PRE-MEETING AGENDA MOUNTAIN BROOK CITY COUNCIL

CITY HALL PRE-COUNCIL ROOM (A106) 56 CHURCH STREET MOUNTAIN BROOK, AL 35213

MARCH 14, 2016, 6:00 P.M.

- 1. Contracts with Sain Associates-Sam Gaston (See attached information)
 - a. Roundabout Project
 - b. Phase 9 Sidewalks
 - c. Phase 5b Sidewalks
- 2. Public Assembly ordinance and permit amendments-Whit Colvin (This information will be emailed to you later today.)
- 3. Additional tree in sidewalk for English Village-Sally Legg (See attached information. This item may be added to the formal agenda.)
- 4. Paving List for FY-2016-Ronnie Vaughn (See attached information. This item may be added to the formal agenda.)
- 5. Furnace Branch flooding review-Walter Schoel (See attached information. This item may be added to the formal agenda.)
- 6. Ethernet and Internet facilities upgrades at Fire Station #2-Steven Boone (See attached information. This item may be added to the formal agenda.)
- 7. Executive Session



March 1, 2016

Mr. Sam Gaston City Manager City of Mountain Brook 56 Church Street Mountain Brook, AL 35213

Subject:

Cahaba Road/Hwy 280/Lane Park Road/Culver Road Roundabout

Mountain Brook, Alabama

SA#15-0034

Dear Sam.

Please accept this letter as a general understanding of the scope of work for the above referenced project. Attached are the estimated mandays for your review and approval.

General Project Understanding

As part of Sain's feasibility study prepared for the City of Birmingham, City of Mountain Brook, and ALDOT, Sain prepared several alternatives to improve the capacity and operations at the Cahaba Road/Hwy 280/Lane Park Road/Culver Road intersection. The alternative with the most efficient operations was Alternative 1 (concept is attached to this proposal), a large roundabout at the Cahaba Road/Hwy 280/Lane Park Road intersection and a mini-roundabout at Culver Road. At the completion of the feasibility study, we deemed Alternative 1 to most adequately address the purpose and need of the project.

In our recent discussions with ALDOT, we understand Alternative 1 can proceed forward as the "preferred alternative"; however there is a certain amount of risk in doing so as we discussed with you in our meeting on February 2, 2016. The environmental phase of the project will begin with a kick-off meeting with FHWA and ALDOT. FHWA is the approving agency and will determine the level of environmental document for this project. Based on ALDOT's guidance, the project is being scoped for a Categorical Exclusion environmental document. If FHWA deems an Environmental Assessment and additional alternative evaluations be performed, the project will be required to be re-scoped. Sain Associates and our subconsultants are scoping this project based on the Alternative 1 concept attached to this proposal. In the event the public rejects the proposed roundabout layout that result in either changes to this concept or further evaluation of other alternatives, additional services or rescoping of this project may be necessary. Neither ALDOT nor Sain feels these risks are great enough to warrant a different approach to scoping this project.

Our understanding is as follows:

The project will progress on the typical path for a City sponsored project with ALDOT. Reviews
will be performed by ALDOT, although a sit-down 30% review meeting will not be conducted
and is not included in this scope of work.

- A concept overlaid on the topographic survey will be prepared for the public involvement meeting. This concept will be reviewed by the City and ALDOT and will serve as the 30% submittal.
- Since the roundabout will cause impact to the Zoo and Botanical Gardens properties, which are considered Section 4(f) properties, the environmental document must satisfy the requirements of Section 4(f) environmental permitting. At this time we believe there is adequate support for a De Minimus finding and approval by FHWA. It is expected to take 3-12 months to obtain approval of the Section 4(f) De Minimus.
- The roundabout will be designed using AASHTO standards and the ALDOT Roundabout Manual.
- The roundabout will include accommodations for bicycles and pedestrians and will connect these accommodations to other planned projects adjacent to the intersection. Sain will coordinate with the other consultants performing work in the area, including Gresham Smith and Partners on the sidewalk along the Highway 280 ramp, Goodwyn Mills and Cawood and Skipper Consulting on the Lane Parke development, and Walter Shoel Engineering on the drainage design as it relates to the FEMA study they prepared as it is our understanding the closed storm sewer pipe network and culverts require upsizing to meet the flows calculated in their study.
- Sain will contract Michael Wallwork, Roundabout Expert, to assist with the layout of the
 roundabout. His services will include updating the traffic analysis originally performed in the
 feasibility study, assisting with updating the conceptual layout, phasing of the construction,
 and providing quality control throughout the course of the design.
- The roundabout will have impact to existing utilities and will require relocations to be coordinated with the associated utility companies. It is typical for utility companies to prepare their own relocation plans; therefore, we have not included utility design in this scope of work. Once the utility companies provide Sain with their relocation plans, their relocations will be drawn on our plans to confirm all conflicts are addressed.
- The roundabout will require additional Right of Way to be acquired. It is estimated 6 tracts of either permanent Right of Way or temporary construction easement will be acquired.

Our charge under this project includes preparation of an environmental document, surveying services, Right of Way documents, and roadway plans. The design will include the following:

Environmental Document

Sain Associates will prepare a Categorical Exclusion Checklist. In the event it is determined a more comprehensive level of document is required for environmental clearance, a supplemental agreement will need to be executed as part of the scope of this project. Preparation of the Categorical Exclusion Checklist shall include the preparation for and attendance at the Federal Highway Administration Kickoff meeting. The Categorical Exclusion Checklist document shall consist of evaluating:

- A. Project Area Description, Project Purpose and Need, and Proposed Project Description
- B. Land Use
- C. Socioeconomic Impacts
- D. Ecological Impacts
 - a. A threatened and endangered species study will be performed. A copy of the letter from U.S. Fish and Wildlife stating the threatened and endangered species which might exist in the project is attached to this proposal. If this initial study identifies that a suitable habitat for any of the listed species exists in the project area, further study will be

required under a supplemental agreement to this contract. A sub consultant will be required to evaluate threatened and endangered species (see attached proposal from Bhate Environmental)

- E. Natural Features/Resources Impacts
 - a. A sub consultant will be required to evaluate Wetland Impacts (see attached scope and mandays from Bhate Environmental)
 - b. A sub consultant will be required to evaluate Air Quality (see attached scope from Bhate Environmental)
 - c. A sub consultant will be required to evaluate Noise Impacts (see attached proposal from ATC)
- F. Cultural Resources Impacts/Section 4(f) Findings
 - a. A sub consultant will be required to evaluate Historic Properties and Archaeological Sites (see attached proposal from MRS Consulting)
 - b. Right of Way will be acquired from publically owned properties (the Birmingham Zoo and the Birmingham Botanical Gardens). These properties are considered Section 4(f) properties. Discussions with ALDOT indicate that this project is considered a De Minimus use and further evaluation of various improvement alternatives is not required. In the event it is determined otherwise, a supplemental agreement will need to be executed as part of the scope of this project.
- G. Hazardous Materials
 - a. A sub consultant will be required to evaluate Hazardous Materials sites (see attached scope from Bhate Environmental)
- H. Permits Required
- I. Public Involvement Phase
 - a. A project informational packet along with mapping will be provided to ALDOT-ETS for their use in performing Early Coordination with all applicable parties.
 - b. A public involvement meeting will be prepared for and attended by Sain. Sain will prepare a flyer for the City's use in advertising the meeting. ALDOT will be responsible for advertising the meeting in the newspaper. The purpose of this meeting is to show the project layout and seek public comment. The Alternative 1 concept overlaid on the topographic survey will be presented at the meeting. This concept will be referred to as the "preferred" layout as it best satisfies the purpose and need of the project. Comments submitted at this meeting will be summarized and analyzed.

Surveying Services

Sain Associates will perform a Topographic and Right-of-Way survey at the intersection of Lane Park Road, Culver Road, and Cahaba Road, in the City of Mountain Brook, Jefferson County, Alabama. The limits of topographic survey are listed as follows and depicted on the attached Site Map.

- Beginning at the intersection of Cahaba Road and Lane Park Road and running Northwesterly along Cahaba Road for approximately 650' (feet). The coverage area will extend to the Northeast and Southwest Right-of-Way of Cahaba Road.
- Beginning at the intersection of Cahaba Road and Lane Park Road and running Southeasterly along Cahaba Road for approximately 350' (feet). The coverage area will extend to the Northeast and Southwest Right-of-Way of Cahaba Road.
- Beginning at the intersection of Cahaba Road and Lane Park Road and running Northerly along Lane Park Road for approximately 450' (feet). The coverage area will extend to the East and West Right-of-Way of Lane Park Road.

- Beginning at the intersection of Cahaba Road and the Entrance Ramp to Highway 280/Elton
 B. Stephens Expressway and running Southwesterly along Entrance Ramp for approximately
 800' (feet). The coverage area will extend to the North and South Right-of-Way of the
 Entrance Ramp to Highway 280/Elton B. Stephens Expressway.
- Beginning at the intersection of Cahaba Road and Culver Road and running Easterly along Culver Road for approximately 200' (feet). The coverage area will extend to the North and South Right-of-Way of Culver Road
- In the Northwest corner of the intersection of Cahaba Road and the Entrance Ramp to Highway 280/Elton B. Stephens Expressway the limits will extend Northwesterly for approximately 125' (feet) outside the Right-of-Way. (The Birmingham Zoo Property).

The scope of work for the above limits will include the following:

Prior to beginning work, property owner notification letters will be sent to any property owner within or adjacent to the project corridor.

A basic control survey will be performed by the CONSULTANT to locate and identify horizontal and vertical control points which will provide control in the project corridor and will be the basis of subsequent work. Since this is a City sponsored project, the horizontal and vertical control to be utilized during this survey will not be established using ALDOT procedures as described in the ALDOT survey manual. In addition benchmarks will be monumented at intervals not to exceed 1000 feet along the project corridor.

Contours will be shown at 1-foot intervals and based from USGS datum. Spot elevations will be shown in flat areas. A benchmark will be set on site. We will show visible utilities as marked by the Alabama One Call System. Please note that utility locators contracted with the Alabama One Call System often refuse to mark utilities outside the limits of public Right-of-Way. We will coordinate with the Zoo to provide utility plans or mark their utilities that may exist in the project area on their property. Visible drainage structures will be shown indicating top and invert elevations as well as type and size of pipes. Visible improvements will be shown including buildings, walls, fences, sidewalks, curbs, parking areas, paved areas, and landscaped areas. Please note that in wooded areas tree lines will be shown in place of individual trees.

Sain Associates will perform the necessary courthouse research and tie sufficient front property corners of properties within the project corridor in order to graphically plot property lines. The survey will show ownership, deed book, and page number(s) from the latest recorded deed, and any property monumentation located in the field.

In addition, prior to construction beginning, we will stake the project centerline in the field (one (1) time). Rebar with plastic caps or nails with plastic washers will be set on the centerline cardinal points (PCs, PTs, Pls...) and wood stakes or paint will be marked at 50' Stations.

Sain Associates will also collect the coordinates of the bore hole locations performed by Bhate Geosciences for inclusion in their geotechnical report.



Right of Way Services

Upon completion of the survey and the completion of design plans, we will prepare a Right-of-Way map, legal descriptions and tract sketches, for Right-of-Way acquisitions and / or temporary construction easements. The Right-of-Way acquisitions and/or temporary construction easements will be for a maximum of six (6) properties situated within the project corridor. The Right-of-Way map, tract sketches, and deeds will be prepared to ALDOT standards and will be provided to ALDOT and City of Mountain Brook for their use in preparing Right-of-Way estimates, appraisals, and obtaining the required takings and / or temporary construction easements.

Traffic

Sain Associates will collect intersection turning movement traffic counts on a typical weekday during the morning, midday, and afternoon peak hours (7am-9am, 11am-1pm, and 4pm-6pm) at the intersection of US-280 connector and Cahaba Road/Lane Park Road/Culver Road. We will also collect 96-hour bidirectional traffic information (volume, classification, and speed) on US-280 connector, Lane Park Road, Culver Road, and Cahaba Road (north and south of the intersection). The cost to collect traffic information is included in our fee proposal.

Sain Associates will determine historical traffic volume growth from available traffic information (traffic counts, travel demand model output, etc.) at or near the intersection, and use the information to develop an annual growth rate. We will coordinate with the reviewing agencies to gain concurrence on our growth rate determination methodology and results. We will apply the annual growth rate to the traffic volumes we collected in order to forecast 20-year design traffic volumes for the roundabout intersection.

An updated capacity analysis will be conducted with the traffic volumes.

Roadway Contract Plans

Sain Associates will provide contract plans for the above mentioned intersection modification. Our scope of work is as follows:

- A. The development of the plans will follow the procedure as outlined by the Alabama Department of Transportation for a City Transportation project.
- B. Sain Associates will prepare Hydraulic Designs and Supporting Calculations according to approved chapters of the STATE Hydraulic Manual, otherwise, in the absence of direction for the STATE Hydraulic Manual, in conformity with provisions of the Federal Highway Administration (FHWA) Hydraulic Circulars.
- C. Sain Associates will, without compromising safety, select the hydraulic design that is most cost effective from a selection of practicable design alternatives. Designs will comply with the requirements of the FHWA, STATE, City, or Local Community, whichever is most stringent.
- D. The project Plan Assembly will include title, summary of quantities, typical sections, cross sections, drainage sections, plan and profile sheets, and all other sheets required for receipt of bids for work including grading, drainage, base and paving, signing, striping, and erosion and sediment control. Plans will also include a traffic control plan. Drainage structure information will be placed on the plans according to Chapter 2 of the STATE Hydraulic Manual, unless otherwise specified. The plans will show all existing topographical features, natural and manmade, surface and subsurface facilities for the proposed project limits. The contract plans will be completed in detail for all construction in accordance with current design practices of the STATE. Basic computations will be made for alignment and for layout of intersections.
- E. Drainage Section drawings will be provided for all proposed drains, along the project centerline and within the project work limits. Stream bed data acquired from a field survey should be used where applicable to establish and depict the stream bed slope, the drain inlet, the drain outlet, and the profile configuration of the ditch or channel as it ties in to the drain.
- F. Prepare designs and detailed contract plans at a horizontal scale of 1"=50' and vertical scale of 1"=5', or as otherwise approved, completely dimensioned for roadway construction, together with drainage and intersection layouts.
- G. Sain Associates will provide existing utility base sheets to be a part of the respective final plan assembly. Sain Associates has not included relocation plans for any utilities. If other plans are required, these can be provided under a supplemental services agreement.
- H. ALDOT will prepare appraisals and acquire any required easements or R.O.W. for the City.
- Prepare estimates of quantities and construction cost for contract plans, itemized and properly symbolized in accordance with the Standard Specifications using unit prices as supplied or approved by the STATE on projects of comparable work in the general area of the property, if available.
- J. Sain Associates will prepare plans according to the ALDOT Plans Preparation Manual.

- K. A concept plan of the roundabout will be submitted to the City and ALDOT for approval. This submittal will serve as the 30% review and a formal meeting at this stage will not be conducted.
- L. A Plan in Hand and PS&E plan review meetings will be conducted with the Client and the Alabama Department of Transportation. Construction cost estimates will be furnished with PS&E, Construction Bureau, and Office Engineer plan submittals.
- M. The applicable provisions of ALDOT Standard Specifications for Highway Construction, Latest Edition, will apply to all work performed by Sain Associates under this AGREEMENT and Sain Associates will prepare supplemental specifications and special provisions for any needed items not covered by ALDOT Standard Specifications for Highway Construction, Latest Edition.
- N. Sain Associates will prepare a storm water permit and CBMPP document for the City to obtain a permit from ADEM.

Geotechnical Services

See attached proposal from Bhate Geosciences.

Landscaping Design Plans

Nimrod Long and Associates will assist in the conceptual layout of the sidewalk and preparation of the landscaping plans. See attached proposal from Nimrod Long and Associates.

Lighting Design Plans

See attached proposal from SSOE Group.

Exclusions

The following services are not included, but can be performed under a supplemental agreement if deemed necessary: preparation of educational material for how to drive a roundabout or warning of a changed driving condition, calculating or setting of property corners, researching or drawing existing easements, staking or setting of right of way points or irons, setting of metal caps for control or centerline points, ALTA/ACSM or Boundary survey, potholing of utilities, subsurface utility exploration (SUE), additional reviews by ALDOT other than those cited in this proposal, or acquisition or appraisals.

Anticipated cost for design of intersection improvements: \$509,580

Fee breakdown is as follows:

| Environmental Document (including subconsultants) | \$74,388 |
|---|----------|
| Topographic Survey | |
| Right of Way Map, Tract Sketches, and Deeds | |
| Roadway Contract Plans (including subconsultants) | |
| Reimbursable expenses are included in the fee. | , |

If this scope meets with your approval, please forward to ALDOT for their review and approval. If you require any further information, please do not hesitate to contact us.

Sincerely,

Alicia Bailey, P.E.

alicioBailey

Project Manager/Team Leader

James A. Meads, P.E.

President/CEO



Alabama Department of Transportation DRAFT

| Project No. | | |
|--|---|--------|
| County | Jefferson | |
| Description | Cahaba Road/Hwy 280/Lane Park Road roundabout | -40 |
| Scope of Work | Intersection Improvement | 200.51 |
| Project Length | | |
| Consultant | Sain Associates | 453 |
| GRAND TOTA | AL OF FEE PROPOSAL | |
| Categorical Exclusion | \$74 | ,388 |
| Field Surveys | \$41 | ,960 |
| Preliminary Roadway Plans | | \$0 |
| Preliminary Bridge Plans | | \$0 |
| Right-of-Way Map, Tract Sketches and Deeds | | ,765 |
| Roadway Plans | \$380 | ,467 |
| Bridge Plans | | \$0 |
| | GRAND TOTAL FEE \$509 | ,580 |

| Combined overhead rate (%) >>>>>>>>>> | 183.62 |
|--|--------|
| Facilities Capital Cost of Money (if used) >>>>> | 0.56 |

LABOR RATES

| Classification | Daily Rate |
|-----------------------------|------------|
| Project Manager | \$360.96 |
| Engineer | \$434.88 |
| Environmental | \$446.80 |
| Engineering Technician/CADD | \$266.06 |
| Environmental Technician | \$250.00 |
| Clerical | \$188.98 |
| PLS | \$313.84 |
| Survey Crew | \$474.56 |

^{**}Certification of Out-of-Pocket Expenses:

If Out-of-Pocket Expenses are included in this proposal, we hereby certify that these costs are not included in the Combined Overhead Rate and are typically invoiced to all clients as a direct job cost.

| Signed | Date |
|----------------|------|
| | |
| Position/Title | |

| Project No. | |
|-----------------------|---|
| County | Jefferson |
| Description | Cahaba Road/Hwy 280/Lane Park Road roundabout |
| Scope of Work | Intersection Improvement |
| Project Length | 0.30 Miles |

Consultant Sain Associates

| CATEGORICAL EXCLUSION | Engineer | Engineer, Tech. T | Environment | Environ, Tech. | Clerical |
|--|---|-------------------|-------------|----------------|------------------|
| | - 250,000 | | | Marie Tour. | Citrical Control |
| Task A: Mapping and Background Information | AND | | I FLAME S | | |
| A-1 Coordination with Various Agencies | 0.25 | 0.00 | 0.25 | 0.25 | 0.00 |
| A-2 Prepare Purpose and Need Statement and Project Description | 0.25 | 0.00 | 0.50 | 0.25 | 0.00 |
| A-3 Create Project Location Map for Early Coordination | 0.25 | 0.00 | 0.25 | 0.25 | 0.00 |
| A-4 Review Alternatives (Build and No Build) | 1.00 | 0.00 | 1.00 | 0.25 | 0.00 |
| A-5 Prepare Narrative Discussing Preferred Alternative | 0.50 | 0.00 | 0.50 | 0.25 | 0.00 |
| A-6 Prepare for and Attend FHWA kick-off meeting | 0.25 | 0.00 | 1.25 | 1.25 | 0.25 |
| Task A Totals | 2.50 | 0.00 | 3.75 | 2.50 | 0.25 |
| Task B: Section 4(f) De Minimis | | | | | |
| B-1 Prepare Section 4(f) De Minimis Narrative | 0.50 | 0.00 | 2.00 | 1.50 | 0.00 |
| B-2 Submit for Review and Approval by Agencies | 0.00 | | 0.25 | 0.25 | 0.25 |
| B-3 Address Comments and Submit Final | 0.25 | 0.00 | 0.50 | 0.25 | 0.25 |
| | 0.00 | | 0.00 | 0.00 | 0.00 |
| Task B Totals | 0.75 | | 2.75 | 2.00 | 0.50 |
| Task C: Public Involvement | | | | | |
| C-1 Prepare Information for Public Involvement Meeting | 1,00 | 0.50 | 1,50 | 2.50 | 1.50 |
| C-2 Attend Public Involvement Meeting | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| C-3 Summarize and Analyze Public Involvement Meeting Comments | 0.50 | 0.00 | 0.50 | 1.00 | 0.50 |
| Task C Totals | 2.50 | 1.50 | 3.00 | 4.50 | 2.00 |
| Task D: Categorical Exclusion | | | | | |
| D-1 Prepare Categorical Exclusion Checklist/Submit for Review | 0.50 | 0.00 | 2.00 | 1.00 | 0.25 |
| D-2 Address Review Comments/Submit for Final Review and Approval | 0.25 | 0.00 | 1.00 | 0.50 | 0.25 |
| Task D Totals | 0.75 | 0.00 | 3.00 | 1.50 | 0.50 |
| | | | 10000 | | 77 10 17 17 17 |
| TOTALS | 6.50 | 1.50 | 12.50 | 10.50 | 1.25 |

| Project No | ` | |
|--|---------------------------|-------------------------------|
| · | y Jefferson | |
| | · | ane Park Road roundabout |
| | k Intersection Improvemen | |
| · · | h 0.30 Miles | IL. |
| Project Lengt | U.30 IVIIIes | |
| Consultan | nt Sain Associates | |
| | l (Categorical Exclus | ion) |
| | | |
| PERSONNEL COST | | |
| | Man-days x Daily Rate | |
| Project Manager (10% of Eng. & Env.) | 1.90 \$ 360.96 | |
| Engineer | 6.50 \$ 434.88 | \$ 2,826.72 |
| Engineering Technician/CADD | 1.50 \$ 266.06 | |
| Environmental | 12.50 \$ 446.80 | |
| Environmental Technician | 10.50 \$ 250.00 | |
| Clerical | 1.25 \$ 188.98 | \$ 236.23 |
| | Total Direct Labor | \$ 12,357.86 |
| Combined Overhead (%) | 183.62 | \$ 22,691.50 |
| Out-of-Pocket Expenses** | | \$ 584.05 |
| | Sub-Total | \$ 35,633.41 |
| Operating Margin (10%) | | \$ 3,563.34 |
| | Sub-Total | \$ 39,196.75 |
| SUB-CONSULTANTS (attach man-day & fee FRC | OM each sub-consultant; | show total fee for each here) |
| MRS, Inc (Cultural Resources) | | \$ 5,100.00 |
| Bhate Environmental (T&E, Stream/Wetland, Haz M | fat, Air) | \$ 16,500.00 |
| ATC (Noise) | | \$ 11,850.00 |
| | | \$ |
| | | \$ - |
| | | \$ |
| Subconsultant Administration Expense (5%) | | \$ 1,672.50 |
| | Sub-Total | \$ 74,319.25 |
| | | |
| Facilities Capital Cost of Money (% of Direct Labor) | 0.56 | \$ 69.20 |

| Project No |). | | | | | <u></u> |
|--|--------------|----------------------|----------------------|---------------------------|---------|---------|
| | y Jefferson | | | | • | |
| II . | | oad/Hwv 280/ | Lane Park Ro | ad roundahou | - It | |
| Scope of Wor | | | | TOGINGDOU | - | |
| 1 | | | 111 | | | |
| Project Lengt | n 0.30 | Miles | | | | |
| 0 | | -1-4 | | | | |
| Out-of-pocket Ex | t Sain Asso | | LEvelusion | 1 | | |
| TRAVEL COST | xperises (| oategorica | LACIUSION | TO AND THE REAL PROPERTY. | - 27 | |
| Mileage Cost | | Trips | Miles/Trip | \$/Mile | - | Total |
| FHWA Kickoff Meeting | | 1 | 195 | \$0.540 | \$ | 105.30 |
| Site Visit | | 2 | 20 | \$0.540 | | 21.60 |
| Public Involvement Meeting | | 1 | 10 | \$0.540 | | 5.40 |
| | | 0 | Ó | \$0.540 | _ | |
| | | | Total Mileage | | \$ | 132.30 |
| Subsistence Cost | | Days | # People | \$/Day | | Total |
| Travel allowance (6 hour trips) | | | 2 | \$11.25 | \$ | 22.50 |
| Travel allowance (12 hour trips - meal provided by | others) | 0 | 0 | \$20.00 | | - |
| Travel allowance (12 hour trips) | | 0 | Ó | \$30.00 | | - 9 |
| Travel allowance (overnight)*** | | | | | | - 3 |
| | | | CONTRACTOR OF | 7 10 pm | \$ \$ | - 5 |
| | | | Total Subsist | tence Cost | \$ | 22.50 |
| 13 (31)) | | | Total Travel | Cost | \$ | 154.80 |
| PRINTING / REPRODUCTION COST | | The same of | | | 8-1 | |
| Type of printing/reproduction | # of Sets | Sheets/Set | Total Sheets | Cost/Sheet | | Total |
| Color Roll Maps for FHWA Kickoff Meeting | 2 | | 2 | \$ 12.00 | \$ | 24.00 |
| Section 4(f) De Minimis Submittal | 15 | 5 | 75 | \$ 0.25 | \$ | 18.75 |
| CE Checklist Draft Submittal | 15 | 15 | 225 | \$ 0.25 | \$ | 56.25 |
| CE Checklist Final Submittal | 15 | 15 | 225 | \$ 0.25 | \$ | 56.25 |
| Color Roll Maps for Public Involvement Meeting | 2 | | 2 | \$ 12.00 | \$ | 24.00 |
| | 0 | 0 | 0 | \$ - | \$ | - 13 |
| Marie III. | | Total Printin | g/Reproducti | on Cost | \$ | 179.25 |
| Communication Cost (telephone, fax, etc.) | PARAMETER ST | | | N.S. paid of | | Total |
| | | | | | \$ | |
| Postage Cost (overnight, stamps, etc.) | SECTION OF R | | | | Me s | Total |
| Shipping and Handling for Submittals | | <u> </u> | | | \$ | 250.00 |
| Other (provide description on next line) | | | | | | Total |
| | | | | | \$ | |
| | | Total Ou | t-of-pocket Ex | xpenses | \$ | 584.05 |
| Comments: | | Total Ou | t-of-pocket Ex | xpenses | \$ | 584. |

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

| Project No. | |
|--|---------|
| County Jefferson | |
| Description Cahaba Road/Hwy 280/Lane Park Road rou | ndabout |
| Scope of Work Intersection Improvement | |
| Project Length 0.30 Miles | |

Consultant Sain Associates

| FIELD SURVEY | PLS | Crew | Tech/CADD | Clerical |
|--|------|--|-----------|----------------|
| Based on a 0 Man Crew | | | | |
| Task A: Mobilization and Basic Control Survey | | THE RESERVE OF THE PARTY OF THE | | |
| A-1 Mobilize/Demobilize | 0.25 | 0.50 | 0.00 | 0.00 |
| A-2 Contact Property Owners | 1.00 | 0.00 | 0.00 | 0.50 |
| A-3 Perform Basic Control Survey and set capped rebar | 0.25 | 1.50 | 0.00 | 0.00 |
| A-4- Conduct On-site Inspection | | | | |
| | | | | |
| Task A Totals | 1.50 | 2.00 | 0.00 | 0.50 |
| Task B: Project Alignment and Profile | | | | |
| B-1 Run Closure of Basic Control Survey/Prepare Closure Diagram | 0.50 | 0.00 | 0.00 | 0.00 |
| B-2 Establish Centerline and set Pls, PCs, and PTs/Obtain Ground Profile | 1.00 | 1.50 | 0.25 | |
| B-3 Obtain Topographic Data | 1.00 | 8.00 | 4.00 | 0.00 |
| | | | | <u> </u> |
| | | | | |
| Task B Totals | 2.50 | 9.50 | 4,25 | 0.00 |
| | | | | |
| Task C: Supplemental Control Surveys and Data Gathering | | CALL STORY OF STREET | | REAL PROPERTY. |
| C-1 Traverse-Cross-Roads-and-Railreads | | | | |
| C-2 Stream Topography & Cross Sections/Complete HYD-100 & 101 Forms | 0.25 | | 1.00 | |
| C-3-Define Drainage Areas/Prepare-Schematic Drainage-Map | | | | |
| C-4-Obtain Cross-Sections at 20 Meter Intervals and Ground-Break-Points | | | | |

| FIELD SURVEY | | | | |
|---|------|-------|-----------|-----------|
| FIELD SURVEY | PLS | Crew | Tech/CADD | Clerical |
| Task C Totals | 0,25 | 0.00 | 1.00 | 0.00 |
| Table O Totals | 0.23 | 0.001 | 1.00 | 0.00 |
| Task D: Utility Surveys, Drainage Sections and Compilation of Data | | | | |
| D-1 Identify/Locate Utilities | 0.50 | 1.50 | 0.50 | 0.00 |
| D-1 Coordination with Zoo for identification of utilities on their property | 0.25 | 0.50 | 0.25 | |
| D-2 Obtain Hydrological Location Survey | | | | |
| D-3 Tie-All-Available Section Corners & All Available Front Corners | | | | . <u></u> |
| of Affected Properties to Project Centerline | 2.00 | 2.00 | 1.00 | 0.00 |
| D-4 Obtain Copies of Latest Deeds | 1.00 | 0.00 | 0.00 | 0.00 |
| D-5 Set & Reference Pls, PCs, POTs, POCs, & other critical points | = | | | |
| D-6 Reduce Survey Field Notes | 1.00 | 0.00 | 0.50 | 0.00 |
| D-7 Submit Work for Review/Sealed Mylar Plot-of-Accepted Field Map | | | | |
| D-8 Collect bore holes performed by geotech | 0.25 | 1.00 | 0.50 | |
| Task D Totals | 5.00 | 5.00 | 2.75 | 0.00 |
| TOTALS | 9.25 | 16.50 | 8.00 | 0.50 |

| Project No | - | | |
|--|--|-----------------|--------------------|
| <u>-</u> | Jefferson | - | |
| | Cahaba Road/Hwy | 280/Lane Park | Boad roundahout |
| | Intersection Improve | | TORG TOGTIORDOGE |
| <u>-</u> | 0.30 Miles | mem | · |
| Project Lengti | 1Willes | | |
| Consultan | t Sain Associates | | |
| Fee Prop | osal (Field Surve | ∋у) | |
| PERSONNEL COST | | | |
| | Man-days x Daily F | Rate | |
| Project Manager (10% of PLS) | | .96 \$ | 335.69 |
| PLS | | .84 \$ | 2,903.02 |
| Survey Crew (see man-day sheet) | | .56 \$ | 7,830.24 |
| Engineering Technician/CADD | 8.00 \$ 266 | T | 2,128.48 |
| Clerical | | .98 \$ | 94.49 |
| | Total Direct Labo | | 13,291.92 |
| Combined Overhead (%) | 183.62 | \$ | 24,406.62 |
| Out-of-Pocket Expenses** | | \$ | 379.60 |
| | Sub-Tot | al \$ | 38,078.14 |
| Operating Margin (10%) | | \$ | 3,807.81 |
| | Sub-Tot | al \$ | 41,885.95 |
| SUB-CONSULTANTS (attach man-day & fee FRO | M each sub-consults | ent: show total | fee for each here) |
| | | \$ | |
| | | \$ | |
| | · . | \$ | |
| Subconsultant Administration Expense (5%) | - <u>- </u> | \$ | |
| | Sub-Tot: | | 41,885.95 |
| Facilities Capital Cost of Money (% of Direct Labor) | 0.56 | \$ | 74.43 |
| | TOTAL F | EE S | 41,960.38 |

| Project No. | | | | | | | | |
|---|---------------|----------------------|----------------------|------------|----------|---------|--|--|
| County | Jefferson | | | | | , | | |
| Description Cahaba Road/Hwy 280/Lane Park Road roundabout | | | | | | | | |
| Scope of Work | Intersection | n Improveme | nt | | | | | |
| Project Length | | Miles | | | | | | |
| , , , | | | | | | | | |
| Consultant | Sain Asso | ciates | | | | | | |
| Out-of-pocke | et Expens | ses (Field : | Survey) | 1. pp 1. m | | | | |
| TRAVEL COST | | | | | | 234 | | |
| Mileage Cost | | Trips | Miles/Trip | \$/Mile | 1000 | Total | | |
| | | 12 | 20 | \$0.540 | | 129.60 | | |
| | | 0 | 0 | \$0.540 | | - | | |
| | | 0 | 0 | \$0.540 | | - | | |
| | | 0 | 0 | \$0.540 | | 400.00 | | |
| | | | Total Mileage | Cost | \$ | 129.60 | | |
| 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 | | - | | | |
| | 3 | H 2-2-2-1 | Total Subsist | ones Cost | \$ \$ | - | | |
| | | | Total Travel (| | \$ | 129.60 | | |
| | | V . T. MOVIE AND THE | Total Haver | 303t | _ | 125.00 | | |
| PRINTING / REPRODUCTION COST Type of printing/reproduction | # of Sets | Chanta/Cat | Total Sheets | Cost/Sheet | | Total | | |
| Type of printing/reproduction | # OI 2612 | 0 | 0 | \$ - | \$ | 1 Otal | | |
| | 0 | 0 | 0 | \$ - | \$ | - | | |
| | 0 | 0 | 0 | \$ - | \$ | 9 | | |
| | 0 | 0 | 0 | \$ - | \$ | - | | |
| | 0 | 0 | Ó | \$ - | \$ | - | | |
| | 0 | 0 | Ò | \$ - | \$ | Ē | | |
| | | Total Printin | g/Reproducti | on Cost | \$ | | | |
| Communication Cost (telephone, fax, etc.) | | ATT LANGE TO ST | | | | Total | | |
| | | | | | \$ | Kert by | | |
| Postage Cost (overnight, stamps, etc.) | A 1 Y W 12-11 | 17710-75 | · rowall my vix | | | Total | | |
| , , , , , , , , , , , , , , , , , , , | | | | | \$ | (4345 F | | |
| Other (provide description on next line) | destruiche en | | office of the second | | 100000 | Total | | |
| Courthouse Research, Field St | upplies (Rei | bar, Stakes, F | Paint) | | \$ | 250.00 | | |
| | <u> </u> | | | <u> </u> | | 14 4 4 | | |
| | | Total Ou | t-of-pocket Ex | kpenses | \$ | 379.60 | | |
| Comments: | | | | | | | | |
| | | | | | | | | |
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^{***}You must have ALDOT approval for ANY overnight trips of less than 100 miles.

| | | | | 10070 | | | |
|------------------|----------------------|------------------|------------------|------------|------------|----------|---|
| | Project No. | | F-7-74,78,157,75 | , , , | | | |
| | | Jefferson | | | | | |
| | | Cahaba Road/ | Hwv 280/La | ne Park Ro | ad roundab | out | |
| | Scope of Work | Intersection Im | provement | | | | |
| | Project Length | | Miles | | | | |
| | , | 3.33 | | | | | |
| | Consultant | Sain Associate | | | | | |
| | | Cair r toocolate | | | ! | | |
| | Supporting Do | cumentati | ion for F | ROW Fe | e Propo | sal | |
| Date of Research | Parcel Tax ID # | # of Tracts | | | | | |
| 2/16/2016 | 3 00 08 2 002 001.00 | | | | | | |
| 2/16/2016 | 3 00 08 2 002 010.00 | | | | | | |
| 2/26/2016 | 3 00 08 2 001 007.00 | | | | | | |
| 2/26/2016 | 3 00 08 2 001 006.00 | | | | | | |
| 2/26/2016 | 3 00 08 2 003 004.00 | | | | | | |
| 2/26/2016 | 3 00 08 2 003 005.00 | 1 | | | | | |
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6

Total Tracts:

TOTALS

0.00

0.00

0.00

| Project No. | | | |
|---|----------|-----------|----------|
| County Jefferson | | | |
| Description Cahaba Road/Hwy 280/Lane Park Road ro | undabout | | |
| Scope of Work Intersection Improvement | | | |
| Project Length 0.30 Miles | | | |
| Consultant Sain Associates | | | |
| ROW Map, Tract Sketches and Deeds | Engineer | Tech/CADD | Clerical |
| Estimated number of tracts= 6 | | | |
| Task A: Right-of-Way Map | 2.00 | 2.50 | 0.00 |
| Task B: Tract Sketches | 1.50 | 2.00 | 0.00 |
| Task C: Deeds | 1.50 | 2.00 | 0.00 |

0.00

0.00

5.00

0.00

0.00

6.50

Note: A "Tract" is all property of a single owner acquired by ALDOT. This includes all parcels, drainage easements, construction easements, etc.

| Project No. | | | | | |
|--|----------------|------|------------------|--------------|----------------------|
| County | Jefferson | | | | |
| Description | Cahaba Ro | ad/l | lwy 280/L | ane Park Ro | ad roundabout |
| Scope of Work | | | | | |
| Project Length | | | | | |
| | | • | | | |
| Consultant | Sain Assoc | iate | S | | |
| Fee Proposal (ROW | | | | & Deeds |) |
| | To be a second | | | | |
| PERSONNEL COST | | | | | |
| | Man-days | | | | 100.40 |
| Project Manager (10% of Eng.) | 0.50 | _ | 360.96 434.88 | | 180.48 |
| Engineer Engineering Technician/CADD | | _ | 266.06 | | 2,174.40 1,729.39 |
| Clerical | 0.00 | _ | | \$ | 1,729.39 |
| Clerical | Total Dir | | | \$ | 4,084.27 |
| Combined Overhead (%) | 183.62 | | Labor | \$ | 7,499.54 |
| Out-of-Pocket Expenses** | 100.02 | | | \$ | - |
| | | Sub | o-Total | \$ | 11,583.81 |
| Operating Margin (10%) | | | | \$ | 1,158.38 |
| | | Sub | o-Total | \$ | 12,742.19 |
| SUB-CONSULTANTS (attach man-day & fee FRO) | M each sub | -cor | sultant: | show total f | ee for each here) |
| | | | | \$ | |
| | | | | \$ | |
| | | | į. | \$ | |
| Subconsultant Administration Expense (5%) | | | | \$ | • |
| | | Sub | o-Total | \$ | 12,742.19 |
| Facilities Capital Cost of Money (% of Direct Labor) | 0.56 | | | \$ | 22.87 |
| | | TO | TAL FEE | \$ | 12,765.06 |

^{**}See Grand Total Fee sheet

| Project No | | | | | | | | | |
|--|---|-----------------------------------|--|-------------------|----------|-------------------------------|--|--|--|
| County | Jefferson | | | | | | | | |
| Description | Description Cahaba Road/Hwy 280/Lane Park Road roundabout | | | | | | | | |
| Scope of Work | | | | | | 7 | | | |
| Project Length | | Miles | | | | | | | |
| , | | | | | | | | | |
| Consultan | t Sain Asso | ciates | | | | | | | |
| Out-of-pocket Expenses | _ | | Sketches & | Deeds) | _ | | | | |
| TRAVEL COST | | | | | | | | | |
| Mileage Cost | | Trips | Miles/Trip | \$/Mile | | Total | | | |
| | | 0 | 0 | \$0.540 | \$ | - | | | |
| | | 0 | 0 | \$0.540 | \$ | | | | |
| | | 0 | 0 | \$0.540 | | | | | |
| | | 0 | 0 | \$0.540 | _ | | | | |
| | | | Total Mileage | Cost | \$ | - | | | |
| Subsistence Cost | | Days | # People | \$/Day | | Total | | | |
| Travel allowance (6 hour trips) | | 0 | Ö | \$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 Subsist | | \$ | - | | | |
| | | | Total Travel (| ost | \$ | - | | | |
| PRINTING / REPRODUCTION COST | | | | | | | | | |
| Type of printing/reproduction | # of Sets | | Total Sheets | | PEG. | Total | | | |
| | 0 | 0 | 0 | \$ - | \$ | - | | | |
| | 0 | 0 | 0 | \$ | \$ \$ | | | | |
| * | 0 | 0 | 0 | \$ | \$ | | | | |
| | 0 | 0 | 0 | š - | \$ | | | | |
| | Ó | 0 | 0 | s I | \$ | - | | | |
| | | Charles and a second-line | g/Reproduction | on Cost | \$ | | | | |
| Communication Cost (telephone, fax, etc.) | | | | | | Total | | | |
| Communication Cost (telephone, tax, etc.) | | · · · · · · · · · · · · · · · · · | | | \$ | (Otal | | | |
| D | | | | Electronia e esta | 7 | Teas | | | |
| Postage Cost (overnight, stamps, etc.) | | | The state of the s | | \$ | Total | | | |
| | | | | L | 4 | any roll of the Park State of | | | |
| Other (provide description on next line) | | | | and the second | <u> </u> | Total | | | |
| | | | <u>-</u> | | \$ | | | | |
| | | Total Ou | t-of-pocket Ex | penses | \$ | - | | | |
| Comments: | | | | · | | | | | |
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^{***}You must have ALDOT approval for ANY overnight trips of less than 100 miles.

Project Number CPMS # CPMS # Description Cahaba Road/Hwy 280/Lane Park Road roundabout

Scope of work Intersection Improvement Length 0.30 miles

Consultant Sain Associates

| Consultant Sain Associates | | | | | | | |
|--|---------------|--------------------|--------------------|---------|-------------------|--|--|
| DO A DIMANA DI ANIO | NO OF | ESTIMATED MAN-DAYS | | | | | |
| ROADWAY PLANS | SHEETS | | NGINEER TECHNICIAN | | | | |
| SHEET TITLE | 1 | SHEET | | | | | |
| | NO OF | F | STIMATED | MAN-DAY | S | | |
| ROADWAY PLANS | SHEETS | ENGI | | TECHI | | | |
| | SILECTS | SHEET | TOTAL | | | | |
| SHEET TITLE | 1.55 | | | SHEET | TOTAL | | |
| TITLE SHEET | 1.00 | 0.07 | 0.07 | 0.13 | 0.13 | | |
| INDEX SHEET | 1.00 | 0.07 | 0.07 | 0.13 | 0.13 | | |
| GEOMETRIC LAYOUT/SURVEY CONTROL | 2.00 | 0.07 | 0.14 | 0.13 | 0.26 | | |
| PROJECT NOTE SHEET (Project) | 1.00 | 0.13 | 0.13 | 0.50 | 0.50 | | |
| PROJECT NOTE SHEET (TCP) | 1.00 | 0.07 | 0.07 | 0.13 | 0.13 | | |
| PROJECT NOTE SHEET (Signage) | 1.00 | 0.13 | 0.13 | 0.25 | 0.25 | | |
| PROJECT NOTE SHEET (Signals) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| PROJECT NOTE SHEET (ITS) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| PROJECT NOTE SHEET (Lighting) | 1.00 | 0.07 | 0.07 | 0.06 | 0.06 | | |
| PROJECT NOTE SHEET (Traffic Loops) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| PLANS LEGEND & ABBREVIATIONS | 2.00 | 0.07 | 0.14 | 0.13 | 0.26 | | |
| TYPICAL SECTIONS | Tarrior Salar | | | 1,12,4 | | | |
| Main Roadway | 6.00 | 0.50 | 3.00 | 1.00 | 6.00 | | |
| Cross Roads | 2.00 | 0.50 | 1.00 | 1.00 | 2.00 | | |
| Detour & Misc. | 1.00 | 0.25 | 0.25 | 1.00 | 1.00 | | |
| Ramps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Ditches | 1.00 | 0.25 | 0.25 | 1.00 | 1.00 | | |
| Roundabout typical details | 2.00 | 0.25 | 0.50 | 1.00 | 2.00 | | |
| SUMMARY SHEET | 2.00 | 0.23 | 0.30 | 1.00 | 2.00 | | |
| Main Summary | 2.00 | 0.50 | 1.00 | 1.00 | 2.00 | | |
| SUMMARY BOX SHEETS | 2.00 | 0.50 | 1.00 | 1.00 | 2.00 | | |
| SUMMART BUX SHEELS | 1 400 | 0.50 | 0.50 | 4.00 | 4.00 | | |
| Roadway Drainage (non-culvert) | 1.00 | 0.50 | 0.50 | 1.00 | 1.00 | | |
| Culvert Extension, New Culvert | 0.50 | 0.25 | 0.13 | 0.50 | 0.25 | | |
| Bridge Culvert Extension, New Bridge Culvert | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Guardrait/End Anchors | 0.25 | 0.13 | 0.03 | 0.25 | 0.06 | | |
| Slope Paving (Under Bridges) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Side Drain Pipe | 0.25 | 0.05 | 0.01 | 0.25 | 0.06 | | |
| Signing | 0.75 | 0.13 | 0.10 | 0.50 | 0.38 | | |
| Base & Pavement | 0.50 | 0.13 | 0.07 | 0.25 | 0.13 | | |
| Bridge | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Striping & Pavement Markings | 0.75 | 0.25 | 0.19 | 1.00 | 0.75 | | |
| Curb & Gutter | 0.50 | 0.13 | 0.07 | 0.25 | 0.13 | | |
| Bridge End Slabs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Roadway Lighting | 1.00 | 0.13 | 0.13 | 0.25 | 0.25 | | |
| Signals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| ITS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Sidewalk | 0.50 | 0.50 | 0.25 | 1.00 | 0.50 | | |
| Stope Paving (Ditches)/Ditch Summary | 0.50 | 0.25 | 0.13 | 1.00 | 0.50 | | |
| Concrete Safety Barrier | 0.00 | | 0.00 | | | | |
| Retaining Wall | 0.50 | | | | 0.50 | | |
| Misc. Boxes | 1.00 | | | | 1.00 | | |
| Erosion Control | 0.50 | | | | 0.50 | | |
| Removal Items | 1.00 | | | | 0.50 | | |
| Utility Relocation | 0.50 | | | 0.50 | 0.25 | | |
| Roundabout truck apron | 0.50 | | | | 0.25 | | |
| PLAN & PROFILE | 1 0.30 | 0.25 | 0.13 | 0.50 | 0.43 | | |
| | | | | | The second second | | |
| | 1 4.00 | 4.00 | 4.00 | 0.00 | 0.00 | | |
| Main Roadway Crossroads | 1.00 | | | | 2.00 4.00 | | |

| ROADWAY PLANS | THATAY IN ARIC: | | | ED MAN-DAYS | | | |
|---|-----------------|------------|--------|-------------|----------------------|--|--|
| | SHEETS | ENGI | | TECH | | | |
| SHEET TITLE | | SHEET | TOTAL | SHEET | TOTAL | | |
| Roundabouts details | 2.00 | 1.50 | 3.00 | | 5.00 | | |
| Detours | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Sidewalks | 1.00 | 0.75 | 0.75 | 1.50 | 1.50 | | |
| Retaining Walls | 1.00 | 1.00 | 1.00 | 2,00 | 2.00 | | |
| PAVING LAYOUT (includes striping) | 4174 | 549 B | 1000 | | | | |
| Main Roadway | 1.00 | 0.50 | 0.50 | 1.00 | 1.00 | | |
| Crossroads | 2.00 | 0.50 | 1.00 | 1.00 | 2.00 | | |
| Intersections details | 2.00 | 0.50 | 1.00 | 1.00 | 2.00 | | |
| | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| INTERCHANGES | | 11,778 | E TOWN | | District of the last | | |
| Geometrics | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Ramps Profiles | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Site Grading | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Cross Sections | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Signing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Ramp Gore Details | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| TRAFFIC CONTROL | | (Autom) | 1000 | | | | |
| Sequence of Construction | 1.00 | 0.25 | 0.25 | 0.50 | 0.50 | | |
| Summary & Items | 1.00 | 0,25 | 0.25 | 0.50 | 0.50 | | |
| Typical Section Sketches | 9.00 | 0.25 | 2.25 | 1.00 | 9.00 | | |
| Layout Sheets (signs, devices, shifts, etc.) | 9.00 | 0.75 | 6.75 | 1.25 | 11.25 | | |
| Special Drawings | 5.00 | 0.07 | 0.35 | 0.13 | 0.65 | | |
| i openia oravnigo | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| <u>-</u> | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| SIGNING | 0.001 | 0.001 | 0.00 | 0.001 | 0.00 | | |
| Sign Layout | 2.00 | 0.50 | 1.00 | 1.00 | 2.00 | | |
| Sign X-Section | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Sign Panel Details | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Soils Data Sheets (provided by ALDOT) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Oolis Data Officers (provided by ALDOT) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| SIGNALIZATION | 1 0.00 | 0.001 | 0.00 | 0.001 | 0.00 | | |
| Signal Layout and Traffic Analysis (1 per site) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Traffic Counts (1 per site) | 0.00 | 0.00 | 0.25 | 0.00 | 0.50 | | |
| Signal Warrant Analysis (1 per site) | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | | |
| Soils Data Sheets (provided by ALDOT) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Capacity Analysis review | 0.00 | 0.00 | 1.50 | 0.00 | 1.00 | | |
| Traffic Forecasts | 0.00 | 0.00 | 0.50 | 0.00 | 2.00 | | |
| ITS | 0.001 | 0.001 | 0.501 | 0.001 | 2.00 | | |
| | 0.001 | 0.00 | 0.00 | 0.001 | 0.00 | | |
| Systems Engineering | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Special Study | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Legend Secolal Potalla | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Special Details | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| ITS Layouts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Optical Fiber Splice Charts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Fiber - Cable Routing Diagram | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Specifications | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| LIGHTING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| LIGHTING | | The second | 1 | | | | |
| Plan Layout | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |

| POADWAY PLANS SHEET TITLE Demo Plans Special Details Solis & Passive Pressure (provided by ALDOT) Oligity Locations - Existing Utility Locations - Existing Utility Locations - Existing Utility Locations - Proposed Utility Locations - Proposed Ocoordination with Utility Owners (5 Owners) - 30% Coordination with Utility Owners (5 Owners) - 65% Meeting with Utility Owners (5 Owners) - 65% Meeting with Utility Owners (5 Owners) - 90% Utility Coordination Letter DRAINAGE SECTIONS Pipe & Culvert X-Sect./Hydraulic Computations Hydraulic Data Sheet 1.00 Details 1.00 Coordination with FEMA study O.00 Soll Boring Logs Soll Boring Logs Soll Profile 1.00 EROSION CONTROL Legend & Sequence Phased Sheets (Phase II) Phased Sheets (Phase III) CBMPP & NOI 1.00 ROADWAY CROSS SECTIONS Main Roadway Crossroads Formal Sheets (Phase III) CBMPP & NOI 1.00 ROADWAY CROSS SECTIONS Main Roadway Toosroads Earthwork Balancing (Phased) 2.00 REVIEW COMMENTS 30% Review Concept Layout update Revisions following Public Involvement Site Visits (3) Meeting with Botanical Garden Meeting with Chamber for Village stores Meeting with Botanical Garden Meeting with Chamber for Village stores Meeting with Subconsultants Meeting with Subconsultants Meeting with Chamber for Village Stores Meeting with Chamber for Village Stores | OF ESTIMATE | | D MAN-DAYS | | |
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| Plan-in-Hand Inspection PS&E Inspection Cost Estimates Design Hearing Concept Layout update Revisions following Public Involvement Site Visits (3) Meeting with Zoo (2) Meeting with Botanical Garden Meeting with Botanical Garden Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL | | 0.00 | | 0.00 | |
| PS&E Inspection Cost Estimates Design Hearing Concept Layout update Revisions following Public Involvement Site Visits (3) Meeting with Zoo (2) Meeting with Botanical Garden Meeting with Bay Poyner Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL | | 2.00 | | 4.00 | |
| Cost Estimates Design Hearing Concept Layout update Revisions following Public Involvement Site Visits (3) Meeting with Zoo (2) Meeting with Botanical Garden Meeting with Ray Poyner Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with Subconsultants Meetings with City (3) SUB-TOTAL | | 2.00 | | 2.00 | |
| Design Hearing Concept Layout update Revisions following Public Involvement Site Visits (3) Meeting with Zoo (2) Meeting with Botanical Garden Meeting with Ray Poyner Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with Subconsultants Meetings with City (3) SUB-TOTAL | | 2.00 | | 2.00 | |
| Design Hearing Concept Layout update Revisions following Public Involvement Site Visits (3) Meeting with Zoo (2) Meeting with Botanical Garden Meeting with Ray Poyner Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with Subconsultants Meetings with City (3) SUB-TOTAL | | | ATTION OF THE PARTY OF THE PART | | |
| Concept Layout update Revisions following Public Involvement Site Visits (3) Meeting with Zoo (2) Meeting with Botanical Garden Meeting with Ray Poyner Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL | | 1.00 | | 1.50 | |
| Revisions following Public Involvement Site Visits (3) Meeting with Zoo (2) Meeting with Botanical Garden Meeting with Ray Poyner Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL | | 0.00 | | 0.00 | |
| Site Visits (3) Meeting with Zoo (2) Meeting with Botanical Garden Meeting with Ray Poyner Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL | | 1.50 | | 3.00 | |
| Meeting with Zoo (2) Meeting with Botanical Garden Meeting with Ray Poyner Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL | | 1.50 | | 3.00 | |
| Meeting with Botanical Garden Meeting with Ray Poyner Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL | | 3.00 | | 3.00 | |
| Meeting with Ray Poyner Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL | | 2.00 | | 1.00 | |
| Meeting with Lane Park development Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL 114.50 | | 1.00 | | 0.50 | |
| Meeting with Chamber for Village stores Meeting with gas station Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL 114.50 | | 1.00 | | 0.50 | |
| Meeting with gas station Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL 114.50 | | 1.00 | | 0.50 | |
| Coordination with consultants in area Meeting with subconsultants Meetings with City (3) SUB-TOTAL 114.50 | | 1.00 | | 0.50 | |
| Meeting with subconsultants Meetings with City (3) SUB-TOTAL 114.50 | | 1.00 | | 0.50 | |
| Meetings with City (3) SUB-TOTAL 114.50 | | 4.00 | | 2.00 | |
| SUB-TOTAL 114.50 | | 2.00 | | 2.00 | |
| | | 3.00 | | 3.00 | |
| 10% Supervision | | 104.33 | | 146.52 | |
| | | 10.43 | | | |
| | All Illiania and a second | 1 | annamanana a | | |
| TOTALS 114.50 | | 104.33 | | 146.52 | |

15

| Project N | o. | | |
|---|----------------------------|---------------|------------------|
| Coun | ty Jefferson | | · |
| Description | on Cahaba Road/Hwy 280/L | ane Park Ro | ad roundabout |
| | rk Intersection Improvemen | | |
| • | th 0.30 Miles | * | |
| | | | |
| Consulta | nt Sain Associates | | |
| Fee Prop | osal (Roadway Plans |) | |
| PERSONNEL COST | | | |
| PERSONNEL COST | Мап-days x Daily Rate | | |
| Project Manager (10% of Eng.) | 10.43 \$ 360.96 | \$ | 3,764.81 |
| Engineer | | \$ | 45,371.03 |
| Engineering Technician/CADD | 146.52 \$ 266.06 | \$ | 38,983.11 |
| Clerical | 10.00 \$ 188.98 | \$ | 1,889.80 |
| | Total Direct Labor | \$ | 90,008.75 |
| Combined Overhead (%) | 183.62 | \$ | 165,274.07 |
| Out-of-Pocket Expenses** | | \$ | 9,176.38 |
| | Sub-Total | \$ | 264,459.20 |
| Operating Margin (10%) | | \$ | 26,445.92 |
| | Sub-Total | \$ | 290,905.12 |
| SUB-CONSULTANTS (attach man-day & fee FR | OM each sub-consultant: | show total fe | e for each here) |
| Bhate Geosciences Corporation (Geotech) | | \$ | 25[681.00 |
| Michael Wallwork (Roundabout Expert) | | \$ | 9,300.00 |
| Southern Traffic Services (Traffic Counts) | | \$ | 7,400.00 |
| Nimrod Long and Associates (Landscape Plans) | | \$ | 36,436.00 |
| SSOE Group (Lighting Plans) | \$ | 6,000.00 | |
| Subconsultant Administration Expense (5%) | | \$ | 4,240.85 |
| | Sub-Total | \$ | 379,962.97 |
| Facilities Capital Cost of Money (% of Direct Labor | 0.56 | \$ | 504.05 |
| | TOTAL FEE | . | 380,467.02 |

^{**}See Grand Total Fee sheet

| Project No. | | | | | | |
|--|------------|----------------------|----------------|--|--------|----------------|
| · · · · · · · · · · · · · · · · · · · | Jefferson | | . | | | |
| · | | nad/Hwy 280/ | Lane Park Roa | ad roundahout | ŀ | |
| Scope of Work | | | | ad Touridabou | • | |
| | • | | TIL . | | | |
| Project Length | 0.30 | Miles | | | | |
| | | | | | | |
| Consultant | | | | | | |
| Out-of-pocket | Expense | s (Roadwa | ay Plans) | | | |
| TRAVEL COST | | | | | 2gri | |
| Mileage Cost | | Trips | Miles/Trip | \$/Mile | ħ. | Total |
| Site Visits | | 3 | 20 | \$0.540 | \$ | 32.40 |
| Plan in Hand | | 1 | 26 | \$0.540 | \$ | 14.04 |
| PS&E | | 1 | 26 | \$0.540 | \$ | 14.04 |
| Meetings with property owners, City, consult | tants | 10 | 20 | \$0.540 | \$ | 108.00 |
| | | | Total Mileage | Cost | \$ | 168.48 |
| Subsistence Cost | | Days | # People | \$/Day | 11 100 | Total |
| Travel allowance (6 hour trips) | | 5 | 2 | \$11.25 | \$ | 112.50 |
| 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 | | _ |
| Transcrame (everyngin) | | | | 4.0,00 | \$ | 0.0 |
| | | | Total Subsist | ence Cost | \$ | 112.50 |
| Total Travel Cost \$ | | | | | | |
| PRINTING / REPRODUCTION COST | | | | | 201 | Vertex History |
| Type of printing/reproduction | # of Sets | Sheets/Set | Total Sheets | Cost/Sheet | | Total |
| Plan in Hand | 25 | 100 | 2500 | \$ 0.52 | \$ | 1,300.00 |
| PS&E | 25 | 115 | 2875 | \$ 0.52 | \$ | 1,495.00 |
| Quality Control | 12 | 115 | 1380 | \$ 0.52 | \$ | 717.60 |
| Construction Bureau | 11 | 115 | 1265 | \$ 0.52 | \$ | 657.80 |
| Office Engineer | | 115 | 115 | \$ 15.00 | \$ | 1,725.00 |
| Office Engineer | 0 | 0 | 0 | \$ - | \$ | 1,723.00 |
| | Maria Cara | EDUCATION AND STREET | g/Reproducti | a property and the same of the | \$ | 5,895.40 |
| | | | | Name | d jiki | |
| Communication Cost (telephone, fax, etc.) | | | | r 2 mail - British (British | è | Total - |
| 8.1 | | | | | \$ | |
| Postage Cost (overnight, stamps, etc.) | | | | | 185 | Total |
| | | | | l | \$ | 1,500.00 |
| Other (provide description on next line) | | | A STREET | | de | Total |
| ADEN | 1 Permit | | | | \$ | 1,500.00 |
| 48 | | Total Ou | t-of-pocket Ex | xpenses | \$ | 9,176.38 |
| Comments: | | Total Ou | t-of-pocket Ex | xpenses | \$ | 9,176.3 |

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

MRS Consultants, LLC.

Cultural Resource Specialists

Phase I Assessments

Section 106 Compliance

February 24, 2016

Jennifer G. Brown Sain Associates, Inc. Two Perimeter Park South Suite 500 East Birmingham, Alabama 35243

Re: Phase I Cultural Resources Survey for Proposed Improvements to the Cahaba Road and Highway 280 Intersection in Mountain Brook, Jefferson County, Alabama

Dear Ms. Brown:

Thank you for contacting MRS Consultants, LLC regarding the above referenced project. A cost proposal is attached for MRS to conduct a Phase I cultural resources assessment survey for the proposed project. The project involves improvements at the intersection of Cahaba Road and Highway 280. Improvements are proposed along the Highway 280 Exit road, Cahaba Road, Lane Park Road, and Culver Road, and will acquire additional right-of-way. The current project encompasses approximately 3,415 linear feet within an area measuring approximately 10-12 acres. All phases of the research will be conducted in compliance with the guidelines set forth by the Alabama Historical Commission (AHC) and will consider both archaeological and historic structural resources. The project will require that an Area of Potential Effect (APE) be investigated, which will extend beyond the limits of the direct construction impacts.

Preliminary research has determined that there are two potential issues for this project. First, the project encompasses a portion of downtown Mountain Brook. Therefore, there will be several buildings that are older than 50 years of age, which will need to be documented. Second, the old Red Mountain Cemetery, also known as South-Side Cemetery, is located beneath the Birmingham Zoo. The cemetery originated in 1893 as a "Potter's field," or paper's cemetery. The cemetery was used for only a few decades, but is said to contain over 4,700 graves. Research will need to be conducted to try to determine where the cemetery exists in relation to the project area.

This contract will entail a Phase I cultural resources assessment of the survey area. There will be three general stages to this project: 1) Background Research; 2) Field Research; and 3) Analysis and Reporting. Following is a brief description of each stage of research.

Stage 1: This stage of research includes the background research conducted before the field investigation. Background research will be conducted to identify any known cultural resources within the study area, especially archaeological sites, cemeteries, historic structures, and historic communities. This research will also serve to identify the potential for such resources. Several sources will be consulted during the research, including but not necessarily limited to the Alabama State Site File (ASSF), the National Register of Historic Places (NRHP), the Alabama Register of Landmarks & Heritage (ARLH), and the Online Archaeological GIS website for Alabama.

Stage 2: This stage will include the field assessment of the project area, and will document archaeological sites, cemeteries, and historic structures. The project area will receive a pedestrian review. Standard archaeological techniques will be employed during the survey, especially visual observation of the ground surface and subsurface shovel testing. The majority of the study corridor exists within disturbed, industrial and urban environments; therefore, subsurface testing will be limited. No shovel

tests will be placed within residential yards. Environmental conditions and shovel tests will be documented on field maps. Shovel tests generally will measure 30 cm in diameter and will be excavated into subsoil. Soils will be sifted through a 6 mm mesh screen to search for cultural material. Any artifacts recovered during the investigation will be bagged by provenience, and returned to the laboratory for analysis. Each discovered resource (archaeological sites, cemeteries, and historic structures) will be evaluated to a preliminary level necessary for determining its potential eligibility for inclusion on the NRHP. Standard information will be derived for each archaeological site, i.e. GPS coordinates, dimensions, vertical depth, positive/negative shovel tests, environmental context, photographs, sketch maps, etc. The architectural survey will include the direct construction zone as well as the surrounding APE. The survey will also document historic structures in the project area, which will likely include several buildings in downtown Mountain Brook.

Stage 3: This stage includes the laboratory analysis and preparation of the technical report and other documentation. Artifacts will undergo standard laboratory procedures, i.e. washing, analysis, and preparation for curation. ASSF forms will be completed for each archaeological site, which will be submitted to the ASSF for a permanent site number. Historic properties identified during the survey will be described. A technical report will be written detailing the survey and findings of the research. Recommendations of NRHP eligibility will be made for each cultural resource. Those cultural resources that are considered *Not Eligible* for the NRHP will be recommended for clearance. Those cultural resources that have an *Undetermined* or *Potentially Eligible* NRHP eligibility will be recommended for avoidance or additional research.

If you have any questions, please do not hesitate to call me on my cell phone at (205) 242-8650. We look forward to working with you, and thank you for considering MRS Consultants, LLC.

Sincerely,

Catherine C. Meyer MRS Consultants, LLC.

Catheria C. Meyer

Enclosure

February 24, 2016

COST PROPOSAL

Phase I Cultural Resources Assessment for the Proposed Improvements to the Cahaba Road/Highway 280 Intersection in Mountain Brook, Jefferson County, Alabama

| PERSONNEL COSTS | No. Days | Daily Rate | Costs |
|---|-----------------|------------|------------|
| Background Research/Administration MRS Cultural Resource Specialist | 2.00 | \$350.00 | \$700.00 |
| Fieldwork | | | |
| MRS Cultural Resource Specialist | 2.00 | \$350.00 | \$700.00 |
| Archaeological Technician | 2.00 | \$250.00 | \$500.00 |
| Lab Analysis/Report/Drafting/Structure Forms | | | |
| Archaeological Technician | 2.00 | \$250.00 | \$500.00 |
| Cultural Resource Specialist | 6.00 | \$350.00 | \$2,100.00 |
| | Personnel Sub | total | \$4,500.00 |
| OPERATING BUDGET | | | |
| AHC ResearchPer Diem (\$20.00/day) | 1 | \$20.00 | \$20.00 |
| AHC ResearchMileage (.56/mile) | 250 | \$0.540 | \$135.00 |
| FieldworkPer Diem (\$20.00/day) | 4 | \$20.00 | \$80.00 |
| FieldworkMileage (.56/mile) | 300 | \$0.540 | \$162.00 |
| Miscellaneous Supplies/Equipment | | | \$25.00 |
| | Total Operation | ng | \$422.00 |
| INDIRECT COSTS ON OPERATING (43%) | | | \$181.46 |
| TOTAL COSTS | | | \$5,103.46 |
| LUMP SUM/FIXED PRICE | | | \$5,100.00 |



March 1, 2016

Sain Associates
Two Perimeter Park South, Suite 500 East
Birmingham, AL 35243

Attention:

Ms. Alicia Baily, P.E.

Subject:

Scope of Work and Proposed Budget

Proposed Mountain Brook Village Roundabout

Bhate Proposal Number 16-0023

Dear Ms. Baily:

Based on our discussions Bhate Environmental Associates, Inc. (Bhate) is please to present the following Scope of Work and Proposed Budget for environmental investigations associated with the Categorical Exclusion documentation for the Proposed Mountain Brook Village Roundabout project. The proposed work is divided into four work scopes, as follows:

Scope of Work

1 Ecological Impact Assessment

Bhate will prepared a Vegetation/Wildlife Habitat Survey Report to assess for the presence of habitat conducive to the presence of Threatened and Endangered Species identified by the US Fish and Wildlife Service (USFWS) in the their letter dated February 22, 20116. The survey and accompanying report will be conducted by a qualified degreed biologist pursuant to USFWS protocols. Bhate anticipates that this survey and accompanying report will find no suitable habitat in the project area and form the basis for a "No impact anticipated" certification and concurrence from the USFWS. If appropriate habitat is identified additional investigations beyond the scope and budget of this proposal may be required.



2 Streams and Wetlands Delineation

2.1 Wetlands Assessment Methods

The presence of potential wetlands within the project area will be assessed in accordance with the U.S. Army Corps of Engineers (USACE) 1987 Wetland Delineation manual procedures and current Regional Supplements. Delineations are based on the presence of hydrophilic vegetation, wetland hydrology, and hydric soils. Information pertaining to vegetation, hydrology, and soil characteristics will be obtained from each assessment site and recorded on the form entitled Wetland Determination Data Form – Eastern Mountain and Piedmont in order to substantiate potential determinations and jurisdictional wetland line placement, if present.

In order to determine the site layout and characteristics and assist in the identification and location of potential jurisdictional wetlands and streams on the subject property, several readily-available maps and aerial photographs will be reviewed, including:

- Recent aerial photographs obtained from Terrain Navigator
- U.S. Geological Survey (USGS) 7.5 Minute topographic maps
- National Wetland Inventory (NWI) maps
- U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil survey reports and maps

2.2 Stream Assessment Methods

Streams in the project area will be evaluated for overall stream quality and physical integrity based on the fish population, wildlife utilization, aquatic fauna diversity, and presence of macroinvertebrates, if applicable. The streams will also be assessed for available habitat such as vegetation, roots, and other preferred aquatic habitat, as well as streambank stability, morphologic alterations, depositional bar patterns, and sedimentation.

The Department of the Army Mobile District, Corps of Engineers Standard Operating Procedure Compensatory Stream Mitigation Guidelines (Stream SOP) will be used as a tool to provide a basic written framework, which will provide predictability and consistency for the development, review, and approval of compensatory stream mitigation plans. A key element of the Stream SOP is the establishment of a method for evaluating the quality of streams to be impacted and calculating proposed stream mitigation credits; however it can also be used to evaluate a stream for overall quality based on the stream's overall physical attributes.

The streams will be assessed using the scoring procedure in the Stream SOP. The streams will be evaluated based on factors provided in the Stream SOP.



The hydrologic indicators of the streams will be assessed by characterizing its groundwater flow/discharge observations, and other physical constituents such as presence of leaf litter, sediment on plants, wrack lines and redoximorphic features of the substrate. Sampling and observation of biological indicators also are used in this process to correlate the presence of vegetation, aquatic species with stream type. The presence of a specific species, either flora or fauna, can be an indicator of stream flow duration, and therefore assist in the classification or type of stream being identified.

2.3 Corps of Engineers Submittal and Permitting

The wetlands and stream delineations will be submitted to the U.S. Army Corps of Engineers Birmingham Office for a permitting determination. At this time it is expected either that no permitting will be required or that the stream and wetlands impacts will fall under a Nationwide Permit. If a Nationwide Permit is appropriate for the Project Bhate intends to use Cultural Resource and Threatened and Endangered Species determinations made by others as part of the project Categorical Exclusion process to provide that information as part of the permitting process. If mitigations credits are required the extent of those credits will be determined during discussions with the Corps of Engineers and are not included in the costs for this streams and wetlands determination

3 Hazardous Materials Impact Assessment

The principal source of impact to the site associated with hazardous materials is expected to be the existing gasoline station immediately south and east of the project boundary. This service station is expected to have been the site of past releases associated with underground storage tanks and other site activities. Bhate intends to review files available from the Alabama Department of Environmental Management (ADEM) to assess past reported site activities, groundwater flow directions and residual impacts. The effects of these potential impacts on the project activities and end use will be assessed and documented and recommendations made regarding mitigation measures, as appropriate.

This information will be used to obtain an Alabama Department of Transportation (ALDOT) Materials and Testing Clearance Letter.

4 Air Quality Impact Assessment

Based on projected traffic flows and densities provided by others, Bhate will prepare a Project Air Report addressing the following criteria per ALDOT and Federal Highway Administration (FHWA) requirements:



4.1 Ozone

The Air report will demonstrate that the project is in conformance with the Statewide Transportation Improvement Plan (STIP).

4.2 Carbon Monoxide

The Air Report will assess project exemption from carbon monoxide hot spot analysis or document that no impact is anticipated due to National Ambient Air Quality Standard conformance.

4.3 PM 2.5

The Air Report will document that the PM 2.5 checklist was completed and submitted to the ALDOT Environmental Technical Section (ETS) Air Quality Coordinator to make an air quality concern determination.

4.4 Mobile Source Air Toxics

The Air Report will assess the potential for MSAT effects and document impacts pursuant to FHWA criteria.

Proposed Budget Allowance

Bhate has developed the following budget based on the project information known at this time. It should be noted, however, that, depending on information derived during these environmental investigations additional ALDOT requirements and negotiations may necessitate additional costs.

| • | Ecological Impact Assessment | \$2,000 |
|---|---------------------------------------|----------------|
| • | Stream and Wetlands Delineation | \$10,000 |
| • | Hazardous Materials Impact Assessment | \$2,500 |
| • | Air Quality Impact Assessment | <u>\$2,000</u> |
| | Proposed Budge Allowance | \$16,500 |



We trust this information is sufficient for your purposes at this time. If you have any questions regarding the information contained in this report, please contact us at 205.918.4000.

Respectfully Submitted by,

Rhata Environmental Accordates Inc.

negulatory Director

Program Manager



February 29, 2016

200 Wellington Manor Court Suite 100 Birmingham, AL 35007

ATC Group Services LLC

Phone +1 205 733 8775 Fax +1 205 733 8954 www.atcassociates.com

Alicia Bailey, P.E.
Team Leader / Transportation
Sain Associates, Inc.
Two Perimeter Park South
Suite 500 East
Birmingham, AL 35243

Direct: (205) 263-2169
Cell: (205) 910-2699
Email: <u>abailey@sain.com</u>

Subject: Proposal for Traffic Noise Analysis (TNA)

US-280 / Cahaba Road Intersection Improvement

Birmingham and Mountain Brook, Jefferson County, Alabama

ATC Proposal Number: 003-2016-0032

Ms. Bailey:

ATC Group Services LLC (ATC) appreciates the opportunity to submit to Sain Associates, Inc. (the "Client" or "Sain") this proposal to complete a Traffic Noise Analysis (TNA) at the above referenced property (the "project area").

1.0 PROJECT UNDERSTANDING

ATC understands that you have requested us to conduct a TNA at the above referenced project area¹. Specifically, the project area includes the immediate vicinity surrounding the intersection of Cahaba Road, U.S. Highway 280, Culver Road, and Lane Park, located in Birmingham and Mountain Brook, Jefferson County, Alabama. Sain has informed us that the current intersection is to be replaced with a roundabout.²

2.0 TRAFFIC NOISE ANALYSIS (TNA)

2.1 Scope of Services

ATC will conduct the TNA will be conducted in accordance with the Alabama Department of Transportation (ALDOT) Highway Traffic Noise Analysis and Abatement Policy and Guidance document dated July 31, 2011.

¹ See attached drawing and aerial photograph provided by Sain Associates, Inc.

² ATC understands that Sain will provide us with traffic information and plans, as well as other information necessary for the TNA. Further, Sain has indicated that while their client is the City of Mountain Brook, their contract and all plans and reports will be reviewed and approved by the Alabama Department of Transportation (ALDOT).

Proposal for Traffic Noise Analysis (TNA) US-280 / Cahaba Road Intersection Improvement Birmingham and Mountain Brook, Jefferson County, Alabama ATC Proposal Number: 003-2016-0032 February 29, 2016



The TNA will include each Noise Activity Category present in the study area. The Federal Highway Administration (FHWA) Traffic Noise Model (TNM) Version 2.5 or newer will be used to perform traffic noise modeling for the project. ATC will derive the vehicular speed used in the TNM for future condition from the project design speed and average pavement type will be used. For the existing condition, the posted speed limit in the study area will be used.³

ATC assumes that the traffic counts used in the TNM will be provided by Sain or ALDOT (or others) and that these actual measurements, with concurrent traffic counts of existing/ambient noise levels, were taken in the field within the study area during the time of day that is perceived to be the worst hourly impact for comparison to the model results. Existing/ambient noise levels will be measured in general accordance with the current version of the FHWA's Measurement of Highway-Related Noise document. We anticipate that a maximum of six (6) measurement locations will be employed.

The FHWA accepts a tolerance of +/- 3.0 dB(A) for model validation. If the variation is greater than this, the discrepancy must be identified and the model corrected, or additional measurements must be taken. ATC anticipates that if the variation exceeds the FHWA tolerance, no additional measurements will be needed. ATC will conduct validation of traffic counts at the time of the measurement of existing/ambient noise levels for a minimum of fifteen (15) minutes. The count number will then be equated to an hourly volume. The results from the model validation will be summarized in the TNA report.

2.2 Third Party Reliance

The final TNA report will be addressed with reliance to Sain. If reliance is to be provided to another party, that party must accept the terms and limitations in the report and the Master Services Agreement will provide three (3) "reliance" letters to be issued to Sain designees over a 24-month period, if requested.

3.0 ESTIMATED FEES

ATC proposes to perform the Traffic Noise Analysis for a lump sum amount of \$11,850.00. The proposed lump sum amount is based on certain Sain responsibilities that include, but are not limited to:

- · Providing or arranging to provide ATC timely access to the project area;
- Submitting to ATC accurate project area information; and
- Providing or arranging to provide ATC available documentation (plans, etc.) and pertinent traffic information.

4.0 PROJECT DELIVERABLES AND SCHEDULE

Following written authorization to proceed, ATC intends to conduct the TNA and report findings as described in the table below.

³ ATC requests that we be informed by Sain should these assumptions require revision.

Proposal for Traffic Noise Analysis (TNA) US-280 / Cahaba Road Intersection Improvement Birmingham and Mountain Brook, Jefferson County, Alabama ATC Proposal Number: 003-2016-0032 February 29, 2016



| Task | Deliverable Format | Schedule |
|----------------------|--------------------|---|
| Field Work | n/a | Commence within 15 business days of receipt of written authorization to proceed.4 |
| Preliminary findings | Via email | Within 15 - 21 business days following completion of Field Work. |
| Draft report | Via email | Within 15 business days of completion of Preliminary Findings. |
| Final report | 1 electronic copy | Within 15 business days of receipt of Sain's comments on Draft Report. |

5.0 CONDITIONS OF ENGAGEMENT

This proposal may be accepted by signing a copy and returning it to ATC. The Proposal for Services shall constitute the exclusive services to be completed for this project. This proposal is valid only if authorized within 60 days from the proposal date. ATC cannot initiate this scope of work without written authorization, acceptance of the Client Service Agreement, and clearance through our accounting system.

6.0 AUTHORIZATION

All work will be conducted in accordance with the attached Client Service Agreement that has been mutually agreed upon between the Client and Cardno. As stated in the Client Service Agreement. payment is due within 30 days of invoicing. If the proposal is acceptable, please sign and return one copy of the Proposal Acceptance Agreement, required for project activation and scheduling. Please contact the undersigned if you have any questions.

Project Engineer

Respectfully submitted.

ATC Group Services LLC

Fred R. DeLeon, Jr., P.E., P.G.

Principal Engineer

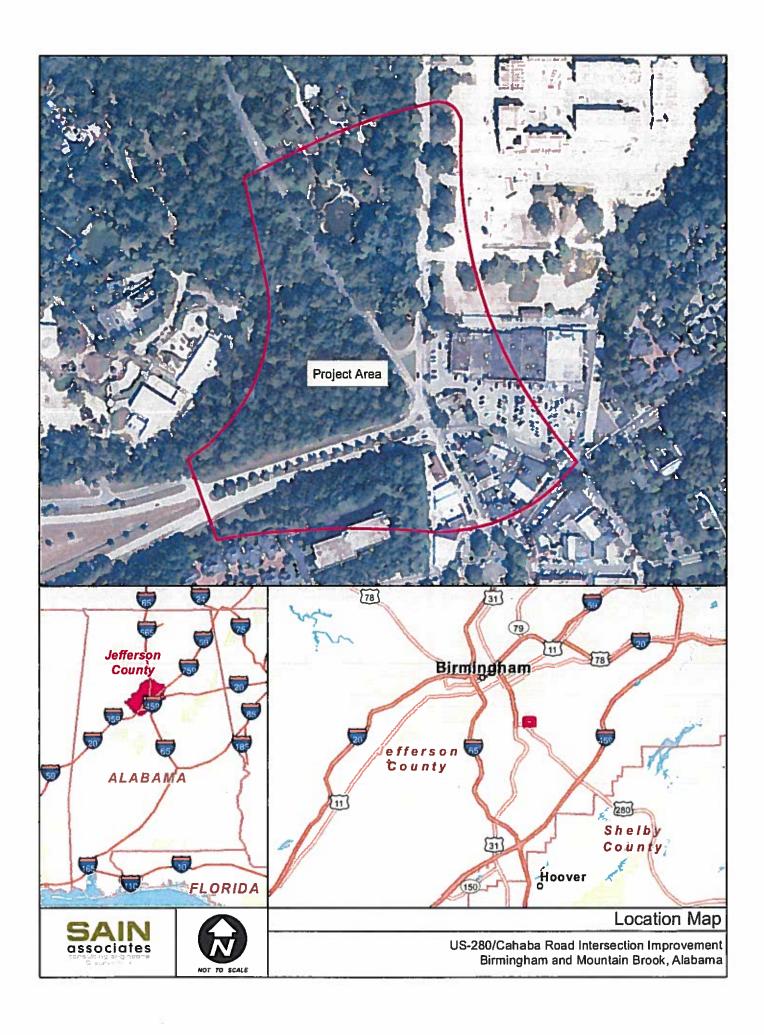
Email: fred.deleon@atcassociates.com

Email: stephanie.pryor@atcassociates.com

Encl: Sain Supplied Information

> Proposal Acceptance Agreement **Client Services Agreement**

⁴ The schedule can change due to weather conditions and access-related issues.





Bhate Geosciences Corporation Geotechnical, Materials, Environmental Engineers

5217 5th Avenue South Birmingham, Alabama 35212 Phone: (205) 591-7062 Fax: (205) 591-7184 Web: http://www.bhate-eng.com

February 24, 2016

Ms. Alicia Bailey, P.E. Sain Associates, Inc. 244 West Valley Avenue, Suite 200 Birmingham, Alabama 35209

Subject:

Proposal for Subsurface Exploration, Geotechnical Engineering Evaluation and

Materials Report

Cahaba Road Improvements & Roundabout

Birmingham, Alabama

BHATE Reference Number: 8512-16

Dear Ms. Bailey:

BHATE Geosciences Corporation (BHATE) is pleased to submit the following proposal to conduct a subsurface exploration and geotechnical evaluation of the subject site. In this proposal, we have outlined the following:

- Our understanding of the project
- Proposed scope of services
- Geotechnical report
- Estimated budget
- Schedule

PROJECT UNDERSTANDING

Project information: Based on preliminary information provided by your office, we understand the following:

Project Location and Description: The project site is located near the intersection of Cahaba Road and Culver Road in Mountain Brook, Alabama. It is our understanding that the road improvement project begins near the intersection of Cahaba Road and Culver Road and continues north along Cahaba Road and Lane Park Road, west along the Cahaba Road extension to US Highway 280 and south along Cahaba Road. Preliminary information provided to us indicates that two roundabouts are being considered; one near the intersection of Cahaba Road and Lane Park Road and one near the intersection of Culver Road and the Cahaba Road extension to US Highway 280. It is expected that construction of the roundabouts would require right of way from the adjacent properties. Also, additional improvements to the intersection at Cahaba Road and Culver Road will likely include some road widening work as well as lighting, landscaping, and sidewalks.

 <u>Current Site Description:</u> The project area contains several existing asphalt paved roadways such as Cahaba Road, Culver Road, Lane Park Road and the US 280 ramp as well as sidewalks, grass covered medians, etc.

The west side of the proposed roundabout at Cahaba Road and Lane Park Road as well as approximately half of the new ramp alignment to be located at the US 280 intersection is currently undeveloped and covered with dense brush and mature trees. An existing stone monument sign for the Birmingham Zoo is also located in this area. In addition, much of this area is located behind an existing chain-link fence that appears to envelop the Birmingham Zoo Property. We expect that some clearing of trees and brush will be required to create some rough cleared roads for our drilling equipment to gain access the wooded, undeveloped portion of the project site. You have also indicated that some ROW issues will have to be addressed regarding this area. We've assumed that Right of Entry will be granted to BHATE to explore this portion of the project site and that BHATE will not be responsible for restoring the disturbed portions of the property to a near-undisturbed condition.

ALDOT Requirements: You requested that our geotechnical report be prepared
in accordance with ALDOT requirements and suitable for an ALDOT review. We
have prepared the following cost estimate based on the amount of work required
to meet the ALDOT standards contained in ALDOT Bureau of Materials and Tests
Procedure 390-Procedure for Conducting Soil Surveys and Preparing Materials
Reports, Revised February 14, 2012.

In view of the project information provided to us, it appears that some portions of the project, such as Cahaba Road between the two roundabouts, could be considered a Short Widening Project by ALDOT standards. Other portions of the project, such as the undeveloped portion of the southernmost roundabout and the realignment of the US 280 Ramp, would be considered as Grade, Drain, Base and Pave projects. Consequently, we are proposing to perform soil test borings along the centerline of the project in the areas of the roundabouts and the new US 280 Ramp alignment. Conversely, asphalt cores to determine individual layer thicknesses will be taken at approximately six (6) to 10 locations along Cahaba Road as well as near the southernmost roundabout at Culver Road and Lane Park Road.

- <u>Slopes:</u> It is our understanding that a cut slope will likely be required near the west side of the roundabout planned at the intersection of Cahaba Road and Lane Park Road. We anticipate this slope will be less than 15 feet in height. According to ALDOT requirements, formal slope stability analysis is not required. However, we will perform some preliminary slope stability analyses and provide cut slope considerations in our report pertaining to this portion of the project.
- Culvert Extensions: You indicated that two existing culverts along Cahaba Road may have to be extended to accommodate the planned road widenings. Based on observations made during our February 16, 2016 visit to the site, the culvert areas are not accessible to our drilling equipment. However, we have included time in our proposal to manually explore the culvert extension areas with a steel rod and/or hand auger probes in an effort to identify the presence of near surface soft soils.



Site Access Conditions for Equipment: As stated above, due to the undeveloped conditions of portions of the site near the intersection of US 280 Ramp and Cahaba Road, we anticipate that some access preparation will be necessary. Although efforts will be made to avoid the large trees, there is a possibility that some trees could be damaged as a result of access road preparation. In addition, piles of vegetation debris would remain on the site. Site restoration such as restoring vegetation and ground cover is not included in our scope of services; nor is installation of erosion control measures. Also, we anticipate that traffic control will be necessary to protect our personnel from traffic during the field work at this site.

Anticipated Geology: Based on our review of the geologic publication titled "Engineering Geology of Jefferson County, Alabama (1979) it appears that the subject site is underlain by soils derived from the Floyd Shale Formation. The Floyd Shale Formation typically consists of dark gray shale, with thin beds of sandstone, siltstone, limestone and chert occurring locally. Rock outcrops are rare because the Floyd Shale readily weathers to brown or light gray clay.

The soil overburden above the bedrock typically consists of moderately plastic clay and usually ranges from approximately 7 to 15 feet in thickness. The clayey soils derived from the Floyd Shale can often exhibit high shrink swell potential and relatively low remolded shear strengths. The residual soil is typically considered moisture-sensitive because it exhibits a strength loss when wetted.

Due to the high degree of weathering to which the Floyd Shale is subjected, it is often present in low areas, which appears to be the case at the subject site. In addition, groundwater seepage and springs are also common in the Floyd Shale because it often occurs in topographic lows.

PROPOSED SCOPE OF SERVICES

Based on your request for proposal during our February 16, 2016 site meeting and our understanding of the project, our proposed scope of services includes the following:

- 1. Field services, including site reconnaissance, manual exploration, site access and drilling coordination, sample logging and data compilation.
- 2. A Pavement Evaluation and Distress Condition Survey will be performed in accordance with ALDOT Bureau of Materials and Tests Procedure 392. Take note that Falling Weight Deflectometer (FWD) testing is not included in our proposed scope of services.
- Soil test borings: Four borings drilled to a depth of 20 feet or refusal, along the west side of the proposed roundabout at the intersection of Cahaba Road and Lane Park Road; including mobilization and sampling.
- 4. Asphalt coring: We will contract a local coring company to extract cores of the existing asphalt pavement from approximately seven (7) locations along the alignment of Cahaba Road and Lane Park Road.
- Traffic control will be provided during the field activities in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), 2003 edition. It is our understanding that the City of Mountain Brook could possibly provide a shadow vehicle during our field activities.



- Laboratory tests: soil moisture content, Atterberg Limits, Wash #200 sieve and sieve analysis tests will be performed on representative samples of the on-site soils.
- 7. Engineering evaluation and geotechnical report preparation with ten copies furnished.

GEOTECHNICAL REPORT

Based on the scope of services described, our report will address the following items:

- 1. A description of the project and location map.
- 2. Discussion of site geology and surface conditions including thickness and type of existing pavement layers.
- 3. A description of the subsurface conditions at the soil test boring locations.
- 4. Laboratory test results.
- 5. Asphalt coring reports (color photographic log) and pavement condition survey information.
- 6. Identification of unsuitable materials, soft soils, and/or muck and recommendations for treatment of such soils.
- 7. Locations of areas that may require subgrade stabilization, and a recommended method of stabilization.
- 8. Groundwater conditions, if encountered in the borings and dewatering recommendations if appropriate.
- 9. Pavement recommendations based on ALDOT's "equivalent build-up" method in areas where widening will occur along the project. Also, a recommended new pavement section will be provided for the proposed roundabout areas and the new ramp alignment that is to be located west of the intersection of Cahaba Road and Lane Park Road. You informed us that traffic data on which to base the new pavement section would be provided to us by your office.



ESTIMATED BUDGET

Our services will be provided based on the indicated scope and charged on the basis of our unit-fee schedule. The following budget is prepared based on certain assumed conditions at the site.

Our services will be conducted on a unit-rate basis in accordance with our current ALDOT approved contract rates. However, based on the proposed scope of services and assuming no unusual subsurface conditions are encountered, our budget estimate is \$25,681.00. Submittal of the written report would culminate the services to be provided under this proposal. If site conditions encountered during exploration warrant additional exploration or evaluation, then we would notify you and discuss the recommended additional services. However, the budget would not be exceeded without your authorization. In the event problem subsurface conditions are encountered near the 20' target termination depth of the borings, it would probably be necessary to extend the borings to a greater depth to gauge the magnitude of the problem soils.

Budget Notes and Allowances:

- Our services will be provided based on our unit fees for the amount of exploration required to evaluate the subsurface conditions. If problem conditions are discovered during our initial exploration or if it appears that additional exploration is appropriate to better evaluate the subsurface conditions, we will notify you. Soil test borings have been included for evaluating proposed slopes and pavement subgrade soils. If soft soils are encountered during the field exploration, we will contact you to discuss the soil conditions and the need for additional exploration.
- 2. Supplementary design consultation regarding project specifications, bid documents, etc. is not included in this budget estimate and would be billed separately based on actual time spent by the personnel involved.
- 3. It should be acknowledged that no costs associated with surveying of boring locations have been included in this budget estimate. ALDOT requires that a certain level of accuracy be adhered to when staking the boring locations. We have assumed that Sain Associates would provide the survey services.

SITE ACCESS & UTILITY LOCATION

Taking into account the information provided to us and our observations during our visit to the site, it does not appear that the proposed boring locations would be accessible to our drilling rigs unless improvements are made to the ground. Access preparation will be necessary to permit our drilling equipment to reach the planned boring locations. We will coordinate rental/subcontract of equipment for preparation of access trails at cost+15 percent. We estimate that one full day (8 hours) will be required to perform the access preparation. We have included a cost of \$1,400.00 in our base budget estimate for this function.*

We have assumed that prior to our commencing exploration operations all underground utilities are clearly marked and identified in the field by the client. Locating utilities is not included in our proposed scope of services; however, we do have the in-house ability to conduct an underground utility survey as an added service. BHATE does not assume responsibility for damage to any unknown, unidentified or uncharted utilities or underground structures at the site.



EROSION CONTROL MEASURES

During the course of access preparation near the southernmost roundabout, some ground disturbance will occur. Our intent is to minimize the area disturbed; however, some sediment control measures will likely be required. Our intent is to stabilize any disturbed surfaces by mulching with straw and basic grass seed. We have included a cost of \$1,000.00 in our base budget estimate for this purpose.*

*-Material quantities and equipment hours have been estimated based on site conditions encountered during our visit to the site on 2-16-16. Actual quantities and time spent could differ depending on site conditions encountered at the time the field exploration is performed.

SCHEDULE OF SERVICE PERFORMANCE

We can commence our field exploration within five (5) business days after receiving written authorization to proceed. Arranging traffic control and signage, and conducting the subsurface exploration and laboratory testing are expected to require approximately three weeks to complete. We anticipate that an oral report of subsurface conditions can be provided shortly after field exploration is complete and a written report of our findings within two weeks after our field and laboratory services are complete.

GENERAL NOTES AND AUTHORIZATION

We will perform those services outlined above. Client and BHATE may subsequently agree in writing to provide additional services under this agreement for additional, negotiated compensation. Services we provide will be consistent with the engineering standards prevailing at the time and in the area that the services are performed; no other warranty is expressed or implied, is intended.

The attached General Terms and Conditions should be acknowledged as a part of this proposal. A signed copy of the attached Proposal Acceptance Sheet, returned to our office will serve as our authorization to proceed with the exploration.

CLOSING

We appreciate the opportunity to present this proposal and are available to discuss the proposed scope of services with you. If you have any questions or need modifications to our scope of services, we would be happy to consider such changes. We look forward to working with you.

Respectfully submitted,

BHATE Geosciences Corporation

Dennis Isbell

Project Professional

Chance R Burgin

Charles R. Burgin, P.G., P.E.

Principal





February 18, 2016

Alicia Bailey, PE
Team Leader/Transportation
Two Perimeter Park South, Suite 500 East
Birmingham, AL 35243

RE: Cahaba Rd/Hwy 280 assist with construction plan preparation for 2 roundabouts

Dear Alicia,

I am is pleased to submit this proposal to undertake the following scope of services to assist your company with developing construction plans for this project.

SCOPE OF SERVICES

- 1. Revise capacity analysis to confirm roundabout lane arrangements
- 2. Review and refine the roundabout layouts that your company prepares checking vehicle paths and speed as when as A.D.A. requirements etc.
- 3. Provide assistance on construction staging and maintenance of traffic
- 4. Undertake 2 construction plan reviews

MATERIALS TO BE PROVIDED

- 1. Peak hour fully directional traffic counts.
- 2. AutoCAD files with modified layouts
- 3. Construction plans for reviews

DELIVERABLES

- 1. A short report that includes a summary of the analysis
- 2. Suggestions for roundabout layout refinement as needed
- 3. AutoCAD files with suggested refinements
- 4. Construction plan reviews

PROFESSIONAL FEES:

| | | Hours | Rate | Fee |
|---|--|-------|----------|------------|
| 1 | Intersection analysis and technical memo | 2 | \$155.00 | \$310.00 |
| 2 | Roundabout layout reviews | 20 | \$155.00 | \$3,100.00 |
| 3 | Construction plan reviews | 8 | \$155.00 | \$1,240.00 |
| 4 | Assistance with contraction staging and traffic control, ALDOT reviews, etc. | 30 | \$155.00 | \$4,650.00 |
| 5 | Total | | | \$9,300.00 |

Additional work is invoiced at \$155.00 per hour. If the above scope of work and fees meet with your approval, please indicate your acceptance of this agreement by printing two copies, signing in the space provided and returning one copy to this office for our records.

Sincerely,

Terms Accepted By:

Michael J. Wallwork

ch & Wallwork

Signature Date

Name (typed or printed) Title Organization



Southern Traffic Services, Inc.

2911 Westfield Road Phone: 800-786-3374 Gulf Breeze, FL 32563 Fax: 850-934-0373

February 26, 2016

Mr. Cochran:

Thank you for considering Southern Traffic Services, Inc. for your data collection needs. If you need any additional information, please don't hesitate to contact me.

- 2- Up to 8 hour Turning Movements @ \$500.00 per site 2-Turning Movement Counts = \$1,000.00
- 6- 96 hour classification/speed counts @ \$100.00 per lane/per day 16 lanes @ 100.00 PL/PD = \$6.400.00

Grand Total-\$7,400.00

Thanks,

Justin Smith Project Manager

| Project No. | |
|--|--|
| County | Jefferson Service Serv |
| Description | Cahaba Road/Hwy280/Lane Park Road roundabout |
| Scope of Work | ntersection Improvement |
| Project Length | 0.30 Miles |
| Consultant | Nimrod Long and Associates |
| GRAND TOTA | L OF FEE PROPOSAL |
| Corridor Study | \$0 |
| Field Surveys | \$0 |
| Preliminary Roadway Plans | \$0 |
| Preliminary Bridge Plans | \$0 |
| Right-of-Way Map, Tract Sketches and Deeds | \$0 |
| Roadway Plans | \$36,436 |
| Bridge Plans | \$0 |
| | GRAND TOTAL FEE \$36,436 |

| Combined overhead rate (%) >>>>>>>>> | 165,3 |
|--|------------|
| Facilities Capital Cost of Money (if used) >>>>> | 0 |
| LABOR RATES | |
| Classification | Daily Rate |
| Project Manager | \$312.48 |
| Landscape Architect | \$289.44 |
| Production Assistant | \$125.04 |
| | |

^{**}Certification of Out-of-Pocket Expenses:

If Out-of-Pocket Expenses are included in this proposal, we hereby certify that these costs are not included in the Combined Overhead Rate and are typically invoiced to all clients as a direct job cost.

| Signed | Date |
|--------|------|
| | |
| | |

| Project Number | #REF! | CPMS # |
|----------------|--------------------------|--------|
| County | #REF! | |
| Description | #REF! | |
| Scope of work | Intersection Improvement | |
| Length | #REF! miles | _ |

Consultant Nimrod Long and Assoc

| Consultant Nimrod Long and Assoc | | | | | |
|--|---|---|----------------|--------------|------------------|
| LANDCCADE DLANC | NO OF | ESTIMATED MAN-DAYS | | S | |
| LANDSCAPE PLANS | SHEETS | ENGIN | | TECHN | |
| SHEET TITLE | | SHEET | TOTAL | SHEET | TOTAL |
| TITLE SHEET | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INDEX SHEET | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GEOMETRIC LAYOUT/SURVEY CONTROL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PROJECT NOTE SHEET | 1.00 | 0.50 | 0.50 | 1.00 | 1.00 |
| PLANS LEGEND & ABBREVIATIONS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SUMMARY SHEET | 10000 | | | ATE HOLE | |
| Main Summary | 0.50 | 0.50 | 0.25 | 0.00 | 0.00 |
| SUMMARY BOX SHEETS | | | win Plantes | | Selling Bridge |
| Landscape | 0.50 | 1.00 | 0.50 | 1.50 | 0.75 |
| PLAN & PROFILE | 100000000000000000000000000000000000000 | 27.1 | | | 17223214 |
| Sidewalk Concept Layout | 2.00 | 1.00 | 2.00 | 0.50 | 1.00 |
| Roundabout Circle Concept Detail | 1.00 | 2.00 | 2.00 | 1.00 | 1.00 |
| LANDSCAPE | | | ALL AND STREET | The state of | NUMBER OF STREET |
| Plan Layout | 5.00 | 3.00 | 15.00 | 5.00 | 25.00 |
| Special Details | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 |
| REVIEW COMMENTS | | | MALE | | |
| Plan-in-Hand Inspection | | | 1.00 | | |
| Site Visits | | | 1.50 | | |
| PS&E Inspection | | | 1.00 | | 2.00 |
| THE THE RESERVE OF SHAPE OF THE PARTY OF THE | THE RES | | | A STORES | |
| Cost Estimates | | | 1.00 | | 1.00 |
| Design Hearing | | | 0.00 | | 0.00 |
| | | | | | |
| SUB-TOTAL | 11.00 | | 25.75 | | 33.75 |
| 10% Supervision | | | 2.58 | | |
| | | | | | |
| TOTALS | 11.00 | | 25.75 | | 33.75 |
| | | - I I I I I I I I I I I I I I I I I I I | | ······ | |

| Paratrus Ata | "DEEL | | | | |
|--|--|-------------|----|------------------------|--|
| Project No. | | | | | |
| , | #REF! | | | | |
| Description | Description Cahaba Road/Hwy280/Lane Park Road roundabout | | | | |
| Scope of Work | Intersection | Improvemen | t | | |
| Project Length | 0.30 N | Viles | 1 | | |
| 9 | | | | | |
| | t Nimrod Long | | | | |
| Fee Propos | al (Landso | cape Plans | 5) | | |
| PERSONNEL COST | | | | | |
| ELISONALE GOST | Man-days x | Daily Rate | | | |
| Project Manager (10% of Eng.) | 2.58 | | \$ | 806.20 | |
| Landscape Architect | 25.75 | \$ 289.44 | \$ | 7,453.08 | |
| Production Assistant | 33.75 | \$ 125.04 | \$ | 4,220.10 | |
| | Total Dire | ct Labor | \$ | 12,479.38 | |
| Combined Overhead (%) | 165.30 | | \$ | 20,628.42 | |
| Out-of-Pocket Expenses** | | - | \$ | 16.20 | |
| | | Sub-Total | \$ | 33,124.00 | |
| Operating Margin (10%) | | | \$ | 3,312.40 | |
| | | Sub-Total | \$ | 36,436.40 | |
| SUB-CONSULTANTS (attach man-day & fee FRO | Waashaniki. | | | | |
| 30B-CONSOLTANTS (attach man-day & ree FRO | w each sub-t | consultant; | \$ | ee for each nere) | |
| | | | \$ | | |
| - " | | | \$ | Charles I and a second | |
| Subconsultant Administration Expense (5%) | | | \$ | | |
| (oro) | 5 | Sub-Total | \$ | 36,436.40 | |
| Facilities Capital Cost of Money (% of Direct Labor) | 0.00 | | \$ | | |
| Tacinites Capital Cost of Money (76 of Direct Labor) | 1 0.00 | | φ | - 1 | |
| | T | TOTAL FEE | \$ | 36,436.40 | |

| Project No. | . #REF! | | | | | |
|--|---------------------------|---------------|---------------------|------------|------|-------|
| County #REF! | | | | | | |
| Description Cahaba Road/Hwy280/Lane Park Road roundabout | | | | | | |
| | | | | | | |
| Scope of Work Intersection Improvement | | | | | | |
| Project Length | Project Length 0.30 Miles | | | | | |
| | | | | | | |
| Consultant | | | | | | |
| Out-of-pocket | Expenses | s (Landsca | ape Plans) | | | |
| TRAVÈL COST | | | pin, Prikopi o | | 3 V. | |
| Mileage Cost | | Trips | Miles/Trip | \$/Mile | | Total |
| Site Visits | | 3 | 10 | \$0.540 | | 16.20 |
| | | 0 | 0 | \$0.540 | | - |
| | | 0 | 0 | \$0.540 | | - |
| | | 0 | 0 | \$0.540 | \$ | - |
| | | | Total Mileage | e Cost | \$ | 16.20 |
| Subsistence Cost | i | Days | # People | \$/Day | | Total |
| Travel allowance (6 hour trips) | | 0 | 0 | \$11.25 | \$ | - |
| Travel allowance (12 hour trips - meal provided by | others) | Ö | 0 | \$20.00 | \$ | - |
| Travel allowance (12 hour trips) | | 0 | 0 | \$30.00 | | - |
| Travel allowance (overnight)*** | _ | 0 | 0 | \$75.00 | | - |
| | | | | W. | \$ | - |
| | | - | Total Subsis | tence Cost | \$ | - |
| | | | Total Travel | Cost | \$ | 16.20 |
| PRINTING / REPRODUCTION COST | | | | | | |
| Type of printing/reproduction | # of Sets | Sheets/Set | Total Sheets | Cost/Sheet | Est | Total |
| | 0 | 0 | 0 | \$ - | \$ | - |
| | 0 | Ò | Ó | \$ - | \$ | 3.00 |
| | 0 | 0 | 0 | \$ - | \$ | - 1 |
| | 0 | 0 | Ó | \$ - | \$ | (#S |
| | 0 | 0 | Ó | \$ - | \$ | - |
| | 0 | 0 | 0 | \$ - | \$ | - |
| | | Total Printir | ng/Reproducti | on Cost | \$ | • |
| Communication Cost (telephone, fax, etc.) | | | (Alcuments) | | ia c | Total |
| | | | | | \$ | |
| Postage Cost (overnight, stamps, etc.) | 7 | T. T | | | | Total |
| Postage Cost (overnight, stamps, etc.) | e who is | 2 91111 | | | \$ | Total |
| | | | | L | Ψ | |
| Other (provide description on next line) | | | | | A | Total |
| | | | | | \$ | |
| | | Total Ou | t-of-pocket E | xpenses | \$ | 16.20 |
| Comments: | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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

SSOE Group 3504 7th Avenue South Birmingham, AL 35222 205.323.2373 T 205.322.2731 F

www.ssoe.com

February 26, 2016

Sain Associates Two Perimeter Park South Suite 500 East Birmingham AL 35243

Attention:

Alicia Bailey, P.E.

Team Leader/Transportation

RE: Cahaba Road/Hwy 280 Roundabout Lighting Design

Project No. 016-00718-00

Dear Alicia:

We appreciate the opportunity to furnish electrical engineering services for you on this project.

Our understanding of the scope of this project is as follows: Prepare plans for electrical service for lighting and irrigation, conduit, as well as light pole locations to be installed. There are to be 5 sheets at 30 scale. Sain Associates to be lead consultant.

This is based on preliminary information furnished by you which included: Email from Alicia Bailey dated February 17, 2016, and CAD files obtained from Sain Associates.

FEE STRUCTURE

We propose to furnish engineering services for a Lump Sum Fee of Six Thousand Dollars (\$6,000.00). Invoices will be sent monthly; payment is due thirty days after receipt of invoice.

Alternates are not included in this scope of work and will be negotiated as additional services.

REIMBURSABLE EXPENSES

Expenses are included in the fee of the project and are not reimbursable.

PROJECT PHASE SCHEDULE

PROJECT PHASE

30% Submittal

70% Submittal

100% Submittal

TERMS & CONDITIONS

Terms and conditions as outlined in the SAIN SubAgreement (see attached) shall apply and are part of this proposal.



Cahaba Road/Hwy 280 Roundabout Lighting Design February 26, 2016 Page 2 of 2

ADDITIONAL SERVICES

Additional services will be furnished on an hourly basis plus expenses per your request. The hourly rates are indicated in the table attached. These services include but are not limited to:

- 1. Changes in design after completion of Construction Documents.
- 2. Field Observations of work during construction.
- 3. Changes for "Value Engineering" after completion of Construction Documents.
- 4. Correction of Contract Documents for Record "As-Built" Drawings.
- 5. Phased Contract Documents (multiple-bid packages).
- 6. Review of Contractor Pay Requests.

BASIS OF PROPOSAL

- Drawings/models from other design disciplines will be furnished in electronic format (DXF,DWG, or RVT) for our use on the project. Drawings and documents furnished for each deliverable listed in Project Phase Description will be transmitted in electronic digital file format ready for reproduction (Adobe Acrobat .pdf).
- Requirements of the contract between Sain Associates and the Owner do not apply unless specifically included in this proposal.

ACCEPTANCE

Sincerely,

Copies to:

To approve our proposal, please sign in the space provided below and return to us for our files.

We appreciate the opportunity to offer this proposal and look forward to the successful completion of the project.

Anthony H. Smith SSOE Group.

Attachment: Terms & Conditions

Project Accounting

File: T:\16:0160971800\documents.Contracts\216-09718-09 Canaba Road-280 Lighting Design docx

ACCEPTED:_____ DATE:____

| Project No. | Cahaba Road/Hwy 280 R | oundabout |
|--|---------------------------|--|
| County | Jefferson | and the state of t |
| Description | Sidewalk and Landscapin | g Improvements |
| Scope of Work | Pedestrian Lighting and E | lectrical |
| Project Length | <u> </u> | |
| Consultant | SSOE Group (formely CR | S) |
| | AL OF FEE PROPOS | |
| Corridor Study | | \$0 |
| Field Surveys | | \$0 |
| Preliminary Roadway Plans | · | \$0 |
| Preliminary Bridge Plans | | \$0 |
| Right-of-Way Map, Tract Sketches and Deeds | | \$0 |
| Roadway Plans | · | \$6,000 |
| Bridge Plans | | - |
| | GRAND TOTAL FEE | \$6,000 |

| Combined overhead rate (%) >>>>>>>>> | 130 |
|--|-----|
| Facilities Capital Cost of Money (if used) >>>>> | Ó |

LABOR RATES

| Classification | Daily Rate |
|-----------------------------|---|
| Project Manager | \$462.00 |
| Engineer | \$285.00 |
| Environmental | Remain |
| Engineering Technician/CADD | \$208.70 |
| Environmental Technician | HAVE THE PARTY OF |
| Clerical | \$161.54 |
| PLS | \$0.00 |
| Survey Crew | \$0.00 |

^{**}Certification of Out-of-Pocket Expenses:

If Out-of-Pocket Expenses are included in this proposal, we hereby certify that these costs are not included in the Combined Overhead Rate and are typically invoiced to all clients as a direct job cost.

2/26/2016

Signed

Date

Sr. Project Manager

Position/Title

Project Number Cahaba Road/Hwy 280 Roundabout
County Jefferson
Description Sidewalk and Landscaping Improvements
Scope of work Pedestrian Lighting and Electrical
Length 0.30 miles

Consultant SSOE Group (formely CRS)

| DOADWAY DLANC | NO OF | E | MAN-DAY | MAN-DAYS | | |
|-----------------|-----------------------|-------|---------|------------|-------|--|
| ROADWAY PLANS | SHEETS | ENGIN | IEER | TECHNICIAN | | |
| SHEET TITLE | | SHEET | TOTAL | SHEET | TOTAL | |
| LIGHTING | All Held years | | | | | |
| Plan Layout | 4.00 | 1.00 | 4.00 | 1.00 | 4.00 | |
| Special Details | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | |
| | MC 2002 M. 1070 A1170 | | 0.00 | | 0.00 | |
| | | | | | | |
| SUB-TOTAL | 5.00 | | 4.00 | | 5.00 | |
| 10% Supervision | | | 0.40 | | | |
| TOTALS | 5.00 | | 4.00 | | 5.00 | |
| | | | | | | |

| Project No. | Cahaba Ro | ad/ | Hwy 280 I | Roundabout | |
|--|-------------|------|-----------|------------------|--------------|
| County | Jefferson | - | | | |
| Description Sidewalk and Landscaping Improvements | | | | | |
| Scope of Work | • | | | | * |
| Project Length | | | | - | |
| | | | | | |
| Consultant | SSOE Gro | up (| formely C | RS) | |
| Fee Propo | | | | | |
| | To the same | | N. J. | arcine to linear | |
| PERSONNEL COST | Man-days | v F | aily Data | | |
| Project Manager (10% of Eng.) | 0.40 | | 462.00 | \$ | 184.80 |
| Engineer | 4.00 | | 285.00 | | 1,140.00 |
| Engineering Technician/CADD | 4.00 | _ | 208.70 | | 834.80 |
| Clerical | 1.00 | | 161.54 | \$ | 161.54 |
| | Total Dir | | | \$ | 2,321.14 |
| Combined Overhead (%) | 130.00 | | | \$ | 3,017.48 |
| Out-of-Pocket Expenses** | | | | \$ | 115.50 |
| | | Sut | -Total | S | 5,454.12 |
| Operating Margin (10%) | | | | \$ | 545,41 |
| | | Sub | -Total | S | 5,999.53 |
| | | | | | |
| SUB-CONSULTANTS (attach man-day & fee FROI | M each sub | COI | sultant; | | r each here) |
| | | | | \$ | |
| | | | | \$ | |
| Colored Administration France (ECC) | | | | \$ | |
| Subconsultant Administration Expense (5%) | | Ct | Total | \$ | E 000 50 |
| | | out | o-Total | \$ | 5,999.53 |
| Facilities Capital Cost of Money (% of Direct Labor) | 0.00 | | | \$ | •11 |
| | | TO: | TAL FEE | l e | 5,999.53 |

^{**}See Grand Total Fee sheet

| County Jefferson | | | | | | | |
|---|-----------|--|--|--|--|--|--|
| County Jefferson | | | | | | | |
| Description Sidewalk and Landscaping Improvements | | | | | | | |
| Scope of Work Pedestrian Lighting and Electrical | | | | | | | |
| Project Length 0.30 Miles | | | | | | | |
| | | | | | | | |
| Consultant SSOE Group (formely CRS) | | | | | | | |
| Out-of-pocket Expenses (Roadway Plans) | | | | | | | |
| TRAVEL COST | | | | | | | |
| | Total | | | | | | |
| 0 0 \$0.500 \$ | - | | | | | | |
| 0 4 \$0.500 \$ | - | | | | | | |
| 0 5 \$0.500 \$ | | | | | | | |
| 0 0 \$0.500 \$ | - | | | | | | |
| 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 \$20.00 \$ | | | | | | | |
| Travel allowance (12 hour trips) 0 \$30.00 \$ | - | | | | | | |
| Travel allowance (overnight)*** 0 0 \$75.00 \$ | - | | | | | | |
| | - | | | | | | |
| Total Subsistence Cost \$ | • | | | | | | |
| Total Travel Cost \$ | - | | | | | | |
| PRINTING / REPRODUCTION COST | ALE COLOR | | | | | | |
| | Total | | | | | | |
| 6 5 30 \$ 3.85 \$ | 115.50 | | | | | | |
| 0 0 \$ - \$ | 1 - 1 | | | | | | |
| 0 0 0 \$ - \$ | 6.00 | | | | | | |
| 0 0 0 \$ - \$ | | | | | | | |
| 0 0 0 \$ - \$ | 1,50 | | | | | | |
| Total Printing/Reproduction Cost \$ | 115.50 | | | | | | |
| | | | | | | | |
| | Total | | | | | | |
| \$ | • | | | | | | |
| | Total | | | | | | |
| \$ | • | | | | | | |
| Other (provide description on next line) | l Total | | | | | | |
| \$ | | | | | | | |
| Total Out-of-pocket Expenses \$ | 115.50 | | | | | | |
| Comments: | | | | | | | |
| outilities. | | | | | | | |
| . | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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



February 26, 2016

Sam Gaston
City of Mountain Brook
56 Church Street
Mountain Brook, AL 35213
gastons@mtnbrook.org

Re: Phase 5B Sidewalk CE & I Services

STPBH-CN13(907)

Dear Mr. Gaston,

Please find the enclosed fee proposal for performing CE & I services for the subject project. The fee is based on providing full time inspection services assuming a 75 working day contract. The terms for services will follow the standard ALDOT CE & I agreement.

Note this is a draft version subject to change based on the number of contract days and bid amount per ALDOT direction.

If you require any additional information, please contact me by email at mstoops@sain.com or by phone at 205-263-2180.

Sincerely,

Matt Stoops, P.E.

Cc:

CE & I Cost Estimate
Mountain Brook
Phase 5B Sidewalk Improvements
Sain #160038

STPBH-CN13(907) Engineer's construction cost estimate (Sep 2015) = \$833,793

| | | | # of Man Days | | | | | | |
|------|--------------------------------------|-----------------|----------------------|-----------------------------|--------------------------------|-------------------|------------------|---------------------|--------------|
| Task | Task Description | Project Manager | Inspector - Level II | Administrative Assistant | Professional Civil Engineer | Instrument Person | Field Supervisor | | Total |
| 1 | Project Set up / Preconstruction | 4 | 3 | | 1 | | | | 8 |
| 2 | Project Inspection - 75 working days | 35 | 83 | 2 | 1 | | | | 121 |
| 3 | Survey - Earthwork | | | | | 3 | 3 | 1 | 3 10 |
| 4 | Punch List / Final Inspections | 4 | 4 | 1 | 1 | | | | 10 |
| 5 | Project Closeout Documentation | 8 | 5 | 1 | 1 | | | | |
| | MANDAY TOTALS: | 51 | 95 | 4 | 4 | 3 | 3 | 1 | 3 164 |
| | ALDOT HOURLY CAP! | \$ 37.00 | \$ 24.00 | \$ 19.00 | \$ 43.00 | \$ 23.00 | \$ 29.00 | \$ 37.00 \$ 29.00 | |
| | HOURLY RATE: | | \$ 22.36 | \$ 19.00 | | \$ 23.00 | \$ 29.00 | \$ 37.00 \$ 27.79 | |
| | DAILY RATE: | | \$ 178.88 | \$ 152,00 | \$ 344.00 | \$ 184.00 | \$ 232.00 | \$ 296.00 \$ 222.00 | |
| | TOTAL DIRECT LABOR: | \$15,096.00 | \$16,993.60 | \$ 608.00 | \$ 1,376.00 | \$ 552.00 | \$ 696.00 | \$ 296.00 \$ 666.00 | \$ 36,283.60 |

OVERHEAD 183.32%: \$ 66,515.10 DIRECT JOB COSTS: \$ 10,320.55

SUB-TOTAL: \$113,119.25

PROFIT @ 10%: \$ 11,311.93

TESTING SUB-CONSULTANT FEE:

SUB-CONSULTANT MARK-UP 5%: \$ FACILITIES CAPITAL COST 0.41%: \$ 148.76

TOTAL FEE AMOUNT: \$124,579.94

** Draft - subject to change based on contract days and bid amount **

Project No. STPBH-CN13(907) County Mountain Brook **Description** Phase 5B Sidewalk Improvements Scope of Work CE&I Project Length 0.50 Miles Consultant Sain Associates Out-of-pocket Expenses (Construction Engineering and Inspection) TRAVEL COST Miles/Trip \$/Mile Total Mileage Cost Trips Inspector - daily trips + 3 pre construction + 5 final \$0.545 \$ 991.90 91 20 \$0.545 \$ Inspector - misc tasks (lab, supplier, etc) 8 40 174.40 245.25 Project Manager - 2 pre consturction + 24 during + 4 final 30 15 \$0.545|\$ Survey Team - project site and/or borrow pit \$0.545 \$ 109.00 4 50 **Total Mileage Cost** 1,520.55 Subsistence Cost Days # People \$/Day Total \$11.25 \$ Travel allowance (6 hour trips) 0 0 Travel allowance (12 hour trips - meal provided by others) 0 0 \$20.00 S 0 \$30.00 S Travel allowance (12 hour trips) 0 Travel allowance (overnight)*** 0 0 \$75.00 \$ Total Subsistence Cost 1,520.55 **Total Travel Cost** PRINTING / REPRODUCTION COST Type of printing/reproduction # of Sets | Sheets/Set | Total Sheets | Cost/Sheet Total \$ \$ Total Printing/Reproduction Cost Communication Cost (telephone, fax, etc.) Total \$ Total Postage Cost (overnight, stamps, etc.) Postage 200.00 | \$ Other (provide description on next line) Total Concrete cylinder testing: 30 pours x 4 cylinders x \$30 each 3,600.00 Other material testing (borrow, backfill, density, hot mix) \$ 4.000.00 Field Supplies (marker paint, stakes, tape, cylinder molds, etc) \$ 1,000.00 **Total Out-of-pocket Expenses** 10,320.55 Comments: ** Draft - subject to change based on contract days and bid amount **

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



February 26, 2016

Sam Gaston
City of Mountain Brook
56 Church Street
Mountain Brook, AL 35213
gastons@mtnbrook.org

Re:

Phase 9 Sidewalk CE & I Services

CMAQ-NR13(908)

Dear Mr. Gaston,

Please find the enclosed fee proposal for performing CE & I services for the subject project. The fee is based on providing full time inspection services assuming a 100 working day contract. The terms for services will follow the standard ALDOT CE & I agreement.

Note this is a draft version subject to change based on the number of contract days and bid amount per ALDOT direction.

If you require any additional information, please contact me by email at mstoops@sain.com or by phone at 205-263-2180.

Sincerely,

Matt Stoops, P.E.

Cc:

CE & I Cost Estimate
Mountain Brook
Phase 9 Sidewalk Improvements
Sain #160014

CMAQ-NR13(908)
Engineer's construction cost estimate (Nov 2015) = \$1,218,280

| | | | # of Man Days | | | | | | Ĺ | |
|------|---------------------------------------|-----------------|-----------------------|-----------------------------|--------------------------------|-------------------|------------------|-------------------------------|--------------------------------------|--------------------|
| Task | Task Description | Project Manager | inspector - Level III | Administrative Assistant | Professional Civil Engineer | Instrument Person | Field Supervisor | Professional Land Surveyor | Survey Drafter (Field Supervisor) | Total |
| 1 | Project Set up / Preconstruction | 6 | 4 | | 1 | | | | | 12 |
| 2 | Project Inspection - 100 working days | 55 | 120 | 3 | 4 | | | | | 182 |
| 3 | Survey - Earthwork | | | | | 4 | 4 | 2 | 4 | 14 |
| 4 | Punch List / Final Inspections | 6 | | | 1 | | | | | 14 |
| 5 | Project Closeout Documentation | 10 | 8 | 1 | 1 | | | | | |
| | | | | | | | | | | 225 |
| | MANDAY TOTALS: | 77 | 138 | 6 | 7 | 4 | 4 | 2 | 4 | 242 |
| | | | | | | | | | | |
| | ALDOT HOURLY CAP | | | \$ 19.00 | \$ 43.00 | \$ 23,00 | | \$ 37.00 | | |
| | HOURLY RATE: | | | \$ 19.00 | | \$ 23.00 | \$ 29.00 | | \$ 27.75 | |
| | DAILY RATE: | \$ 296.00 | \$ 178.88 | \$ 152.00 | \$ 344.00 | \$ 184.00 | \$ 232.00 | \$ 296.00 | \$ 222,00 | |
| | | | | | | | | - 500.00 | A 000 00 | * 50 044 44 |
| | TOTAL DIRECT LABOR: | \$22,792.00 | \$24,685.44 | \$ 912.00 | \$ 2,408.00 | \$ 736.00 | \$ 928.00 | \$ 592.00 | \$ 888.00 | \$ 53,941.44 |

OVERHEAD 183.32%: \$ 98,885.45 DIRECT JOB COSTS: \$ 12,980.25

SUB-TOTAL: \$165,807.14

PROFIT @ 10%: \$ 16,580.71

TESTING SUB-CONSULTANT FEE:

SUB-CONSULTANT MARK-UP 5%: \$ -FACILITIES CAPITAL COST 0.41%: \$ 221.16

TOTAL FEE AMOUNT: \$182,609.01

** Draft - subject to change based on contract days and bid amount **

| Project No. | CMAC NE | 12/009\ | | | | | | | |
|--|---|---------------|--------------------|------------|----|-----------|--|--|--|
| ļ | Project No. CMAQ-NR13(908) County Mountain Brook | | | | | | | | |
| , · | | | | | | | | | |
| ii - | Description Phase 9 Sidewalk Improvements | | | | | | | | |
| Scope of Work CE&I | | | | | | | | | |
| Project Length | 0.50 | Miles | | | | | | | |
| | | | | | | | | | |
| Consultant | | | | | | | | | |
| Out-of-pocket Expenses (Co | onstruct | ion Engine | ering and I | nspection) | | | | | |
| TRAVEL COST | | | | | | | | | |
| Mileage Cost | | Trips | Miles/Trip | \$/Mile | | Total | | | |
| Inspector - daily trips + 3 pre construction + 5 final | | 108 | 20 | \$0.545 | \$ | 1,177.20 | | | |
| Inspector - misc tasks (lab, supplier, etc) | | 10 | 40 | \$0.545 | \$ | 218.00 | | | |
| Project Manager - 2 pre construction + 40 during + 4 | 4 final | 46 | 15 | \$0.545 | \$ | 376.05 | | | |
| Survey Team - project site and/or borrow pit | | 4 | 50 | \$0.545 | \$ | 109.00 | | | |
| | | | Total Mileage | e Cost | \$ | 1,880.25 | | | |
| Subsistence Cost | | Days | # People | \$/Day | | Total | | | |
| Travel allowance (6 hour trips) | | 0 | 0 | \$11.25 | \$ | _ | | | |
| Travel allowance (12 hour trips - meal provided by o | thers) | Ó | Ó | \$20.00 | | _ | | | |
| Travel allowance (12 hour trips) | | Ö | Ò | \$30.00 | | 240 | | | |
| Travel allowance (overnight)*** | | Ó | Ó | \$75.00 | _ | - | | | |
| Traver anomalies (oronight) | | | | | \$ | | | | |
| | | <u> </u> | Total Subsist | tence Cost | \$ | | | | |
| | | | Total Travel | | \$ | 1,880.25 | | | |
| PRINTING / REPRODUCTION COST | | | | | | | | | |
| Type of printing/reproduction | # of Sets | Shoote/Sat | Total Sheets | Coet/Shoot | | Total | | | |
| Type or printing/reproduction | #.01.3665 | Sueersyser | LOTAL SHEARS | COSUSTIBLE | \$ | IOIAI | | | |
| | | | | | \$ | | | | |
| | | | | | \$ | | | | |
| | | Total Printin | ı ıg/Reproducti | on Cost | \$ | | | | |
| | | | igriteproducti | OII COSt | * | | | | |
| Communication Cost (telephone, fax, etc.) | | | | | | Total | | | |
| | | | | | \$ | 1-1-1 | | | |
| Postage Cost (overnight, stamps, etc.) | | | | | | Total | | | |
| Postage | | | - | | \$ | 300.00 | | | |
| Other (provide description on next line) | | Wife | | | | Total | | | |
| Concrete cylinder testing: 40 pours x 4 cylinders x \$ | 30 each | | _ | | \$ | 4,800.00 | | | |
| Other material testing (borrow, backfill, density, hot | | | | | \$ | 5,000.00 | | | |
| Field Supplies (marker paint, stakes, tape, cylinder) | | | | | \$ | 1,000.00 | | | |
| , | , = ==/ | | t-of-pocket E | Ynenses | \$ | 12,980.25 | | | |
| [O | | | it-or-pocket L. | xperiaca | Ψ | 12,300.20 | | | |
| | | | | | | | | | |
| Comments: | | | | | | | | | |
| | اداما امسم | | | | | | | | |
| ** Draft - subject to change based on contract days | and bid am | nount ** | | | | | | | |
| | and bid am | nount ** | | | | | | | |

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

Sam Gaston

From:

Bryan Word

Sent:

Wednesday, February 24, 2016 4:09 PM

To:

Sam Gaston; Sally Legg

Cc: Subject: 'Cafaro, Don' RE: Tree

Attachments:

EST-INST-City MB English Village street tree rev2-24-16.pdf



EST-INST-City MB English Villa...

Sam and Sally,

Attached is the revised pricing for the tree in English Village. It has been reduced a considerable amount from the budget. We are still making some assumptions, as noted on the proposal, that we are not going to encounter any significant subsurface obstacles. We will have utilities marked first, but you never know for sure that they've marked everything. Once utilities have been marked, we would want to mark the location of the bed for your final approval before we proceed. Please let me know if you have any questions. If you approve, I will need to secure the tree quickly because there is a shortage on Caks in these sizes this year. We also don't want to wait too far into spring to plant it, so we'll try to get it worked into the schedule as soon as possible. Thank you,

Bryan Word

Blackjack Horticulture, Inc.

5536 Derby Drive | Birmingham, AL 35210 Main 205.536.7523 | Direct 205.536.7526 | Fax 205.536.7527 www.blackjackhorticulture.com |

----Original Message----

From: Sally Legg [mailto:sallyslegg@gmail.com] Sent: Wednesday, February 24, 2016 1:33 PM

To: Bryan Word <jbword@blackjackhorticulture.com>

Subject: Tree

Bryan,

The tree selected for English village is a Nuttal Oak / Quercia Nuttallii.

Keep me informed about how things proceed.

Many thanks, Sally





5536 DERBY DRIVE BIRMINGHAM, AL 35210

Tel 205 536 7523 Fax 205 536 7527

blackjackhorticulture.com

A LANDSCAPE BUDGET FOR

City of Mountain Brook English Village alterations

revised 2/24/16

| ITEM | QUANTITY | UNIT | <u> []</u> | ITT PRICE | TOTAL |
|---|----------|--------|------------|-----------|----------------|
| Nuttall Oak | 1 | 4" cal | \$ | 857.42 | \$ 857.42 |
| Planting mix, backfill, and mulch | 1 | | \$ | 649.20 | \$ 649.20 |
| Remove brick pavers & install soldier course bed edge Based upon a 4'x8' size planting bed | | | \$ | 1,950.00 | \$ 1,950.00 |

AL Line Locators will be called to mark all utilities. Pricing assumes that original work was installed per the plans provided by architect with a 5" gravel base under the pavers, on top of normal subgrade material, and no utilities in the location of the bed. Any subsurface obstacles may incur additional costs to remedy.

Total Project \$ 3,456.62

TERMS AND CONDITIONS:

- A) BLACKJACK HORTICULTURE AGREES TO FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT FOR THE ABOVE MENTIONED WORK
- B) BLACKJACK HORTICULTURE IS LIGENSED AND INSURED TO PERFORM THE ABOVE MENTIONED WORK.
- C) BLACKJACK HORTICULTURE WARRANTS ITS WORKMANSHIP FOR A PERIOD OF ONE YEAR AGAINST ANY DEFECTIVE OR DETRIMENTAL WORKMANSHIP OR IMPROPER INSTALLATION OF MATERIAL. SOD IS WARRANTIED FOR A PERIOD OF 30 DAYS AFTER INSTALLATION. STATED WARRANTY SPECIFICALLY EXCLUDES BUT IS NOT LIMITED TO WATERING, DAMAGE DUE TO WATERING PRACTICES. INSECTS, DISEASE, OR OTHER CIRCUMSTANCES BEYOND OUR CONTROL. BLACKJACK HORTICULTURE IS NOT RESPONSIBLE FOR ANY DAMAGE RESULTING FROM WATERING OR OTHER RESTRICTIONS IMPOSED BY PUBLIC WORKS ENTITIES OR OTHER CIVIL AUTHORITIES. BLACKJACK HORTICULTURE IS NOT RESPONSIBLE FOR AND DOES NOT WARRANTY PLANTS THAT HAVE BEEN TRANSPLANTED, UPROOTED, OR OTHERWISE DISTURBED/MOVED FROM THEIR ORIGINAL LOCATION. ANY PLANTING NOT IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM IS EXCLUDED FROM ANY AND ALL WARRANTIES.
- D) BLACKJACK HORTICULTURE IS NOT RESPONSIBLE FOR ANY SUBSURFACE OBSTACLES OR DEBRIS (i.e., ROCK) THAT MAY PREVENT PLANTS, IRRIGATION, MASONRY WORK, OR ANY OTHER PART OF THE CONTRACT FROM BEING IMPLEMENTED AS ORIGINALLY INTENDED.

 ANY EXCAVATION OR REMOVAL OF SUCH ITEMS OR ANY REQUIRED RE-DESIGN MAY RESULT IN ADDITIONAL CHARGES TO THE OWNER.

 BLACKJACK HORTICULTURE IS NOT RESPONSIBLE FOR DAMAGE CAUSED TO ANY UNDERGROUND OR HIDDEN ITEMS NOT CLEARLY GUARDED OR MARKED.
- E) THE ABOVE PROPOSAL IS A DESCRIPTION OF THE WORK TO BE PERFORMED. ANY ITEM NOT SPECIFICALLY DETAILED ABOVE SHOULD BE ASSUMED TO NOT BE INCLUDED UNLESS OTHERWISE STATED. IF SPECIFIC PLANT TYPES ARE NOT AVAILABLE AT TIME OF INSTALLATION, A VIABLE SUBSTITUTE WILL BE RECOMMENDED TO THE OWNER; IF SPECIFIC SIZES OF MATERIAL ARE NOT AVAILABLE AT THE TIME OF INSTALLATION, THE NEXT MOST SIMILAR SIZE WILL BE SELECTED SO LONG AS IT IS CLOSELY COMPARABLE TO THE ORIGINAL. IF A COMPARABLE SIZE IS NOT AVAILABLE, A VIABLE SUBSTITUTE WILL BE RECOMMENDED TO THE OWNER.
- F) BLACKJACK HORTICULTURE IS NOT RESPONSIBLE FOR DESIGN FLAWS, ERRORS, OR OMMISSIONS IN ANOTHER PERSON'S DESIGN, NOR IS BLACKJACK RESPONSIBLE FOR PLANT MATERIAL THAT DOES NOT SURVIVE DUE TO IMPROPER PLANT SELECTION OR PLACEMENT SPECIFIED BY OTHERS.
- G) PRICES GOOD ONLY IF ACCEPTED WITHIN 30 DAYS

- H) FINAL INVOICE WILL REFLECT ACTUAL QUANTITIES INSTALLED USING UNIT PRICES WHERE APPLICABLE. IF MATERIAL HAS BEEN PURCHASED PRIOR TO ANY CHANGES, CUSTOMER IS OBLIGATED TO PAY FOR ANY COST ASSOCIATED WITH THE MATERIAL, ANY APPLICABLE FREIGHT/DELIVERY, PLUS A 30% HANDLING FEE. IF MATERIAL HAS BEEN INSTALLED PRIOR TO CHANGES, CUSTOMER IS OBLIGATED TO PAY FOR THE MATERIAL IN FULL AT ITS ORIGINAL PROPOSED PRICE, PLUS ANY COSTS INCURRED IN REMOVING THE MATERIAL.
- I) CUSTOMER AGREES TO PAY BLACKJACK HORTICULTURE A DEPOSIT IN THE AMOUNT OF 35% OF THE TOTAL DOLLAR AMOUNT LISTED ABOVE PRIOR TO COMMENCMENT OF WORK AND FURTHER AGREES TO PAY THE REMAINING BALANCE UPON FINAL COMPLETION OF WORK. ANY PROJECT WITH A DURATION LONGER THAN ONE MONTH MAY BE SUBJECT TO PROGRESS BILLING AT THE END OF EACH MONTH BASED UPON COMPLETED WORK TO DATE.
- J) ALL PAYMENTS ARE DUE WITHIN THE TERMS SET FORTH ON INVOICE. ANY PAST DUE PAYMENTS ARE SUBJECT TO LATE FEES AS DETAILED ON INVOICE.
- K) BLACKJACK HORTICULTURE RESERVES THE RIGHT TO ENGAGE THE SERVICES OF AN ATTORNEY OR OTHER COLLECTIONS AGENCY IN ORDER TO ENFORCE THE TERMS OF THIS AGREEMENT AND/OR COLLECT ANY LATE PAYMENTS IT MAY BE DUE. SHOULD THIS BECOME NECESSARY, ANY AND ALL ATTORNEY'S OR COLLECTION'S FEES WILL BE ADDED TO ANY PREVIOUS AMOUNT OWED BLACKJACK HORTICULTURE AND WILL BE DUE AND PAYABLE BY THE CUSTOMER.
- L) BY SIGNING BELOW THE CUSTOMER REPRESENTS THAT THEY ARE THE RESPONSIBLE PARTY FOR THIS AGREEMENT AND ITS OBLIGATIONS AND ARE LEGALLY ABLE AND AUTHORIZED TO ENTER INTO THIS AGREEMENT AS THE OWNER OR ON BEHALF OF THE OWNER.

 CUSTOMER FURTHER AGREES WITH THE TERMS AND CONDITIONS SET FORTH IN THIS DOCUMENT AND THE THE DESCRIPTION OF WORK TO BE PERFORMED DESCRIBED ABOVE AND ACKNOWLEDGES THAT ANY OTHER ITEMS OUTSIDE THE SCOPE OF WORK DESCRIBED ABOVE WILL BE PERFORMED AT AN ADDITIONAL CHARGE THAT BECOMES DUE AND PAYABLE UPON COMPLETION.

| SUBMITTED BY: | |
|------------------------------|--------------------|
| BRYAN WORD | CUSTOMER SIGNATURE |
| BLACKJACK HORTICULTURE, INC. | |
| 3 | DATE |

Paving List 2016

Memory Court - All

Mountain Avenue - All

Elm Street - North of Euclid Avenue

Main Street - North of Euclid

Cherry Street - North of Euclid

Peachtree Road - All

Peachtree Circle - All

Ross Drive - All

Forest Avenue - All

Fairmont Drive - All

Lorena Lane - All

Braddock Avenue - All

Heritage Circle - All

Azalea Road - All

Montgomery Drive - All in city

Bentley Drive - All

Camelia Drive - All

Sims Avenue - Between Camelia and Beech

Nash Circle - All

Beech Street All in city

Beech Court - All

Beech Circle - All in city

Beech Lane - All in city

Fox Hall - All

Green Briar Circle - All

Haygood Street - All in city

Sims Avenue - Hagood to Montevallo

Eastis Road - All

Green Briar Lane - Euclid to Montevallo

Norman Drive - All

Winthrop Avenue - All

Alden Lane - All

Clarendon Road - All

Montevallo Road - From Montcrest to Green Brian

Old Leeds Road - From Forest Glen to 4100 Old Leeds (Cherokee Rd.)

AGREEMENT FOR CONSULTING SERVICES

BETWEEN

THE CITY OF MOUNTAIN BROOK, ALABAMA

AND

WALTER SCHOEL ENGINEERING COMPANY, INC.

FOR

ASSESSMENT OF FLOODING ALONG FURNACE BRANCH

Mountain Brook, Alabama

February 18, 2016

This AGREEMENT, entered into by and between The City of Mountain Brook, Alabama, hereinafter referred to as the Client, and Walter Schoel Engineering Company, Inc., hereinafter referred to as the Consultant, is for Consulting Services associated with assessing the flooding along Furnace Branch within the City of Mountain Brook, Alabama.

SCOPE OF WORK

1. FLOOD ASSESSMENT

The Consultant would conduct a preliminary assessment of the reported flooding along Furnace Branch within the City, specifically in the area of Appomatox Lane and Stone River Road. As part of this scope, the Consultant will conduct a site visit to review the stream and floodplain area and note any identifiable obstructions. In addition, the Consultant will review models and associated data from available studies such as the Upper Shades Creek All Hazards Study and the Flood Insurance Study for the assessment. Information obtained from the site visit, model analysis, and historical storm data will be compiled in a brief report along with recommended course of action. Upon completion, the Consultant would meet with the City to review the assessment and recommendations. The detailed scope is as follows:

- Conduct a site visit to identify potential obstructions or causes of flooding
- Review in-house models and data
- Research historical storms that resulted in flood damage
- Prepare brief report that summarizes assessment and recommendations

Not to Exceed \$5,000

NOT IN SCOPE OF WORK

- 1. Design of flood mitigation measures
- 2. Field surveying
- 3. Detailed hydrologic/hydraulic modeling

PAYMENT TERMS

The Consultant will bill the Client monthly based on work completed during the previous month. Work completed will be based on time and materials at the below schedule of unit rates. Payments are due thirty (30) days following receipt

of invoice. The Client's obligation to pay for services is in no way dependent upon the Client's ability to obtain financing, obtain approval from any governmental or regulatory agencies, real estate closing, receipt of payment from other parties or upon successful completion of the project' provided that Consultant will not commence performance of the Work or provide any services until Client advises Consultant in writing that approval of this agreement has been obtained from the City's governing body or other appropriate City official. Should Consultant incur attorney's fees for collection of uncontested payments due it for its Work, the amount owed to Consultant shall include any said reasonable fees. In addition, Consultant reserves the right to suspend services under this Agreement until such time as payment is made in full for any uncontested amount due for services rendered has been received.

SCHEDULE OF UNIT RATES

| Senior Principa | .1 | \$ 250.00 per hour |
|------------------|-----------------------------------|--------------------------|
| Principal | | \$ 175.00 per hour |
| Chief Land Sur | veyor | \$ 175,00 per hour |
| Senior Project | Manager | \$ 140.00 per hour |
| Project Manage | er 2 | \$ 130.00 per hour |
| Project Manage | er 1 | \$ 120.00 per hour |
| Senior Professi | onal | \$ 120.00 per hour |
| Project Profess | ional | \$ 110.00 per hour |
| Staff Profession | nal | \$ 95.00 per hour |
| Senior Designe | r / Survey Draftsman / Specialist | \$ 95.00 per hour |
| Designer / Surv | vey Draftsman / Specialist 2 | \$ 85.00 per hour |
| Designer / Surv | vey Draftsman / Specialist 1 | \$ 75.00 per hour |
| Field Survey Pa | arty | \$ 165.00 per hour |
| Laser Scanning | ; Field Crew | \$ 200.00 per hour |
| Laser Scanning | Specialist | \$ 125.00 per hour |
| Admin Support | /Intern | \$ 60.00 per hour |
| Courier | | \$ 25.00 per delivery |
| Transportation | | \$ 0.50 per mile |
| Materials | (Stakes and Hubs) | \$ 0.35 each |
| | (Flagging) | \$ 2.50 per roll |
| | (Iron Pins and Caps) | \$ 5.00 each |
| | (Spray Paint) | \$ 5.00 per can |
| | | |

Printing and other reimbursable expenses will be charged at cost, and are not included in the fee basis described above. Sub-consultant invoices will be billed to the client at a rate of 110% of the sub-consultant invoice. Overtime rates may apply for work required during non-standard work hours.

GENERAL TERMS AND CONDITIONS

Services performed under this Agreement will be conducted in a manner consistent with that level of care and skill
exercised by members of the profession currently practicing under similar conditions. Plans, specifications, and
submittals will be prepared in accordance with the written standards of the governing authorities having
jurisdiction. Any extraordinary requirements for approvals will be considered additional services. No other
warranty, expressed or implied, is made. Nothing in this agreement is intended to create, nor shall it be construed to
create, a fiduciary duty owed by either party to the other party.

- 2) The Client hereby agrees that to the fullest extent permitted by law the Consultant's total liability to Client for any and all injuries, claims, losses, expenses of damages whatsoever arising out of or in any way relating to the project, the site, or this Agreement, from any cause or causes including but not limited to the Consultant's negligence, errors, omissions, strict liability, breach of contract, breach of warranty shall not exceed the greater of the total amount paid by the Client for the services of the Consultant under this contract or \$50,000.00, whichever is greater. The Consultant's liability shall expire one (1) year from the completion date of the provision of services for each phase of the work.
- 3) The figures given above and in the body of this Agreement are based on the Scope of Work as described herein. If the above outlined Scope of Services is changed, or if there are other services that may be requested by the Client, these additional services will also be performed at the above unit rates, or a revised fee will be negotiated to the satisfaction of both the Client and Consultant at that time. The Consultant reserves the right to adjust these unit rates for inflation costs on a one-year interval from the date of this proposal.
- 4) All claims, disputes, and other matters in controversy between Consultant and Client arising out of or in any way related to this agreement (other than as a result of Client's failure to pay amounts due hereunder) will be submitted to mediation before, and as a condition precedent to, other remedies provided by law. Mediation shall be held in the county where the project is located, and if the parties cannot agree on a mediator then one shall be appointed by the American Arbitration Association (AAA). Parties agree to split cost of mediation 50-50.
- 5) Services not expressly set forth in writing as basic or additional services and listed in the proposal to this Agreement are excluded from the scope of the Consultant's services, and the Consultant assumes no duty to the Client to perform such services.
- 6) Client, at its expense, will provide the Consultant with all required site information, existing plans, reports, studies, project schedules and similar information that is contained in Client's files. The Consultant may rely on the information provided by the Client without verification. The Client shall participate with the Consultant by providing all information and criteria in a timely manner, review documents and make decisions on project alternatives to the extent necessary to allow the Consultant to perform the scope of work within established schedules.
- 7) Consultant shall secure and maintain insurance as required by law or statutory requirements which will protect him from claims under the workers compensation acts and from claims for bodily injury, death, or property damage that may arise from the performance of his services under and pursuant to this Agreement. Certificates of such coverage will be provided to Client upon request.
- 8) All reports, plans, documents, or other materials resulting from the Consultant's efforts shall remain the property of the Consultant and are intended solely for the purpose of this Agreement. Any reuse by Client for purposes outside of this Agreement or any failure to follow Consultant's recommendations without Consultant's written permission shall be at the user's sole risk.
- 9) This Agreement may be terminated by either party upon seven (7) days written notice in the event of substantial failure to perform in accordance with the terms of the agreement by the other party through no fault of the terminating party. If this Agreement is terminated, it is agreed that Consultant shall be paid for total charges for labor performed to the termination notice date, plus reimbursable charges.
- 10) Neither party to this Agreement will be liable to the other party for delays in performing the services, nor for the direct or indirect cost resulting from such delays, that may result from labor strikes, riots, war, acts of governmental authorities, extraordinary weather conditions or other natural catastrophes, or any other cause beyond the reasonable control of either party.
- 11) The invalidity of any portion of this Agreement will not and shall not be deemed to affect the validity of any other provision. In the event that any provision of this Agreement is held to be invalid, the parties agree that the remaining provisions shall be deemed to be in full force and effect.

- 12) The Consultant shall not be responsible for construction site safety or construction procedures, nor will the Consultant be responsible for the quality of the work performed by the contractor or other consultants.
- 13) Consultant may, at Client's request and for Client's convenience, provide documents in electronic format. Data, words, graphical representations, and drawings that are stored on electronic media or which are transmitted electronically, may be subject to uncontrollable alteration. The printed, signed and sealed hard copy is the actual professional instrument of service. In the event of a discrepancy between the electronic document and the hardcopy document, the hardcopy document will prevail.

PROPOSAL ACCEPTANCE

| SUBMITTED: | ACCEPTED: |
|--|---|
| Consultant: Walter Schoel Engineering Company, Inc. | Client: The City of Mountain Brook, Alabama |
| Signature: Wald All M | Signature: |
| Name: Walter Schoel III | Name: |
| Title: President | Title: |
| Date: February 18, 2016 | Date: |
| Please print or type the following information for the individ Company: | |
| Client or Client's authorized representative: | |
| Street Address: | |
| City, State, Zip: | |
| Phone Number: Fax N | |
| Email Address: | |
| Client's Project Number:Client | |

From: Anne Johnson

Sent: Thursday, February 04, 2016 11:43 AM

To: Diane Beck; Nan Crow; Heather Brock; Kelly Thompson; Mary Beth Wood;

ppylantbankston@gmail.com; Sam Gaston; gayj@mtnbrook.org; vaughnr@mtnbrook.org

Subject: Fwd: Furnace Branch

I forwarded Sam's email to you in hopes that you have damage issues and regular flooding info that would help secure a FEMA grant. Please ask your neighbors to help with gathering this information. Thank you so much. Anne

Sent from my iPhone

Begin forwarded message:

From: Sam Gaston <<u>gastons@mtnbrook.org</u>> **Date:** February 3, 2016 at 1:42:54 PM CST

To: Anne Johnson <<u>ajohn123@bellsouth.net</u>>

Cc: Ronald Vaughn < vaughnr@mtnbrook.org >, James Gay < gayi@mtnbrook.org >

Subject: RE: Furnace Branch

How often has your house flooded? We could apply for a FEMA grant to do some drainage modifications, but I highly doubt it would be approved due to the relative low amount of property damage or risk of property damage from Furnace Branch. I know any damage to your home is critical to you, but FEMA relies on the potential damage in the future, that is why we got a large grant several years ago to do the major drainage improvement project in Mtn. Brook Village.

Let's check with Public Works to see if they have any other suggestions and if Furnace Branch is scheduled to have vegetation removed this year.

Sam S.Gaston

City Manager

City of Mountain Brook, AL.

56 Church Street

P.O. Box 130009

Mountain Brook AL. 35213

(205) 802-3803 Phone

(205) 870-3577 Fax

----Original Message----From: Anne Johnson [mailto:ajohn123@bellsouth.net] Sent: Wednesday, February 03, 2016 12:25 PM To: Sam Gaston Subject: Re: Furnace Branch Do you have any suggestions as to what can be done to alleviate this problem? Sent from my iPhone On Feb 2, 2016, at 6:04 PM, Sam Gaston <<u>gastons@mtnbrook.org</u>> wrote: Sorry, I disagree with you. You just don't go out and start dredging a creek. US Corp of Engineers, US Fish and Wildlife and the Alabama Dept of Environmental Management have jurisdiction over this. Sam S.Gaston City Manager City of Mountain Brook, AL. 56 Church Street P.O. Box 130009 Mountain Brook AL. 35213 (205) 802-3803 Phone (205) 870-3577 Fax ----Original Message----

From: Anne Johnson [mailto:ajohn123@bellsouth.net]

Sent: Tuesday, February 02, 2016 5:31 PM

To: Sam Gaston

Cc: Diane Beck; Nan Crow; Kelly Thompson; Heather Brock; Mary Beth Wood;

Pam Bankston

Subject: Re: Furnace Branch

Sam that is really an unacceptable answer. Have you lived in a house

that

floods which was not zoned as being in a flood plain when bought?

Perhaps

the city would like to purchase this house or jack it up since permits

etc

are so expensive. Flood insurance is a joke. It doesn't even provide for

а

hotel so we live in here along with sewage water residue. And who will

buy

this house? Our mayor suggested in 1999 that we not disclose the fact

that

we have flooded. I do believe that is fraud. I really would appreciate someone taking this problem seriously.

Sent from my iPhone

On Feb 2, 2016, at 12:46 PM, Sam Gaston <<u>gastons@mtnbrook.org</u>> wrote:

Dredging is not a good option due to all the state and federal permits

we

would have to obtain. Cleaning the creek as well as removing some of

the

vegetation along the shores are our best options.

Sam S.Gaston

City Manager

City of Mountain Brook, AL.

56 Church Street

P.O. Box 130009

Mountain Brook AL. 35213

(205) 802-3803 Phone

(205) 870-3577 Fax

----Original Message----

From: Anne Johnson [mailto:ajohn123@bellsouth.net]

Sent: Tuesday, February 02, 2016 10:28 AM

To: Sam Gaston

Cc: Diane Beck; Nan Crow; Kelly Thompson; Heather Brock;

Mary Beth

Wood;

Pam Bankston

Subject: Furnace Branch

Thank you Sam. We would be very relieved if the creek was dredged as

several of us have had continuing damage from flood waters. Please keep

me

posted and I will share with my neighbors.

Sent from my iPhone

From:

Nan Crow

Sent:

Tuesday, February 09, 2016 9:15 PM

To: Subject: gastons@mtnbrook.org Furnace Branch flooding

Dear Sam,

Our family has lived on Appomattox Lane for the last 25 years. We have sustained significant flood damage twice and several times water under our house damaging our ductwork. In the last two years I am noticing a more frequent trend of the creek spilling over into our yard. I am also seeing the banks of the creek eroding and losing more and more of our backyards. We really could use the city's help keeping the creek in the banks. Our neighbors have been reluctant to complain, in fact the only time I have contacted anyone was when Mr. Grayson was serving as mayor. We had a June flood that year that was horrible. This was the year Mountain Brook Club was working on their creek system. (Rumor has it that the creek was blocked). Upon completion of their project, we had years of relief. Is there anything the city can do to help us? In addition, we must move our cars to the street if we flood. Is there anyway the police could warn us if the creek is way out of the banks? I look forward to hearing from you. Sincerely,

Nan Crow

4155 Appomattox Lane

Sent from my iPad

From: Heather Brock

Sent: Wednesday, February 10, 2016 8:00 AM

To: 'Sam Gaston'

Subject: Furnace Branch Creek

Mr. Gaston:

One of my neighbors emailed asking us to gather the information for you regarding flooding of the creek. I live at 4143 Appomatox Lane. We moved here in 2005 and never had any problems with the creek until a few years ago. Recently we have had significant flood damage and several VERY close calls. In the past, the creek would drain quickly if there was a small break in the rain, but now it seems to take a longer time to drain leaving water in our yards. My grass in the back yard has mostly died because of the water.

In 2014, the water rose so quickly that our Lexus was totaled. It was parked in the driveway and the water filled the car up to the windows. We also lost everything in our garage including a refrigerator and an electric scooter. Our outdoor generator that is on a raised platform filled with water and sustained a significant amount of damage. The loss from that flood totaled around \$16,000. The water was around 2-3 feet deep in our garage.

During a heavy rain a few weeks ago my entire backyard was under water. That is the reason I got so upset when I saw a neighbor down the creek building structures in the creek that could potentially hinder the flow of the water. I do not know what can be done about this, but any help we can get from the city would be greatly appreciated. We love our street and would like to maintain the property values and exterior appearance while protecting our personal property as much as possible.

Thank you, Heather and Richard Brock 4143 Appomattox Lane Birmingham, AL 35213 205-871-8215

From: Thompson, Lee

Sent: Wednesday, February 10, 2016 9:05 AM

To: gastons@mtnbrook.org

Subject: Furnace Branch Flooding and Erosion Concerns

Mr. Gaston,

I live at 4151 Appomattox Lane and Furnace Branch borders the rear of my property. I am sending you this message joining with my neighbors about concerns of the frequent flooding of Furnace Branch. We bought the property in 2012 with the understanding the lot was in a flood plain. I have owned property before in a flood plain and never had issues, therefore I was not concerned at the time of purchase. Since we have owned the property on Appomattox Lane Furnace Branch has come out of its banks about every 6 months and increased the depth of the branch 3-4 feet too numerous times to count (the normal depth is approximately 4-6"). On one specific occasion in May 2014 the water entered certain areas of my home causing approximately \$40,000 worth of damage. According to my neighbors the water level was approximately equal to a rain event around 1993 that caused flood damage in their homes. At that time the rain event was called a 100 year flood. My point is that the creek appears to be rising more frequently than I would expect.

I understand that living next to water comes with circumstances that are up to mother nature—got it. My concern is that I am seeing (and paying for) the effects of poor drainage management downstream. The poor maintenance is causing erosion of the bank into my property and water damage to my property that is avoidable. I know that branches, creeks, etc fall under federal regulation where I would have no voice. I would appreciate any help the city can give to investigate the cause of the overflowing branch and solutions that can be considered.

Thank you for your time in reading this message. Sincerely,

Lee Thompson 4151 Appomattox Lane Mountain Brook, AL 35213 Cell—205.965.4383

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CITY OF MOUNTAIN BROOK

P. O. Box 130009 Mountain Brook, Alabama 35213-0009 Telephone: 205.802.2400 www.mtnbrook.org

To:

Sam Gaston, City Manager

From:

Steven Boone

Subject:

Installation of fiber at Fire Station 2 (Locksley)

Date:

March 9, 2016

As you recall, the Council authorized the renewal/upgrade of AT&T telecommunication, ethernet (WAN), and internet services on January 11, 2016 (Resolution No. 2016-007). These services require that all incoming facilities to municipal buildings be fiber-based as opposed to copper. The only location that has not already been upgraded to fiber is Station 2 at Locksley Drive.

Attached is a proposal in the amount of \$8,503 from Stone & Sons Electrical Contractors to install the fiber facilities (by way of boring) from the utility pole into the building along with interior conduit, raceway, and ground terminal. The City has considered both boring and trenching. While there are some potential unknowns with boring that could adversely affect the price quote attached, the trenching option is not much less as it requires a longer run (to avoid the roots of a large tree) combined with the restoration of a stone pathway and landscaping.

If we elect not to upgrade the copper facilities to fiber, Station 2 will be cut-off from the City's WAN, telephone and Internet services. We need to proceed with the fiber upgrade to proceed with the telecommunication, ethernet, and Internet installation and transition.



Electrical Contractors, Inc.

March 9, 2016

City of Mt. Brook 1.T. Department 56 Church Street P.O. Box 130009 Mountain Brook Alabama 35243

Attention: Steve Odell
Regarding: Fire Station #2
3785 Locksley Dr.
Underground Fiber Optic Duct

Stone and Sons Electrical Contractors is pleased to offer you an estimate for the following scope of work.

Furnish labor, material and equipment for the installation of an underground duct for fiber optic cable to include the following:

- Furnish and install a 2" underground duct for fiber optic cable.
- Install a 2" metallic raceway on exterior wall for protection.
- Metallic conduit to be stubbed into attic space changing to PVC to complete raceway to Telephone Backboard.
- Underground duct to be installed via directional boring between AT&T pedestal and exterior of fire station, behind the air conditioner condenser.
- Install pull cord for installation of fiber optic cable by others.
- Install dedicated grounding electrode and grounding conductor to Telephone Backboard.
- Install grounding terminal bar on Telephone Backboard.
- Provide temporary barrier for prevention of slurry run off at right of way near pedestal.
- Permit and inspection from the City of Mtn. Brook inspection services.

The estimate for this work is \$8,503.00 This estimate is valid for 30 days.

Exclusions:

- Utility line locates other than those provided by Alabama One Call, to be performed by others.
- Repair and or replacement of any unmarked utilities damaged during construction.
- Rock drilling and excavation.
- Erosion control other than as mentioned above.
- Landscape repairs.
- Irrigation piping or controls repair.
- Utility company charges.
- · Errors or omissions by others.

Certificate of insurance, Certificate of Workman's Comp and E-Verify are available upon request. Please do not hesitate to call if you have any questions or require more information.

Best regards,

Dwight Sutherland

Dwight Sutherland Service Manager DSUTHERLAND@STONEANDSONS.com

2530 Queenstown Road • Birmingham, AL 35210 • Office: (205) 833-8494 • Fax: (205) 833-939

