

Westfield Blvd Connector Fee Summary

PROJECT NO.: 185393 DES. NO.: 1401650
 DESCRIPTION: Westfield Blvd Connector *Westfield*

		South Half - NEPA Level (EA)	North Half - NEPA + 100% Design	Fee Type	% CN	% PE (S)	% PE (N)
Section 1:	Meetings, Management, and Design Build Procurement	\$22,577	\$44,126	Lump Sum	0.9%	12%	9%
South of 169th (3)	Traffic Analysis	\$1,710	\$11,974	Lump Sum	0.2%	1%	2%
Section 3:	Environmental Document	\$35,750	\$74,217	Lump Sum	1.5%	18%	15%
Section 4:	Topographic Survey Data Collection	\$44,464	\$34,781	Lump Sum	0.7%	23%	7%
Section 5:	Drainage/Hydr/Storm Water Management/Permits	\$33,114	\$47,624	Lump Sum	1.0%	17%	10%
Section 6:	Road Design/E&S	\$39,100	\$108,156	Lump Sum	2.2%	20%	22%
Section 7:	Bridge Design	\$0	\$107,368	Lump Sum	2.1%	0%	22%
Section 8:	Signal, Signs & Lighting	\$0	\$13,516	Lump Sum	0.3%	0%	3%
Section 9:	Geotechnical Engineering	\$8,028	\$17,755	Lump Sum	0.4%	4%	4%
Section 10:	Utility Coordination	\$8,976	\$28,670	Lump Sum	0.6%	5%	6%
PE Total		\$193,738	\$488,188	9.76%	\$5,000,000		
Section 11:	Post Bid Services		\$18,271	Hourly	0.4%		4%
Section 12:	Right of Way Plan Development	\$0	\$15,000	Unit Price	0.3%		3%
Section 13:	Real Estate Services - Sub	\$0	\$26,405	Unit Price	0.5%		5%
ROW Total		\$0	\$41,405				
	Noise Study	Noise Total	\$9,600				
	SUE - Sub	SUE Total	\$8,046	Unit Price	0.2%		2%
	Geotechnical Borings - Sub	GEO Field Total	\$14,605	Unit Price	0.3%		3%
NTE		\$208,342	\$579,509				

- Assumptions:**
- Assume 100% Design will last 24 months, 104 weeks
 - Assume 30% Design/Enviro clearance will last 12 months, 52 weeks
 - Assuming full environmental clearance documents needed for the corridor.
 - Assuming one route survey for both sections.
 - Assuming one mobilization for geotech borings for both sections.
 - Assuming only the north half (100% design) will have a full geotech report. For the south half only final logs and lab data will be recorded with no recommendations, not for INDOT OGE review.
 - Assuming three (3) road plan submittals for the north half (100% design). No road submittal for the south half (NEPA level).
 - Assume one mobilization for SUE borings for both sections
 - Does not include the design of relocated utilities

Section 1 - Meetings, Management & DBB Procurement

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

DESCRIPTION	PERSON HOURS BY CLASSIFICATION											TOTAL HOURS / TASK	TOTAL DOLLARS / TASK	
	No. of hours	10 Office Man. Proj. Dir.	9 Dept. Man. Sr. PM	8 Sr. Man./Spvr Engineer	7 Senior Engineer	6 Lead Engineer	5 Engineer II	4 Engineer I	3 Cadd Tech.	2 Proj Administrator	1 Admin Asst			
Section 1 - Meetings, Management & DBB Procurement														
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring														
Monthly Coordination Meetings, 2 people, 1 hr each					10.0	10.0							20	\$2,491.15
Agency Mtgs-Assume 6, 2 people, 2 hr					10.0	10.0							20	\$2,491.15
Design Meetings-Assume Bi-weekly, 0.5 hr					10.0	10.0		10					30	\$3,350.16
Stakeholder Meetings-Assume 3, 2 people, 2 hours					5	5							10	\$1,245.57
CADD Coordination						3				3			6	\$740.00
PROJECTSOLVE														\$0.00
ProjectSolve setup													0	\$0.00
ProjectSolve Training													0	\$0.00
Respond to 3rd party request					3	3	3	3					12	\$1,306.30
													0	\$0.00
														\$0.00
PROJECT MANAGEMENT														
Project Manager				40									40	\$6,126.07
Deputy Project Manager					20								20	\$2,201.96
Project Administrator										10			10	\$914.78
Document Control Manager						10							10	\$1,390.17
														\$0.00
Procurement														
Prepare Bid Docs for Advertisement													0	\$0.00
Attend PreBid Mtgs													0	\$0.00
Attend Bid Opening													0	\$0.00
Analyze Bids and prepare recommendation													0	\$0.00
Attend PreCon Mtg													0	\$0.00
Supply data for Quarterly Report													0	\$0.00
														\$0.00
SUBTOTAL:													178	\$22,257.31
TOTAL - HOURS:		0	0	40	58	51	3	13	3	10	0		178	
SALARY PER HOUR		\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40			
SALARY COSTS:		\$0.00	\$0.00	\$6,126.07	\$6,385.69	\$7,089.86	\$301.26	\$1,116.71	\$322.95	\$914.78	\$0.00			\$22,257.31
TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee):														\$22,257.31
DIRECT EXPENSES														
Mileage	20	Trips x	40	Mi./Trip x	\$0.400									\$320.00
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
DIRECT EXPENSES:														\$320.00
TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses):														\$22,577.31

Section 1 - Meetings, Management & DBB Procurement

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

DESCRIPTION	PERSON HOURS BY CLASSIFICATION											TOTAL HOURS / TASK	TOTAL DOLLARS / TASK	
	No. of hours	10 Office Man. Proj. Dir.	9 Dept. Man. Sr. PM	8 Sr. Man./Spvr Engineer	7 Senior Engineer	6 Lead Engineer	5 Engineer II	4 Engineer I	3 Cadd Tech.	2 Proj Administrator	1 Admin Asst			
Section 1 - Meetings, Management & DBB Procurement														
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring														
Monthly Coordination Meetings, 2 people, 1 hr each					18		18						36	\$3,789.31
Agency Mtgs-Assume 6, 2 people, 2 hr					10		10						20	\$2,105.17
Design Meetings-Assume Bi-weekly, 0.5 hr				18	18		18						54	\$6,030.28
Stakeholder Meetings-Assume 4, 2 people, 2 hr				7			7						14	\$1,473.62
Developer Meetings-Assume 3, 2 people, 2 hr				5			5						10	\$1,052.59
Regional Detention Meetings-Assume 3, 2 people, 2 hr				5			5						10	\$1,052.59
CADD Coordination						6			6				12	\$1,479.99
PROJECTSOLVE														\$0.00
ProjectSolve setup							1						1	\$100.42
ProjectSolve Training							1						1	\$100.42
Respond to 3rd party request				2	2		2	2					8	\$870.87
													0	\$0.00
														\$0.00
PROJECT MANAGEMENT														
Project Manager				80									80	\$12,252.14
Deputy Project Manager				40									40	\$4,403.92
Project Administrator										20			20	\$1,829.56
Document Control Manager						20							20	\$2,780.34
														\$0.00
Procurement														
Prepare Bid Docs for Advertisement				2	2	3.5	7						15	\$1,715.99
Attend PreBid Mtgs - Assume 1, 2 people, 2 hr					2	2							4	\$498.23
Attend Bid Opening				2									2	\$220.20
Analyze Bids and prepare recommendation						4							4	\$556.07
Attend PreCon Mtg- Assume 1, 2 people, 2 hr				2	2								4	\$498.23
Supply data for Quarterly Report				4	4								8	\$996.46

SUBTOTAL:														
TOTAL - HOURS:		0	0	82	117	62	56	20	6	20	0		363	\$43,806.39
SALARY PER HOUR		\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40		363	
SALARY COSTS:		\$0.00	\$0.00	\$12,558.44	\$12,881.48	\$8,549.54	\$5,623.47	\$1,718.01	\$645.89	\$1,829.56	\$0.00			\$43,806.39

TOTAL DIRECT COSTS (Direct Labor Cost + FCCM + Fixed Fee): **\$43,806.39**

DIRECT EXPENSES														
Mileage	20	Trips x	40	Mi./Trip x	\$0.400									\$320.00
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
DIRECT EXPENSES:													\$320.00	

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$44,126.39**

Section 2 - Traffic Analysis

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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 Ass		
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring												0	\$0.00
Capacity Analysis, Intersection 1												0	\$0.00
Union & proposed boulevard (proposed, AM & PM), Alt 1 - design year								2				2	\$200.84
Union & proposed boulevard (proposed, AM & PM), Alt 2 - design year								2				2	\$200.84
QA/QC				2								2	\$306.30
Capacity Analysis, Intersection 2												0	\$0.00
Poplar & 169th (existing, AM & PM)								2				2	\$200.84
Poplar & 169th (proposed AM & PM), Alt 1 - design year								2				2	\$200.84
Poplar & 169th (proposed AM & PM), Alt 2 - design year								2				2	\$200.84
QA/QC				2								2	\$306.30
												0	\$0.00
												0	\$0.00
SUBTOTAL:	0	0	0	4	0	0	10	0	0	0	0	14	\$1,616.80
TOTAL - HOURS:		0	0	4	0	0	10	0	0	0	0	14	
SALARY PER HOUR		\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40		
SALARY COSTS:		\$0.00	\$0.00	\$612.61	\$0.00	\$0.00	\$1,004.19	\$0.00	\$0.00	\$0.00	\$0.00		\$1,616.80

TOTAL DIRECT COSTS (Direct Labor Cost + O + FCCM + Fixed Fee): **\$1,616.80**

DIRECT EXPENSES												
Mileage	4	Trips x	40	Mi./Trip x	\$0.580							\$92.80
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
DIRECT EXPENSES:												\$92.80

TOTAL LUMP SUM COSTS (Direct Labor Cost + FCCM + Fixed Fee +Expenses): **\$1,709.60**

Section 2 - Traffic Analysis

PROJECT NO.: 185393

DES. NO.: 1401650

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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 Ass			
Traffic Forecast														
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 C				2.0		6.0	6.0	6.0					20	\$2,258.32
develop network of existing volumes (AM & PM)				2.0			6.0						8	\$908.82
trip generation based on projected development				2.0			6.0	6.0					14	\$1,424.22
distribution of new trips				2.0			4.0						6	\$707.98
coordinate with Westfield on growth rate				2.0			2.0						4	\$507.14
develop network of future volumes (AM & PM) - one design year				2.0			4.0						6	\$707.98
													0	\$0.00
Capacity Analysis, North Half														
Poplar & Park (existing, AM & PM)								2.0					2	\$200.84
Poplar & Park (proposed AM & PM), Alt 1 - design year								2.0					2	\$200.84
Poplar & Park (proposed AM & PM), Alt 2 - design year								2.0					2	\$200.84
Poplar & Jersey (existing, AM & PM)								2.0					2	\$200.84
Poplar & Jersey (proposed AM & PM), Alt 1 - design year								2.0					2	\$200.84
Poplar & Jersey (proposed AM & PM), Alt 2 - design year								2.0					2	\$200.84
Poplar & SR 32 (existing, AM & PM)								2.0					2	\$200.84
Poplar & SR 32 (proposed AM & PM), Alt 1 - design year								2.0					2	\$200.84
Poplar & SR 32 (proposed AM & PM), Alt 2 - design year								2.0					2	\$200.84
QA/QC				6.0		2.0							8	\$1,196.94
													0	\$0.00
Summary Memo														
Final Report								14.0					14	\$1,405.87
Prepare Appendices									4.0				4	\$343.60
QA/QC				4.0									4	\$612.61
													0	\$0.00
													0	\$0.00
SUBTOTAL:	0	0	0	22	0	8	60	16	0	0	0	0	106	\$11,881.03
TOTAL - HOURS:	0	0	0	22	0	8	60	16	0	0	0	0	106	
SALARY PER HOUR		\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40			
SALARY COSTS:		\$0.00	\$0.00	\$3,369.34	\$0.00	\$1,112.14	\$6,025.15	\$1,374.41	\$0.00	\$0.00	\$0.00			\$11,881.03
TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee):													\$11,881.03	
DIRECT EXPENSES														
Mileage	4	Trips x	40	Mi./Trip x	\$0.580									\$92.80
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
DIRECT EXPENSES:													\$92.80	

Section 2 - Traffic Analysis

PROJECT NO.: 185393

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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 Ass		
TOTAL LUMP SUM COSTS (Direct Labor Cost + FCCM + Fixed Fee +Expenses):													\$11,973.83

Section 3- Environmental Document Preparation

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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.			
SEE NORTH Half														
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring													0	\$0.00
													0	\$0.00
													0	\$0.00
													0	\$0.00
													0	\$0.00
TOTAL - HOURS:		0	0	0	0	0	0	0	0	0	0	0	0	\$0.00
SALARY PER HOUR		\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40			
SALARY COSTS:		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00

TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee): **\$0.00**

DIRECT EXPENSES					
Mileage		Trips x	200	Mi./Trip x \$0.580	\$0.00
Meals		Persons x	2	Days x \$26.00	\$0.00
Lodging		Nights x	\$90.00	/ Night	\$0.00
Misc. Supplies					
Prints		Sets x	100	Sheets \$0.51	\$0.00
Plots (includes R/W Mylars)	0	Mylars x	\$5.70	Each	\$0.00

DIRECT EXPENSES: **\$0.00**

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$0.00**

Section 3- Environmental Document Preparation

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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				
Subconsultant: Noise, Wetland/Streams, Waterway Permits, Air Quality Analysis Noise, Archaeological/Historic Investigations & ESA Screening														
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring			36	12									48	\$8,682.37
2.0 Public Outreach													0	\$0.00
2.1 Property Owner Outreach				12									12	\$1,837.82
3.0 Environmental Document													0	\$0.00
Red Flag, Site Visit, Early Coordination			6			6		8		2		14	36	\$3,802.65
Section 106 Coordination			6			4							10	\$1,696.83
Wetlands Determination/Delineation, Waters of the U.S. Determination			8			4		70		6		15	103	\$9,665.02
Phase 1 ESA						4		36		16		8	64	\$5,659.35
Air Quality						4		6		30			40	\$3,815.81
Noise Study													0	\$0.00
Historic Resources and Archaeological Services													0	\$0.00
Write and Edit CE Document (Draft and Final)			10			20		4				60	94	\$9,129.32
Permits (as needed - 404 Nationwide Permit, 404/401 Regional General Permit, 401 Permit (with less than 0.1 acre of wetland impacts), and/or Construction in a Floodway)			12			20		4				80	116	\$10,877.61
													0	\$0.00
													0	\$0.00
														\$55,166.78
TOTAL - HOURS:		0	78	24	0	62	0	128	0	54	177		523	
SALARY PER HOUR		\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40			
SALARY COSTS:		\$0.00	\$14,829.87	\$3,675.64	\$0.00	\$8,619.05	\$0.00	\$10,995.29	\$0.00	\$4,939.81	\$12,107.13			\$55,166.78
TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee):														\$55,166.78
DIRECT EXPENSES														
Supplier Expenses														\$1,050.00
Archaeological Investigations & Historical/Architectural Investigations														\$18,000.00
DIRECT EXPENSES:														\$19,050.00
TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses):														\$74,216.78

Section 4 - Topographic Survey

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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.			
Topographic Survey - Subconsultant Parsons Cunningham & Shartle - See Sub fee														
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring													0	\$0.00
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		\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40			
SALARY COSTS:		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee): **\$0.00**

DIRECT EXPENSES		
Topographic Survey South Half - Subconsultant PCS		\$33,676.00
Topographic Survey North Half - Subconsultant PCS		\$23,973.00
LCRS Whole Corridor - Subconsultant PCS		\$21,615.00

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee + Expenses): **\$79,264.00**

Section 5 - Hydraulic Design

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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			
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring													0	\$0.00
Section 2: Yang Property													0	\$0.00
Site Reconnaissance													0	\$0.00
Review Site Survey													0	\$0.00
Review FIS Cool Creek Floodplain Info													0	\$0.00
Review Applicable Local Drainage Ordinances													0	\$0.00
Hydrologic Analysis (Existing Conditions)													0	\$0.00
Delineate watershed areas					1.8			7.2					9	\$921.19
Calculate Runoff Coefficients/Runoff CNS					1.8			3.6					5	\$559.69
Determine Times of Concentration					1.8			1.8					4	\$378.93
Prepare hydrologic models					3.6			9.0					13	\$1,300.13
Run and calibrate hydrologic model			1.8		1.8			5.4					9	\$1,082.67
													0	\$0.00
Hydrologic Analysis (Proposed Conditions)													0	\$0.00
Delineate watershed areas					1.8			5.4					7	\$740.44
Calculate Runoff Coefficients/Runoff CNS					1.8			5.4					7	\$740.44
Determine Times of Concentration					1.8			3.6					5	\$559.69
Prepare hydrologic model					1.8			5.4					7	\$740.44
Run and calibrate hydrologic model			1.8		1.8			5.4					9	\$1,082.67
													0	\$0.00
Design Drainage Structures													0	\$0.00
Layout stormwater management			1.8		5.4			10.8					18	\$2,021.28
Initial sizing of storm drain system			1.8		5.4			10.8					18	\$2,021.28
Initial sizing of culverts/ditches			1.8		5.4			10.8					18	\$2,021.28
													0	\$0.00
Design Detention Facilities													0	\$0.00
Determine allowable release rate(s)					0.9			1.8					3	\$279.84
Calculate necessary storage volume					0.9			1.8					3	\$279.84
Initial layout of detention facilities (2)					3.6			1.8					5	\$577.11
Initial layout of detention facilities (2)					1.8			3.6					5	\$559.69
Size outlet(s)					1.8			3.6					5	\$559.69
Emergency overflow					3.6			3.6					7	\$757.86
Develop reservoir routing model					1.8			3.6					5	\$559.69
Verify allowable release rates													0	\$0.00
													0	\$0.00
Evaluate Preliminary Design													0	\$0.00
Define impacts of hydraulic structures on the key project elements.					3.6			7.2					11	\$1,119.37
Provide iterations based on evaluation of proposed hydraulic changes					7.2			14.4					22	\$2,238.74
													0	\$0.00
Report Preparation													0	\$0.00

Section 5 - Hydraulic Design

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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				
Prepare Stormwater Pollution Prevention Plan (SWPP)													0	\$0.00
Prepare Hydraulic Analysis Report													0	\$0.00
Meetings													0	\$0.00
Progress meetings (bi-weekly, 30 min, 2 people)													0	\$0.00
Hamilton County Drainage Board, Assume 1 Meeting, 2 People, 2 hours													0	\$0.00
Section 3: Yang to 169th													0	\$0.00
Site Reconnaissance													0	\$0.00
Review Site Survey													0	\$0.00
Review Applicable Local Drainage Ordinances													0	\$0.00
Hydrologic Analysis (Existing Conditions)														\$0.00
Delineate watershed areas					1.8				3.6				5	\$559.69
Calculate Runoff Coefficients/Runoff CNs													0	\$0.00
Determine Times of Concentration													0	\$0.00
Prepare hydrologic model					1.8				3.6				5	\$559.69
Run and calibrate hydrologic model			1.8		1.8				3.6				7	\$901.91
Hydrologic Analysis (Proposed Conditions)														\$0.00
Delineate watershed areas					1.8				3.6				5	\$559.69
Calculate Runoff Coefficients/Runoff CNs													0	\$0.00
Determine Times of Concentration													0	\$0.00
Prepare hydrologic model					1.8				3.6				5	\$559.69
Run and calibrate hydrologic model			1.8		1.8				3.6				7	\$901.91
Design Drainage Structures														\$0.00
Layout stormwater management					1.8				5.4				7	\$740.44
Initial sizing of storm drain system					3.6				7.2				11	\$1,119.37
Initial sizing of culverts/ditches					1.8				5.4				7	\$740.44
Design Detention Facilities														\$0.00
Determine allowable release rate(s)													0	\$0.00
Calculate necessary storage volume													0	\$0.00
Initial layout of detention facility													0	\$0.00
Size outlet(s)													0	\$0.00
Emergency overflow													0	\$0.00
Develop reservoir routing model													0	\$0.00
Verify allowable release rates													0	\$0.00
Evaluate Preliminary Design														\$0.00

Section 5 - Hydraulic Design

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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		
Define impacts of hydraulic structures on the key project elements.					1.8		3.6					5	\$559.69
Provide iterations based on evaluation of proposed hydraulic changes					3.6		3.6					7	\$757.86
Report Preparation													\$0.00
Prepare Stormwater Pollution Prevention Plan (SWPP)												0	\$0.00
Prepare Hydraulic Analysis Report												0	\$0.00
Meetings													\$0.00
Progress meetings (bi-weekly, 30 min, 2 people)					10.8	10.8						22	\$2,690.44
Hamilton County Drainage Board, Assume 2 Meeting, 2 People, 2 hours					3.6	3.6						7	\$896.81
													\$0.00
SUBTOTAL:	0	0	13	0	99	14	173	0	0	0	0	299	\$32,649.57
TOTAL - HOURS:	0	0	13	0	99	14	173	0	0	0	0	299	
SALARY PER HOUR		\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40		
SALARY COSTS:		\$0.00	\$2,395.59	\$0.00	\$10,899.71	\$2,001.84	\$17,352.43	\$0.00	\$0.00	\$0.00	\$0.00		\$32,649.57

TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee): **\$32,649.57**

DIRECT EXPENSES												
Mileage	20	Trips x	40	Mi./Trip x	\$0.580							\$464.00
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
DIRECT EXPENSES:												\$464.00

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$33,113.57**

Section 5 - Hydraulic Design

PROJECT NO.: 185393
 DESCRIPTION: Westfield Blvd Connector

DES. NO.: 1401650

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				
10-15 ft borings for roundabout,														
Site Reconnaissance			1.8				1.8						4	\$522.98
Review Site Survey					1.8		1.8						4	\$378.93
Review FIS Anna Kendall Drain Floodplain Info					1.8								2	\$198.18
Review Applicable Local Drainage Ordinances			1.8		1.8								4	\$540.40
Hydrologic Analysis (Existing Conditions)														
Delineate watershed areas					1.8		3.6						5	\$559.69
Calculate Runoff Coefficients/Runoff CNS					1.8		3.6						5	\$559.69
Determine Times of Concentration					3.6		3.6						7	\$757.86
Prepare hydrologic models					3.6		3.6						7	\$757.86
Run and calibrate hydrologic model					3.6		3.6						7	\$757.86
Hydrologic Analysis (Proposed Conditions)														
Delineate watershed areas					1.8		3.6						5	\$559.69
Calculate Runoff Coefficients/Runoff CNS													0	\$0.00
Determine Times of Concentration					1.8		3.6						5	\$559.69
Prepare hydrologic model					3.6		3.6						7	\$757.86
Run and calibrate hydrologic model			1.8		3.6		3.6						9	\$1,100.09
Anna Kendall Drain Crossing														
Anna Kendall Drain - develop corrected			0.9		3.6		7.2						12	\$1,290.48
Determine initial crossing parameters			3.6		7.2		10.8						22	\$2,561.69
Develop proposed conditions flood model meet IDNR surcharge requirements			0.9		3.6		7.2						12	\$1,290.48
Determine required crossing parameters			1.8		7.2		10.8						20	\$2,219.46
Perform scour analysis			0.9		3.6		7.2						12	\$1,290.48
Floodway permit application			1.8		10.8		7.2						20	\$2,254.30
Submit and track IDNR permit application			0.9		5.4								6	\$765.64
Design Drainage Structures														
Layout stormwater management					3.6		7.2						11	\$1,119.37
Initial sizing of storm drain system													0	\$0.00
Initial sizing of culverts/ditches					3.6		7.2						11	\$1,119.37
Design Detention Facilities														
Determine allowable release rate(s)					3.6		3.6						7	\$757.86
Calculate necessary storage volume					9.0		7.2						16	\$1,713.90
Initial layout of regional detention facility					7.2		7.2						14	\$1,515.72
Size outlet(s)					5.4		7.2						13	\$1,317.55
Emergency overflow					5.4		7.2						13	\$1,317.55
Develop reservoir routing model					10.8		7.2						18	\$1,912.08

Section 5 - Hydraulic Design

PROJECT NO.: 185393
 DESCRIPTION: Westfield Blvd Connector

DES. NO.: 1401650

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 Administrator	1 Admin Asst		
	Verify allowable release rates					3.6		3.6					
Evaluate Preliminary Design													
the key project elements.					5.4		7.2					13	\$1,317.55
proposed hydraulic changes					7.2		7.2					14	\$1,515.72
Report Preparation													
Plan (SWPP)			0.9		5.4		3.6					10	\$1,127.15
Prepare Hydraulic Analysis Report			0.9		5.4		3.6					10	\$1,127.15
Meetings													
people)			23.4				23.4					47	\$6,798.77
Assume 2 Meeting, 2 People, 2 hours			1.8				3.6					5	\$703.74
IDNR			1.8				3.6					5	\$703.74
IDNR Public Meeting			1.8				3.6					5	\$703.74
SUBTOTAL:	0	0	49	0	155	0	211	0	0	0	0	414	\$47,431.60
TOTAL - HOURS:	0	0	49	0	155	0	211	0	0	0	0	414	
SALARY PER HOUR	\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40			
SALARY COSTS:	\$0.00	\$9,240.15	\$0.00	\$17,043.18	\$0.00	\$21,148.27	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$47,431.60

TOTAL DIRECT COSTS (Direct Labor Cost +OH + FCCM + Fixed Fee): **\$47,431.60**

DIRECT EXPENSES						
Mileage	4	Trips x	40	Mi./Trip x	\$0.580	\$92.80
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
IDNR Public Notice					\$100.00	\$100.00
Plots (includes R/W Mylars)	0	Mylars x	\$5.70	Each		\$0.00
DIRECT EXPENSES:						\$192.80

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$47,624.40**

Section 5 - Roadway Design

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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			
Roadway NEPA Level Plans														
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring				0.0	0.0	1.8	0.0	1.8	1.8				5	\$598.62
General Notes/Index Sheet				0.0	0.0	1.8	0.0	1.8	1.8				5	\$598.62
Plat No. 1 (Base Map and Partial)													0	\$0.00
Typical Cross Sections				3.6	3.6	3.6	7.2	5.4	7.2				31	\$3,410.11
Preliminary Maintenance of Traffic				0.0	3.6	0.0	3.6	0.0	0.0				7	\$757.86
Traffic Analysis													0	\$0.00
Typical Cross Sections													0	\$0.00
Phasing Schematics													0	\$0.00
Legend Sheet				0.0	0.0	0.0	0.0	0.0	0.0				0	\$0.00
Plan & Profile				3.6	7.2	21.6	21.6	21.6	25.2				101	\$11,084.08
Superelevation Diagram Sheets				0.0	0.0	3.6	7.2	7.2	7.2				25	\$2,617.04
Plan Construction Details													0	\$0.00
Intersection Details				0.0	3.6	7.2	7.2	10.8	10.8				40	\$4,210.63
Drainage Detail Sheets													0	\$0.00
Detention Details													0	\$0.00
Guardrail Summary Table													0	\$0.00
Wall Layout													0	\$0.00
Approach Table													0	\$0.00
Miscellaneous Tables													0	\$0.00
Structure Data Table													0	\$0.00
Cross Sections				7.2	7.2	10.8	10.8	0.0	10.8				47	\$5,643.92
Level 1 / Prepare Design Exceptions				3.6	3.6	7.2	7.2	0.0	3.6				25	\$3,059.17
Opinion of Probable Cost				3.6	7.2	7.2	7.2	0.0	7.2				32	\$3,843.06
QA/QC				3.6	3.6	7.2	7.2	0.0	3.6				25	\$3,059.17
SUBTOTAL:	0	0	0	25.2	39.6	72	79.2	48.6	79	0	0	0	344	\$38,882.28
TOTAL - HOURS:	0	0	0	25	40	72	79	49	79	0	0	0	344	
SALARY PER HOUR	\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40				
SALARY COSTS:	\$0.00	\$0.00	\$3,859.42	\$4,359.88	\$10,009.22	\$7,953.20	\$4,174.77	\$8,525.79	\$0.00	\$0.00				\$38,882.28

TOTAL DIRECT COSTS (Direct Labor Cost + Oh FCCM + Fixed Fee): **\$38,882.28**

DIRECT EXPENSES						
Mileage	5	Trips x	40	Mi/Trip x	\$0.580	\$116.00
Meals		Persons x		Days x	\$26.00	\$0.00
Lodging		Nights x	\$90.00	/ Night		\$0.00
Misc. Supplies						
Prints	1	Sets x	200	Sheets	\$0.51	\$102.00
Plots (includes R/W Mylars)	0	Mylars x	\$5.70	Each		\$0.00
DIRECT EXPENSES:						\$218.00

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$39,100.28**

Section 5 - Roadway Design

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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				
Roadway Stage 1 Plans - North Half														
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring						1.8		1.8	1.8				5	\$598.62
General Notes/Index Sheet						1.8		1.8	1.8				5	\$598.62
Plat No. 1 (Base Map and Partial)													0	\$0.00
Typical Cross Sections				1.8	1.8	3.6	5.4	5.4	7.2				25	\$2,755.51
Preliminary Maintenance of Traffic													0	\$0.00
Traffic Analysis													0	\$0.00
Typical Cross Sections													0	\$0.00
Phasing Schematics													0	\$0.00
Legend Sheet													0	\$0.00
Plan & Profile				3.6	7.2	14.4	14.4	14.4	14.4				68	\$7,579.04
Superelevation Diagram Sheets						3.6	7.2	7.2	7.2				25	\$2,617.04
Plan Construction Details													0	\$0.00
Intersection Details						3.6	7.2	10.8	10.8				32	\$3,313.81
Drainage Detail Sheets													0	\$0.00
Detention Details													0	\$0.00
Guardrail Summary Table													0	\$0.00
Wall Layout													0	\$0.00
Approach Table													0	\$0.00
Miscellaneous Tables													0	\$0.00
Structure Data Table													0	\$0.00
Cross Sections				1.8	5.4	7.2	7.2		7.2				29	\$3,369.21
Level 1 / Prepare Design Exceptions				1.8	1.8	3.6	3.6		3.6				14	\$1,723.36
Opinion of Probable Cost				1.8	1.8	3.6	7.2		7.2				22	\$2,472.40
Preliminary Specifications				1.8	3.6	3.6	3.6		3.6				16	\$1,921.53
QA/QC				1.8	1.8	3.6	3.6		3.6				14	\$1,723.36
Roadway PFC Plans - North Half														
Title Sheet								1.8					2	\$154.62
General Notes/Index Sheet								1.8					2	\$154.62
Plat No. 1 (Base Map and Partial)								1.8	1.8				4	\$348.39
Typical Cross Sections							3.6	3.6					7	\$670.75
Preliminary Maintenance of Traffic					10.8	10.8		10.8					32	\$3,618.17
Plan & Profile				3.6	10.8	10.8	10.8	10.8	10.8				47	\$5,072.60
Superelevation Diagram Sheets						3.6	3.6	3.6	3.6				14	\$1,558.75
Plan Construction Details													0	\$0.00
Intersection Details					0.0	3.6	7.2	7.2	7.2				25	\$2,617.04
Drainage Detail Sheets					1.8	5.4	7.2	5.4	7.2				27	\$2,910.82
Detention Details					1.8	1.8	7.2	7.2	3.6				22	\$2,177.45
Cross Sections				1.8	5.4	7.2	7.2	0.0	7.2				29	\$3,369.21
Roadway Stage 3 + Final Plans - North Half														
Title Sheet								1.8					2	\$154.62
General Notes/Index Sheet								1.8					2	\$154.62
Plat No. 1 (Base Map and Partial)								1.8	1.8				4	\$348.39
Typical Cross Sections							3.6	3.6					7	\$670.75

Section 5 - Roadway Design

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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				
Preliminary Maintenance of Traffic													0	\$0.00
Traffic Analysis					1.8	1.8		3.6					7	\$757.65
Typical Cross Sections					1.8	3.6		7.2					13	\$1,317.12
Phasing Schematics				1.8	1.8	1.8		3.6	3.6				13	\$1,420.86
Legend Sheet								1.8	1.8				4	\$348.39
Plan & Profile					3.6	10.8	10.8	10.8	10.8				47	\$5,072.60
Superelevation Diagram Sheets						3.6	3.6		3.6				14	\$1,558.75
Plan Construction Details													0	\$0.00
Intersection Details						3.6	7.2	7.2	7.2				25	\$2,617.04
Drainage Detail Sheets					1.8	5.4	7.2	5.4	7.2				27	\$2,910.82
Detention Details					1.8	1.8	7.2	7.2	3.6				22	\$2,177.45
Guardrail Summary Table						1.8	3.6		1.8				7	\$805.51
Wall Layout					1.8	1.8	1.8		1.8				7	\$822.93
Erosion Control Plan					7.2	7.2	7.2		0.0				22	\$2,516.65
Approach Table					1.8	3.6	3.6		1.8				11	\$1,253.91
Erosion Control Tables					1.8	3.6	3.6	1.8	0.0				11	\$1,214.77
Miscellaneous Tables					1.8	3.6	3.6		1.8				11	\$1,253.91
Structure Data Table					1.8	3.6	3.6	3.6	3.6				13	\$1,447.68
Cross Sections				1.8	5.4	7.2	7.2		7.2				29	\$3,369.21
Level 1 / Finalize Design Exceptions				0.0	0.0	3.6	3.6		0.0				7	\$861.97
Opinion of Probable Cost				1.8	1.8	3.6	7.2		0.0				14	\$1,697.33
Final Specifications				1.8	3.6	3.6	3.6		3.6				16	\$1,921.53
QA/QC				1.8	1.8	3.6	3.6		3.6				14	\$1,723.36
Final Tracing			0.0	10.8	10.8	14.4	14.4		14.4				65	\$7,841.12
Pavement Design														
Develop Pavement Designs					4	28	8						40	\$5,136.22
Pavement Design Reports					4	28	8						40	\$5,136.22
SUBTOTAL:	0	0	0	36	107	243.2	228.4	156.6	189	0	0	960	\$107,836.28	
TOTAL - HOURS:	0	0	0	36	107	243	228	157	189	0	0	960		
SALARY PER HOUR	\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40				
SALARY COSTS:	\$0.00	\$0.00	\$5,513.46	\$11,780.50	\$33,808.91	\$22,935.73	\$13,452.05	\$20,345.63	\$0.00	\$0.00			\$107,836.28	

TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee): **\$107,836.28**

DIRECT EXPENSES					
Mileage	5	Trips x	40	Mi./Trip x \$0.580	\$116.00
Meals		Persons x		Days x \$26.00	\$0.00
Lodging		Nights x	\$90.00	/ Night	\$0.00
Misc. Supplies					
Prints	2	Sets x	200	Sheets \$0.51	\$204.00
Plots (includes R/W Mylars)	0	Mylars x	\$5.70	Each	\$0.00
DIRECT EXPENSES:					\$320.00

Section 5 - Roadway Design

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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 LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses):												\$108,156.28	

Section 6 - Bridge Design

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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				
Stage 1 Submittal Westfield Blvd over Anna Kendall Ditch														
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) p			7.0	21.1	17.6	26.4							72	\$10,180.83
Title / Index Sheet	1		0.0		1.8	1.8			3.5				7	\$817.37
General Plan / Layout Sheets	2		0.0		17.6	0.0			14.1				32	\$3,453.42
Summary Tables	1		3.5		7.0	7.0			14.1				32	\$3,938.71
Management / Coordination			7.0		0.0	0.0							7	\$1,338.49
30% Design; Quantities, Opinion of Probable Cost			3.5		7.0	21.1	21.1						53	\$6,501.22
QA/QC			10.6		10.6	0.0							21	\$3,170.37
Final Plans Westfield Blvd over Anna Kendall Ditch														
Resolution of Stage 1 Plans Comments			3.5	12	14.1	7.0	3.5	3.5						\$5,691.77
Bridge Design Superstructure	4		3.5		17.6	17.6	3.5	3.5	10.6					\$6,846.29
Bridge Design End Bents	4		1.8		10.6	14.1	7.0	7.0						\$4,766.31
Screeds And Elevations	2		1.8		14.1	14.1	21.1							\$5,963.01
Update Title / Index Sheets	1				1.8	0.0	1.8		1.8					\$559.97
Update Layout / General Plans	1				7.0	7.0	7.0	3.5						\$2,763.09
End Bent Details	4		3.5		0.0	7.0	10.6		21.1					\$4,981.89
Bearing Details	2		3.5		10.6	3.5	7.0		10.6					\$4,164.94
Superstructure Details	4		3.5		14.1	7.0	14.1	3.5	10.6					\$6,051.15
Approach Slab Details	2		1.8		7.0	10.6	10.6		14.1					\$5,153.85
Railing Details	1		1.8		7.0	10.6	10.6		14.1					\$5,153.85
Drainage Details	1				7.0	8.8	10.6		7.0					\$3,816.71
Summary Sheets			1.8		7.0	7.0	0.0	7.0	3.5				26	\$3,072.06
Final Quantities			3.5		10.6	0.0	21.1		7.0				42	\$4,710.58
Final Opinion of Probable Cost			3.5	8	0.0	10.6	0.0						22	\$3,362.48
Final Special Provisions			7.0		14.1	14.1	7.0	3.5					46	\$5,855.35
QA/QC			14.1		14.1	0.0	7.0						35	\$4,934.11
TOTAL - HOURS:	26	0	86	41	218	195	164	32	132	0	0	0	868	\$107,247.84
SALARY PER HOUR	\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40				
SALARY COSTS:	\$0.00	\$16,396.51	\$6,297.60	\$24,027.81	\$27,158.34	\$16,436.60	\$2,721.33	\$14,209.65	\$0.00	\$0.00				\$107,247.84

TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee): **\$107,247.84**

DIRECT EXPENSES						
Mileage	3	Trips x	40	Mi./Trip x	\$0.580	\$69.60
Meals		Persons x		Days x	\$26.00	\$0.00
Lodging		Nights x	\$90.00	/ Night		\$0.00
Misc. Supplies						
Prints	2	Sets x	50	Sheets	\$0.51	\$51.00
Plots (includes R/W Mylars)	0	Mylars x	\$5.70	Each		\$0.00
DIRECT EXPENSES:						\$120.60

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$107,368.44**

Section 8 - Signing & Lighting Design

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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				
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring												0	\$0.00	
30% Design						21	6						27	\$3,521.87
100% Design, Quantities, Specs						21	6						27	\$3,521.87
Lighting Design, North Half												0	\$0.00	
30% Design													0	\$0.00
100% Design, Quantities, Specs													0	\$0.00
Sign Design, North Half												0	\$0.00	
30% Design						14	6						20	\$2,548.75
100% Design, Quantities, Specs						16	16						32	\$3,830.98
													0	\$0.00
SUBTOTAL:	0	0	0	0	0	72	34	0	0	0	0	0	106	\$13,423.47
TOTAL - HOURS:	0	0	0	0	0	72	34	0	0	0	0	0	106	
SALARY PER HOUR		\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40			
SALARY COSTS:		\$0.00	\$0.00	\$0.00	\$0.00	\$10,009.22	\$3,414.25	\$0.00	\$0.00	\$0.00	\$0.00			\$13,423.47

TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee): **\$13,423.47**

DIRECT EXPENSES														
Mileage	4	Trips x	40	Mi./Trip x	\$0.580									\$92.80
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
DIRECT EXPENSES:													\$92.80	

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$13,516.27**

Section 7 - Geotechnical Engineering

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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 Ass		
	P13	P12	P10	P9	T9	P8	T8						
South of 169th (NEPA level)												0	\$0.00
Plan & manage Geotechnical Investigation for Section 1 (revised)			2.0		2.0							4	\$594.44
Subcontract management, scheduling and coordination with subconsultant.			2.0		7.9			7.9				18	\$1,928.76
Part-Time Field QA and Logging Lab Samples								13.2				13	\$1,133.89
gINT data entry, 13 logs					5.3							5	\$581.32
Laboratory test assignments, laboratory data review, and summary tables.					5.3							5	\$581.32
Conform logs to lab data, 13 logs					5.3							5	\$581.32
Preparation of plans identifying borings as-drilled locations, with final coordinate locations and station and offsets.								5.3				5	\$453.56
Geotechnical Report (Final Logs and Lab Data Only No Recommendations Not for INDOT OGE Review)			2.0		4.0			15.8				22	\$2,173.11
2nd Submittal Geotechnical Report (not for 30% design)												0	\$0.00
Geotechnical Review of Stage 3 Plans (not for 30% design)												0	\$0.00
Technical provisions - geotechnical (not for 30% design)												0	\$0.00
Cost estimate support (not for 30% design)												0	\$0.00
												78	\$8,027.71
TOTAL - HOURS:	0	6	0	30	0	0	42	0	0	0	0	78	
SALARY PER HOUR	\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40			
SALARY COSTS:	\$0.00	\$1,129.35	\$0.00	\$3,269.91	\$0.00	\$0.00	\$3,628.45	\$0.00	\$0.00	\$0.00	\$0.00		\$8,027.71

TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee): **\$8,027.71**

DIRECT EXPENSES						
Mileage	4	Trips x	40	Mi./Trip x	\$0.580	\$92.80
Meals		Persons x		Days x	\$26.00	\$0.00
Lodging		Nights x	\$90.00	/ Night		\$0.00
Misc. Supplies						
Field Supplies						\$25.00
Prints		Sets x	50	Sheets	\$0.51	\$0.00
Plots (includes R/W Mylars)	0	Mylars x	\$5.70	Each		\$0.00

South of 169th: Geotechnical Field Drilling & Laboratory Testing - Earth Exploration \$14,487.00

DIRECT EXPENSES: **\$14,604.80**

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$22,632.51**

Section 7 - Geotechnical Engineering

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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 Ass
		P13	P12	P10	P9	T9	P8	T8					
North of 169th Street 100% Design												0	\$0.00
Plan & manage Geotechnical Investigation for Section 4 (revised)			0.9		0.9							2	\$264.20
Subcontract management, scheduling and coordination with subconsultant.			0.9		3.5			3.5				8	\$857.23
Part-Time Field QA and Logging Lab Samples								7.0				7	\$604.74
gINT data entry, 7 logs (2 deep)					8.8							9	\$968.86
Laboratory test assignments, laboratory data review, and summary tables.					5.3							5	\$581.32
Conform logs to lab data, 7 logs (2 deep)					3.5							4	\$387.55
Preparation of plans identifying borings as-drilled locations, with final coordinate locations and station and offsets.					3.5							4	\$387.55
Subsurface Conditions at Bridge Structure (profile)			1.8		3.5			14.1				19	\$1,931.65
Geotechnical Report			7.0		35.2			10.6				53	\$6,121.05
2nd Submittal Geotechnical Report			3.5		5.3			10.6				19	\$2,157.67
Geotechnical Review of Stage 3 Bridge and Roadway Plans			1.8		3.5							5	\$722.17
Technical provisions - geotechnical			1.8		3.5							5	\$722.17
Cost estimate support			3.5		7.0			7.0				18	\$2,049.08
TOTAL - HOURS:		0	21	0	84	0	0	53	0	0	0	158	
SALARY PER HOUR		\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40		
SALARY COSTS:		\$0.00	\$4,015.47	\$0.00	\$9,204.20	\$0.00	\$0.00	\$4,535.56	\$0.00	\$0.00	\$0.00		\$17,755.23

TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee): **\$17,755.23**

DIRECT EXPENSES						
Mileage	4	Trips x	40	Mi./Trip x	\$0.580	\$92.80
Meals		Persons x		Days x	\$26.00	\$0.00
Lodging		Nights x	\$90.00	/ Night		\$0.00
Misc. Supplies						
Field Supplies						\$25.00
Prints		Sets x	50	Sheets	\$0.51	\$0.00
Plots (includes R/W Mylars)	0	Mylars x	\$5.70	Each		\$0.00

Section 4: Geotechnical Field Drilling & Laboratory Testing - SUB ESTIMATE \$13,998.00

DIRECT EXPENSES: **\$14,115.80**

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$31,871.03**

Section 10 - Utility Coordination

PROJECT NO.: 185393 Westfield Blvd Connector DES. NO.: 1401650

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				
Utility Coordination Work														
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring														\$0.00
Research and send initial notice to utilities				12.0									12	\$1,837.82
Field Visit				6.0									6	\$918.91
Initial Coordination Meeting				10.0									10	\$1,531.52
Review utility files received				10.0									10	\$1,531.52
Map existing locations and send verification to utilities				10.0									10	\$1,531.52
Perform Preliminary Conflict Analysis				10.0									10	\$1,531.52
TOTAL - HOURS:	0	0	58	0	0	0	0	0	0	0	0	0	58	
SALARY PER HOUR	\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40				
SALARY COSTS:	\$0.00	\$0.00	\$8,882.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$8,882.80
TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee):														\$8,882.80
DIRECT EXPENSES														
Mileage	4	Trips x	40	Mi./Trip x	\$0.580									\$92.80
DIRECT EXPENSES:														\$92.80
TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses):														\$8,975.60

Section 10 - Utility Coordination

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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 Administrator	1 Admin Asst			
	Utility Coordination Work													
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring				14.4									14	\$2,205.38
Field Visit				7.2									7	\$1,102.69
Initial Coordination Meeting				7.2									7	\$1,102.69
Review utility files received				21.6									22	\$3,308.08
Map existing locations and send verification to utilities				7.2									7	\$1,102.69
Perform Preliminary Conflict Analysis				36.0									36	\$5,513.46
Coordinate with designers on design alternatives				7.2									7	\$1,102.69
Assist Utilities with Relocation plans				28.8									29	\$4,410.77
Prepare permits				7.2									7	\$1,102.69
Prepare agreements				7.2									7	\$1,102.69
Prepare letting documents				7.2									7	\$1,102.69
Manage relocation activities in the field				36.0									36	\$5,513.46
													0	\$0.00
													0	\$0.00
TOTAL - HOURS:	0	0	187	0	0	0	0	0	0	0	0	0	187	
SALARY PER HOUR	\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40				
SALARY COSTS:	\$0.00	\$0.00	\$28,670.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$28,670.00

TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee): **\$28,670.00**

DIRECT EXPENSES														
Mileage	2	Trips x	40	Mi./Trip x	\$0.580									\$46.40

Subsurface Utility Engineer - Subconsultant \$8,000.00

DIRECT EXPENSES: **\$8,046.40**

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$36,716.40**

Section 11 - Construction Phase Services

PROJECT NO.: 185393

DES. NO.: 1401650

DESCRIPTION: Westfield Blvd Connector

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./Spvr Engineer	Senior Engineer	Lead Engineer	Engineer II	Engineer I	Cadd Tech.	Proj Administrator	Admin Asst			
CONSTRUCTION PHASE														
South of 169th (30% Design): (12) 10-15 ft borings for roundabout, (4) pavement cores, 1 Culvert boring				36	36	36	36						144	\$18,096.69
TOTAL - HOURS:	0	0	0	36	36	36	36	0	0	0	0	0	144	
SALARY PER HOUR		\$190.13	\$190.13	\$153.15	\$110.10	\$139.02	\$100.42	\$85.90	\$107.65	\$91.48	\$68.40			
SALARY COSTS:		\$0.00	\$0.00	\$5,513.46	\$3,963.53	\$5,004.61	\$3,615.09	\$0.00	\$0.00	\$0.00	\$0.00			\$18,096.69

TOTAL DIRECT COSTS (Direct Labor Cost + OH + FCCM + Fixed Fee): **\$18,096.69**

DIRECT EXPENSES														
Mileage	5	Trips x	60	Mi./Trip x	\$0.580									\$174.00
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
DIRECT EXPENSES:													\$174.00	

TOTAL LUMP SUM COSTS (Direct Labor Costs + FCCM + Fixed Fee +Expenses): **\$18,270.69**

Section X - Right of Way Acquisition Services

PROJECT NO.:

185393

Des no 1401650

DESCRIPTION:

Westfield Blvd Connector

South Half				North Half			
DESCRIPTION	Unit Cost/Parcel	# of Parcels	TOTAL DOLLARS	DESCRIPTION	Unit Cost/Parcel	# of Parcels	TOTAL DOLLARS
South of 169th (30% Design): (12) 10-15 ft borings for roundabout - Existing Property Line Layout - Parcel Plats - Legal Descriptions - Right of Way Plans - Area Computations - Transfer Documents	\$3,000		\$0.00	Right of Way Engineering - Existing Property Line Layout - Parcel Plats - Legal Descriptions - Right of Way Plans - Area Computations - Transfer Documents	\$3,000	5	\$15,000.00
Right of Way Acquisition Management	\$1,200		\$0.00	Right of Way Acquisition Management	\$1,200	5	\$6,000.00
Title Work - Residential - Ag/Commercial - Municipal	\$300 \$340 \$375		\$0.00 \$0.00 \$0.00	Title Work - Residential - Ag/Commercial - Municipal	\$300 \$340 \$375	0 4 1	\$0.00 \$1,360.00 \$375.00
Appraisal - Short Forms	\$2,025		\$0.00 \$0.00 \$0.00 \$0.00	Appraisal Problem Analysis Appraisal - Short Form (with damages) - Short Form - Short Forms - Long Form Commercial	\$200 \$2,850 \$2,025	3 2 1	\$600.00 \$5,700.00 \$2,025.00 \$0.00 \$0.00
Appraisal Review - Short Forms - Appraisal Problem Analysis	\$910 \$200		\$0.00 \$0.00 \$0.00 \$0.00	Appraisal Review - Short Form (with damages) - Short Form	\$1,280 \$910	2 1	\$2,560.00 \$910.00
Negotiation	\$1,375		\$0.00	Buying	\$1,375	5	\$6,875.00
TOTAL:			\$0.00	TOTAL:			\$41,405.00
<p>Note: Appraisal and Appraisal Review fees are estimated from the information available at this time. Actual fees will be billed.</p> <p>Note: For Title Work, parcels with multiple tracts were counted as multiple reports as the title researcher charges per title search.</p>					GRAND TOTAL:		\$41,405.00