropriate designer and checker, and may include their signatures. Including the names or initials of the drafter and reviewer is also good practice. Sealing of the bridge plans by the engineer in responsible charge of the work should follow state requirements.
- 3) All relevant special provisions shall be identified by the appropriate author in responsible charge and checker. Sealing of special provisions should follow state requirements.
- 4) Design calculations, check calculations, review comments/resolutions and other pertinent documents as discussed above shall be retained in the permanent bridge design file. Including other important documents like QC checklists, cost estimates, and supporting reports in the design file is good practice.
- 5) A documented program which details the procedures, standards, and policies to be used in the oversight of bridge design.

## QA procedures shall include:

- 1) Independent check of design calculations with depth and extent of this review commensurate with bridge size, complexity, and level of risk.
- 2) Participation in field engineering reviews during design, construction, and in-service.

## Design Criteria:

- 1) Louisiana Department of Transportation and Development Off System Highway Bridge Program Guidelines Latest Edition
- 2) Reference Project Advertisement (Pg 5)

#### **Design Checklists:**

Louisiana Department of Transportation and Development - Off System Highway Bridge Program Guidelines - Latest Edition

- 1) Location (Topographic) Survey Checklist
- 2) Plan-in-Hand checklist
- 3) Constructability / Biddability checklist



#### PLAN / CONSTRUCTABILITY / BIDDABILITY REVIEW

(ADOPTED FROM LADOTD WITH MODIFICATIONS)

#### **Purpose:**

- To provide information to assist in producing quality plans.
- To provide a history of information that is easily accessible.
- To provide questions to stimulate discussion of potentially problematic areas.
- To provide questions to stimulate checking details and items required to complete the project.
- To provide aid during design for QA/QC
- To provide primary discussion for the plan-in-hand meeting

#### Instructions for completing the form

- The Design Review portion of the form shall be filled out by the designer during design and prior to PIH submittals.
- The form may be filled out by any district person (ADA, Area Engineer, Lab Engineer, etc.) but the Project Engineer must sign the signature sheet that he concurs with the comments. It is encouraged that the Area Engineer and the Project Engineer both review the plans.
- The Project Engineer and any District personnel designated by the Project Engineer are responsible for reviewing the plans and filling out the review form. The Project Engineer and all reviewers must sign the signature sheet at the back of the form. The Area Engineer is also encouraged to review the plans.
- If answer to the question is in blue box (or lightly shaded if in black and white), a comment is **NOT** required.
- Most questions are designed that a "NO" answer will require comments on what is missing or needed.
- Most questions are designed that a "YES" answer means the plans meet the project needs or a follow up question is required.
- Comments should be shown by reference number on notes page for easy reference. (Example III-2)
- Constructability and Plan-in-Hand questions shall be answered prior to the Plan-in-Hand. The plans should provide enough detail to construct the work required.
- ACP and PS&E / Biddability submittal shall have copies of the completed PIH review attached. If missing contact the Project Manager for a copy. The plans and specifications should provide the details and pay items to bid the project.
- Project Managers are required to respond to all comments and copy all reviewers.
- Each review is considered complete when all comments are addressed
- If question is answered N/A, question is not applicable to project.
- 95% Final Plan reviews (ACP) shall have the completed 95% Preliminary Plan (PIH) review attached. It may be helpful to reference the PIH plan set during the ACP review.
- Comments may be required for certain checklist items. Comments are to be written at the back of the form along with reference numbers for the plan section and checklist item number.

Project managers shall collect all review forms, insert responses to any comments, and copy all reviewers.



# APPLICABLE SECTION FOR REVIEW

State	e Projec	t No.	H.014984.5 Route No. N/A	P/H –Constructability  【 (95% Prelim)
F.A.	.P. No.		H.014984 Parish Rapides	Advance Check Print  (95% Final)
Proj	ect Nan	ne:	LIBUSE CUTOFF RD OVER FLAGON BAYOU	(9370 Pinai)
<u>Yes</u>	<u>N/A</u>	<u>#</u>	<b>Description</b>	
		I.	TYPICAL SECTION SHEETS	
$\boxtimes$		II.	SUMMARY SHEETS	
$\boxtimes$		III.	PLAN-AND-PROFILE SHEETS	
$\boxtimes$		IV.	DRAINAGE INFORMATION	
	$\boxtimes$	V.	SIGNAL PLANS	
$\boxtimes$		VI.	GEOMETRIC DETAILS	
$\boxtimes$		VII.	SEQUENCE OF CONSTRUCTION & CONSTRUCTION	SIGNING
$\boxtimes$		VIII.	GENERAL	
$\boxtimes$		IX.	UTILITIES	
		<b>X.</b>	STRUCTURES - BRIDGE	

# PLAN-IN-HAND INSPECTION REPORT AND CONSTRUCTABILITY / BIDDABILITY REVIEW

			Desig	n			Cor	struc	tion		
A.	Description	- S	Revievomme		Plan-in-Hand Constructability			ACP		PS8 Bidda	
		N/A	Yes	No	N/A	Yes	No	Yes	No	Yes	No
8	I. TYPICAL SECTION SHEETS										
1.	Has District been consulted on the pavement type?		<b>4</b>								
2.	Is District in agreement with the typical section?										
3.	Are project limits covered by typical sections?		<b>4</b>								
4.	Are superelevation diagrams and tables provided?	<b>V</b>									
	4a. If yes, Is the design speed noted on the diagram?										
5.	Does the typical section fit within existing and/or proposed right-of-way? (Check cross sections)		<b>4</b>								
6.	Will the typical section drain water from the base course?		<b>V</b>								
	6a.If yes, is there a method/detail to drain and required items?										
7.	Is a subgrade layer required?										
	7a. If yes, what types are applicable? (List Types)										
	7b. If no, Is lime treatment provided in the plans?										
8.	Are all measurements, thicknesses, and slope rates labeled and accurately indicate what is to be constructed?		<b>4</b>								
9.	Is the minimum ditch elevation dimension shown on the typical section?										
			<b>✓</b>								
	II. SUMMARY SHEETS		V								
1	Will existing ditch cleaning be required?										
	1a. If yes, are there limits and pay items?										
2.	Are there sufficient removal items for the types of pavement/structures being removed?	<b>~</b>						2			
3.	Is method of payment for earthwork design addressed (e.g. "temporary" borrow, "additional excess", detour material, embankment, etc.)?		<b>4</b>								



			Desig	ın			Cor	struc	tion		
		0.000	Revie		10	n-in-Ha				PS8	
i i	Description	-	omme			tructal	_	_	CP	Bidda	_
		N/A	Yes	No	N/A	Yes	No	Yes	No	Yes	No
	Have sufficient temporary erosion control items been included?		<b>V</b>								
5.	Are construction entrances required?										
	5a. If yes, are the number and section shown?										
6.	Is method of payment for removal of pavement satisfactory?										
7.	Is traffic maintenance aggregate required?										
	7a. If yes, how much?										
8.	Is there a summary of drainage structure sheet provided?										
	8a. If yes, are items adequately covered?										
	8b. If no, is one required? Why?										
9.	Are work elements identified clearly with all corresponding pay items included with adequate										
	quantities to construct project? (i.e. summary tables)	<b>~</b>								4 5	
10.	Is there any work under this project designated as "no direct pay"?			<b><!--</b--></b>							
	10a. If yes, is this work clearly linked to a specific pay item that can be quantified in the										
	contractor's bid item list?										↓
11.	Are permanent erosion and pollution control items included?		<b>4</b>								
	III. PLAN-AND-PROFILE SHEETS										
1.	Is adequate right-of-way provided for relocation of utilities?		<b>V</b>								
2.	Is there space between the R/W line and drainage structure to allow for utility relocation?		<b>V</b>								
3.	Are right-of-way and property line dimensions shown on plans?		<b>4</b>								
4.	Will any right-of-entry agreements be required?			<b><!--</b--></b>							
	4a. If yes, is this satisfactory?										
	4b. If yes, who will secure it?										
5.	Does existing horizontal or vertical clearance allow for construction?										
6.	Are all the utility owners with contact numbers listed?		<b>4</b>								
7.	Are the existing utility locations marked in the plans?		<b>V</b>								
8.	Are the utility conflict boxes and their location noted on the plans?		<b>4</b>								
9.	Will overlay affect the intersection, gutters, or curbs drainage?	<b>~</b>									



		Desig	n			Cor	struct	ion	104	
	ne tendi	Revie		10	n-in-Ha				175-774	&E
Description	-	omme		_	tructak	_	A			ability
On Marine and adjustments required 2	N/A	Yes	No	N/A	Yes	No	Yes	No	Yes	No
9a. If yes, are adjustments required?	+									
10. Are retaining walls required?  10a. If yes, are details provided for the walls?	-		✓							
11. Are all oil or gas wells on the project shown on the plans?	<b>✓</b>					_				
12. Are encroachments on the right-of-way being addressed?										
13. Are existing improvements within 50' of required right-of-way shown on the plans?		<b>4</b>								
14. Is there any potential hazardous waste site / UST?			<b><!--</b--></b>							
15. Have construction or drainage servitudes been shown?		<b>4</b>								
16. Are the limits of clearing, grubbing, and landscaping shown?		<b>4</b>				0				
17. Can any significant tree be allowed to remain?										
17a. If yes are those to remain been identified?										
18. Are there apparent conflicts between plans and specifications?			<b>4</b>							
19. Are the benchmark data, required elevations, and curve data on the plans?		<b>V</b>								
20. Does location of the grade shown on the typical section (sub grade or finished) match grade shown in profile? (Check for label)		4								
21. Are vertical and horizontal limits of removal clear?										
21a. If yes, are the depths of embedment required excavation shown.										
21b. If yes, are details of removable item required?										
22. Have arrangements been made for relocation of hydrants by utility agreement?										
23. Do general site conditions conform to those represented in plans?										
24. Is existing topography accurate and up-to-date?										
25. Does profile fit the terrain?		<b>4</b>								
IV. DRAINAGE INFORMATION										
<ol> <li>If subsurface drainage is being used, is there any evidence of effluent sewerage entering</li> </ol>										
existing roadside ditches?										
1a. If yes, what is the plan of action										
Is adequate outfall information shown?		<b>V</b>								



			Desig	n			Cor	struc	tion		
		I	Revie		Pla	n-in-Ha	nd			PS	&E
	Description	C	omme	ents	Cons	structal	oility	A	CP	Bidda	bility
		N/A	Yes	No	N/A	Yes	No	Yes	No	Yes	No
3.	Has sufficient drainage excavation and/or cleaning of outfall lateral required for adequate					*					
	drainage been shown?										
(4	3a. If yes, who is cleaning laterals (City, Parish)?					-					
4.	Will cleaning be required for existing drainage structures?										34 M
F	4a. If yes, are pay items included?					-					
٦.	Will special ditch protection items be required?					-					
6	5a. If yes, identify type		<b>✓</b>								
6.	Have existing drainage patterns, their continuity, and high water indications been identified?	5		2						-	
7.	Are ditches compatible with existing and proposed drainage structures?		✓		-		4				
8.	Is design drainage elevations shown in the plan compatible with the existing conditions?		<b>V</b>		#						
9.	Is there a provision for temporary drainage?										
10.	Is water being trapped on the lanes on travel lanes which are to be maintained during construction?										
11.	Is there a method to connect new and existing drainage facilities?		<b><!--</b--></b>								
12.	Is a second profile sheet required for right and left of centerline?			<b>V</b>							
	V. SIGNAL PLANS - Not Anticipated for this Project										
	(Review with Traffic Engineer)										
1.	Are pole locations in conflict with utilities or drainage structures?					e.					
2.	Are a controller, signal head, pull box, and pedestrian poles required?			<b>4</b>							
3.	Is the existing controller compatible to added items?	<b>~</b>									
4.	Are overhead power lines in conflict with span wire?										
5.	Will fiberglass insulators be required or relocated?										
6.	Are there any signs attached to the overhead span wire for the existing traffic signal?										
7.	Is the disposition of existing signal poles and signal equipment to be removed identified?	✓									
8.	Is the sidewalk being obstructed by signal equipment access?	<b>*</b>	5-								
9.	Does the foundation match requirements for span lengths/mast arms?	<b>~</b>		10							
	9a. If yes, are details provided?	<b>✓</b>									
10.	Are street name signs included on mast arms?	<b>V</b>									
	10a. If yes, are details provided?	<b>✓</b>									



T is			Desig	ın			Cor	struc	tion		
		De troit	Revie	8.74	10 10 10 10	n-in-Ha				PS	Tel High
-	Description	N/A	Yes	_	N/A	Yes	No	Yes	CP No	Bidda Yes	_
11	Are communication cables overhead?	N/A	res	INO	IN/A	res	INO	Yes	INO	res	No
11.	11a. If yes, will they fit with overhead electric?										
12	Do loop detectors exist?						+				
12.	12a. If yes will existing loop detectors be destroyed by construction?										
E->	12b. If loop detectors are being replaced, are all pay items included (i.e. conduit, junction boxes,					e e	,				
conduit,	,										
	etc.)?										
	12c. Will cameras be added?										
13.	Is jacking and boring required?	<b>V</b>	5								
	Is open trenching required?	<b>V</b>									
	Is right-of-way adequate for signal equipment? (e.g. for signal and lighting foundations, utility										
	relocations, construction easements, adequate work space, desirable clear zone, etc.)	<b>*</b>									
16.	Are temporary traffic signals required?										
	16a. If yes, who will be responsible?										
e.	VI. GEOMETRIC DETAILS										
1.	Have all areas where improvements can be made to alignment been addressed?										
2.	Are sight distances adequate at intersections? (r/w flares, obstructions, etc.)		<b>4</b>								
3.	Is the required information shown on the geometric sheets (e.g. curve data, sight distance,										
	vertical datum, centerline, etc.)		<b>4</b>								
4.	Is existing access being denied due to inadequate sight distance?			<b>4</b>							
	VII. SEQUENCE OF CONSTRUCTION & CONSTRUCTION SIGNING										
1.	Is through traffic to be maintained?			<b>V</b>							
	1a. If no, is a detour provided?		<b>~</b>								
2.	If local traffic only, are sufficient details and items provided for school buses, mail carriers,										
	emergency vehicles, or other local traffic to be maintained.										
3.	Is temporary sheeting required to maintain existing/required travel lanes?		). ()	<b>4</b>							
	3a. If yes, are specifications and details provided?										
12	3b. If yes, is method of payment satisfactory?		23.							20	
4.	Are there conflicts between new and existing roadway used to maintain traffic?			<b>V</b>							



	Design Construction
Description	Review/ Plan-in-Hand PS&E Comments Constructability ACP Biddability
•	N/A Yes No N/A Yes No Yes No Yes No
5. Are traffic control plans for the bridge coordinated with roadwork phasing?	
<ol><li>Can utility crossings be resolved via scheduling restrictions (i.e. weekends, after hemporary structures?</li></ol>	ours) or
7. Do utilities conflict with required special construction sequencing?	
<ol> <li>Are traffic operations requirements properly addressed? (i.e., signing, pavement r signal, etc.)</li> </ol>	arkings 🗸
Are lanes on which traffic is to be maintained compatible to local conditions?	
10. Is there sufficient clearance within the work zone for the operations (such as cran	swing room)?
11. Are there adequate accommodations for intersecting and crossing traffic?	
12. Have pedestrian and bicycle accommodations been addressed?	
13. Has a method of containing bridge slopes during phased construction (at end ben approach grade separation been identified?	
14. Have restrictions (e.g. lane closure, general construction or peak-hour restrictions areas) been identified?	in urban
15. Are there notes covering pay for traffic control items?	
16. Is the Traffic Control Plan clear, complete, and approved?	
17. Are items for temporary safety devices, requirements and provision (i.e. guardrail barrier rails, etc.)?	attenuators,
18. Have the traffic control signs, warning devices and barricades been located?	
Scheduling & Phasing	
<ol> <li>Is scheduling and phasing coordinated with activity needs? (Schools, festivals, hat parallel routes, etc.)</li> </ol>	vesting,
20. Will staging areas be provided to contractors that will accommodate the sequence work areas?	of work and
21. Is the type and limits of fence for temporary construction servitude identified?	
22. Have requirements for local/state/federal special permits been addressed?	✓
23. Is existing access being denied by obstacles (walls, guard rails, etc.) or grade different adjacent property?	rentials to
24. Is safe pedestrian access and access to business and residences provided?	



		Desig	n			Con	struct			
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Description	-	omme		_	tructak		A		Bidda	-
	N/A	Yes	No	N/A	Yes	No	Yes	No	Yes	No
Detours			11774		20					
25. Is detour facility clearly depicted?			<b>4</b>							
26. Do the detour limits conflict with roadway improvements?			<b>~</b>							
27. Is method of payment for detour satisfactory?										
28. Can detours be built due to grade difference between new and existing roadways?		<b>4</b>				,				
29. Is traffic addressed on side streets?		<b>4</b>								
30. Is night work required?			<b><!--</b--></b>							
31a. If yes, are hours and/or restrictions shown?	<b>*</b>									
VIII. GENERAL										
Are appropriate general notes and special provisions required for construction provided?										
Is there adequate construction access for demolition?										
Are there adequate provisions if signs or road markers are to be removed?		<b>4</b>								
Are contamination sites delineated?	<b>V</b>									
<ol><li>If there is a contamination site, have utility relocations been addressed?</li></ol>										
6. Does the Corp permit require work not shown on plans?			<b><!--</b--></b>							
7. Have environmental safeguards or dust control, erosion, and disposal of wastes been addressed?		<b>4</b>						4		
8. Are there provisions for noise abatement (e.g. permanent noise walls)?			<b>V</b>							
Do conflicts exist between landscaping and planting requirements with utilities (e.g. irrigation lines) and billboards?										
10. Is there sufficient space (25'-30') for power mowers between additional trees that are planted?	<b>V</b>									
11. Is there an erosion control plan provided? (to be provided in Final Plans)			<b>4</b>							
12. Where pile driving is to be encountered near existing structures, should pre-existing conditional survey (video/pictures) be performed on the existing structures?										
12a. If yes, are items provided?										
13. Did you create any S-item wording?			<∕							
IX. UTILITIES										



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Description		omme			tructak		-	CP		bility
A MERIOL I P. C. COPP. I C. C. C.	N/A	Yes	No	N/A	Yes	No	Yes	No	Yes	No
Will there be disruptions of utilities and provisions for restoration?										
<ol><li>If utilities are outside of limits of construction but within the r/w, have all parties (including utility owners) agreed to allow them to remain in-place?</li></ol>			<b>4</b>							
3. Has responsible party for utility relocation been identified with provisions?										
4. Are there overhead utilities, guy wires, etc. in potential conflict with operations and access of large equipment?										
5. Are there gas lines above other utilities?									e.	
6. Are there conflicts between gravity and force sewer mains and construction?		<b>*</b>								
6a. If yes for force main, is there a utility agreement for relocation?	<b>~</b>									
6b. If yes for gravity sewer, are plans included for relocation of sewer?			<b>V</b>							
7. Are there utility conflicts with drainage?										
8. If project is preceded by clearing and grubbing contract, have utilities been relocated?										
9. If there are pipelines, are they shown in the profile?		<b><!--</b--></b>								
10. If there is a need for a specified utility corridor?			<b>4</b>							
10a. If yes, is it shown?										
11. Should an integrated utility relocation plan (scheduling and final location of utilities) be included										
in the construction plans?		a	<b>~</b>							
11a. If yes, is the integrated utility relocation plan included in the construction plans?	<b>✓</b>									
X. STRUCTURES										
GENERAL NOTES, INDEX, AND BRIDGE SUMMARY OF QUANTITIES									is a	24 17
GENERAL NOTES & INDEX										
Is information complete, accurate, clear and free from multiple interpretations?		<b>V</b>								
Have all environmental commitments been identified?			<b>V</b>							
Has the disposition of salvageable materials been addressed?										
Are utility permit requests addressed?			<b>~</b>							
BRIDGE SUMMARY OF QUANTITIES										
Are all necessary items shown and properly footnoted?	<b>V</b>									
Are all quantities and units adequately shown?	<b>V</b>									



		Desig	n			Cor	struc	tion	/25	
Description	Detach!	Revie		10	an-in-Hand estructability				PS Bidda	&E ability
·	N/A	Yes	No	N/A	Yes	No	Yes	No	Yes	No
3. Have all items been brought forward properly to the Master Summary of Quantities?	<b>V</b>									
4. If the project is composed of multiple project numbers or funding sources have the quantities been subdivided?	<b>~</b>									
5. Have all non FHWA participating items been identified?	<b>V</b>									
GENERAL BRIDGE PLANS									2	
1. Are all geometric controls shown and consistent with other sheets?	<b>V</b>									
<ol><li>Does each plan sheet provide a clear layout and configuration of the intended structure (matchlines, span/bent numbering, joint types, etc.)?</li></ol>	<b>~</b>									
3. Does the roadway and bridge interface agree?	<b>*</b>									
4. Has all guard rail installation information been shown?	<b>V</b>									
5. Are vertical clearances shown (navigable waterways, roads under bridge, etc.)?	<b>V</b>									
6. Is deck drainage type specified (drain holes ,barrier slots, etc)?	<b>V</b>									
HYDRAULIC DATA										
1. Is the hydraulic table shown?		<b>V</b>								
2. If river gauges are present, has the removal and disposition of these gauges been addressed?	<b>V</b>									
3. Has predicted scour, scour protection and abutment protection been adequately addressed?		<b>4</b>								
Have design water surface elevations been shown?		<b>4</b>								
Do all water surface elevations reference the project survey datum?		<b>4</b>								
Have any channel changes been addressed in the plans?		<b>4</b>								
GEOTECHNICAL INFORMATION (If not addressed on foundation plan)										
1. Have all borings, CPT, test piles, and settlement plates been shown on the plans?			<b>✓</b>							
2. Has all temporary shoring for phased construction been covered adequately?	<b>V</b>									
3. Is Pile Batter indicated (if not shown on bent details)?	<b>~</b>									
CONSTRUCTION CONFLICTS										
1. Is the existing structure shown?		<b>4</b>								
2. Are all utilities to remain shown?		<b>~</b>								



		Desi	gn			Cor	struc	tion	104	
Description	and the second s	Revi	The state of	10 10 10 10	n-in-Ha tructal		A	CP	PS: Bidda	
	N/A	Yes	No	N/A	Yes	No	Yes	No	Yes	No
SUPERELEVATION DIAGR (Superelevation implementation plans should always be transition occurs on the bridge. The bridge superelevati	ncluded when superelevation n will control the design.)									
<ol> <li>Is the superelevation implementation plan clear and con</li> </ol>	se?									
Is the transition from roadway to bridge clearly conveyed	<b>✓</b>									
FOUNDATION PLAN (A foundation plan may be used when geometry is comprequired for layout of foundation or conflicts with foundation identified)										
1. Has all temporary shoring for any phased construction b	en covered adequately?									
Are all conflicts identified in the plans?	✓									
Are all utilities to remain shown?		<b>4</b>								
4. Is the pile batter shown (if not shown elsewhere)?	✓									
5. Have all overhead or underground obstructions or confli operations been addressed?	s that may impede pile driving									
6. Will pile driving interfere with maintenance of traffic?										
7. Will a pre / post construction site survey for such structu										*
8. Are there any residences, businesses, or facilities (inclumay be affected by the noise and vibration from the pile activities?										
Will vibration monitoring be needed?										
SUBSTRUCTURE										
Does reinforcement location allow for proper placement be given to splice locations)	f concrete? (Special attention should									
2. Are any special details required for superstructure anche			<b>V</b>							
SUPERSTRUCTURE / APPROACH SPANS AND	MAIN SPAN DETAILS				0	Į.				
1. Are details adequate for layout of deck reinforcement?	✓									



		Desig	n			Con	struct	ion		
Description	The state of the s	Reviev		Plan-in-Hand Constructability			ACP		PS8 Bidda	14000
	N/A	Yes	No	N/A	Yes	No	Yes		Yes	No
2. Are any special details required for special areas of the deck?	<b>*</b>									
3. Are deck joint details shown?	<b>*</b>									
4. Are drains removed over railroads, roadways, and revetments?	<b>V</b>									
5. Are girder connection details shown?	<b>V</b>									
6. Is adequate information provided for the fabrication of girders, cross frames, and diaphragms?	<b>*</b>									
7. Has the pouring sequence been specified?	<b>V</b>									
APPROACH SLABS										
Are the drainage details for the approach slab adequately shown?	<b>4</b>									
NAVIGABLE WATERWAYS (Not anticipated for this Project)										
1. Are details for clearance gauges shown?	<b>V</b>									
2. Are details for navigation lighting provided?	<b>V</b>									
3. Has pier protection been addressed?	<b>V</b>				i.s					
MOVABLE BRIDGES (Not for this Project)					ľ					
1. Are all required Special Details included (End Drains, fencing, etc.) ?	<b>*</b>									
2. Has operator's house been located?	<b>V</b>									
3. Has adequate parking and access been provided for operators house?	<b>V</b>				s.					
As-Builts										
Are As-built drawings required for this project?			<b><!--</b--></b>							
<ol><li>Would As-built drawings be helpful for bidding and/or construction?</li></ol>			<b>4</b>							
3. Are As-built drawings included with these plans?			<b>4</b>							
Permitting Issues										
Are utility permit requests adequately addressed?	<b>*</b>									
<ol><li>Are there any special requirements that need to be addressed in the plans for the construction of a bridge over a navigable water way or roadway? (These requirements may be related to agreements with the USCG, COE or for purposes of maintenance of traffic)</li></ol>			<b>~</b>							



12			Desig	jn	Cons			nstruction			
	Description	person in	Revie	18.74° (7	Plan-in-Hand Constructability		ACP		PS&E Biddabilit		
j		N/A	Yes	No	N/A	Yes	No	Yes		Yes	No
3.	Are there any access issues that may affect the contractors' construction of the bridge or demolition of the existing bridge that have not been addressed in the plans?										
4.	Is the water depth at the site of sufficient depth to float barges?										
5.	Will barges obstruct navigation?										
6.	Are all environmental commitments being met by the proposed construction methods? (These commitments should be noted in the General Notes section of the plans)	<b>*</b>									
7.	Has the removal of the existing bridge been adequately coordinated with the permitting agencies and any special requirements covered in the plans?	<b>✓</b>									
	Construction Site Access										
1.	Are there any access issues the contractor may have for the delivery of materials to the project site? (Posted bridges)										
2.	Are there any driveways or property entrances that will have to be maintained during construction, relocated and / or reconstructed?										
3.	Will any work bridges or haul roads be required for the construction of the bridge?										
4.	Is there sufficient right of way to construct the bridge structures?										
5.	Are there any other construction related issues that will affect the constructability of the project that needs to be accounted for in the construction estimate?										
6.	Are there any utilities supported on the structure that need to be addressed in the plans?										
	Maintenance of Traffic										
	For navigational traffic, have channel alignment and clearance issues been addressed?	<b>*</b>									
2.	If the project is to be constructed utilizing phased construction, will the construction scheme facilitate maintenance of traffic?	<b>✓</b>									
	General Constructability and Biddability										
1.	Are there adequate staging areas for the contractor?									e e	, v
2.	Are all required work items covered under proper pay items?										
3.	Have quantities for phase construction been broken out on the individual sheets to facilitate payment during construction?	<b>~</b>		53							
4.	Has uniformity of formwork been adequately considered in all of the bridge elements?	<b>*</b>									
	K. SPECIAL PROVISIONS (95% Final Plan Review)										



			Design				Con	struc			
	Description	Detection of the Control of the Cont	Review/ Comments		100 110 0000	ı-in-Ha tructab		ACP		PS&E Biddability	
		N/A	Yes	No	N/A	Yes	No	Yes	No	Yes	No
1.	Is asbestos or creosote timber being removed?	✓									
	(a). Are special instructions and disposal defined?	✓									
	(b). Has entity to handle been identified?	✓									
2.	Is the contract type and time period sufficient?										
3.	Is there a treatment for the removed steel if it has red lead?	✓									

Plan-in-hand inspection report prepared by	Date
Project Engineer	Date
ACP review by	Date
Project Engineer	Date
Constructability / Biddability review by	Date
Project Engineer	Date



# **NOTES PAGE**

Item No	Comment	Response
VII.1	Is through traffic to be maintained?	Parish to provide detour signage
VII.25	Is detour facility clearly depicted?	Parish to provide detour signage
VIII.8	Are there provisions for noise abatement (e.g. permanent noise walls)?	Noise abatement not anticipated
VIII.11	Is there an erosion control plan provided?	Erosion control plan to be prepared in Final Plan Phase
IX.2	If utilities are outside of limits of construction but within the r/w, have all parties (including utility owners) agreed to allow them to remain inplace?	Utility conflicts will be resolved by Parish prior to Bid advertisement
IX.6	Are there conflicts between gravity and force sewer mains and construction? If yes for gravity sewer, are plans included for relocation of sewer?	Gravity Sewer Main conflict to be resolved. Alternatives to resolve will be reviewed at Plan-in-Hand (PIH).
IX.11	Should an integrated utility relocation plan (scheduling and final location of utilities) be included in the construction plans?	Utility conflicts will be resolved by Parish prior to Bid advertisement.
X.2	Have all environmental commitments been identified?	To be reviewed. No pile driving noise/vibrations at issue since no driving is planned.
X.4	Are utility permit requests addressed?	Any utility permit requests will be resolved by Parish prior to Bid advertisement.
X.Geo.1	Have all borings, CPT, test piles, and settlement plates been shown on the plans?	None taken. Geotechnical scope to be discussed at PIH.
X.AsBlt.3	Are As-built drawings included with these plans?	No As built drawings anticipated for inclusion in plans.



# 22. Sub-consultant information:

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank.

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
LANDSOURCE, INC. (Charter Number 34514462D)	6730 Exchequer Dr. Baton Rouge, LA 70809	David L. Patterson <a href="mailto:patterson@landsource.com">patterson@landsource.com</a>	(225)752-0995
TERRACON CONSULTANTS, INC. (Charter Number 35701137F)	2822 O'Neal Lane, Building B Baton Rouge, LA 70816	D'Juana Beason Djuana.beason@terracon.com	225-344-6053 225-614-0404 (mobile)



# 23. Location:

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. Otherwise, leave this section blank.

N/A

