



49 Park of Commerce Way, Suite 203  
Savannah, GA 31405  
T: 912.228.3611

March 21, 2025

Tim Callanan  
County Manager  
Effingham County Board of Commissioners  
804 S. Laurel Street  
Springfield, GA 31329

Re: **23-IDC RFP-063, I-6 (SR 30 at Midland Road – GDOT Roundabout), Effingham County - Change Order #1**

Pond & Company (Pond) is pleased to submit this proposal for transportation engineering design services for the above project. The paragraphs below describe the professional services and fees to accomplish this work.

**PROJECT UNDERSTANDING:**

Pond has provided a conceptual design and traffic analysis for a proposed single-lane roundabout at the intersection of SR 30/Noel C. Conaway Road and Midland Road. Effingham County and GDOT has requested that the roundabout be revised to a multilane design and that the project limits be extended to widen SR 30 from Midland Road to the proposed roundabout at the SR 30 and Kolic Helmey Rd intersection. The project must obtain an encroachment permit in accordance with Chapter 11 of the Driveway and Encroachment Control Manual. A PI number has been issued for the project and will continue to require GDOT oversight during development. The construction plans will be developed using an abbreviated GDOT Plan Development Process, including a Limited Scope Concept Report, Preliminary and Final Field Plan Reviews, and local certification of utilities, environmental aspects, and right-of-way. It is assumed that the project will remain 100% locally funded. Please note the original signed contract for the reference project is still valid and this scope of work captures the additional design effort necessary to accommodate the changes described above.

**PROFESSIONAL SERVICES:**

The work in this proposal will include the additional efforts required for changes to the preferred alternative and the increase in project limits/scope. The design services will cover concept development through to final design. Pond, along with our subconsultants, will provide the design services necessary for completing the tasks as described herein for Effingham County.

***Scope of Work***

**Task 1: GDOT Program Management and Coordination**

Pond will continue to serve as the County's representative and project manager throughout project execution. Pond will facilitate monthly meetings with the GDOT PM, the County, and subject matter experts, and manage communications to ensure an open dialogue and assist the County in navigating the GDOT Plan Development Process.

**Deliverables for Task 1:**

- Meeting Minutes including monthly and additional coordination meetings

## **Task 2: Concept Development**

### ***Task 2.1: Survey***

Topographic Survey - Additional survey work will be necessary to accommodate the new project limits. Survey services will be performed by sub-consultant, Settimio Consulting Services, and provided to Pond. The survey limits will include approximately 1,000 feet along the centerline of SR 30 west of the SR 30 and Midland Road intersection, and approximately 1,300 feet along the centerline of SR 30 east of the SR 30 and Midland Road intersection. The survey limits will extend down Midland Road for approximately 1,200 feet. Property research and resolution will also be conducted as part of this task. SUE QL-B services will be completed within project limits.

### ***Task 2.2: Traffic Analysis***

Pond will revise the traffic documents according to direction of a preferred multi-lane roundabout, received from GDOT and Effingham County. The tasks below will be completed as part of this revision:

- The GDOT Intersection Control Evaluation (ICE)
- Traffic Engineering (TE) Report

Effingham County Review – Pond will submit the TE Report to Effingham County for comment/approval. This task includes (1) meeting with the county to discuss the report. We will respond to (1) round of comments and incorporate appropriate comments into the report.

GDOT District 5 Review – Pond will submit the TE Report to GDOT District 5 for comment/approval. This task includes (1) meeting with GDOT to discuss the report, as/if needed. We will respond to (1) round of comments and incorporate appropriate comments into the report.

### ***Task 2.3: Concept Report***

Concept Report and Concept Layout – Pond will revise the Limited Scope Concept Report that was previously compiled and submitted for GDOT review. The concept layout will be updated to reflect a multilane roundabout design and the widening of SR 30 from Midland Road to Kolic Helmey Road. The concept report will be revised to include the updated design and project limits. Additionally, the report will document planning and background data, design features, utility and property impacts, anticipated environmental requirements, update cost estimates, and outline coordination and activity responsibilities based on the new design. Further coordination will be required with the design consultant for the SR30 at Kolic Helmey Roundabout to ensure the project tie in is designed appropriately.

Environmental Documentation - A new environmental survey boundary will be developed, and field resource identification will take place to evaluate the additional project area and potential environmental impacts. It is assumed that the project remains 100% locally funded; any change to the funding type could impact the required environmental process and documentation. Environmental impacts will be evaluated, and any required environmental permitting will be determined. A Public Involvement Open House (PIOH) is anticipated, and the multilane roundabout design and widening will be presented to the public.

#### **Deliverables for Task 2:**

- Revised Traffic Engineering (TE) Report
- Approved Limited Scope Concept Report
- Revised Environmental Survey Reports

### **Task 3: Preliminary Design**

Preliminary Design Plans (PFPR) – The Preliminary Plans will include all items described in the original signed contract and will be prepared as outlined in the contract. This scope of work will incorporate the additional design efforts for a multilane roundabout at the SR 30 and Midland Road intersection, as well as the widening of SR 30 from Midland Road to Kolic Helmey Road, into the Preliminary Plans.

Roundabout Lighting Design – Lighting design was not included in the original scope of services. GDOT has determined that this project will require roundabout lighting per GDOT's Roundabout Design Guide Manual. This scope of work will include roundabout lighting design for the intersection of SR 30 and Midland Road. Lighting plans (25 series) will be included in the preliminary and final plans. The plan set will include plan view design as well as lighting details and notes, and quantities and cost estimate. Photometric analysis documentation will be provided for GDOT review. Lighting design will provide appropriate illumination of pedestrian pathways (crosswalks) and roundabout lighting utilizing new fixture locations. Documents delivered at final submittal will be signed and sealed by registered GA Professional Electrical Engineer. Roadway lighting and solar power lighting design are not included in this scope of work.

Roundabout Rectangular Rapid Flashing Beacons (RRFB) – Due to the conversion of a single lane roundabout to a multi-lane roundabout, RRFB units will be required on all legs of the intersection for the approach and departure legs to increase the driver's awareness of these pedestrian crossings.

Right of Way Plans - The Right of Way Plans will include all items described in the original signed contract and will be prepared as outlined in the contract. This scope of work will incorporate the additional design efforts for a multilane roundabout at the SR 30 and Midland Road intersection, as well as the widening of SR 30 from Midland Road to Kolic Helmey Road, into the Right of Way Plans. The increase in project limits will result in an increase in affected parcels as well as total right of way impacts.

#### **Deliverables for Task 3:**

- PFPR Plans and Checklist Items
- Environmental Documentation

### **Task 4: Final Design**

Final Design Plans (FFPR) – The Final Plans will include all items described in the original signed contract and will be prepared as outlined in the contract. This scope of work will incorporate the additional design efforts for a multilane roundabout at the SR 30 and Midland Road intersection, as well as the widening of SR 30 from Midland Road to Kolic Helmey Road, into the Final Design Plans.

#### **Deliverables for Task 4:**

- FFPR Plans and Checklist Items

**ASSUMPTIONS:**

The design plans will be prepared as a locally funded project.

Services or tasks not specifically outlined above are excluded and would be considered additional services. Services not included in the scope:

- Traffic Analysis – Beyond Task 2
- Traffic Data Collection – Beyond Task 2
- Traffic Signal Plans
- GDOT Design Traffic Forecasting Manual
- GDOT Office of Planning Design Traffic
- Traffic Signal Plans
- ITS/Signal Communications Plans
- Landscaping Plans
- Tree Removal/Recompense Plans
- Subsurface Utility Engineering (SUE) QL A
- Additional Meetings
- MS4 Analysis/Documentation
- Right-of-Way Staking, Right of Way Acquisition Services/Assistance
- Railroad Preliminary Engineering Review or Other Associated Fees
- Structural Design and/or Analysis
- Pay Application Review
- Materials Testing
- Construction Engineering and Inspection

**PROFESSIONAL FEES:**

Pond proposes to accomplish *Task 1* through *Task 4* for a Not-to-Exceed Lump Sum total of \$314,911.41. The fee details are listed in the attached Man-Hour Estimate.

- *Task 1* – GDOT Program Management and Coordination: \$35,102.04
- *Task 2* – Conceptual Development (Includes Survey and SUE QL-B): \$163,562.91
- *Task 3* – Preliminary Design: \$67,151.67
- *Task 4* – Final Design: \$49,094.79

These fees are based on the contracted unit rates, not to exceed total of \$314,911.41

If this fee and scope is acceptable, Pond & Company is available to begin work immediately. If you would like to discuss or modify the scope please contact me at [FangmannR@pondco.com](mailto:FangmannR@pondco.com) or via phone at (678) 336-7740.

Sincerely,

Effingham County Board of Commissioners

**POND & COMPANY**


Richard Fangmann, PE, PTOE  
Vice-President

Approved: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Cc: Zach Puckett, PE  
Taylor Glover, PE  
Melissa Phillips

Attachments:  
Man-Hour Estimates

# Effingham County

**SR 30 at Midland Road  
Roundabout  
Project Length 0.66 miles**

## **SUMMARY BY PHASE**

### **COST AMOUNT OF CONTRACT PROPOSAL**

3/21/2025

	PHASE AMOUNTS
Phase 1 GDOT Program Management and Coordination	\$ 35,102.04
Phase 2 Concept Development (Includes Survey)	\$ 163,562.91
Phase 3 Preliminary Design	\$ 67,151.67
Phase 4 Final Design	\$ 49,094.79
<b>TOTAL DESIGN COST FOR ALL SEGMENTS</b>	<b>\$ 314,911.41</b>

**Effingham County**

## Phase 1 Summary

**PROJECT: SR 30 at Midland Road Roundabout**

Phase 1

GDOT Program Management and Coordination

PERSONNEL	EST. HOURS	RATE/HR.	COST \$	TOTALS
PRINCIPAL	4	\$ 295.76	\$ 1,183.04	
PROJECT MANAGER	88	\$ 270.01	\$ 23,760.88	
SENIOR ENGINEER	30	\$ 276.68	\$ 8,300.40	
MID LEVEL ENGINEER	12	\$ 154.81	\$ 1,857.72	
SENIOR LANDSCAPE AR	0	\$ 162.84	\$ -	
SUVEYOR, PROJECT	0	\$ 120.82	\$ -	
SURVEY, CREW	0	\$ 131.33	\$ -	
ADMINISTRATIVE			\$ -	
TOTAL DIRECT LABOR 134 Manhours				\$ 35,102.04
<b>DIRECT COSTS (SPECIFY):</b>				
ITEM	UNIT COST	QUANTITY	TOTALS	
MILEAGE	\$ 0.67	0	\$ -	
REPRODUCTION	\$ 150.00	0	\$ -	
MAIL & DELIVERY	\$ 50.00	0	\$ -	
TRAVEL	\$ -	0	\$ -	
				\$ -
Direct Cost Total				\$ -
<b>SUBCONSULTANTS (LIST):</b>				
SUB CONSULTANT			TOTALS	
			\$ -	
			\$ -	
Subconsultant Sub Total				\$ -
COST AMOUNT FOR PHASE				\$ 35,102.04

<p align="center"><b>Effingham County</b> Phase 1 Detail</p>	
--	--

**PROJECT: SR 30 at Midland Road Roundabout**  
Phase 1  
GDOT Program Management and Coordination

[illegible]

**Effingham County**

## Phase 2 Summary

**PROJECT: SR 30 at Midland Road Roundabout**

Phase 2

Concept Development (Includes Survey)

PERSONNEL	EST. HOURS	RATE/HR.	COST \$	TOTALS
PRINCIPAL	0	\$ 295.76	\$ -	
PROJECT MANAGER	6	\$ 270.01	\$ 1,620.06	
SENIOR ENGINEER	95	\$ 276.68	\$ 26,284.60	
MID LEVEL ENGINEER	199	\$ 154.81	\$ 30,807.19	
SURVEYOR, PROJECT	0	\$ 120.82	\$ -	
SURVEY, CREW	0	\$ 131.33	\$ -	
ADMINISTRATIVE	2	\$ 121.03	\$ 242.06	
TOTAL DIRECT LABOR 302 Manhours				\$ 58,953.91
<b>DIRECT COSTS (SPECIFY):</b>				
ITEM	UNIT COST	QUANTITY	TOTALS	
MILEAGE	\$ 0.67	0	\$ -	
REPRODUCTION	\$ 150.00	0	\$ -	
MAIL & DELIVERY	\$ 50.00	0	\$ -	
TRAVEL	\$ -	0	\$ -	
			\$ -	
Direct Cost Total				\$ -
<b>SUBCONSULTANTS (LIST):</b>				
SUB CONSULTANT			TOTALS	
Survey & SUE B Services-SCS			\$ 104,609.00	
			\$ -	
			\$ -	
Subconsultant Sub Total				\$ 104,609.00
COST AMOUNT FOR PHASE				\$ 163,562.91



**Effingham County**  
Phase 2 Detail

**PROJECT: SR 30 at Midland Road Roundabout**

Phase 2

Concept Development (Includes Survey)

TASKS	Assumptions	No. of SHT	PRINCIPAL	PROJECT MANAGER	SENIOR ENGINEER	MID LEVEL ENGINEER	SURVEYOR, PROJECT	SURVEY, CREW	ADMINISTRATIVE	TOTAL	% OF TOTAL HOURS
<b>ROADWAY</b>											
Site Visit											
Data Gathering											
Concept Horizontal Alignment					2	4			2	8	2.6%
Concept Typical Sections					1	4				5	1.7%
Concept Pavement Design					1	2				3	
Concept Vertical Alignment					2	4				6	
Roundabout Design					8	24				32	10.6%
Fastest Path Analysis					4	8				12	4.0%
Turning Movement Templates (Autoturn)					1	8				9	
Intersection Sight Distance Analysis					2	8				10	3.3%
Concept Bridge Layout											
Concept Bridge Design											
Concept Drainage Design					4	16				20	6.6%
Concept MS4 Design											
Concept Cross Sections					8	16				24	7.9%
Concept Layout					4	24				28	9.3%
Concept Report					4	16				20	6.6%
QA/QC					16					16	5.3%
Concept Construction Cost Estimate					2	8				10	3.3%
Concept Utility Cost Estimate					1	4				5	1.7%
Concept Right of Way Cost Estimate					1	4				5	1.7%
Concept Mitigation Cost Estimate					1	2				3	1.0%
Revise Concept with Client/GDOT Comments					16	32				48	15.9%
Comment Responses				2	4					6	2.0%
<b>SURVEY</b>											
Review Survey	Coordination with surveyor; included review of databased and field visit to confirm			4	8	8				20	6.6%
<b>Traffic</b>											
Traffic Analysis											
Report Documentation					2	4				6	2.0%
QA/QC					1	1				2	0.7%
Coordination with Sub											
Coordination with GDOT					2	2				4	1.3%
<b>TOTALS</b>		0	0	6	95	199	0	0	2	302	94.0%

**Effingham County**

## Phase 3 Summary

**PROJECT: SR 30 at Midland Road Roundabout**

Phase 3

Preliminary Design

PERSONNEL	EST. HOURS	RATE/HR.	COST \$	TOTALS
PRINCIPAL	0	\$ 295.76	\$ -	
PROJECT MANAGER	12	\$ 270.01	\$ 3,240.12	
SENIOR ENGINEER	54	\$ 276.68	\$ 14,940.72	
MID LEVEL ENGINEER	243	\$ 154.81	\$ 37,618.83	
SENIOR LANDSCAPE AR	0	\$ 162.84	\$ -	
LANDSCAPE ARCHITECT	0	\$ 131.33	\$ -	
ADMINISTRATIVE	0	\$ 121.03	\$ -	
TOTAL DIRECT LABOR 309 Manhours				\$ 55,799.67
<b>DIRECT COSTS (SPECIFY):</b>				
ITEM	UNIT COST	QUANTITY	TOTALS	
MILEAGE	\$ 0.67	0	\$ -	
REPRODUCTION	\$ 150.00	0	\$ -	
MAIL & DELIVERY	\$ 50.00	0	\$ -	
TRAVEL	\$ -	0	\$ -	
			\$ -	
Direct Cost Total				\$ -
<b>SUBCONSULTANTS (LIST):</b>				
SUB CONSULTANT			TOTALS	
Roundabout Lighting Design-Pond			\$ 11,352.00	
			\$ -	
			\$ -	
Subconsultant Sub Total				\$ 11,352.00
COST AMOUNT FOR PHASE				\$ 67,151.67

**Effingham County**  
Phase 3 Detail

**PROJECT: SR 30 at Midland Road Roundabout**  
Phase 3  
Preliminary Design

TASKS	Assumptions	No. of SHT	PRINCIPAL	PROJECT MANAGER	SENIOR ENGINEER	MID LEVEL ENGINEER	SENIOR LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECT	ADMINISTRATIVE	TOTAL	% OF TOTAL HOURS
<b>ROADWAY DESIGN</b>											
Horizontal Alignments					0.5	4				5	1.5%
Typical Sections	12 internal monthly meetings @ 0.5 hr per meeting					4				4	1.3%
Vertical Alignments					0.5	4				5	1.5%
Plan View Layout					1	20				21	6.8%
Driveway Profiles					0.5	4				5	1.5%
Drainage Design					4	16				20	6%
Cross Sections					2	12				14	4.5%
Prepare Staging Plans					2	20				22	7.1%
Prepare Lighting Plans	Coordination with Electrical. 25 series production, notes/details			4	8	24				36	11.7%
Prepare Signing and Marking Plans					1	8				9	2.9%
Prepare Signal Plans	Assumes RRFB assemblies for approach and departure - all legs				12	37				49	15.9%
<del>Prepare ITS/ATMS Plans</del>					0	0					
<del>Prepare Landscaping Plans</del>					0	0					
<del>Prepare Wall Envelopes</del>					0	0					
<del>Prepare Bridge Plans</del>					0	0					
Erosion Control Plans					2	24				26	8.4%
Drainage Layout/Profiles					2	8				10	3.2%
Cross Sections					2	12				14	4.5%
Utility Plans					0.5	4				5	1.5%
Utility Coordination	1st Submission			4	2	2				8	2.6%
Cost Estimate											
PFPR Meeting	Virtual										
R/W Cover											
R/W Plan Sheets					2	12				14	4.5%
R/W Description/Table Sheets					2	8				10	3.2%
R/W Revisions					2	12				14	4.5%
Project Coordination	Coordination with SEI for tie into adjacent project			4	8	8				20	6.5%
<b>TOTALS</b>		0	0	12	54	243	0	0	0	309	100.0%

**Effingham County**

## Phase 4 Summary

**PROJECT: SR 30 at Midland Road Roundabout**

Phase 4

Final Design

PERSONNEL	EST. HOURS	RATE/HR.	COST \$	TOTALS
PRINCIPAL	0	\$ 295.76	\$ -	
PROJECT MANAGER	14	\$ 270.01	\$ 3,780.14	
SENIOR ENGINEER	61	\$ 276.68	\$ 16,877.48	
MID LEVEL ENGINEER	179	\$ 154.81	\$ 27,710.99	
SENIOR LANDSCAPE AR	0	\$ 162.84	\$ -	
LANDSCAPE ARCHITECT	0	\$ 131.33	\$ -	
ADMINISTRATIVE	6	\$ 121.03	\$ 726.18	
TOTAL DIRECT LABOR 260 Manhours				\$ 49,094.79
<b>DIRECT COSTS (SPECIFY):</b>				
ITEM	UNIT COST	QUANTITY	TOTALS	
MILEAGE	\$ 0.67	0	\$ -	
REPRODUCTION	\$ 150.00	0	\$ -	
MAIL & DELIVERY	\$ 50.00	0	\$ -	
TRAVEL	\$ -	0	\$ -	
			\$ -	
Direct Cost Total				\$ -
<b>SUBCONSULTANTS (LIST):</b>				
SUB CONSULTANT			TOTALS	
			\$ -	
			\$ -	
Subconsultant Sub Total				\$ -
COST AMOUNT FOR PHASE				\$ 49,094.79

**Effingham County**  
Phase 4 Detail

**PROJECT: SR 30 at Midland Road Roundabout**  
Phase 4  
Final Design

TASKS	Assumptions	No. of SHT	PRINCIPAL	PROJECT MANAGER	SENIOR ENGINEER	MID LEVEL ENGINEER	SENIOR LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECT	ADMINISTRATIVE	TOTAL	% OF TOTAL HOURS
<b>ROADWAY</b>											
Finalize Horizontal Alignments					1	2			2	5	1.9%
Finalize Typical Sections					1	2				3	1.2%
Finalize Vertical Alignments					1	2			4	7	2.7%
Finalize Plan View Layout					8	24				32	12.3%
Finalize Driveway Profiles					2	4				6	2%
Finalize Drainage Design					6	12				18	6.9%
Finalize Cross Sections					8	16				24	9.2%
Finalize Staging					4	24				28	10.8%
Finalize Lighting Plans	Includes GDOT revisions				4	24				28	10.8%
Finalize Signing and Marking Plans					2	8				10	3.8%
Finalize Signal Plans	Assumes RRFB assemblies for approach and departure - all legs				8	25				33	12.7%
Finalize ITS/ATMS Plans					0	0					
Finalize Landscaping Plans					0	0					
Finalize Wall Envelopes					0	0					
Finalize Bridge Plans					0	0					
Finalize Erosion Control Plans					4	16				20	7.7%
Utility Plans					2	4				6	2.3%
Utility Coordination	2nd Submission			8	4	4				16	6.2%
Cost Estimate				2	2	8				12	4.6%
FFPR Meeting											
Project Coordination	Coordination with SEI for tie into adjacent project			4	4	4				12	4.6%
GDOT Encroachment Permit	Upload and coordination										
Bid Package Preparation											0.0%
Pre-Bid Meeting and Bidding Assistance	Virtual										
Pre-Construction Meeting											
RFIs	10 RFIs										
7-day inspection											
<b>TOTALS</b>		0	0	14	61	179	0	0	6	260	100.0%