

PROFESSIONAL SERVICES AGREEMENT

**Parsons Brinckerhoff Agreement No. 35687F
Task Order No. 7**

This Task Order No. 7 is made and entered into this 9th day of December 2015, by and between the Redevelopment Commission for the City of West Lafayette, Indiana, with offices at 222 N. Chauncey Avenue, West Lafayette, Indiana 47906 (hereinafter called the "OWNER"), and Parsons Brinckerhoff, Inc. a New York corporation, with offices at 115 West Washington Street, Suite 1270S, Indianapolis, Indiana 46204 (hereinafter called "PB").

WITNESSETH

WHEREAS, the parties entered into a Professional Services Agreement on July 11, 2012 (hereinafter called the "Agreement");

WHEREAS, Owner has determined the need for PB to perform certain Services;

NOW, THEREFORE, for the consideration hereinafter set forth, the parties do mutually agree as follows:

1. Scope of Services

PB shall perform the Services and provide the deliverables as described in ATTACHMENT 3A.

2. Schedule

PB shall provide the Services stated above in accordance with the schedule set forth below:

Completion of the outlined tasks and submittal of deliverables is anticipated within twenty (20) weeks after receiving notice to proceed (NTP) from the Owner.

3. Compensation

The OWNER shall compensate PB for the performance of Services stated above, based on actual hours spent by PB and the hourly rates provided herein. Subcontracted work will be passed thru as an expense and not marked up. The estimated total contract amount will not exceed ONE HUNDRED THIRTY THREE THOUSAND SEVEN HUNDRED AND THREE AND 00/100 dollars (\$133,703.00).

Hourly rates by title are listed below:

Title	Lead Staff	Hourly Rate
Senior PM Engineer	Rick Rampone	\$234.66
Lead Drainage Engineer	Robyn Toole	\$130.28

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Drainage Engineer	Jessica Eichhorst	\$88.71
Supervising Civil Engineer	Kelli McNamara	\$155.35
Lead Civil Engineer	John Bowen	\$137.00
Civil Engineer	Paul Mykytka	\$132.81
Civil Engineer	Emily Hendrickson	\$90.10
Project Administration	Julie Weaver	\$90.13

4. Both parties agree that this Task Order No. 7 shall be made part of the Agreement between Owner and PB, and except as amended herein, all terms, covenants and conditions of the Agreement shall remain in full force and effect.

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IN WITNESS WHEREOF, this Task Order No. 7 has been executed by Owner and PB, effective from the day and year first written above.

APPROVED:

Date

**CITY OF WEST LAFAYETTE
REDEVELOPMENT COMMISSION**

Lawrence T. Oates, President

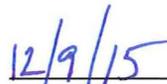
Stephen B. Curtis, Secretary

Attest:

PARSONS BRINCKERHOFF, INC.



Shelby Swango, Area Manager



Date

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ATTACHMENT 3A SCOPE OF SERVICES

Several problems have been determined at the existing Happy Hollow Road crossing of the Happy Hollow stream channel. These problems include: the new 16-foot by 6-foot reinforced concrete box (RCB) culvert is experiencing heavy deposition of rock and sand which is significantly reducing the available waterway opening; an existing 8-inch diameter sewer line which crosses the stream several feet downstream of the RCB culvert has become exposed to flows and debris from the culvert outlet; and there is an approximately 500 foot break in the new sidewalk on the south side, and adjacent to, the Happy Hollow roadway.

As a result of these problems, analysis and preparation of designs for the following actions were determined necessary:

- 1) Relocation of a several hundred foot section of Happy Hollow upstream of the new RCB culvert. This relocation will provide a more effective inlet of stream flows into the RCB culvert and result in more effective cleanout velocities and flow direction. This relocation will also move stream flows away from the Happy Hollow roadway embankment, which has resulted in scour damage along the toe of the embankment.
- 2) Provide interim protection of the downstream sewer line including: a trash rack device to protect from the sewer line from heavy debris; and clearing of the downstream channel to an extent to reduce constriction of flows.
- 3) Length of sidewalk necessary to join the ends of sidewalks east and west of the Happy Hollow crossing. It is anticipated that the sidewalk will utilize the downstream end of the existing RCB culvert, or an extension of the culvert, to cross the Happy Hollow stream channel. Detailed design & bid documents for an alternative "new terrain" pedestrian route that utilizes a pedestrian bridge structure is not included as part of this Agreement but could be explored.

In addition to these items, some alternatives and preliminary cost estimates for a permanent solution to the existing sewer line will be developed. This effort does not include preparation of detailed analysis or designs.

We will perform the following tasks to accomplish these action items::

Topographic Survey (to be performed by PB Subconsultant, TBird Design Services Corporation)

- Establish horizontal and vertical datums
- Coordinate with utility companies of record to obtain location, size and depth (if available)
- Collect survey topographic data
- Provide digital photography of relevant features and areas

Environmental Services (to be performed by PB Subconsultant, Cardno, Inc.)

- Site inspection
- Coordination with regulatory agencies
- Prepare and submit WCA Section 404/401 permit applications
- Regional General Permit for the USACE and Water Quality Certification (State Individual Permit) from IDEM)

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Reconnaissance and Preliminary Engineering

- One (1) Site Visit
- Review field survey information
- Review Happy Hollow Road box culvert design report
- Review applicable local drainage ordinances
- Determine sidewalk design parameters

Hydrologic Analysis

- Review and verify hydrologic analysis for Happy Hollow Road RCB culvert design

Temporary Upstream Scour Protection Measures

- Riprap at inlet to RCB culvert
- Protection for toe of roadway embankment
- Prepare bid documents

Stream Channel Relocation

- Develop relocated channel design parameters
- Develop hydraulic model of study reach of Happy Hollow
- Develop initial layout of channel relocation
- Prepare final channel relocation, alignment, and profile
- Design relocation channel scour/erosion control measures
- Design mitigation measures
- Prepare bid documents

Downstream Clearing/Debris Protection for Sewer Line

- Determine downstream channel clearing criteria
- Determine constructability issues and disposal of waste materials
- Design grate structure to protect sewer line
- Prepare bid documents

Permanent Sewer Line Solution

- Develop preliminary alternatives (no more than three)
- Refine alternatives and develop preliminary layout sketches
- Determine recommended alternative

New Sidewalk Connection

- Preliminary engineering
- 50% plans
- Tracings
- Note: Cross sections are not included in this fee

Bidding/Construction Administration

Project Management

Included with these tasks are anticipated 5 (five) meetings with the Owner to review and discuss progress, specific aspects of the project, and to receive input.

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Based on completion of these tasks, the following deliverables will be submitted to the Owner:

- 1) Copy of requested survey information in electronic format
- 2) Copies of all regulatory permit applications and meeting minutes from coordination meetings with regulatory agencies
- 3) Bid documents for temporary upstream scour protection measures
- 4) Bid documents for relocation of a portion of the Happy Hollow stream channel
- 5) Bid documents for downstream channel clearing and debris protection of existing sanitary sewer line
- 6) Bid documents for new sidewalk connection
- 7) Technical memorandum providing alternatives for permanent solution of exiting sewer line

HAPPY HOLLOW STREAM CROSSING IMPROVEMENTS ANTICIPATED TASKS AND FEE SUMMARY

PROJECT NO.: 35687E
DESCRIPTION: Happy Hollow Stream Crossing Improvements

DES. NO.: N/A

	<i>Description</i>	<i>Anticipated Fee</i>
Section 1:	<i>Environmental Permits</i>	\$21,000
Section 2:	<i>Topographic Survey</i>	\$12,995
Section 3:	<i>Hydraulic Design</i>	\$86,104
Section 4:	<i>Roadway Design</i>	\$13,605
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	<i>Total</i>	\$133,703

HAPPY HOLLOW STREAM CROSSING IMPROVEMENTS ANTICIPATED TASKS AND FEE SUMMARY

PROJECT NO.: 35687E DES. NO.: N/A
 DESCRIPTION: Happy Hollow Stream Crossing Improvements

TOTAL CIVIL FEE MULTIPLIER

A.	Direct Labor, Estimated Estimated manhours x Current Hourly Rates			1.00
B.	Escalation (Assumes 4% per year)	% work		
		2015 80.0%		1.00
		2016 20.0%		1.04
C.	Total Direct Labor Weighted labor rate per year			1.00
D.	Overhead Rate 157.30% Provisionally Approved PB Americas Overhead Rate for Proposals = 160.20% (based on FY012 Audited OH) (C x 1.573)			1.57
E.	Fee Base (C+D)			2.57
F.	Net Fee 13.00% (E * 13.0)			0.33
G.	Cost of Facilities Capital 0.18% (Audited Rate {0.0018%} x C)			0.0000
J.	Total Estimated Fee Multiplier (E+F+G)			2.907 Multiplier

Position	Hourly Rate
Office Manager Project Director PIC	\$ 76.12
Department Manager Senior PM	\$ 80.71
Senior Manager / Supervising Engineer	\$ 47.71
Senior Engineer	\$ 39.86
Lead Engineer	\$ 47.91
Engineer II	\$ 35.84
Engineer I	\$ 30.77
CADD Tech	\$ 36.48
Project Administrator	\$ 31.00
Administrative Asst	\$ 26.00

Section 1- Environmental Permits

PROJECT NO.: 35687E

DES. NO.: N/A

DESCRIPTION: Happy Hollow Stream Crossing Improvements

DESCRIPTION	PERSON HOURS BY CLASSIFICATION											TOTAL HOURS / TASK	TOTAL DOLLARS / TASK	
	No. of Sheets	10	9	8	7	6	5	4	3	2	1			
		Office Man. Proj. Dir.	Dept. Man. Sr. PM	Sr. Man./Spv Engineer	Senior Engineer	Lead Engineer	Engineer II	Engineer I	Cadd Tech.	Proj Administrator	Admin Asst			
See Subconsultant Cardno Inc. for Stream Permitting Services														
TOTAL - HOURS:		0	0	0	0	0	0	0	0	0	0	0	0	\$0.00
SALARY PER HOUR		\$76.12	\$80.71	\$47.71	\$39.86	\$47.91	\$35.84	\$30.77	\$36.48	\$31.00	\$26.00			
DIRECT SALARY COSTS:		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00
OVERHEAD COSTS:	157.300%													\$0.00
DIRECT LABOR COSTS:														\$0.00
FCCM:	0.180%													\$0.00
FIXED FEE (Direct Labor Costs):	13.0%													\$0.00
TOTAL DIRECT COSTS (Direct Labor Cost + FCCM + Fixed Fee):														\$0.00
DIRECT EXPENSES														
Mileage		Trips x	60	Mi./Trip x	\$0.580									\$0.00
Meals		Persons x		Days x	\$26.00									\$0.00
Lodging		Nights x	\$90.00	/ Night										\$0.00
Misc. Supplies														
Prints		Sets x	50	Sheets	\$0.51									\$0.00
Plots (includes R/W Mylars)	0	Mylars x	\$5.70	Each										\$0.00
Stream Permitting Services - Cardno Inc.														\$21,000.00
DIRECT EXPENSES:														\$0.00
TOTAL ESTIMATED COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses):														\$21,000.00

Section 2 -Topographic Survey

PROJECT NO.: 35687E

DES. NO.: N/A

DESCRIPTION: Happy Hollow Stream Crossing Improvements

DESCRIPTION	PERSON HOURS BY CLASSIFICATION											TOTAL HOURS / TASK	TOTAL DOLLARS / TASK	
	No. of Sheets	10 Office Man. Proj. Dir.	9 Dept. Man. Sr. PM	8 Sr. Man./Spv Engineer	7 Senior Engineer	6 Lead Engineer	5 Engineer II	4 Engineer I	3 Cadd Tech.	2 Proj Administrato	1 Admin Asst			
	Topographic Survey and Mapping - Tbird Design Services Corporation													
SUBTOTAL:		0	0	0	0	0	0	0	0	0	0	0	0	\$0.00
TOTAL - HOURS:		0	0	0	0	0	0	0	0	0	0	0	0	
SALARY PER HOUR		\$76.12	\$80.71	\$47.71	\$39.86	\$47.91	\$35.84	\$30.77	\$36.48	\$31.00	\$26.00			
DIRECT SALARY COSTS:		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00
OVERHEAD COSTS:	157.300%													\$0.00
DIRECT LABOR COSTS:														\$0.00
FCCM:	0.180%													\$0.00
FIXED FEE (Direct Labor Costs):	13.0%													\$0.00
TOTAL DIRECT COSTS (Direct Labor Cost + FCCM + Fixed Fee):														\$0.00
DIRECT EXPENSES														
Mileage		Trips x	300	Mi./Trip x	\$0.400									\$0.00
Meals		Persons x		Days x	\$26.00									\$0.00
Lodging		Nights x	\$90.00	/ Night										\$0.00
Misc. Supplies														
Prints		Sets x	50	Sheets	\$0.51									\$0.00
Plots (includes R/W Mylars)	0	Mylars x	\$5.70	Each										\$0.00
Topographic Survey - Subconsultant Tbird Design Services Corporation														\$12,995.00
TOTAL ESTIMATED COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses):														\$12,995.00

Section 3 - Hydraulic Design

PROJECT NO.: 35687E

DES. NO.: N/A

DESCRIPTION: Happy Hollow Stream Crossing Improvements

DESCRIPTION	PERSON HOURS BY CLASSIFICATION											TOTAL HOURS / TASK	TOTAL DOLLARS / TASK	
	No. of Sheets	10 Office Man. Proj. Dir.	9 Dept. Man. Sr. PM	8 Sr. Man./Spv Engineer	7 Senior Engineer	6 Lead Engineer	5 Engineer II	4 Engineer I	3 Cadd Tech.	2 Proj Administrato	1 Admin Asst			
Project Management														
Internal progress meetings			16										16	\$1,291.36
Coordination with Subs			14										14	\$1,129.94
Billing and Progress Reports			6								12		18	\$856.26
Reconnaissance														
Site visit			4	6				8					18	\$855.26
Review field survey information			2	2				6					10	\$441.46
Review Happy Hollow Road box culvert design report			1	2				2					5	\$237.67
Review Applicable local drainage ordinances			1	2				2					5	\$237.67
Hydrologic Analysis														
Review and verify hydrologic analysis for Happy Hollow Road culvert design			2	4				10					16	\$659.96
Design Temporary Upstream Scour Protection Measures														
Riprap at inlet to box culvert			2	8				12					22	\$912.34
Scour protection for roadway embankment			2	8				20					30	\$1,158.50
Prepare bid documents			4	16				20	30				70	\$2,796.00
Design Stream Channel Relocation														
Develop relocated channel design parameters			4	6				12					22	\$978.34
Develop hydraulic model of study reach of Happy Hollow Creek			2	6				16					24	\$940.00
Develop initial layout of channel relocation			2	6				12					20	\$816.92
Meet w/Owner to review and discuss			4	4									8	\$513.68
Prepare final channel relocation layout, alignment, and profile			4	12				24					40	\$1,633.84
Design scour/erosion control measures			2	8				16					26	\$1,035.42
Design mitigation measures			2	8				16					26	\$1,035.42
Meet w/Owner to review and discuss			4	4									8	\$513.68
Prepare bid documents			6	24				40	40				110	\$4,319.30
Design Downstream Clearing/Debris Protection for Sewer Line														
Determine d/s channel clearing criteria			4	8				12					24	\$1,073.76
Determine constructability issues and what to do with waste materials			2	6									8	\$447.68
Design grate structure to protect sewer line from debris			2	6				12					20	\$816.92
Meet w/Owner to review and discuss			4	4									8	\$513.68
Prepare bid documents			4	12				20	20				56	\$2,240.36

Section 3 - Hydraulic Design

PROJECT NO.: 35687E

DES. NO.: N/A

DESCRIPTION: Happy Hollow Stream Crossing Improvements

DESCRIPTION	PERSON HOURS BY CLASSIFICATION											TOTAL HOURS / TASK	TOTAL DOLLARS / TASK	
	10	9	8	7	6	5	4	3	2	1				
	No. of Sheets	Office Man. Proj. Dir.	Dept. Man. Sr. PM	Sr. Man./Spv Engineer	Senior Engineer	Lead Engineer	Engineer II	Engineer I	Cadd Tech.	Proj Administrator	Admin Asst			
Develop Permanent Sewer Line Solution														
Develop preliminary alternatives			2	4		8		16					30	\$1,227.86
Meet w/Owner to review and discuss			4			8		4					16	\$829.20
Refine alternatives and develop preliminary layout sketches			2	4		2		8					16	\$694.24
Develop preliminary estimates of costs for selected alternatives			4	6		4		12					26	\$1,169.98
Meet w/Owner to review and discuss			4			8		4					16	\$829.20
Determine recommended alternative			2	4		4							10	\$543.90
SUBTOTAL:	0	0	82	180	0	34	0	304	90	0	0	0	690	\$29,472.24
TOTAL - HOURS:		0	82	180	0	34	0	304	90	0	0	0	690	
SALARY PER HOUR		\$76.12	\$80.71	\$47.71	\$39.86	\$47.91	\$35.84	\$30.77	\$36.48	\$31.00	\$26.00			
DIRECT SALARY COSTS:		\$0.00	\$6,618.22	\$8,587.80	\$0.00	\$1,628.94	\$0.00	\$9,354.08	\$3,283.20	\$0.00	\$0.00			\$29,472.24
OVERHEAD COSTS:	157.300%													\$46,359.83
DIRECT LABOR COSTS:														\$75,832.08
FCCM:	0.160%													\$53.05
FIXED FEE (Direct Labor Costs):	13.0%													\$9,900.00
TOTAL DIRECT COSTS (Direct Labor Cost + FCCM + Fixed Fee):														\$85,785.13
DIRECT EXPENSES														
Mileage	6	Trips x	40	Mi./Trip x	\$0.575									\$138.00
Meals	2	Persons x	2	Days x	\$26.00									\$104.00
Lodging		Nights x	\$90.00	/ Night										\$0.00
Misc. Supplies														
Prints	3	Sets x	50	Sheets	\$0.51									\$76.50
Plots (includes R/W Mylars)	0	Mylars x	\$5.70	Each										\$0.00
DIRECT EXPENSES:														\$318.50
TOTAL ESTIMATED (Direct Labor Costs + FCCM + Fixed Fee + Expenses):														\$86,103.63

Section 4 - Roadway Design

PROJECT NO.: 35687E

DES. NO.: N/A

DESCRIPTION: Happy Hollow Stream Crossing Improvements

DESCRIPTION	PERSON HOURS BY CLASSIFICATION											TOTAL HOURS / TASK	TOTAL DOLLARS / TASK	
	10	9	8	7	6	5	4	3	2	1				
	No. of Sheets	Office Man. Proj. Dir.	Dept. Man. Sr. PM	Sr. Man./Spv Engineer	Senior Engineer	Lead Engineer	Engineer II	Engineer I	Cadd Tech.	Proj Administrator	Admin Asst			
Preliminary Engineering														
Site Visit													8	\$383.28
Determine Design Parameters													0	\$0.00
Coordination w/Pedestrian Crossing													4	\$191.64
50% Plans														
Level One Checklist and Computations													0	\$0.00
Title Sheet													4	\$123.08
General Notes/Index Sheet													4	\$123.08
Typical Cross Sections													4	\$143.36
Plat Sheets													0	\$0.00
Plan & Profile Sheets													0	\$0.00
Plan Construction Details													10	\$382.54
Approach Table													6	\$239.18
Miscellaneous Tables													0	\$0.00
Cross Sections													0	\$0.00
Quantities													5	\$170.99
Estimate of Probable Cost													4	\$143.36
Special Provisions													0	\$0.00
Utility Coordination													0	\$0.00
QA/QC													4	\$191.64
Tracings														
Finalize Calculations													0	\$0.00
Finalize Plans													8	\$286.72
Finalize Quantities													4	\$191.64
Finalize Estimate of Probable Cost													4	\$143.36
Finalize Special Provisions													0	\$0.00
QA/QC													4	\$191.64
Bidding/Construction Admin														
Prepare Contract Book													8	\$383.28
Pre-Bid Meeting													4	\$191.64
Review of RFI's													0	\$0.00
Issue Addenda													4	\$335.00
Bid Opening													4	\$191.64
Review Bids													1	\$119.59
Respond to Contractor Questions													8	\$383.28
SUBTOTAL:													0	
TOTAL - HOURS:													108	\$4,509.94
SALARY PER HOUR:													0	
DIRECT SALARY COSTS:													\$0.00	\$4,509.94
OVERHEAD COSTS:													157.300%	\$7,094.14
DIRECT LABOR COSTS:														\$11,604.08
FCCM:													0.180%	\$8.12
FIXED FEE (Direct Labor Costs):													13.0%	\$1,600.00

Section 4 - Roadway Design

PROJECT NO.: 35687E

DES. NO.: N/A

DESCRIPTION: Happy Hollow Stream Crossing Improvements

DESCRIPTION	PERSON HOURS BY CLASSIFICATION										TOTAL HOURS / TASK	TOTAL DOLLARS / TASK	
		10	9	8	7	6	5	4	3	2			1
	No. of Sheets	Office Man. Proj. Dir.	Dept. Man. Sr. PM	Sr. Man./Spv Engineer	Senior Engineer	Lead Engineer	Engineer II	Engineer I	Cadd Tech.	Proj Administrator			Admin Asst
TOTAL DIRECT COSTS (Direct Labor Cost + FCCM + Fixed Fee):												\$13,212.20	

DIRECT EXPENSES						
Mileage	2	Trips x	140	Mi./Trip x	\$0.575	\$161.00
Meals	2	Persons x	2	Days x	\$26.00	\$104.00
Lodging		Nights x	\$90.00	/ Night		\$0.00
<i>Misc. Supplies</i>						
Prints	5	Sets x	50	Sheets	\$0.51	\$127.50
Plots (includes R/W Mylars)	0	Mylars x	\$5.70	Each		\$0.00
SR 39 Roadway - Subconsultant IEI						
DIRECT EXPENSES:						\$392.50

TOTAL ESTIMATED COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$13,604.70**