

RESOLUTION NO. 12-446

BE IT RESOLVED by the City Council of the City of Decatur, Alabama that the Mayor is authorized on behalf of the City to accept the attached revised proposal of Gresham Smith and Partners regarding the Spring Avenue Project (ALDOT Project No. STPOA-9215(003) Additional Lanes).

Adopted this 17th day of December 2012

emailed to Mark Petersohn
12-13-12 Chip Alexander
Hermen Marks



G R E S H A M
S M I T H A N D
P A R T N E R S

December 6, 2012

Mayor Don Kyle
City of Decatur
PO Box 488
Decatur, AL 35602

Subject: Proposal for Updating Plans (Revised)
ALDOT Project No. STPOA-9215(003)
Additional Lanes on Spring Avenue
From Day Road to Cedar Lake Road
Decatur, AL
Morgan County
GS&P Project No. 25008.01

Dear Mayor Kyle:

As requested by the City Engineer, Mark Petersohn, we have updated our original proposal dated April 23, 2012 for updating the plans for the Spring Avenue Widening project to provide the required clear zone adjacent to the roadway. The clear zone, as defined by the American Association of State Highway and Transportation Officials (AASHTO), is the unobstructed, traversable area provided adjacent to the roadway for the recovery of errant vehicles. ALDOT has advised that the clear zone must be contained within the acquired right of way or a permanent easement so that the City can ensure that the clear zone is maintained free of hazards. Gresham, Smith and Partners (GS&P) will make necessary revisions to the plans and right of way (ROW) acquisition documents described below.

Scope of Services

Gresham, Smith and Partners (GS&P) will revise and update the plans as follows:

1. Update plans to 2013 ALDOT standards – This includes general plan updates such as updating Standard Drawings and Special Project Details, updating pay items, updating ALDOT Traffic Control Plan Notes and traffic control Special Project Details.
2. As previously discussed, the typical section for the project will be revised to use 4:1 ditch front slopes and fill slopes. Changing from 3:1 slopes to 4:1 slopes will allow the minimum clear zone distance to be achieved closer to the roadway and reduce the amount of additional right of way and/or easements that must be acquired. Plan revisions required are:
 - a. Revise typical sections
 - b. Revise cross sections
 - c. Revise ditch and drainage structure locations in the plan sheets, drainage plan sheets and drainage sections – Since the ditches and toe of slope will move away from the roadway some, any drainage structures such as inlets and pipes will need to be adjusted to tie to the new ditch or toe of slope location.
 - d. Revise acquired right of way, easements and construction limits in plans

Design Services For The Built Environment



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- e. Revise drainage quantities
 - f. Revise earthwork volumes
- 3. Update plans based on changes that have occurred along the corridor since the project was originally surveyed such as adding new roadway signs, adding brick subdivision and school signs, adding irrigation and lighting and showing the disposition of these features (remove, retain, etc.). GS&P staff conducted a detailed field review of the project recently and identified all of these features that need to be updated in the plans. At this time, we do not anticipate that additional field survey work will be required. If additional field survey is needed, GS&P will submit a separate proposal to the City for this work.
- 4. Traffic signalization:
 - a. Add traffic signal plans at Spring Avenue and Vestavia Drive. When this project was originally designed, this was an unsignalized intersection. This intersection has now been signalized, and the existing traffic signal will have to be re-designed to accommodate the widening.
 - b. Add traffic signal layout at Spring Avenue and Tammy Drive back into plans. The layout for this traffic signal was removed from the plans several years ago at the request of the City. We understand that the layout for retaining and making necessary modifications to this traffic signal should be included in the plans again.
 - c. Update traffic signal plans to include Sensys detection as requested by the City.
 - d. Update the ALDOT Traffic Signal Project Notes to the latest version.
 - e. ALDOT now requires traffic signal warrant studies to be completed when existing traffic signals are modified as part of a project. We will obtain updated traffic counts from ALDOT and prepare traffic signal warrants for the existing signalized intersections at Vestavia Drive, Tammy Drive and Cedar Lake Road. GS&P will also provide initial traffic signal timings for these traffic signals.
 - f. Traffic signalization pay items and quantities will be updated.
- 5. Prepare phased Erosion & Sediment Control Plans now required by ALDOT. In recent years, ALDOT has also made considerable changes to their standards and specifications for erosion and sediment control. GS&P will update the Erosion & Sediment Control Plans, pay items and quantities based on ALDOT's current standards and specifications. GS&P will also locate and label the secondary discharge points and background points now required by ALDOT.
- 6. Prepare Construction Best Management Practices Plan (CBMPP) – ALDOT now requires that a CBMPP be prepared for all projects that disturb more than one acre and require NPDES stormwater permit coverage. GS&P will compile the necessary information for the Notice of Intent (NOI) for stormwater permit coverage and enter this information into ALDOT's web-based CPMS project management system and provide this information to the City.
- 7. GS&P will make an updated Materials submittal to ALDOT and make any necessary revisions to the typical sections (pavement buildups) and base and pavement quantities from the ALDOT Materials Report Addendum (to be provided by ALDOT).



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8. After all design and plan revisions are made, GS&P will make an updated Utility Coordination submittal to ALDOT to make all affected utility companies aware of the design changes as they are preparing the designs for their utility relocation plans. We have also included time for coordinating the necessary utility relocations with the various utility companies.
9. ALDOT has requested that the plans go through supplemental PS&E, Quality Control/Final Back Check and Construction Bureau reviews. We have included time and expenses for these plan reviews and addressing comments.
10. GS&P will update the construction cost estimate for the project in ALDOT's Estimator™ software.
11. Update CAD files to Microstation Version 8 – This project was originally prepared in the Microstation J CAD software, which was ALDOT's standard CAD software in use when the plans for this project were originally prepared. Due to the length of time that has passed, the Microstation J software is no longer supported, and the project CAD files must be migrated to the Microstation Version 8 CAD software. We have included time for this effort in this proposal.

The attached fee proposal includes detailed information on the revisions that will be made to the plans.

Updates to ROW Map, Tract Sketches and Deeds

GS&P will also update the right-of-way (ROW) map, tract sketches and deeds based on changes in property lines and/or property owners that have occurred since the last time the right-of-way acquisition documents were updated. Additionally, GS&P will update or provide additional tract sketches and deeds for any additional right-of-way or easements that are needed. Currently, we estimate that revisions or new tract sketches and deeds will be required for approximately 21 tracts.

Exclusions

This proposal does not include the following services:

Additional Field Survey – As stated above, based on our field review earlier this summer, we do not believe that any additional field survey information will be needed. If, in the course of making the plan revisions described above, additional field survey information is needed, we will notify the City and submit a proposal for the additional survey.

Updating Environmental Document – This proposal does not include updating the EA FONSI (originally prepared by GS&P). ALDOT is currently determining if they will update the EA FONSI or if the City will be responsible for this. If the City is responsible for this, GS&P can submit a separate proposal for updating the environmental document.



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Geotechnical Studies/Pavement Design – We understand that ALDOT will provide the updated Materials Report (pavement design) and any additional geotechnical information that is needed for the project.

Traffic Data – We understand that ALDOT will provide updated traffic data for the project.

Compensation

GS&P proposes to make the revisions to the plans described above and detailed in the attached fee proposal for the lump sum fee of \$109,795.00.

Given the uncertainty as to the exact number of tracts that will require revisions, GS&P proposes to revise tract sketches and deeds or prepare new tract sketches and deeds at a cost of \$1,446.00 per tract. This per tract price includes all labor and expenses. Currently, we estimate that 21 tracts will need revised or new tract sketches and deeds.

GS&P can begin performing the work outlined in this proposal immediately upon approval by the City and receipt of a signed agreement in order to meet the City's and ALDOT's goals for letting this project for construction. We will prepare an agreement for this work and send it to you for your review and execution.

If you have any questions about this proposal, feel free to contact me at 205.298.9232 or by email at blair_perry@gspnet.com.

We look forward to continuing to provide professional engineering services to the City of Decatur to update the plans for this project and move it towards construction.

Sincerely,

Blair C. Perry, P.E.
Project Manager

BCP

Attachments Revised Fee Proposal

Copy Mark Petersohn, City Engineer – City of Decatur (via email)
 Jody Braswell – GS&P (via email)

Project No. STPOA-9215(003) County Morgan Description Additional Lanes on Spring Avenue from Day Road to Cedar Lake Road Update plans to 2012 Standards. Revise plans to flatten side slopes to 4:1 per Scope of Work ALDOT clear zone requirements. Project Length 1.92 Miles			
Consultant Gresham Smith & Partners			
ROW Map, Tract Sketches and Deeds			
Estimated number of takings= 21			
Task A: Right-of-Way Map - includes time to coordinate with City ROW Acquisition consultant to resolve property & property owner changes that have occurred since original ROW negotiations were performed.			
	Engineer	Tech/CADD	Clerical
	1.00	2.50	0.12
TOTALS - RIGHT OF WAY MAP	1.00	2.50	0.12
Task B: Tract Sketches (per tract sketch)			
	0.25	0.50	0.00
Task C: Deeds (per deed)	0.25	0.50	0.06
TOTAL - TRACT SKETCHES & DEEDS (PER TRACT)	0.50	1.00	0.06

Note: A "Taking" is any separate piece of property acquired by ALDOT. This includes parcels, drainage easements, construction easements, etc.

Project No. STPOA-9215(003)			
County Morgan			
Description Additional Lanes on Spring Avenue from Day Road to Cedar Lake Road			
Scope of Work Update plans to 2012 Standards. Revise plans to flatten side slopes to 4:1 per ALDOT clear zone requirements.			
Project Length 1.92 Miles			
Consultant Gresham Smith & Partners			
Fee Proposal (ROW Map)			
PERSONNEL COST			
	Man-days	x Daily Rate	
Project Manager (10% of Eng.)	0.10	\$ 386.00	\$ 38.60
Engineer	1.00	\$ 336.00	\$ 336.00
Engineering Technician/CADD	2.50	\$ 256.00	\$ 640.00
Clerical	0.12	\$ 250.00	\$ 30.00
Total Direct Labor			\$ 1,044.60
Combined Overhead (%)	172.24		\$ 1,799.22
Out-of-Pocket Expenses**			\$ 190.64
Sub-Total			\$ 3,034.46
Operating Margin (15%)			\$ 455.17
Sub-Total			\$ 3,489.63
SUB-CONSULTANTS (attach man-day & fee FROM each sub-consultant; show total fee for each here)			
			\$ -
			\$ -
			\$ -
Subconsultant Administration Expense (5%)			\$ -
Sub-Total			\$ 3,489.63
Facilities Capital Cost of Money (% of Direct Labor)	0.41		\$ 4.28
TOTAL FEE			\$ 3,493.91

**See Grand Total Fee sheet

Project No. STPOA-9215(003)					
County Morgan					
Description Additional Lanes on Spring Avenue from Day Road to Cedar Lake Road					
Scope of Work Update plans to 2012 Standards. Revise plans to flatten side slopes to 4:1 per ALDOT clear zone requirements.					
Project Length 1.92 Miles					
Consultant Gresham Smith & Partners					
Out-of-pocket Expenses (ROW Map)					
TRAVEL COST					
Mileage Cost	Trips	Miles/Trip	\$/Mile	Total	
	0	0	\$0.550	\$ -	
	0	39	\$0.550	\$ -	
	0	70	\$0.550	\$ -	
	0	0	\$0.550	\$ -	
Total Mileage Cost				\$ -	
Subsistence Cost	Days	# People	\$/Day	Total	
Travel allowance (6 hour trips)	0	0	\$11.25	\$ -	
Travel allowance (12 hour trips - meal provided by others)	0	0	\$20.00	\$ -	
Travel allowance (12 hour trips)	0	0	\$30.00	\$ -	
Travel allowance (overnight)***	0	0	\$75.00	\$ -	
Total Subsistence Cost				\$ -	
Total Travel Cost				\$ -	
PRINTING / REPRODUCTION COST					
Type of printing/reproduction	# of Sets	Sheets/Set	Total Sheets	Cost/Sheet	Total
ROW Roll Map (24"x3") Black/White	8	1	8	\$ 10.08	\$ 80.64
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
Total Printing/Reproduction Cost					\$ 80.64
Communication Cost (telephone, fax, etc.)	Total				
	\$ 10.00				
Postage Cost (overnight, stamps, etc.)	Total				
	\$ 100.00				
Other (provide description on next line)	Total				
	\$ -				
Total Out-of-pocket Expenses	\$ 190.64				

***You must have ALDOT approval for ANY overnight trips of less than 100 miles.

Project No. STPOA-9215(003)			
County Morgan			
Description Additional Lanes on Spring Avenue from Day Road to Cedar Lake Road			
Scope of Work Update plans to 2012 Standards. Revise plans to flatten side slopes to 4:1 per ALDOT clear zone requirements.			
Project Length 1.92 Miles			
Consultant Gresham Smith & Partners			
Fee Proposal (ROW Tract Sketches & Deeds - Per Tract)			
PERSONNEL COST			
	Man-days	x Daily Rate	
Project Manager (10% of Eng.)	0.05	\$ 386.00	\$ 19.30
Engineer	0.50	\$ 336.00	\$ 168.00
Engineering Technician/CADD	1.00	\$ 256.00	\$ 256.00
Clerical	0.06	\$ 250.00	\$ 15.00
Total Direct Labor			\$ 458.30
Combined Overhead (%)	172.24		\$ 789.38
Out-of-Pocket Expenses**			\$ 8.32
Sub-Total			\$ 1,256.00
Operating Margin (15%)			\$ 188.40
Sub-Total			\$ 1,444.40
SUB-CONSULTANTS (attach man-day & fee FROM each sub-consultant; show total fee for each here)			
			\$ -
			\$ -
			\$ -
Subconsultant Administration Expense (5%)			\$ -
Sub-Total			\$ 1,444.40
Facilities Capital Cost of Money (% of Direct Labor)	0.41		\$ 1.88
TOTAL FEE			\$ 1,446.28
TOTAL ESTIMATED NUMBER OF TRACTS			21
TOTAL ESTIMATED FEE			30,371.88

**See Grand Total Fee sheet

Project No. STPOA-9215(003)

County Morgan

Additional Lanes on Spring Avenue from Day Road to Cedar Lake Road

Description

Update plans to 2012 Standards. Revise plans to flatten side slopes to 4:1 per ALDOT clear zone requirements.

Scope of Work

Project Length 1.92 Miles

Consultant Gresham Smith & Partners

Out-of-pocket Expenses (Tract Sketches & Deeds - Per Tract)**TRAVEL COST**

Mileage Cost	Trips	Miles/Trip	\$/Mile	Total
	0	0	\$0.550	\$ -
	0	39	\$0.550	\$ -
	0	70	\$0.550	\$ -
	0	0	\$0.550	\$ -
Total Mileage Cost				\$ -

Subsistence Cost	Days	# People	\$/Day	Total
Travel allowance (6 hour trips)	0	0	\$11.25	\$ -
Travel allowance (12 hour trips - meal provided by others)	0	0	\$20.00	\$ -
Travel allowance (12 hour trips)	0	0	\$30.00	\$ -
Travel allowance (overnight)***	0	0	\$75.00	\$ -
				\$ -
Total Subsistence Cost				\$ -
Total Travel Cost				\$ -

PRINTING / REPRODUCTION COST

Type of printing/reproduction	# of Sets	Sheets/Set	Total Sheets	Cost/Sheet	Total
8 1/2"x 14" Black & White Prints	8	6	48	\$ 0.12	\$ 5.76
8 1/2" x 11" Black & White Prints	8	4	32	\$ 0.08	\$ 2.56
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
Total Printing/Reproduction Cost					\$ 8.32

Communication Cost (telephone, fax, etc.)	Total
	\$ -

Postage Cost (overnight, stamps, etc.)	Total
	\$ -

Other (provide description on next line)	Total
	\$ -

Total Out-of-pocket Expenses	\$ 8.32
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Comments:

***You must have ALDOT approval for ANY overnight trips of less than 100 miles.

Project Number STPOA-9215(003) County Morgan Description Additional Lanes on Spring Avenue from Day Road to Cedar Lake Road Update plans to 2012 Standards. Revise plans to flatten side Scope of work slopes to 4:1 per ALDOT clear zone requirements. Length 1.92 miles Consultant Gresham Smith & Partners						
ROADWAY PLANS SHEET TITLE	NO OF SHEETS	ESTIMATED MAN-DAYS			COMMENT	
		ENGINEER SHEET	TECHNICIAN SHEET	TOTAL		
TITLE SHEET	1.00	0.05	0.10	0.10	Update fiscal year in title block, Update to 2010 census data, Update year in Spec book note to 2012, Update traffic data. Add Bridge & Equations & Exceptions info (No effects).	
INDEX SHEET	1.00	0.05	0.12	0.12	Add sheet number for Traffic Signal Layout at Vestavia. Add sheet for the 2nd sheet of the plans legend, Add sheet for Special Project Detail SHS-09, Add\Remove special project details as needed, Add additional sheet for driveway profiles (sheet 12C), add special project detail for index 1301.	
STANDARD/SPECIAL DRAWINGS SHEET					1). Add index number 332, 333, 334, 335, 336, 338, 339, 340, 341, 342, 343, 649-A, 649-B, 1067 or 1068, 1069, 1160, 1160-A, 1160-B, 1161, 1161-A, 1161-B, 1161-C, 1162, 1162-A, 1162-B, 1162-C, 1162-D, 1162-E, 1162-F, 1163, 1163-A, 1163-B, 1163-D, and 1165.	
PLANS LEGEND	2.00	0.03	0.12	0.24	2). Remove index number 312, 1114, 1116, 1117, 1118, 1119, 1301, 1309 and 1410. 3). Modify description for index number 312-A, 312-B, 312-C, 323-A, 401, 447, 645, 649, 703, 801, 806, 1056, 1057, 1059, 1070, 1079, 1509, 1515, 1520, and 1523. 4). Will most likely have to add a second project note sheet	
REFERENCE POINTS/LAND SURVEY MARKER LOCATION SHEET	2.00	0.00	0.05	0.10	Update to new version of ALDOT standard plans legends sheets	
PROJECT NOTES SHEET	1.00	0.00	0.00	0.12	Minor Updates	
TRAFFIC CONTROL NOTES SHEET	1.00	0.05	0.10	0.10	Review & update Project notes as needed. Add project note about International foot Definition for surveying. Add project note about irrigation and lighting in islands at commercial driveways. Add NPDES permit note.	
TRAFFIC SIGNAL PROJECT NOTES	1.00	0.03	0.10	0.10	Update to latest version of the ALDOT Traffic Signal Control Note Sheet. Add project note, that all existing signal equipment including the video detection equipment at Vestavia should be returned to the City of Decatur, 1802 Central Pkwy SW, Decatur, AL 35601. Add project note, that the City of Decatur Fire Department used the 3M Opticom emergency pre-emption system. Per City of Decatur, use Sensys detection (pucks) at all signalized intersections, (add note).	
SPECIAL PROJECT DETAIL SHEETS	18.00	0.00	0.02	0.36	Update fiscal year and sheet numbers (as needed) in border. Review and update as needed (ALDOT Spec. Project Details).	
TYPICAL SECTIONS						
Main Roadway	2.00	0.10	0.20	0.25	Update typical sections to show 4:1 front slopes & backslopes. Update sidewalk area to reflect 2% max cross-slope per ADA/FHWA/ALDOT regulations. Update required legend per updated materials report from ALDOT. Update Project notes & GN-2 notes as needed. Submit revised typical sections to ALDOT for approval.	

ROADWAY PLANS SHEET TITLE		NO OF SHEETS	ESTIMATED MAN-DAYS				COMMENT
			ENGINEER		TECHNICIAN		
			SHEET	TOTAL	SHEET	TOTAL	
Cross Roads & Driveways		1.00	0.10	0.10	0.25	0.25	Update typical sections to show 4:1 foreslopes & backslopes, Update required legend per updated materials report, Update Project notes & GN-2 notes as needed, Revise guardrail detail to show guardrail at the back of curb
Detour & Misc.		0.00		0.00		0.00	
Special Ditches		1.00	0.10	0.10	0.18	0.18	Update Type 1 Special Ditch to Erosion Control Product (ECP, Type C_). Add new special ditches.
Updated Materials Submittal to ALDOT		0.00	0.00	0.18	0.00	0.12	Make Materials submittal to ALDOT. Review Materials Report Addendum from ALDOT.
		0.00	0.00	0.00	0.00	0.00	Includes coordination time w/ALDOT.
SUMMARY SHEET							
							Update quantities per new ALDOT materials report (addendum), Modify pay-item 659A-048 to 659C-00_ (Erosion Control Product, Type C_), Add 659O-001 (Silt Fence Removal), Add quantity for Contractor Retained Turbidimeter (665M-001), Add Temporary Pipe End Treatments (665D-001) as needed, Modify pay-item 680A-000 to 680A-001 (Geometric Controls), Add quantities as needed for additional traffic signal at Spring Avenue at Vestavia Drive, Add quantities for Sensys detection at signals, Review all pay items vs. current ALDOT pay items list and make needed changes.
Main Summary		3.00	0.12	0.36	0.25	0.75	
SUMMARY BOX SHEETS							
Removal Items (Miscellaneous)		0.25	0.25	0.06	0.50	0.13	Add box for removal of in place columns and decorative signs.
Removal of Curb and Gutter		0.25	0.12	0.03	0.25	0.06	Modify locations and quantities where commercial driveways were installed after original project designed
Removal of Fence		0.25	0.00	0.00	0.00	0.00	See Fence Reset comment.
							Update fence reset and fence removal quantities and locations based on ROW negotiations (some property owners may be responsible for removing their own fences).
Required Fence Reset		0.25	0.25	0.06	0.50	0.13	Coordinate with Bradley Wisener.
Removing Concrete Driveways		0.25	0.00	0.00	0.00	0.00	No updates anticipated
Removal of Existing Drainage Structures		0.50	0.06	0.03	0.12	0.06	Update headwall removal locations & quantities.
Removal of Old Box Culverts		0.25	0.00	0.00	0.00	0.00	No updates anticipated
Required Base and Pavement		0.00	0.00	0.25	0.00	0.75	Update base & pavement quantities per ALDOT Materials Report Addendum.
Required Concrete Driveways		0.25	0.10	0.03	0.10	0.03	Add concrete driveway turnout on Kenilworth Road per City.
Required Retaining Wall		0.25	0.06	0.02	0.12	0.03	Recalculate retaining wall quantities per new specifications.
Required Concrete Sidewalks		0.25	0.00	0.00	0.00	0.00	No updates anticipated (assumes ALDOT & FHWA will not require sidewalks).
							Modify locations and quantities where commercial driveways were installed after original project designed
Required Combination Curb & Gutter		0.25	0.12	0.03	0.25	0.06	project designed
Required Fence		0.25	0.25	0.06	0.50	0.13	Add fences that are to be replaced by contractor per Bradley Wisener.
Required Roadway Striping, Markings and Pavement Markers		0.50	0.06	0.03	0.12	0.06	Update pay items per new ALDOT standards/specs. Update Standard Drawing keys.
Removal of Existing Striping, Markings and Legends		0.25	0.00	0.00	0.00	0.00	No updates anticipated
							Update/Revise Standard & Special Drawing References. Add guardrail at locations to protect for clearzone and at some ditch locations. Per City of Decatur, add guardrail for property (sta. 90+00, across from Tammy St) in front of wall.
Required Guardrail and End Anchors		0.25	0.25	0.06	0.50	0.13	Update/Revise Standard & Special Drawing References, Add reference for index 1301 (special project detail). Add 40 mph speed limit signs. Add school zone signs.
Required Roadway Signs		0.50	0.10	0.05	0.25	0.13	

ROADWAY PLANS SHEET TITLE		NO OF SHEETS	ESTIMATED MAN-DAYS				COMMENT
			ENGINEER		TECHNICIAN		
			SHEET	TOTAL	SHEET	TOTAL	
Required Traffic Signal Pay Items (Equipment)		0.50	0.25	0.13	0.75	0.38	Update/Revise Standard & Special Drawing References, Add quantities for additional traffic signal at Spring Avenue at Vestavia Drive, Add pay items & quantities for Sensys detection equipment & emergency pre-emption equipment.
Required Erosion & Sediment Control		2.00	0.25	0.50	0.50	1.00	Update/Revise Standard & Special Drawing References, Add quantities 6650-001 (Silt Fence Removal), Add Temporary Pipe End Treatments (665D-001) as needed. Add pay items & quantities for new inlet protection pay items. Add pay item for temporary coarse aggregate. Revise pay item for filter blanket. Review and revise all pay items and quantities based on new ALDOT erosion & sediment control standards, specifications and phased erosion & sediment control plans.
Required Side Drain Pipe		0.25	0.25	0.06	0.50	0.13	Add side drains as needed due to additional driveways.
Required Riprap Energy Basin		0.25	0.05	0.01	0.05	0.01	Update filter blanket pay item
Required Special Ditches		0.25	1.00	0.25	2.00	0.50	Revise quantities and locations of special ditches per new foreslope & backslope from typical sections, modify pay-item 659A-048 to 659C-00_ (Erosion control Product, Type C_), Revise side slopes and bottom widths, Update/Revise Standard & Special Drawing References
Required R.C. Culvert		0.25	0.25	0.06	0.50	0.13	Adjust quantities as needed for change in structure length due to fill slope going to 4:1.
Required R.C. Culvert Extension (Cast In Place)		0.25	0.15	0.04	0.25	0.06	Adjust quantities as needed for change in structure length due to fill slope going to 4:1.
Required Slope Paving		0.25	0.00	0.00	0.00	0.00	No updates anticipated
Required Drainage Summary		2.00	0.25	0.50	0.50	1.00	Update/Revise Standard & Special Drawing References. Update all quantities per new locations for pipes due to typical section change.
Required Markers		1.00	0.15	0.15	0.30	0.30	Update quantities and locations of ROW markers per revised right-of-way, Update/Revise Standard & Special Drawing References
Required Mailbox Reset		0.25	0.50	0.13	1.00	0.25	Add box for Mailbox reset. Per City of Decatur, reset mailboxes in same location.
Required Roadway Sign Relocation		0.25	0.15	0.04	0.50	0.13	Add box for Relocated Roadway Signs. Per City of Decatur, all new Street name signs can be reused and relocated.
Misc. Boxes		0.25	0.00	0.00	0.00	0.00	
0.00		0.00	0.00	0.00	0.00	0.00	
PLAN & PROFILE							
							Update roadway plans with revised special ditch locations, sign removals, and construction limits. Show brick column removals & fence removals. Show existing brick school/subdivision signs to be retained. Update project notes & GN-2 notes listed. Add guardrail at Sta. 90+00 in front of wall and at Vestavia Manor. Add curb cut for property at corner of Kenilworth and Spring Avenue, per City of Decatur.
Main Roadway (Split Plan/Profile, 1"=50')		8.00	0.25	2.00	0.50	4.00	
Retaining Walls		1.00	0.00	0.00	0.00	0.00	No updates anticipated
Driveway Profiles		4.00	0.05	0.20	0.10	0.40	Add new sheet for new driveway profiles at Catholic School (Sta. 40+70 Rt) and Decatur Heritage School (Sta. 55+80)
0.00		0.00	0.00	0.00	0.00	0.00	
DRAINAGE PLAN							
							Modify drainage structure locations for changing ditch front slopes and fill slopes to 4:1 - pipe lengths, headwall/inlet locations, etc. Shift ditch locations for changing ditch front slopes and fill slopes to 4:1. Shift longitudinal pipes as needed to not conflict with guardrail posts. Add labels for all headwall removals.
Project Drainage Plan (Split plan sheets, 1"=50')		4.00	0.50	2.00	1.00	4.00	

ROADWAY PLANS SHEET TITLE		NO OF SHEETS	ESTIMATED MAN-DAYS				COMMENT
			ENGINEER		TECHNICIAN		
			SHEET	TOTAL	SHEET	TOTAL	
Ditch Analysis			0.00	0.25	0.00	0.50	Re-run ditch lining analysis to determine linings per new ALDOT standards & specifications for erosion control products.
PAVING LAYOUT, STRIPING AND SIGNING							
Main Roadway (Split Plan Sheets, 1"=50')		4.00	0.05	0.20	0.10	0.40	Add stopbars, R1-1 signs & markings (use photos) to four (4) new commercial driveways and one (1) new street. Street name signs to be replaced from Vestavia to Cedar Lake (add to layouts & quantity box). Add 40mph speed limit signs. Add signs that we found in walk-thru - stop signs at driveways, curve signs, no outlet school, school zone time sign, end school zone, right turn only, no parking, lane designation, no thru trucks, no turn on red, etc.
		0.00	0.00	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00	
SIGNALIZATION							
Traffic Signal Legend Sheet		1.00	0.01	0.01	0.03	0.03	Update ALDOT Traffic Signal Legend sheet to the latest version
Signal Layout (1 new intersection)		1.00	0.50	0.50	1.00	1.00	Add new traffic signal layout sheet for Spring Avenue at Vestavia Drive. Per City of Decatur, install all new equipment at this intersection and use Sensys detection (pucks). Change video detection to Sensys detection (pucks) per City of Decatur. Add/revise Sensys detector locations. Add traffic signal emergency pre-emption to signal layout and equipment schedule. Add note about Sensys detection.
Modify existing Signal Layout (2 intersections)		2.00	0.12	0.24	0.25	0.50	Prepare and submit request to ALDOT for traffic counts at each location: 1). Spring Avenue at Tammy, 2). Spring Avenue at Cedar Lake Drive, and 3). Spring Avenue at Vestavia. Review traffic counts.
Traffic Counts (1 per site)				0.00		0.40	
Signal Warrant Analysis (1 per site)				2.00		0.50	Complete warrant analysis per ALDOT/2009 MUTCD guidelines for all three locations.
Signal Timings (3 isolated intersections)				3.00		1.00	Develop signal timing plans for 3 isolated intersections
Soils Data Sheets (provided by ALDOT)		2.00		0.00	0.06	0.12	Request Soil borings at Spring Avenue at Vestavia. Insert sheets into planset.
Special Details		0.00	0.00	0.00	0.00	0.00	No traffic signal details anticipated.
UTILITY SHEETS							
Utility Sheets		8.00	0.02	0.16	0.05	0.40	Reference updated survey/utility files to utility sheets. Request and update utility contact information. Add new street lights at Catholic Church driveway and Bridle Patch to Sheet 16B. Add irrigation and accent lighting (approximate locations) to utility sheets.
		0.00	0.00	0.00	0.00	0.00	
TRAFFIC CONTROL							
Sequence of Construction		0.50	0.12	0.06	0.12	0.06	Minor changes to sequence of construction based on ALDOT plan review comments.
Traffic Control Summary of Quantities		0.50	0.50	0.25	1.00	0.50	Update/Revise standard and special drawing references, MUTCD sign numbers and quantities per latest ALDOT standards..
Traffic Control Details		3.00	0.06	0.18	0.10	0.30	May be some minor revisions to traffic control details based on new ALDOT standards. Need to add shoulder closure detail.
Traffic Control Plans (2 Phases)		6.00	0.05	0.30	0.10	0.60	May have revisions to Traffic control phased plans...
ALDOT TCP Special Project Details		7.00	0.01	0.07	0.05	0.35	Need Index Nos. 2001, 2001a, 2002, 2003a, 2004, 2006, 2021
		0.00	0.00	0.00	0.00	0.00	
EROSION AND SEDIMENT CONTROL							
Erosion and Sediment Control Legend		1.00		0.00	0.03	0.03	Add latest version of the Erosion & Sediment Control Legend.

ROADWAY PLANS SHEET TITLE		NO OF SHEETS	ESTIMATED MAN-DAYS				COMMENT
			ENGINEER		TECHNICIAN		
			SHEET	TOTAL	SHEET	TOTAL	
Phased Erosion and Sediment Control Plan (3 Phases, 4 sheets per phase, split plan sheets, 1"=50')							1). Prepare phased Erosion & Sediment Control plans (3 phases @ 4 sheets each). 2). Add discharge monitoring points for secondary and background points. Label all primary, secondary and background points according to new naming conventions in Section 2.5 of the ALDOT Construction manual. 3). Remove legend on each sheet (conflicts with ALDOT standard Erosion & Sediment Control Legend) and update cells according to new ALDOT erosion control legend. 4). Revise inlet protection to current ALDOT standards. 5). Replace hay bale ditch checks w/other ditch checks. 6). Review and revise ditch check spacing based on new ALDOT standards.
	12.00	0.30	3.60	0.50	6.00		
	0.00	0.00	0.00	0.00	0.00		
SOIL SHEETS							
Soil Boring Logs		3.00	0.00	0.00	0.00	0.00	
Soil Profile			0.00	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00	
DRAINAGE SECTIONS							
							Update 31 drainage sections based on using 4:1 ditch front slopes and fill slopes - Update finished surface, extend pipes, move inlets, adjust drainage quantity write-ups, recalculate structure excavation and foundation backfill. Minor graphic changes (finished slopes) for 44 drainage sections. Revise longitudinal pipes as needed to not conflict with guardrail posts.
Pipe & Culvert X-Section/Hydraulic Computations		11.00	0.25	2.75	0.50	5.50	
Hydraulic Data Sheet		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	0.00	0.00	
ROADWAY CROSS SECTIONS							
							Revise cross-sections per typical section changes, modify foreslopes and backslopes to 4:1, modify special ditches to 4:1's with 4' flat bottom, annotate points and slopes as required by ALDOT, revise/add acquired ROW/easement flags, add guardrail
Main Roadway		48.00	0.05	2.40	0.15	7.20	
							Revise cross-sections per typical section changes, modify foreslopes and backslopes to 4:1, modify special ditches to 4:1's with 4' flat bottom, annotate points and slopes as required by ALDOT, revise/add acquired ROW/easement flags, add guardrail
Crossroads		4.00	0.05	0.20	0.15	0.60	
Earthwork Summary		1.00	0.25	0.25	0.25	0.25	
		0.00	0.00	0.00	0.00	0.00	Update earthwork after revising cross-sections.
REVIEW COMMENTS							
30% Review				0.00		0.00	
Plan-in-Hand Inspection				0.00		0.00	
PS&E Inspection				0.00		0.00	
Supplemental PS&E Inspection				4.00		5.00	Attend Supplemental PS&E & address comments. Assume 3-day PS&E review (includes travel time).
ALDOT Quality Control/Final BackCheck							
Review				2.50		5.00	Coordinate comments with ALDOT and City & address ALDOT comments.
ALDOT Construction Bureau Review				2.50		5.00	Coordinate comments with ALDOT and City & address ALDOT comments.
Final Internal on- and off-team QA/QC Reviews				2.00		3.00	
MISCELLANEOUS TASKS							
Stormwater Permits/NOI				0.25		1.00	Complete new stormwater permit data form for NOI and enter into ALDOT web-based CPMS. Add secondary and background discharge points to quad map.

ROADWAY PLANS SHEET TITLE		NO OF SHEETS	ESTIMATED MAN-DAYS				COMMENT
			ENGINEER		TECHNICIAN		
			SHEET	TOTAL	SHEET	TOTAL	
Prepare CBMPP				0.50		1.50	Update CBMPP using January 2012 template.
Review Plans for Updates Needed.				0.15		1.00	
Coordinate updates with ALDOT & City.							
Clear Zone/Design Speed Research.							Research properties to determine which will be affected by additional ROW needed for clear zone. Research ways to minimize additional ROW acquisition (flattening to 4:1 slope, add guardrail, etc.). Research clear zone criteria in 2010 Roadside Design Guide
Review clear zone vs. ROW impacts to each piece of property along project corridor.				0.50		3.00	and design speed vs. clear zone. Coordinate with ALDOT & City.
Field Review			1.12		1.00	Field review of project to determine changes needed to plans	
Utility Submittal			0.25		0.25	Submit updated plans to ALDOT/City for utility coordination. Includes time for coordinating with various utilities.	
Update CAD files to Microstation Ver. 8			0.12		0.50	Update all CAD files from Microstation J to Microstation Version 8. Update plotting files.	
Cost Estimates			0.35		0.50	Update cost estimate with new pay items and quantities	
Design Hearing			0.00		0.00	No design hearing anticipated. Any additional public involvement required will be included in environmental document update scope & fee.	
SUB-TOTAL		179.50	38.70		70.12		
10% Supervision			3.87				
TOTALS		179.50	38.70		70.12		

Project No. STPOA-9215(003)			
County Morgan			
Description Additional Lanes on Spring Avenue from Day Road to Cedar Lake Road			
Scope of Work Update plans to 2012 Standards. Revise plans to flatten side slopes to 4:1 per ALDOT clear zone requirements.			
Project Length 1.92 Miles			
Consultant Gresham Smith & Partners			
Fee Proposal (Roadway Plans)			
PERSONNEL COST			
	Man-days	x Daily Rate	
Project Manager (10% of Eng.)	3.87	\$ 386.00	\$ 1,493.82
Engineer	38.70	\$ 336.00	\$ 13,003.20
Engineering Technician/CADD	70.12	\$ 256.00	\$ 17,950.72
Clerical	2.00	\$ 250.00	\$ 500.00
Total Direct Labor			\$ 32,947.74
Combined Overhead (%)	172.24		\$ 56,749.19
Out-of-Pocket Expenses**			\$ 5,659.80
Sub-Total			\$ 95,356.73
Operating Margin (15%)			\$ 14,303.51
Sub-Total			\$ 109,660.24
SUB-CONSULTANTS (attach man-day & fee FROM each sub-consultant; show total fee for each here)			
			\$ -
			\$ -
			\$ -
Subconsultant Administration Expense (5%)			\$ -
Sub-Total			\$ 109,660.24
Facilities Capital Cost of Money (% of Direct Labor)	0.41		\$ 135.09
TOTAL FEE			\$ 109,795.33

**See Grand Total Fee sheet

Project No.	STPOA-9215(003)
County	Morgan
Description	Additional Lanes on Spring Avenue from Day Road to Cedar Lake Road
Scope of Work	Update plans to 2012 Standards. Revise plans to flatten side slopes to 4:1 per ALDOT clear zone requirements.
Project Length	1.92 Miles
Consultant	Gresham Smith & Partners
Out-of-pocket Expenses (Roadway Plans)	

TRAVEL COST					
Mileage Cost	Trips	Miles/Trip	\$/Mile	Total	
To 2nd Division Office (Supplemental PS&E)	1	250	\$0.550	\$	137.50
To Project Site (Decatur, AL) for field review	1	180	\$0.550	\$	99.00
	0	0	\$0.550	\$	-
	0	0	\$0.550	\$	-
Total Mileage Cost				\$	236.50
Subsistence Cost	Days	# People	\$/Day	Total	
Travel allowance (6 hour trips)	1	2	\$11.25	\$	22.50
Travel allowance (12 hour trips - meal provided by others)	0	0	\$20.00	\$	-
Travel allowance (12 hour trips)	3	2	\$30.00	\$	180.00
Travel allowance (overnight)***	0	0	\$75.00	\$	-
				\$	-
Total Subsistence Cost				\$	202.50
Total Travel Cost				\$	439.00
PRINTING / REPRODUCTION COST					
Type of printing/reproduction	# of Sets	Sheets/Set	Total Sheets	Cost/Sheet	Total
12"x18" Black & White Prints	44	180	7920	\$ 0.31	\$ 2,455.20
24"x36" Black & White Prints	4	180	720	\$ 0.84	\$ 604.80
24"x36" Mylar Prints	11	180	198	\$ 9.60	\$ 1,900.80
8 1/2" x 11" Prints	0	0	500	\$ 0.08	\$ 40.00
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
Total Printing/Reproduction Cost				\$	5,000.80
Communication Cost (telephone, fax, etc.)					Total
					\$ 20.00
Postage Cost (overnight, stamps, etc.)					Total
					\$ 200.00
Other (provide description on next line)					Total
					\$ -
Total Out-of-pocket Expenses					\$ 5,659.80

Comments:

***You must have ALDOT approval for ANY overnight trips of less than 100 miles.