CITY COUNCIL AGENDA ITEM COVER MEMO

Agenda Item Number: _____

Meeting Type: Regular

Meeting Date: Jul 14, 2016

Action Requested By: Engineering

Agenda Type: Resolution

Subject Matter:

Agreement between the City of Huntsville and OMI, Inc.

Exact Wording for the Agenda:

Resolution authorizing the Mayor to enter into an agreement between the City of Huntsville and OMI, Inc. for Construction Materials Testing Services for Fagan Creek Culvert Extension, Project No. 65-15-DR01

Note: If amendment, Please state title and number of the original

Item to be considered for: Action

Unanimous Consent Required: No

Briefly state why the action is required; why it is recommended; what council action will provide, allow and accomplish and; any other information that might be helpful.

This agreement is to provide construction testing services on Fagan Creek Culvert Extension. Contract Amount in a Not to Exceed (NTE) Ceiling Price of $26,000.00. Account No. 3020-71-00000-527000-PR8217XX

Associated Cost: $26,000.00

Budgeted Item: Yes

NC

MAYOR RECOMMENDS OR CONCURS: _____

Department Head: Kathy Marc

Date: 7/12/16

ROUTING SLIP
CONTRACTS AND AGREEMENTS

Originating Department: **Engineering** Council Meeting Date: **7/14/2016**

Department Contact: **Lameka Carter** Phone # **256-427-5304**

Contract or Agreement: **Construction Materials Testing**

Document Name: **OMI-Fagan Creek Culvert Extension-Project No. 65-15-DR01**

City Obligation Amount: **$26,000.00**

Total Project Budget: **$26,000.00**

Uncommitted Account Balance: **0**

Account Number: **3020-71-00000-527000-PR8217XX**

Procurement Agreements

Not Applicable	**Not Applicable**

Grant-Funded Agreements

Not Applicable	**Grant Name:**

Department	Signature	Date
1) Originating	Kathy Morris	7/12/16
2) Legal	Mary C Cates	7/12/16
3) Finance	M Sargent	7-12-16
4) Originating		
5) Copy Distribution		
a. Mayor's office (1 copies)		
b. Clerk-Treasurer (Original & 2 copies)		

Revised 04/15/2011

RESOLUTION NO. 16-_____

BE IT RESOLVED by the City Council of the City of Huntsville, Alabama, that the Mayor be, and is hereby authorized, to enter into an agreement between the City of Huntsville and OMI, Inc. in a Not to Exceed (NTE) Ceiling Price of TWENTY-SIX THOUSAND AND NO/100 DOLLARS ($26,000.00) for Construction Materials Testing Services for Fagan Creek Culvert Extension, Project No. 65-15-DR01, in Huntsville, Alabama, on behalf of the City of Huntsville, a municipal corporation in the State of Alabama, which said agreement is substantially in words and figures similar to that document attached hereto and identified as "Agreement between City of Huntsville and OMI, Inc. for Construction Materials Testing Services for Fagan Creek Culvert Extension, Project No. 65-15-DR01" consisting of a total of eighteen (18) pages plus twenty-nine (29) additional pages consisting of Attachments 1-15, and the date of July 14, 2016, appearing on the margin of the first page, together with the signature of the President or President Pro Tem of the City Council, and an executed copy of said document being permanently kept on file in the Office of the City Clerk of the City of Huntsville, Alabama.

ADOPTED this the 14th day of July, 2016.

_____
President of the City Council of the City of Huntsville, Alabama

APPROVED this the 14th day of July, 2016.

_____
Mayor of the City of Huntsville, Alabama

AGREEMENT BETWEEN

CITY OF HUNTSVILLE, ALABAMA

AND

OMI, INC.

FOR

CONSTRUCTION MATERIALS TESTING SERVICES

FOR

FAGAN CREEK CULVERT EXTENSION

Project No. 65-15-DR01

July 14, 2016

President of the City Council of the City of Huntsville, AL
Date: July 14, 2016

TABLE OF CONTENTS

ARTICLE 1 - ENGAGEMENT OF THE ENGINEER.....
ARTICLE 2 – ARTICLE OMITTED.....
ARTICLE 3 - CONSTRUCTION MATERIALS TESTING SERVICES OF THE ENGINEER .....
ARTICLE 4 - ADDITIONAL SERVICES.....
ARTICLE 5 - RESPONSIBILITIES OF OWNER.....
ARTICLE 6 - PERIOD OF SERVICES.....
ARTICLE 7 - PAYMENT TO THE ENGINEER.....
ARTICLE 8 - GENERAL PAYMENT PROCEDURE.....
ARTICLE 9 - GENERAL CONSIDERATIONS.....
ARTICLE 10 - INDEMNITY AND INSURANCE.....
ARTICLE 11 - MISCELLANEOUS PROVISIONS.....
ATTACHMENT 1 - SCOPE OF SERVICES.....
ATTACHMENT 2 - ALABAMA IMMIGRATION ACT-REPORT OF OWNERSHIP FORM
ATTACHMENT 3 - CITY OF HUNTSVILLE STANDARDS AND DESIGN GUIDES.
ATTACHMENT 4 - ATTACHMENT OMITTED.....
ATTACHMENT 5 - ENGINEERS PERSONNEL FEE SCHEDULE.....
ATTACHMENT 6 - PROGRESS REPORT.....
ATTACHMENT 7 - SUB-CONSULTANTS ENGAGED BY THE ENGINEER.....
ATTACHMENT 8 - CONTRACT DOCUMENT REQUIREMENTS LIST.....
ATTACHMENT 9 - REQUIREMENTS FOR DOCUMENT SUBMITTALS.....
ATTACHMENT 10 –UTILITY PROJECT NOTIFICATION FORM.....
ATTACHMENT 11 – SAMPLE STANDARD DRAWING FORMAT.....
ATTACHMENT 12 – ROW SUBMITTAL.....
ATTACHMENT 13 – U.S. NATIONAL MAP ACCURACY STANDARDS.....
ATTACHMENT 14 – REAL ESTATE PLAN REQUIREMENTS.....
ATTACHMENT 15 – GIS BASE MAP.....

AGREEMENT BETWEEN
CITY OF HUNTSVILLE, ALABAMA
AND
OMI, INC.
FOR
CONSTRUCTION MATERIALS TESTING SERVICES
FOR
FAGAN CREEK CULVERT EXTENSION

Project No. 65-15-DR01

THIS AGREEMENT made as of the 14th day of July in the year 2016, by and between the CITY OF HUNTSVILLE, ALABAMA (hereinafter called OWNER), and OMI, INC., (hereinafter called ENGINEER).

WITNESSETH, for the considerations hereinafter set forth, the parties hereto agree as follows:

ARTICLE 1 - ENGAGEMENT OF THE ENGINEER

The OWNER hereby engages the ENGINEER, and the ENGINEER hereby accepts the engagement to provide general engineering and consultation as a representative of the OWNER to include the following:

1.1 Professional construction materials testing services for Fagan Creek Culvert Extension, as further described in ARTICLE 2, and hereinafter called PROJECT.

1.2 By executing this Agreement, the ENGINEER represents to the OWNER that the ENGINEER is a professional qualified to act as the ENGINEER for the PROJECT and is licensed and certified to practice engineering by all public entities having jurisdiction over the ENGINEER and the PROJECT. The ENGINEER further represents to the OWNER that the ENGINEER will maintain all necessary licenses, certifications, permits or other authorizations necessary to act as ENGINEER for the PROJECT until the ENGINEER's remaining duties hereunder have been satisfied. The ENGINEER shall assign only qualified personnel to perform any service concerning the PROJECT. All services rendered by the ENGINEER for the PROJECT shall be performed by or under the immediate supervision of experienced and qualified professionals licensed, certified, and registered as appropriate in the State of Alabama possessing the expertise in the discipline of the service being rendered. The ENGINEER assumes full responsibility to the OWNER for the negligent acts, errors and omissions of its consultants or others employed or retained by the ENGINEER in connection with the PROJECT.

1.3 Execution of this Agreement by the ENGINEER constitutes a representation that the ENGINEER has become familiar with the PROJECT site and the local conditions under which the PROJECT is to be implemented. The ENGINEER agrees to provide all necessary construction materials testing services required to professionally accomplish the ENGINEER's defined scope of services.

ARTICLE 2 – DESIGN SERVICES OF THE ENGINEER

ARTICLE OMITTED

ARTICLE 3 – CONSTRUCTION TESTING SERVICES

3.1 The ENGINEER shall provide to OWNER, professional services for activities that occur after the 100% submittal has been made. These services shall include, but not be limited to, consultation and advise, engineering support, testing services, report & documentation as needed.

3.2 The ENGINEER shall provide Construction Testing as described below and shall perform those duties and discharge those responsibilities set forth herein.

3.3 The ENGINEER shall represent the OWNER during construction testing. The ENGINEER shall act on behalf of the OWNER only to the extent provided herein. The ENGINEER shall be the OWNER'S design representative during performance of the PROJECT, shall consult with and advise the OWNER on all design and technical matters, and shall be the OWNERS representative in dealing with the construction contractor.

3.4 The ENGINEER shall attend pre-construction meetings, attend monthly progress meetings, provide site inspection with the OWNER's approval to the extent necessary to ensure construction is in conformance with the design, resolve the contractor's questions concerning interpretation of the construction documents, act as OWNERS representative in disputes and on claims, and attend public meetings arising out of the construction process.

3.5 The ENGINEER shall provide the same technician throughout the project, unless otherwise approved in writing by the OWNER, that is proven to be qualified/certified for the duties as assigned.

3.6 The ENGINEER shall be the initial interpreter of the requirements of the construction documents and the judge of the performance thereunder by the contractor. The ENGINEER shall act as the OWNER's advisor on claims. The ENGINEER shall render written or graphic interpretations and decisions necessary for the proper execution or progress of the Work with reasonable promptness on request of the contractor.

3.7 The ENGINEER shall reject work that does not conform to the contract documents unless directed by the OWNER, in writing, not to do so. Whenever, in the ENGINEER's opinion, it is necessary or advisable, the ENGINEER shall require special examination or testing of the work in accordance with the provisions of the construction contract whether or not such work is fabricated, installed or completed.

3.8 The ENGINEER shall promptly review and approve, or take other appropriate action on proposed "equal materials or equipment." The ENGINEER shall not approve any such proposed equal materials or equipment unless such equals conform to the PROJECT design concept, the construction documents, the contract for construction, and the estimated life cycle PROJECT projections.

3.9 The ENGINEER shall promptly review and evaluate the results of all inspections, tests and written reports required by the contract for construction, which were required by any governmental entity, or which were necessary or advisable. The ENGINEER shall take appropriate action on test results and shall promptly reject any work that does not conform to and comply with the requirements.

3.10 The ENGINEER shall promptly review, administer, manage, and advise the OWNER concerning test reports and recommendations on the project. The ENGINEER shall prepare change orders for the OWNER's approval and execution in accordance with the construction contract. The ENGINEER shall not be authorized to "swap out" required changes with reduced construction

requirements without the written consent of the OWNER. The ENGINEER shall promptly prepare required drawings, specifications and other supporting data as necessary in connection with minor changes, change order requests, and change orders.

3.11 The ENGINEER shall promptly notify the OWNER in writing of any information it obtains pertaining to any claim; alleged claim, including but not limited to mechanics' liens, construction liens, and builder's trust fund claims; or similar claims, involving any PROJECT contractor, supplier, subcontractor, or consultant, whether or not such claims or alleged claims arise from or relate to the PROJECT.

3.12 The ENGINEER shall at all times have access to the work wherever it is located. The ENGINEER shall not have control or charge of construction means, methods, techniques, sequences or procedures, or safety precautions or programs in connection with the work.

3.13 The ENGINEER shall be required to provide qualified technicians on site in a timely fashion, as requested by the OWNER. The ENGINEER shall promptly notify OWNER's representative upon arriving on site, and notify OWNERS representative upon testing results prior to leaving site. A final report/recommendation shall be sent to the OWNER's office and to the job site within (1) one week of a site visit.

3.14 A valid City of Huntsville license shall be maintained throughout the term of this contract. Additionally, the engineering firm shall be required to obtain and pay for all other federal, state or local permits, licenses, and fees which may be necessary or required in order to perform the work detailed herein.

ARTICLE 4 - ADDITIONAL SERVICES

The following services of the ENGINEER are not included in Article 2. Nevertheless, the ENGINEER shall provide such services if authorized in writing by the OWNER, and they shall be paid for by the OWNER as provided in Article 7, unless otherwise noted.

4.1 Making revision in drawings, specifications or other documents when such revisions are inconsistent with written direction by the OWNER previously given, are required by the enactment of revision of codes, laws or regulations subsequent to the preparation of such documents and not reasonably anticipated, or are due to other causes not within the control or responsibility of the ENGINEER, either in whole or in part.

4.2 Preparing drawings, specifications and supporting data in connection with change orders, provided that such change orders are issued by the OWNER due to causes not within the control or responsibility of the ENGINEER, either in whole or in part.

4.3 Providing additional services for repair or replacement of work damaged by acts of God or other cause during construction provided that such services are required by causes not the responsibility of the ENGINEER, either in whole or in part.

4.4 Providing services not otherwise required herein which are made necessary solely by the default of the Contractor or major defects or deficiencies in the work of the contractor. These services shall be provided with no increase in the contract amount and will not be compensable on an hourly basis.

4.5 Providing expert witness services and other services arising out of claims.

ARTICLE 5 - RESPONSIBILITIES OF OWNER

The OWNER, without cost to the ENGINEER, will perform the following in a timely manner so as not to delay the services of the ENGINEER:

5.1 Assist ENGINEER by placing at ENGINEER's disposal all available information pertinent to the PROJECT including previous reports and any other data relative to design or construction of the PROJECT.

5.2 Provide all criteria and full information as to OWNER's requirements for the PROJECT, including design objectives and constraints, space, capacity and performance requirements, flexibility and expendability, and any budgetary limitations. The OWNER shall also furnish copies of all design and construction standards, which OWNER will require to be included in the drawings and specifications.

5.3 Assist the ENGINEER as necessary in acquiring access to and making all provisions for the ENGINEER to enter upon public and private lands as required for the ENGINEER to perform the work under this agreement.

5.4 Designate in writing a person to act as the OWNER's representative with respect to the work to be performed under this Agreement, such person to have complete authority to transmit instructions, receive information, interpret and define the OWNER's policies and decision with respect to materials, equipment elements and systems pertinent to the work covered by this Agreement. Examine all studies, reports, sketches, drawings, specifications, proposals and other documents presented by ENGINEER, obtain advice of an attorney, insurance counselor and other consultants as OWNER determines appropriate for such examination and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of ENGINEER.

5.5 When requested by the ENGINEER, the OWNER will intercede on the ENGINEER's behalf when data from, or review by, third parties is not on schedule through no fault of the ENGINEER.

5.6 The OWNER's review of any documents prepared by the ENGINEER or its consultants shall be solely for the purpose of determining whether such documents are generally consistent with the OWNER's intent. No review of such documents shall relieve the ENGINEER of its responsibility for the accuracy, adequacy, fitness, suitability and coordination of its work product.

ARTICLE 6 - PERIOD OF SERVICES

6.1 The ENGINEER shall commence services pursuant to this agreement as of July 15, 2016. The final completion date for the completion of construction materials testing services as outlined in Article 3 shall be July 15, 2017.

The ENGINEER shall perform these services with reasonable diligence and expediency consistent with sound professional practices. The ENGINEER shall include in his schedule an allowance for time required for OWNER's review of submissions and for approvals of authorities having jurisdiction over the PROJECT. When approved by the OWNER, the schedule shall not be exceeded by the ENGINEER, except for cause.

If the ENGINEER becomes aware of delays due to time allowances for review and approval being exceeded, delay by the OWNER, the OWNER's consultants, or any other reason beyond the ENGINEER's control, which may result in the schedule of performance of the ENGINEER's services not being met, the ENGINEER shall promptly notify the OWNER. If the OWNER becomes aware of any delays or other causes that will affect the ENGINEER's schedule, the

OWNER shall promptly notify the ENGINEER. In either event, the ENGINEER's schedule for performance of its services shall be equitably adjusted.

ARTICLE 7 - PAYMENT TO THE ENGINEER

7.1 BASIC SERVICES

The OWNER shall compensate the ENGINEER for services rendered pursuant to this Agreement, excepting those services described as Additional Services in Article 4 of this Agreement, on a Not to Exceed (NTE) Ceiling Price of TWENTY-SIX THOUSAND AND NO/100 DOLLARS ($26,000.00), for construction materials testing services described in Article 3. Additional services of the ENGINEER as described in Article 4, if any, shall be compensated on an hourly basis in accordance with Attachment 5.

7.2 NOT TO EXCEED (NTE) CEILING PRICE

NTE Ceiling price. The City of Huntsville (COH) will not be obligated to pay the ENGINEER any amount in excess of the NTE ceiling price as per Attachment "1", and the ENGINEER shall not be obligated to continue performance if to do so would exceed the NTE ceiling price set forth in the referenced attachment, unless and until the COH notifies the ENGINEER in writing that the NTE ceiling price has been increased and specifies in the notice a revised NTE ceiling that shall constitute the NTE ceiling price for performance under this contract. NTE ceiling price increase will be done by a written change order to the contract issued by the OWNER that will not require the ENGINEER's approval. When and to the extent that the NTE ceiling price set forth in the referenced attachment has been increased, any hours expended and material costs incurred by the ENGINEER in excess of the NTE ceiling price before the increase shall be allowable to the same extent as if the hours expended and material costs had been incurred after the increase in the NTE ceiling price.

7.3 EFFECTIVE DATE

This contract shall have no force or effect unless and until it is executed by the OWNER and the ENGINEER and a properly executed copy is mailed to the ENGINEER with a notice to proceed (NTP). If a NTP is not issued within sixty (60) days commencing from the last date of execution of this CONTRACT by the OWNER and the ENGINEER, then this CONTRACT shall be NULL AND VOID, the OWNER will not be obligated to any payment to the ENGINEER and the ENGINEER will not be obligated to perform any work under said CONTRACT.

PAYMENT SUMMARY

Construction Materials Testing Services - Not to Exceed (NTE) Ceiling Price of	**$26,000.00**
TOTAL CONTRACT AMOUNT:	**$26,000.00**

ARTICLE 8 - GENERAL PAYMENT PROCEDURE

8.1 INVOICES

8.1.1 The ENGINEER shall submit monthly invoices to the Administrative Officer, Engineering Division, for the basic services described under Articles 2 and 4 for the design of the PROJECT. Invoices must include the City of Huntsville project name and number, dates of services, contract amount, previous billings and current billing. Additionally, invoices

for services that are not contracted for as "lump sum" in Article 4 must also be itemized and include, as a minimum, a description of each task performed, the amount of time utilized performing each task, the name(s) of personnel who performed the task and the cost for each specific task. Along with each invoice, the ENGINEER must submit a consultant progress report in the format shown in Attachment 6 hereto. No payment will be made without the consultant progress report completed and attached. Monthly progress reports shall be submitted monthly even if no request for payment is made. If services under Article 4 are included in the invoice for additional services not included under the lump sum provisions, or services billed as time and material, the classification and hours of such persons rendering the services shall be attached to the invoice.

8.1.2 The signature of the ENGINEER on the invoice shall constitute the ENGINEER's representation to the OWNER that the services indicated in the invoice have progressed to the level indicated, have been properly and timely performed as required herein, that the reimbursable expenses included in the invoice have been reasonably incurred, that all obligations of the ENGINEER covered by prior invoices have been paid in full, and that, to the best of the ENGINEER's knowledge, information and informed belief, the amount requested is currently due and owing, there being no reason known to the ENGINEER the payment of any portion thereof should be withheld. Submission of the ENGINEER's invoice for final payment and reimbursement shall further constitute the ENGINEER's representation to the OWNER that, upon receipt from the OWNER of the amount invoiced, all obligations of the ENGINEER to others, including its consultants, incurred in connection with the PROJECT, have been paid in full. ENGINEER must designate on Attachment 6 – Progress Report in the appropriate space provided that such action has been completed.

8.2 TIME FOR PAYMENT

The OWNER shall make payment for services in Articles 3 and 4 within 60 days of receipt of valid invoice.

8.3 OWNER'S RIGHT TO WITHHOLD PAYMENT

In the event the OWNER becomes credibly informed that any representations of the ENGINEER, provided pursuant to Article 8.1.2, are wholly or partially inaccurate, the OWNER may withhold payment of sums then or in the future otherwise due to the ENGINEER until the inaccuracy, and the cause thereof, is corrected to the OWNER's reasonable satisfaction. Additionally, failure by the ENGINEER to supply substantiating records shall be reason to exclude related costs from the amounts which might otherwise be payable by the OWNER to the ENGINEER.

8.4 REIMBURSABLE EXPENSES

8.4.1 In addition to the requirements set forth in 8.1 above, invoices for reimbursable expenses shall include such documentation as the OWNER may require. Reasonable expenses are limited to the following expenses:

(a) Transportation outside the immediate Huntsville area (50 mile radius) approved in advance by the OWNER in writing and incurred in connection with the PROJECT. (Per Department of Treasury, Internal Revenue Service Publication 1542, Per Diem Rates, for travel within the continental United States). Refer to website: www.irs.gov/pub/irs-pdf/p1542.pdf for more information;
(b) Charges for long-distance communications;
(c) Fees paid for securing approval of authorities having jurisdiction over the PROJECT,
(d) Actual costs of reproduction for items in excess of those included in the required services;

(e) Postage and handling charges incurred for drawings, specifications and other documents.

8.4.2 The ENGINEER shall set forth with particularity on its invoice the nature and cost of the expense item being billed, and attach to its invoice the written authorization, if any, required for such item; and shall bill expenses at actual cost or prevailing rate and without the addition of administrative charge, any multiple or surcharge.

8.5 W-9 TAXPAYER FORM

All ENGINEERING FIRMS are required to submit a Federal Tax Form W-9 to City of Huntsville at the time a contract is awarded. No payment of invoices can be made until this W-9 Tax Form has been properly submitted. A copy of the W-9 Tax Form can be requested from the OWNER or at the following website: www.irs.ustreas.gov/pub/irs-pdf/fw9.pdf

ARTICLE 9 - GENERAL CONSIDERATIONS

9.1 GENERAL

OWNER and ENGINEER agree that the following sections and provisions shall apply to the work to be performed under this Agreement and that such provisions shall supersede any conflicting provisions of this Agreement.

9.2 SUB-CONTRACTED SPECIALIZED SERVICES

The ENGINEER may sub-contract specialized services required of the PROJECT to competent and experienced sub-consultants approved by the OWNER in writing. As a prime professional, the ENGINEER shall act as OWNER's representative for contracting, directing, and managing the services of sub-consultants. The OWNER shall have the right to reject any consultant provided that the OWNER raises a timely objection. At the time of the execution of this Agreement, the parties anticipate that the consultants listed in Attachment "7" hereto will be retained by the ENGINEER to provide services with respect to the PROJECT. Expenses payable to the ENGINEER for administration of subcontracted services are limited to no more than 5% of the cost of the subcontracted services.

9.3 PEER REVIEW

The OWNER reserves the right to conduct, at the OWNER"s expense, peer review of designs and drawings prepared by the ENGINEER and/or sub-consultant(s) for the PROJECT. The ENGINEER and sub-consultant(s) agree that knowledge and consent to review of their work by other engineers of the OWNER's choosing is hereby given in accordance with the ADMINISTRATIVE CODE (RULES AND REGULATIONS) of the Alabama State Board of Licensure for Professional Engineers and Land Surveyors, Chapter 330-X-14-.06(a) (13) effective January 2008 and as may be amended now or in the future pertaining to the Code of Ethics for review of the work of another engineer.

9.4 CLARIFICATION OF WORK

If reviewing agencies raise questions regarding the work of ENGINEER, OWNER will participate in such meetings as deemed necessary to explain and clarify this work.

9.5 CHANGES

9.5.1 The OWNER may, at any time by written order, make changes within the general scope of the Agreement in the services to be provided. If such changes cause an increase or

decrease in ENGINEER's cost of, or time required for performance of any services, whether or not changed by any order, an equitable adjustment shall be made and the Agreement shall be modified in writing accordingly. Upon notification of change, ENGINEER must assert any claim of ENGINEER for adjustment in writing within 30 days from the date of receipt unless OWNER grants a further period of time.

9.5.2 If findings in any phase of this PROJECT significantly alter the scope of work for subsequent phases, or if regulations are changed resulting in a scope of work change for any phase, engineering fees set forth in Article 7 may be renegotiated by the OWNER and ENGINEER.

9.6 ENGINEER'S RECORDS

Documentation accurately reflecting services performed and the time expended by the ENGINEER and his personnel and records of reimbursable expenses shall be prepared concurrently with the performance of the services and shall be maintained by the ENGINEER. The ENGINEER shall maintain record copies of all written communications, and any memoranda of verbal communications related to the PROJECT. All such records and documentation shall be maintained for a minimum of five (5) years after the PROJECT date of final completion or for any longer period of time as may be required by law or good practice. If the ENGINEER receives notification of a dispute or of pending or commencement of litigation during this five-year period, the ENGINEER shall continue to maintain all PROJECT records until final resolution of the dispute or litigation. The ENGINEER shall make such records and documentation available to the OWNER upon notice and shall allow the authorized representative(s) of the OWNER to inspect, examine, review and copy the ENGINEER's records at the OWNER's reasonable expense.

9.7 SEAL ON DOCUMENTS

9.7.1 Final plans and drawings shall be marked "ISSUED FOR CONSTRUCTION". When a firm, partnership, or corporation performs the work, <u>each drawing</u> shall be sealed and signed by the licensed engineer or engineers who were in responsible charge of the work.

9.7.2 When plans and drawings issued for construction were not performed by a firm, partnership, or corporation, the first sheet or title page shall be sealed, dated, and signed by the engineer who was in responsible charge. Two or more licensed professional engineers may affix their signatures and seals provided it is designated by a note under the seal the specific subject matter for which each is responsible. In addition, <u>each drawing</u> shall be sealed and signed by the licensee or licensees responsible for each sheet.

9.7.3 When plans or drawings are a site adaptation of a standard design or plan or make use of a standard drawing of others, the ENGINEER shall take measures to assure that the site adaptation, standard drawing, or plan is appropriate and suitable for the use proposed by the ENGINEER including meeting the specific site conditions, functionality, design criteria, safety considerations, etc. After taking such measures, the ENGINEER shall seal the standard drawing or plan as shown above in sections 9.8.1 and 9.8.2. The ENGINEER shall not utilize standards of others without their written consent where written consent is required or implied.

9.7.4 <u>Each sheet</u> of documents, specifications, and reports for engineering practice and of maps, plats, charts, and reports for land surveying practice, shall be signed, sealed, and dated by the licensed engineer or land surveyor who prepared the documents or under whose responsible charge the documents were prepared. Where more than one sheet is bound together in one volume, including but not limited to reports

and specifications, the licensee who prepared the volume, or under whose responsible charge the volume was prepared, may sign, seal, and date only the title or index sheet, provided that this sheet clearly identifies all of the other sheets comprising the bound volume, and provided that any of the other sheets which were prepared by, or under the responsible charge of, another licensee, be signed, sealed, and dated by the other licensee.

9.8 USE AND OWNERSHIP OF DOCUMENTS

All rights of ownership, copyrights, construction documents, including all drawings, specifications and other documents, electronic media, computer source code, or things prepared by or on behalf of the ENGINEER for the PROJECT are hereby transferred to the OWNER and shall be the sole property of the OWNER and are free of any retention rights of the ENGINEER. The ENGINEER hereby grants to the OWNER an unconditional right to use or to refer to, for any purpose whatsoever, the construction documents and any other documents or electronic media, computer source code prepared by or on behalf of the ENGINEER for the PROJECT, free of any copyright claims, trade secrets or other proprietary rights with respect to such documents. The ENGINEER shall be permitted to retain copies thereof for its records. The ENGINEER's documents and other work products are not intended or represented to be suitable for re-use by OWNER or others on extensions of the PROJECT or on any other PROJECT. Any re-use without specific written verification or adaptation by ENGINEER will be at OWNER's sole risk and without liability or legal exposure to ENGINEER, and OWNER shall indemnify and hold harmless ENGINEER from all claims, damages, losses and expenses including attorneys' fees arising out of, or resulting from, such reuse by the OWNER; provided however, that this agreement to indemnify and save harmless shall not apply to any reuse of documents retained by, or through, the ENGINEER.

9.9 ESTIMATE OF CONSTRUCTION COST

Since ENGINEER has no control over the construction cost of labor, materials, or equipment, or over the construction contractor(s) methods of determining prices, or over competitive bidding or market conditions, his opinion of probable PROJECT cost or construction cost provided for herein are to be made on the basis of his experience and qualifications and represent his best judgment as a design professional familiar with the construction industry; but, ENGINEER cannot and does not guarantee that proposals, bids or construction costs will not vary from opinions of probable cost prepared by him. If OWNER wishes greater assurance as to the construction cost, he will employ an independent cost estimator.

9.10 TERMINATION FOR CAUSE

This Agreement may be terminated by either party upon seven (7) days written notice to the other should such other party fail substantially to perform in accordance with its material terms through no fault of the party initiating the termination.

9.11 TERMINATION BY THE OWNER WITHOUT CAUSE

The OWNER may terminate this Agreement without cause upon seven (7) days' written notice to the ENGINEER. In the event of such a termination without cause, the ENGINEER shall be compensated for all services performed prior to termination, together with Reimbursable Expenses incurred. In such event, the ENGINEER shall promptly submit to the OWNER its invoice for final payment and reimbursement which invoice shall comply with the provisions of Paragraph 8.1

ARTICLE 10 - INDEMNITY AND INSURANCE

10.1 INSURANCE

The ENGINEER shall carry insurance of the following kinds and amounts in addition to any other forms of insurance or bonds required under the terms of the contract specifications. The ENGINEER shall procure and maintain for the duration of the job until final acceptance by the OWNER, or as later indicated, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the ENGINEER, his agents, representatives, employees or subcontractor.

10.2 MINIMUM SCOPE OF INSURANCE:

A. General Liability:

Insurance shall be written on an occurrence basis. Claims-made coverage will be accepted only on an exception basis after the OWNER's approval. The same insurance company should write General Liability Coverage and OWNERs ENGINEERs Protective Insurance.

B. Commercial General Liability

Products and Completed Operations
Contractual
Personal Injury
Explosion, Collapse and Underground
Broad Form Property Damage

C. Professional Liability:

Insurance may be written on a "claims-made" basis, providing coverage for negligent acts, errors or omissions in the performance of professional services. Coverage shall be maintained for a discovery and reporting period of no less than five (5) years after completion of the professional services and Certificates of Insurance shall be submitted to the OWNER on a yearly basis during this time frame. Coverage shall be no less comprehensive than that which is carried by at least 25% of the registered engineers or engineering firms contracting in the State of Alabama. Such coverage shall be carried on a continuous basis including prior acts coverage to cover the subject PROJECT. The professional liability insurance shall contain contractual liability coverage.

D. Automobile Liability:

Business Automobile Liability providing coverage for all owned, hired and non-owned autos. Coverage for loading and unloading shall be provided under either automobile liability or general liability policy forms.

E. Workers' Compensation Insurance:

Statutory protection against bodily injury, sickness or disease or death sustained by employee in the scope of employment. Protection shall be provided by a commercial insurance company or a recognized self-insurance fund authorized before the State of Alabama Industrial Board of Relations. “Waivers of Subrogation” in favor of the OWNER shall be endorsed to Workers’ Compensation Insurance.

F. Employers Liability Insurance:

Covering common law claims of injured employees made in lieu of or in addition to a worker's compensation claim.

10.3 MINIMUM LIMITS OF INSURANCE:

A. General Liability:

Commercial General Liability on an "occurrence form" for bodily injury and property damage:

$ 2,000,000 General Aggregate Limit
$ 2,000,000 Products - Completed Operations Aggregate
$ 1,000,000 Personal & Advertising Injury
$ 1,000,000 Each Occurrence

B. Professional Liability:

Insurance may be made on a "claims-made" basis:

$ 500,000 Per Claim - Land Surveyors
$ 1,000,000 Per Claim - Other Professionals

C. Automobile Liability:

$ 1,000,000 Combined Single Limit per accident for bodily injury and property damage.

D. Workers' Compensation:

As required by the State of Alabama Statute

E. Employers Liability:

$ 1,000,000 Bodily Injury by Accident or Disease
$ 1,000,000 Policy Limit by Disease

10.4 OTHER INSURANCE PROVISIONS:

The OWNER is hereby authorized to adjust the requirements set forth in this document in the event it is determined that such adjustment is in the OWNER's best interest. If the insurance requirements are not adjusted by the OWNER prior to the OWNER's release of specifications with regard to the PROJECT in question, then the minimum limits shall apply. The City of Huntsville/OWNER shall be named on the policies of general liability and automobile insurance and on the certificate of insurance as an Additional Insured. Additional Insured status on the Commercial General Liability policy shall be through ISO Additional Endorsement CG 20 10 11 85 or equivalent and coverage shall be afforded on a primary basis.

The policies are to contain, or be endorsed to contain, the following provisions:

A. All Coverage:

The ENGINEER is responsible to pay all deductibles. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled, non-renewal or materially changed by either party, reduced in coverage or in limits except after thirty (30) days' prior written notice by certified mail, return receipt

requested, has been given to the OWNER. Cancellation of coverage for non-payment of premium will require ten (10) days written notice to the OWNER.

10.5 ACCEPTABILITY OF INSURERS:

Insurance is to be placed with insurers authorized by the State of Alabama with an A. M. Best rating of A-V or better.

10.6 VERIFICATION OF COVERAGE:

The OWNER shall be indicated as a Certificate Holder and the ENGINEER shall furnish the OWNER with Certificates of Insurance reflecting the coverage required by this document. The A. M. Best rating and deductibles, if applicable, shall be indicated on the Certificate of Insurance for each insurance policy. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf and must be an original signature. Certificates signed using digital signatures will not be accepted unless accompanied by a written statement from the insurance/surety company indicating that their electronic signature is intended as their signature. All certificates are to be received and approved by the OWNER before work commences. The OWNER reserves the right to require complete, certified copies of all required insurance policies at any time.

10.7 CONSULTANTS AND/OR SUBCONTRACTORS WORKING FOR THE ENGINEER:

The ENGINEER shall furnish separate certificates and/or endorsements for each subcontractor and/or consultant showing insurance of the same type or types and to the extent of the coverage set forth in this Article 10.

10.8 HOLD HARMLESS AGREEMENT:

A. Professional Liability Exposures:

The ENGINEER, to the fullest extent permitted by law, shall indemnify and hold harmless the OWNER, its elected and appointed officials, employees, agents, and representatives against all claims, damages, losses, judgments and expenses, including, but not limited to, attorney's fees, arising out of or resulting from the performance of the work, caused by any negligent act, error or omission of the ENGINEER or any of their consultants, or anyone directly or indirectly employed by them or anyone for whose acts they are legally liable. Such obligation should not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity, which would otherwise exist as to any party or person, described in this paragraph.

To the fullest extent permitted by law, the ENGINEER shall defend, protect, indemnify, and hold harmless the OWNER, its elected and appointed officials, officers, directors, employees, agents, and representatives from and against any and all liability, claims, demands, damages, loss, costs, fees and expenses (including actual fees and expenses of attorneys, expert witnesses, and other consultants) for infringement of patent rights, copyrights, or other intellectual property rights, except with respect to designs, processes or products of a particular manufacturer expressly required by the OWNER in writing. If the ENGINEER has reason to believe the use of a required design, process or product is an infringement of a patent, the ENGINEER shall be responsible for such loss unless such information is promptly given to the OWNER

B. Other Than Professional Liability:

The ENGINEER agrees, to the fullest extent permitted by law, to defend, protect, indemnify and hold harmless the OWNER, its elected and appointed officials, officers,

directors, employees, agents, and representatives from and against any and all liability, claims, demands, damages, loss, judgments, costs, fees, and expenses (including actual fees and expenses of attorneys, expert witnesses, and other consultants) attributable to personal injury, including bodily injury sickness, disease or death, or to injury to or destruction of tangible property, including loss of use resulting therefrom actually or allegedly caused by the ENGINEER or the ENGINEER's consultants, subcontractors, or suppliers, including, without limitation, any breach of contract or any negligent acts, errors, or omissions in the performance of the professional services provided pursuant to or as a result of this Agreement. Neither, the OWNER nor the ENGINEER shall be obligated to indemnify the other party in any manner whatsoever for the other parties own negligence.

ARTICLE 11- MISCELLANEOUS PROVISIONS

11.1 GOVERNING LAW

This Agreement shall be governed by the law of the State of Alabama.

11.2 INTENT AND INTERPRETATION

11.2.1 The intent of this contract is to require complete, correct and timely execution of the work. Any work that may be required, implied or inferred by the contract documents, or any one or more of them, as necessary to produce the intended result shall be provided by the ENGINEER.

11.2.2 This contract is intended to be an integral whole and shall be interpreted as internally consistent. What is required by any one contract document shall be considered as required by the contract.

11.2.3 When a word, term or phrase is used in this contract, it shall be interpreted or construed, first, as defined herein; second, if not defined, according to its generally accepted meaning in the engineering industry; and third, if there is no generally accepted meaning in the engineering industry, according to its common and customary usage.

11.2.4 The words "include", "includes", or "including", as used in this contract, shall be deemed to be followed by the phrase, "without limitation".

11.2.5 The specification herein of any act, failure, refusal, omission, event, occurrence or condition as constituting a material breach of this contract shall not imply that any other, non-specified act, failure, refusal, omission, event, occurrence or condition shall be deemed not to constitute a material breach of this contract.

11.2.6 Words or terms used as nouns in this contract shall be inclusive of their singular and plural forms, unless the context of their usage clearly requires a contrary meaning.

11.3 TIME IS OF THE ESSENCE

Time limitations contained herein, or provided for hereby, are of the essence of this Agreement. The ENGINEER understands and acknowledges that time is of the essence in completion of the PROJECT and that the OWNER will incur damages if the PROJECT is not completed on time.

11.4 SUCCESSORS AND ASSIGNS

The ENGINEER shall not assign its rights hereunder, excepting its right to payment, nor shall it delegate any of its duties hereunder without the written consent of the OWNER. Subject to the

provisions of the immediately preceding sentence, the OWNER and the ENGINEER, respectively, bind themselves, their successors, assigns and legal representatives to the other party to this Agreement and to the successors, assigns and legal representatives of such other party with respect to all covenants of this Agreement.

11.5 NO THIRD-PARTY BENEFICIARIES

This Agreement shall inure solely to the benefit of the parties hereto and their successors and assigns. Nothing contained herein is intended to or shall create a contractual relationship with, or any rights in favor of, or any cause of action in favor or, any third party, against the OWNER or the ENGINEER.

11.6 INTELLECTUAL PROPERTY/ CONFIDENTIALITY

All information, documents, and electronic media, computer source code furnished by the OWNER to the ENGINEER belong to the OWNER, are considered proprietary and confidential, unless otherwise indicated by the OWNER, and are furnished solely for use on the OWNER's PROJECT. Such information, documents, and electronic media, computer source code shall be kept confidential by the ENGINEER, shall only be released as necessary to meet official regulatory requirements in connection with the PROJECT, and shall not be used by the ENGINEER on any other PROJECT or in connection with any other person or entity, unless disclosure or use thereof in connection with any matter other than services rendered to the OWNER hereunder is specifically authorized in writing by the OWNER in advance. This Section 11.6 shall survive the expiration of this Agreement.

11.7 SUBCONTRACT REQUIREMENTS

The ENGINEER shall include the terms and conditions of Articles 10 and 11 of this Agreement in every subcontract or agreement with a consultant for this PROJECT so that these terms and conditions shall be binding upon each subcontractor or consultant. The subconcontractor(s)/consultan(s) will maintain all licenses and certifications to practice its profession or trade by all public entities having jurisdiction over the PROJECT. The subcontractor(s)/consultant(s) further represent to the OWNER that the subcontractor(s)/consultant(s) will maintain all necessary licenses, certifications, permits or other authorizations necessary for the PROJECT until the remaining duties hereunder have been satisfied.

11.8 NOTICES

Unless otherwise provided, all notices shall be in writing and considered duly given if the original is hand delivered; if delivered by facsimile to 256-427-5325, or is sent by U.S. Mail, postage prepaid to City of Huntsville Engineering, P. O. Box 308 (35804), 320 Fountain Circle (35801), Huntsville, AL. All notices shall be given to the addresses set forth above. Notices, hand delivered or delivered by facsimile, shall be deemed given the next business day following the date of delivery. Notices given by U.S. Mail shall be deemed given as of the second business day following the date of posting.

11.9 FEDERAL IMMIGRATION LAW

By signing this Agreement, the contracting parties affirm, for the duration of the agreement, that they will not violate federal immigration law or knowingly employ, hire for employment or continue to employ an unauthorized alien within the state of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom.

11.10 STRICT COMPLIANCE

No failure of the OWNER to insist upon strict compliance by the ENGINEER with any provision of this Contract for Professional Services shall operate to release, waive, discharge, modify, change or affect any of the ENGINEER's obligations.

11.11 WAIVER

No provision of this Agreement may be waived except by written agreement of the parties. A waiver of any provision on one occasion shall not be deemed a waiver of that provision on any subsequent occasion, unless specifically stated in writing. A waiver of any provision shall not affect or alter the remaining provisions of this Agreement.

11.12 SEVERABILITY

If any provision of this Agreement, or the application thereof, is determined to be invalid or unenforceable, the remainder of that provision and all other provisions of this Agreement shall remain valid and enforceable.

11.13 ETHICS

The ENGINEER shall not offer or accept any bribes or kickbacks from or to any manufacturer, consultant, trade contractor, subcontractor, supplier or any other individual or entity in connection with the PROJECT. The ENGINEER shall not confer on any governmental, public or quasi-public official having any authority or influence over the PROJECT any payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised. The ENGINEER shall not, without the express written permission of the OWNER, engage or recommend to the OWNER engagement of any consultant, trade contractor, subcontractor, or supplier to provide services on behalf of the ENGINEER, OWNER or PROJECT in which the ENGINEER has a direct or indirect proprietary or other pecuniary interest; or call for the use of or by exclusion require or recommend the use of products, materials, equipment, systems, processes or procedures in which the ENGINEER or in which any consultant, trade contractor, subcontractor, or supplier of the ENGINEER has a direct or indirect proprietary or other pecuniary interest. Without prior notification and written approval of the OWNER, the ENGINEER and the ENGINEER'S subconsultants shall not offer services to the OWNER'S contractor.

11.14 ENTIRE AGREEMENT

This Agreement represents the entire agreement between the OWNER and the ENGINEER and supersedes all prior communications, negotiations, representations or agreements, either written or oral. This agreement may be amended only by written instrument signed by both OWNER and ENGINEER.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

ENGINEER:

BY: _____
Johnny Ozier

TITLE: President

ATTEST: _____

Given under my hand this 12th day

Of July, 2016.

_____
Notary Public

My commission expires 4/2/19

OWNER:
CITY OF HUNTSVILLE

BY: _____
Tommy Battle

TITLE: Mayor

ATTEST: _____

Given under my hand this_____day

Of _____, 2016.

_____
Notary Public

My commission expires_____

ATTACHMENT 1
SCOPE OF SERVICES

(Refer to letter dated July 6, 2016, from John Corbell and Steve Smith to Alan Clements and attachments).

OMI, Inc.

July 6, 2016

City of Huntsville
Engineering Department
320 Fountain Circle SW
Huntsville, Alabama 35801

ATTN: Mr. Alan Clements

SUBJECT: Proposal for Construction Materials Testing Services
Fagan Creek Improvements
Huntsville, Alabama
OMI Proposal No. P-4707

Gentlemen:

OMI is pleased to present this proposal to provide Construction Materials Testing (CMT) services for the above referenced project. In preparation of this proposal OMI has reviewed drawings and specifications for the planned building.

OMI is a full service geotechnical, environmental, and construction materials testing firm. Our in-house laboratory is **AASHTO** and Army **CORPS** of Engineers accredited. OMI has a staff of professional engineers, graduate engineers, project managers, environmental scientists, ecologists, and technicians available to help you achieve your project goals.

SCOPE OF SERVICES

OMI will provide the following CMT services in general accordance with ASTM, the International Building Code (IBC), U.S. Army Corps of Engineers procedures or accepted engineering practice.

5151 Research Drive, N.W., Suite A Huntsville, AL 35805 Tel: (256) 837-7664 Fax: (256) 837-7677 E-mail: omi@omi-eng.com

Earthwork - Observations/Sampling/Testing

OMI will perform observations and testing during the earthwork activities as part of the quality control for the project. Observations and testing will include, but are not limited to, the following:

1. Preliminary Subgrade Observations: OMI will observe the site after it has been stripped where appropriate, to compare the exposed soils with the condition identified in the subsurface report. An OMI Project Engineer will observe a proof roll of areas to receive fill prior to fill placement. The Project Engineer will be available to provide recommendations for additional undercut that may be required due to unsuitable subgrade soil conditions, and provide recommendations to the City of Huntsville as needed. In the event areas proof rolled require undercutting, a follow up evaluation and/or proof roll will be conducted by the Project Engineer once undercuts have been completed to observe that suitable conditions are present to begin fill operations.

2. Sampling/Lab Testing: During the initial subgrade observations process, an Engineering Technician will be on-site to collect bulk samples to be used for lab testing. Proctor tests will be performed in accordance with ASTM specifications. Reports will be provided that indicate the sampled soil's maximum dry density and optimum moisture content to be used when checking field in-place compaction. Lab tests will be performed in accordance with accepted standard Proctor test methods and procedures (ASTM D698).

3. Density Testing: An OMI Engineering Technician will observe fill placement for conformance with project requirements, perform nuclear density testing and document moisture/density test results during earthwork operations as well as backfilling and/or other excavations in structural fill areas.

Note: Non-compliant observations and/or test results will be reported to the City of Huntsville's Project Engineer and/or contractor personnel so corrective action can be taken and

documented. Retests for noncompliant work performed by the contractor are not included in the cost to perform required services for this project and will be billed at the standard unit rates listed on the attached OMI Fee Schedule.

Soil-Bearing Foundation Observations – Box Culvert

During shallow foundation construction, OMI will observe the footings to check bearing conditions prior to the placement of reinforcing steel and concrete. OMI will provide on-site recommendations for adjustments to footing elevations based upon the excavated material found during construction.

Cast-in-Place Concrete- Box Culvert

During Construction, OMI will provide sampling, testing, and inspections for all cast-in-place structural concrete. The contractor will be responsible for notifying OMI prior to placing concrete. Adequate notice should be given to ensure the testing frequency requirements are properly followed.

1. Specimen Storage: OMI can provide on-site storage containers (curing boxes) generally capable of controlling temperatures within the range specified by ASTM C31 for initial curing of the concrete cylinder samples. Within 48 hours, OMI will transport the cylinders made on-site to the OMI laboratory.

2. Inspections: Prior to concrete placements, OMI will check that the reinforcing steel has been placed in general accordance with job specifications. Anchor bolts and other structural connections included as part of the cast-in-place concrete will be observed for specified size, quantity, and general location in accordance with design drawings.

3. Concrete Sampling: OMI will collect samples and perform tests for slump, air content, outside air and concrete temperature and compressive strength. OMI will cast cylinders in

the field in general accordance with ASTM C172 procedures and specifications. Sampling frequency will be in accordance with job specifications, provided OMI is appropriately notified.

4. Compressive Strength Testing: OMI will perform compressive strength tests on all cylinders in general accordance with ASTM C39 procedures and specifications. The break schedule for samples cast will be in accordance with project specifications, unless specified otherwise by the City of Huntsville.

5. Reports: Results of the 7-day and 28-day tests will be e-mailed to the architect, structural engineer, ready-mix supplier, and general contractor, or as instructed by the City of Huntsville.

Note: Non-compliant observations and/or test results will be reported to the City of Huntsville's Project Engineer and/or contractor personnel so corrective action can be taken and documented. Retests for noncompliant work performed by the contractor are not included in the cost to perform required services for this project and will be billed at the standard unit rates listed on the attached OMI Fee Schedule.

Subgrade for Pavement Areas - Observation/Sampling/Testing:

OMI will perform observations and testing during the preparation of subgrade for paving as part of the quality control for the project. Observations and testing will include, but are not limited to, the following:

1. Initial Soil Subgrade Observations: The OMI Project Engineer will observe a proof roll of subgrade areas once passing soil density tests have been performed. This proof roll will check for soft areas prior to the placement of crushed aggregate base materials.

2. Sampling/Lab Testing: An OMI Engineering Technician will collect samples of crushed aggregate base materials for testing to determine maximum dry density and optimum moisture content for compaction in accordance with modified Proctor test methods and procedures (ASTM D698).

3. Density Testing: An OMI Engineering Technician will perform in-place nuclear density testing of crushed aggregate base materials to check that field compaction meets project requirements.

4. Final Proof Roll: The OMI Project Engineer will observe a final proof roll of the crushed aggregate base materials once passing nuclear density tests have been performed. This proof roll will check for soft areas prior to asphalt placement.

Note: Non-compliant observations and/or test results will be reported to the City of Huntsville's Project Engineer and/or contractor personnel so corrective action can be taken and documented. Retests for noncompliant work performed by the contractor are not included in the cost to perform required services for this project and will be billed at the standard unit rates listed on the attached OMI Fee Schedule.

Asphalt Pavement – Observations/Sampling/Testing:

OMI will perform tests and observations in the pavement areas to include:

1. Observations During Paving: OMI will observe the placement of asphaltic materials and record production temperatures as specified in the job specifications.

2. Density Testing: OMI will perform field density tests on the fresh asphalt to check compaction.

3. Asphalt Coring: OMI will sample the in-place asphalt using a coring machine. The OMI Project Engineer will give direction as to the location of these samples. Samples will be obtained in accordance with ASTM specifications.

Note: Non-compliant observations and/or test results will be reported to the City of Huntsville's Project Engineer and/or contractor personnel so corrective action can be taken and documented. Retests for noncompliant work performed by the contractor are not included in the cost to perform required services for this project and will be billed at the standard unit rates listed on the attached OMI Fee Schedule.

COST

OMI, Inc., will perform the testing outlined in the soil, concrete, and asphalt sections above at our standard unit rates on an on-call basis with a not to exceed budget of $26,000.00. Testing on a full time basis is available and can be very cost affective. Full time testing must be requested in writing. Additional testing beyond the plans and specifications or in addition to those outlined above will be performed at the rates shown in the attached fee schedule.

ADDITIONAL SERVICES

Geotechnical Engineering and Construction Materials Testing Services for the following services are not included in the above Scope of Work, and, if required, will be provided per the OMI Standard Fee Schedule:

- Flame retardant application observations
- Footing and fill placement observations due to over excavation
- Repeat visits to perform retests

- NPDES monthly and post-rain event inspections
- Flame Retardant Application Observations
- Additional testing beyond the plans and specifications or in addition to the work outlined above.
- Overtime rates, which are applicable for services, including travel, performed prior to 6:30 a.m. and/or after 5:00 p.m. weekdays, and any work on Saturdays, Sundays or holidays, or work on-site for more than 8 hours per day.

SCHEDULE AND AUTHORIZATION

OMI, Inc., will perform the work at the direction of the City of Huntsville. OMI seeks to perform all testing required in the job specifications noted as continuous or periodic per the schedule of special inspections. To achieve this goal, we will coordinate with and rely on the general contractor to notify us when testing will be required. Twenty-four hours notice should be given to schedule the services; however, we will attempt to respond to every request.

To authorize OMI, Inc. to provide these services, please execute and return the attached Work Authorization Sheet. Please indicate any special instructions or procedures on the sheet.

* * * * *

OMI, Inc., appreciates the opportunity to provide this proposal to the City of Huntsville. If you have questions regarding this proposal or if we may be of additional assistance, please contact the OMI staff listed below.

Very truly yours,

OMI, Inc.

Steve A. Smith
Project Manager

John W. Corbell, P.E.
Staff Engineer

Distribution: 1 copy to addressee

Attachments: Fee Schedule
General Conditions
Work Authorization Sheet

ATTACHMENT 2 - ALABAMA IMMIGRATION ACT - REPORT OF OWNERSHIP FORM

CITY OF HUNTSVILLE, ALABAMA REPORT OF OWNERSHIP FORM

A. **General Information.** Please provide the following information:

- Legal name(s) (include "doing business as", if applicable): OMI, Inc.
- City of Huntsville current taxpayer identification number (if available): 155770
  (Please note that if this number has been assigned by the City and if you are renewing your business license, the number should be listed on the renewal form.)

B. **Type of Ownership.** Please complete the un-shaded portions of the following chart by checking the appropriate box below and entering the appropriate Entity I.D. Number, if applicable (for an explanation of what an entity number is, please see paragraph C below):

Type of Ownership (check appropriate box)	Entity I.D. Number & Applicable State
☐ Individual or Sole Proprietorship	[redacted]
☐ General Partnership	
☐ Limited Partnership (LP)	Number & State:
☐ Limited Liability Partnership (LLP)	Number & State:
☐ Limited Liability Company (LLC) (Single Member)	Number & State:
☐ LLC (Multi-Member)	Number & State:
☑ Corporation	Number & State: 63-1138946 AL
☐ Other, please explain:	Number & State (if a filing entity under state law):

C. **Entity I.D. Numbers.** If an Entity I.D. Number is required and if the business entity is registered in this state, the number is available through the website of Alabama's Secretary of State at: www.sos.state.al.us/, under "Government Records". If a foreign entity is not registered in this state please provide the Entity I.D. number (or other similar number by whatever named called) assigned by the state of formation along with the name of the state.

D. **Formation Documents.** Please note that, with regard to entities, the entity's formation documents, including articles or certificates of incorporation, organization, or other applicable formation documents, as recorded in the probate records of the applicable county and state of formation, ***are not required unless:*** (1) specifically requested by the City, or (2) an Entity I.D. Number is required and one has not been assigned or provided.

Please date and sign this form in the space provided below and either write legibly or type your name under your signature. If you are signing on behalf of an entity please insert your title as well.

Signature: John M Ozier Title (if applicable): _____

Type or legibly write name: _____ Date: _____

Revised 12/7/2011

ATTACHMENT 3 - CITY OF HUNTSVILLE STANDARDS AND DESIGN GUIDES

1. City of Huntsville Standard Specifications for Construction of Public Improvements, Contract Projects, 1991.
2. City of Huntsville Engineering Standards, 1991.
3. City of Huntsville Design and Acceptance Manual for Force Mains and Pump Stations, 2011.
4. City of Huntsville Design and Acceptance Manual for Sanitary Sewers, 2011.
5. Alabama Department of Transportation Standard Specifications for Highway Construction, Current Edition.
6. City of Huntsville Subdivision Regulations, 1991.

ATTACHMENT 4
DESIGN REVIEWS

60% COMPLETE – PRELIMINARY DESIGN CRITERIA

The review of the PROJECT at this point is primarily to insure that funding limitations are not being exceeded and to insure that the contract documents, design analysis and cost estimates are proceeding in a timely manner, and that the design criteria and previous review comments are being correctly interpreted. An additional review may be required by the OWNER to review changes proposed from previous submittals.

CONFERENCE FORMAT

ATTENDEES: (Required)

- Real Estate
- Landscape Management
- Utilities
- Traffic Engineering
- Planning
- City of Huntsville Construction Project Manager
- City of Huntsville Inspector
- City of Huntsville Environmental Representative

DISCUSSION TOPICS:

- ❑ Additional land acquisition needs, as required.
- ❑ Technical specifications for special construction items not covered under standard specifications or deviations from standard specifications.
- ❑ Update on progress of permitting requirements.
- ❑ Erosion control plan requirements, if required by the OWNER.
- ❑ Budget constraints.
- ❑ Progress on coordination with other project participants such as the State of Alabama, sub consultants, etc.

REQUIRED SUBMITTALS TO THE PROJECT ENGINEER

1. One full size print copy and one ½ size print copy of all drawings that have incorporated previous comments shall be submitted. Plan/Profile drawings shall be 75% complete. Right-of way drawings shall be 100% complete at this submittal.
2. An update to the schedule in Microsoft Projects format showing the critical path shall be

submitted.

3. Unless determined to be inapplicable by the OWNER, Hydraulic reports 75% complete, shall be submitted.

4. Three (3) copies of preliminary plans for utilities shall be submitted.

5. Legal descriptions for takings shall be submitted. The information shall be 100% complete.

6. Traffic Control Plan, if required. Plan shall be 60% complete at this submittal.

7. Detailed preliminary construction cost estimate shall be submitted.

8. Results of geotechnical investigations shall be submitted.

9. Utility Project Notification Form from all affected utilities on the project shall be submitted and a list of all utilities that need to be contacted.

10. Two color copies and an electronic copy of an update to the schedule in Microsoft Projects format showing the critical path shall be submitted.

ATTACHMENT 4
DESIGN REVIEWS

90% COMPLETE – FINAL REVIEW

The review of this submittal is to ensure that the design is in accordance with directions provided the ENGINEER during the design process.

CONFERENCE FORMAT

DISCUSSION TOPICS

Discussion topics will be handled open forum.

REQUIRED SUBMITTALS TO THE PROJECT ENGINEER

1. One full size print copy and one ½ size print copy of all drawings that have incorporated previous comments shall be submitted. Submittals include Plan/Profile drawings, Construction Details, Detailed cross-sections with cut and fill quantities and storm and sanitary sewer crossings. Erosion control plan, if required, Technical specifications, Right-of way drawings, Traffic Control Plan, Plans for Utilities, Signed Acceptance of Utility Project Notification Form by all affected parties, Design Calculations, and a final cost estimate. All submittals shall be 100% complete.

2. Any changes to Land Acquisition needs shall be identified and Legal descriptions for the changes shall be submitted.

OMI, Inc.

CONSTRUCTION MATERIALS TESTING
CITY OF HUNTSVILLE - STANDARD FEE SCHEDULE

Personnel Hourly Rates		Cost	Unit
P-1	Field Technician, field density tests, asphalt monitoring	$42.00	hour
P-2	ACI Level I Tech (concrete, mortar and grout tests)	$43.00	hour
P-3	Senior Engineering Technician, proofrolling and footing observations	$49.00	hour
P-4	Senior Engineering Technician, Steel observations	$53.00	hour
P-5	Laboratory Technician	no additional charge	
P-6	Project Manager	$60.00	hour
P-7	Staff Engineer, EIT	$75.00	hour
P-8	Staff Environmental Scientist	$75.00	hour
P-9	Environmental Scientist	$85.00	hour
P-10	Professional Engineer, Registered	$90.00	hour
P-11	Senior Engineer, Registered	$110.00	hour
P-12	Principal Engineer, Registered	$125.00	hour
P-13	Secretary	$42.00	hour
P-14	CADD Operator	$45.00	hour

Soil Lab Tests (Personnel costs are included)			
L-1	Moisture Content	$6.00	each
L-2	Atterberg Limits, ASTM D423 and D424	$60.00	each
L-3	Sieve analysis, ASTM D422	$60.00	each
L-4	Wash 200 sieve, ASTM D422	$40.00	each
L-5	Sieve and hydrometer analysis, ASTM D422	$125.00	each
L-9	Standard-or-Modified Proctor, one-point test	$35.00	each
L-10	Standard Proctor compaction test, ASTM D698	$100.00	each
L-11	Modified Proctor compaction test, ASTM D1557	$110.00	each

Soil Field Tests (in addition to hourly rates)			
S-1	Field density test, nuclear gauge, 3 test minimum	$15.00	each
S-2	Nuclear Gauge Rental, per unit	$45.00	day
S-3	Field density test, sand cone or drive tube, each, 3 test minimum	$45.00	each
S-5	Bulk samples for laboratory tests	$26.00	each

Asphalt Field Tests (in addition to hourly rates)			
A-2	Cutting and measuring asphalt core samples	$50.00	each
A-3	Measurement of Base thickness underlying asphalt, each	$20.00	each
A-4	Asphalt coring machine and equipment rental, per day	$80.00	day
A-5	Electric generator rental	$60.00	day
A-8	Asphalt extraction and sieve analysis	$105.00	each
A-9	Density and air voids of asphalt cores	$55.00	each

Rates will remain in effect throughout the duration of the project.

OMI, Inc.

CONSTRUCTION MATERIALS TESTING
CITY OF HUNTSVILLE - STANDARD FEE SCHEDULE

Environmental Services		**Cost**	**Unit**
E-2	NPDES Permit Application, per site, each	$750.00	each
E-3	NPDES monthly monitoring service: $15 per acre / $150.00 minimum		
E-4	NPDES post-rain event monitoring service: $11.25 per acre / $150.00 minimum		
E-5	NPDES Permit Final Report and Close-out	$300.00	each
E-6	Borrow Pit Environmental Acceptance Testing, one set per acre	$1,422.00	each
E-7	Borrow Pit Environmental Acceptance Testing, with TCLP	$1,598.00	each

Concrete (in addition to hourly rates)			
C-1	Concrete cylinders; sample, cast, pick-up, cure, test 7 report	$20.00	each
C-8	Slump Test	$25.00	each
C-9	Pressure Air test	$29.00	each
C-7	Unit weight test	$35.00	each
C-16	Grout cubes (ASTM C-1019), pet set of 4	$195.00	set
C-17	Mortar cubes (ASTM C-780), per set of 3	$135.00	set

Miscellaneous		
M-7	Reimbursable expenses (equipment rental and outsourced laboratory tests)	Cost plus 5%

Rates are portal to portal. Overtime at 1.5 times rate is time before 7:00 a.m. and/or after 5:00 p.m. weekdays, any work on Saturdays, Sundays, or Holidays, or over 8 hours per day.

Rates will remain in effect throughout the duration of the project.

ATTACHMENT 6 - PROGRESS REPORT
(Article 8)

OMITTED (Not Applicable)

ATTACHMENT 7 - SUB CONSULTANTS ENGAGED BY THE ENGINEER

(Article 9.2)

CONSULTANT NAME AND ADDRESS	DESCRIPTION OF SERVICES	FEE
	N/A	

ATTACHMENT 8 - CONTRACT DOCUMENT REQUIREMENTS LIST

REQUIREMENT	SUBMIT TO	SUBMITTAL REQUIREMENT DATE	NUMBER OF COPIES	REFERENCE SECTION OF CONTRACT AND COMMENTS
Deviations from OWNER's standards.	OWNER	Prior to incorporating deviations.	**2**	Article 2.5
Products or materials specified by the ENGINEER that are available from only one source.	OWNER	Prior to 100% submittal.	**2**	Article 2.2
Information pertinent to the PROJECT, all criteria and full information as to OWNER's requirements, copies of all design and construction standards.	ENGINEER	So as to not delay the services of the ENGINEER.	**2**	Article 5.1, 5.2
Notification of delays.	ENGINEER; OWNER	Promptly	**4**	Article 6.1
ENGINEER's monthly invoices.	OWNER	Monthly	**4**	Article 8.1.1
Summary of Services	OWNER	Monthly	**4**	
Documentation, records of reimbursable expenses, record copies of all written communications, and any memoranda of verbal communications related to the PROJECT.	OWNER	Upon notice from the OWNER.	**2**	Article 9.4
Termination notification.	OWNER or ENGINEER	7 days prior to termination.	**2**	Article 9.10 & 9.11
Certificate of Insurance for ENGINEER.	OWNER	At 0% design conference	**1**	Article 10.2(B), 10.6, and attachment 4.
Insurance cancellation, suspension, or reduction in coverage or limits.	OWNER	30 days prior to effective date except for cancellation which is 10 days notification.	**1**	Article 10.4(A)

ATTACHMENT 9 - REQUIREMENTS FOR DOCUMENT SUBMITTALS

DRAWINGS

All drawings shall be sized 24" x 36", unless otherwise approved by the OWNERS Project Engineer.

Title blocks shall as a minimum, contain the name of the project, date, city project number, and ENGINEER's name. The title block of drawings shall contain a space for the names of the preparer and the reviewer and/or checker. These blocks shall be signed on each submittal (See Attachment "11" for sample standard drawing format). Drawings shall contain alphanumeric revision designations. Drawings issued for review shall be issued with alpha revision designation and the revision letter shall be changed for each submittal containing drawing changes. Drawings issued for construction shall be issued with numeric designation at revision level "0" and described as "Issued for Construction" in the revision description block. Subsequent drawing changes require the revision level to be raised using successively higher numbers and the changes to be marked by circling and briefly described in a revision block.

All drawings shall be prepared in Micro station .DGN format, unless otherwise approved by the OWNERS Project Engineer. Transmittal letters shall consist of a list of files being submitted, a description of the data in each file, and a level/layer schematic of each design file. DGN design files shall have working units as follows: master units in feet, no sub-units, and 1,000 positional units. All data submitted shall use NAD 1983 Alabama East Zone horizontal datum and NAVD 88 vertical datum coordinates.

Unless otherwise specified by the Owners Project Engineer, all drawings for review submittals shall be full or half-size copies. All documents shall be clearly marked in a revision block indicating the applicable submittal milestone, i.e. 30%, 60%, 90%, etc.

OTHER DOCUMENTS

Submittals required by the State of Alabama for their review, bidding, etc., shall be of the size, form and numbers of copies as the state may require even though such submittals may differ from the submittals set forth as being required elsewhere in this Agreement.

Digital files shall be submitted by 4-3/4" CD ROM, DVD, 3 and 1/2 inch floppy disk, flash drive, or to the City of Huntsville F.T.P. site.

All print copies shall be first generation copies.

All text documents shall be prepared in Microsoft Word 2010 format.

All spreadsheets shall be in Microsoft Excel 2010 format.

All PDF files shall be searchable.

Schedules shall be in Microsoft Projects format, unless otherwise approved by the OWNERS Project Engineer.

Aerial photography files shall be in Intergraph (.COT) or (.tiff) format.

All mapping shall meet National Map Accuracy Standards unless otherwise noted. If National Map Accuracy Standards are not met, the accuracy of the map shall be identified to the Owners Project Engineer and on the maps derived from the aerial survey. National Map Accuracy Standards are shown below. This and other map standards are shown in Department of the Army, US Army Corps of Engineers standard, "EM 1110-1-1000, Engineering and Design - Photogrammetric Mapping".

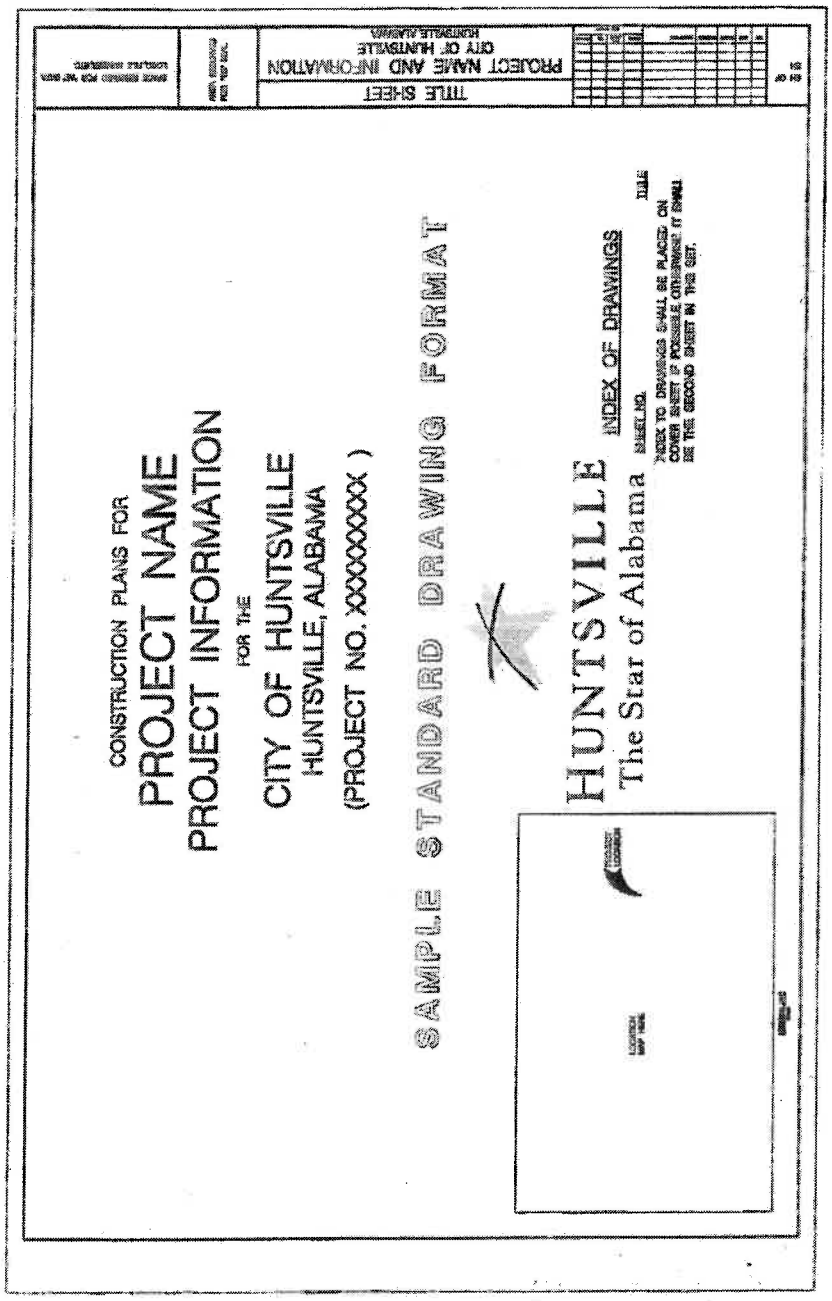
All final drawings, specifications, plans, calculations, letters containing Engineering or Surveying recommendations or other Engineering or Land Surveying papers or documents involving the practice of engineering or land surveying as defined by Code of Alabama, Title 34, Chapter 11 shall be sealed, dated, and bear the signature of the person who prepared or approved them.

Working drawings or other documents shall contain a statement to the effect "Preliminary-Not for construction, recording purposes or implementation."

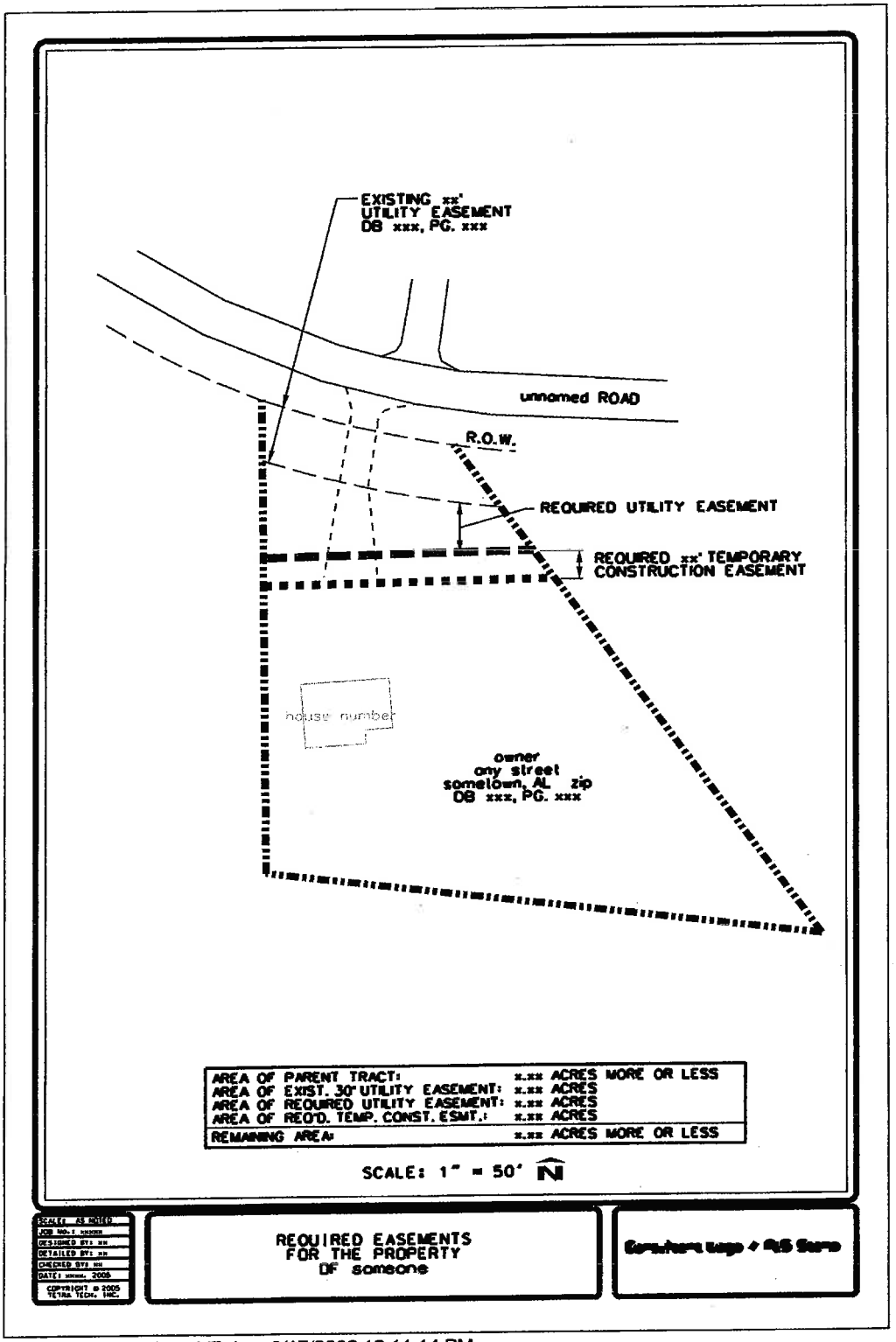
ATTACHMENT 10 – UTILITY PROJECT NOTIFICATION FORM

OMITTED (Not Applicable)

ATTACHMENT 11



ATTACHMENT 12
SAMPLE



...\easementtemplate_V7.dgn 3/17/2006 12:11:14 PM

ATTACHMENT 13

United States National Map Accuracy Standards

With a view to the utmost economy and expedition in producing maps which fulfill not only the broad needs for standard or principal maps, but also the reasonable particular needs of individual agencies, standards of accuracy for published maps are defined as follows:

1. ***Horizontal accuracy.*** *For maps on publication scales larger than 1:20,000, not more than 10 percent of the points tested shall be in error by more than 1/30 inch, measured on the publication scale; for maps on publication scales of 1:20,000 or smaller, 1/50 inch. These limits of accuracy shall apply in all cases to positions of well-defined points only. Well-defined points are those that are easily visible or recoverable on the ground, such as the following: monuments or markers, such as bench marks, property boundary monuments; intersections of roads, railroads, etc.; corners of large buildings or structures (or center points of small buildings); etc. In general what is well defined will be determined by what is plottable on the scale of the map within 1/100 inch. Thus while the intersection of two road or property lines meeting at right angles would come within a sensible interpretation, identification of the intersection of such lines meeting at an acute angle would obviously not be practicable within 1/100 inch. Similarly, features not identifiable upon the ground within close limits are not to be considered as test points within the limits quoted, even though their positions may be scaled closely upon the map. In this class would come timber lines, soil boundaries, etc.*

2. ***Vertical accuracy,*** *as applied to contour maps on all publication scales, shall be such that not more than 10 percent of the elevations tested shall be in error more than one-half the contour interval. In checking elevations taken from the map, the apparent vertical error may be decreased by assuming a horizontal displacement within the permissible horizontal error for a map of that scale.*

3. ***The accuracy of any map may be tested*** *by comparing the positions of points whose locations or elevations are shown upon it with corresponding positions as determined by surveys of a higher accuracy. Tests shall be made by the producing agency, which shall also determine which of its maps are to be tested, and the extent of the testing.*

4. ***Published maps meeting these accuracy requirements*** *shall note this fact on their legends, as follows: "This map complies with National Map accuracy Standards."*

5. ***Published maps whose errors exceed those aforestated*** *shall omit from their legends all mention of standard accuracy.*

6. ***When a published map is a considerable enlargement*** *of a map drawing (manuscript) or of a published map, that fact shall be stated in the legend. For example, "This map is an enlargement of a 1:20,000-scale map drawing," or "This map is an enlargement of a 1:24,000-scale published map."*

7. ***To facilitate ready interchange and use of basic information for map construction*** *among all Federal mapmaking agencies, manuscript maps and published maps, wherever economically feasible and consistent with the uses to which the map is to be put, shall conform to latitude and longitude boundaries, being 15 minutes of latitude and longitude, or 7.5 minutes, or 3-3/4 minutes in size.*

U.S. BUREAU OF THE BUDGET

ATTACHMENT 14

ENGINEERING DEPARTMENT - REAL ESTATE DIVISION
PLAN REQUIREMENTS

DRAWINGS:
Individual Parcels

- Each individual parcel 8 ½" x 14" (dgn or dxf format)
- Show Calculations
  - Before
  - After
  - Taking
- *All Parcels shall be closed shapes (polygons).*
- Show Existing and Proposed Right-of-Way on each individual parcel map.
- Property Ownership

Overall Project Land Acquisition Maps

- Total project drawing in dgn or dxf format
- Indicate the following:
  - Stationing on Centerline
  - Existing Right-of-Way
  - Proposed Right-of-Way
  - Existing Easements
  - Proposed Easements
  - Existing Pavement
  - Proposed Pavement/Sidewalks/Structures
  - Existing Structures
  - Property Ownership

Color Standards *(SAMPLE)*

Description	Color	Line Style	Type
Existing ROW	Red	Medium Dashed	
Proposed ROW	Red	Solid	Closed Polygon
Existing Easements	Orange	Medium Dashed	
Proposed Easements	Orange	Solid	Closed Polygon
TCE	Pink	Solid	Closed Polygon

DESCRIPTIONS:

- Microsoft Word on 3.5" Diskette or CD
- Each Description shall be complete and independent (separate file).
- Hard Copies signed and stamped by PLS.

GENERAL:

- P.K. Nails or other permanent stationing markings shall be required.
- Re-staking of right-of-way or easements may be required (See Article 4).

- All survey plats to be on Alabama State Plane Datum. Strip Maps shall indicate at least 2 monuments in place with Alabama State Plane Coordinate values shown on each.
- Parcel plats and legal descriptions shall indicate the Alabama State Plane Coordinate NAD83 Alabama East Zone Value of the point of beginning.

ATTACHMENT 15 - GIS BASE MAP

DESIGN LEVEL	CONTENTS	LINE CODE	COLOR	WEIGHT	TEXT SIZE	FONT	CELL NAME
1	State Plane Coordinate Grid	0	0	0	20	0	
2	Benchmarks	0	0	0			
3	Private Street Text	0	105	0	20	0	
3	Street Text	0	3	0	20 (or 18)	0	
4	Street R/W	7	0	0			
5	Street Centerline	7	0	0			
6	Street Pavement	0	3	0			
6	Proposed Street Pavement	3	16	0			
6	Private Streets	0	105	0			
6	Proposed Private Road	3	105	0			
7	Parking Lots	1	3	1			
7	Private Lots used as Roads	1	105	1			
8	Secondary Roads--Private	2	105	0			
8	Secondary Roads	2	3	0			
8	Trails	3	3	0			
9	Secondary Roads/Trails Text	0	3	0	20	0	
10	Sidewalks	5	3	0			
11	Bridges/Culverts/Paved Ditches	0	0	0			
12	Hydrology - Major	6	1	0			
12	Hydrology – Minor, Ditches	7	1	0			
13	Hydrology - Text	0	1	0	25	23	
14	Tailings & Quarries, Athletic Fields/Text, misc. areas	0	1	0			
15	Greenways	3	48	0			
16	Speed Tables	0	3	0			TCALM
17	Railroad Tracks (Patterned)	0	2	0			RR
18	Railroad Text	0	2	0	25	0	
19	Railroad R/W	2	2	0			
20	Utility Poles (Cell)	0	5	0			P POLE
21	Utility Easements	3	5	0			
22	Utility Text	0	5	1			
23	Geographic Names	0	3	1			
24	Building Structures	0	0	0			
24	Pools and Text	0	1	0	10	1	
24	Future Site of Structures	2	0	0			STRUCT
24	Existing Structures (exact location and shape unknown)	2	0	0			STRCEX
25	Property Lines/ refuge bdy.	6	6	1	30	1	
26	Cadastral Polygons	6	6	0			
27	Ownership Text	0	6	1			
28	Cemeteries/Text	4	6	0	10	1	
29	Lot Numbers				25	0	
30	Block Numbers				30	0	
31	Addition Names	0	0	0	35	0	
32	Open						
33	Lot Ticks						
34	Lot Lines/Property Lines	6	6	0			
35	Trees/Hedge Rows	0	6	0	AS=1		TREES
36	GPS Monuments	0	5	0	18	23	CONTRL
37	2' Topo Contour						
38	5' Topo Contour	0	7	0			
39	25' Major Topo Contour	0	7	0			

40	X Spot Elevation	0	7	0			
41	FEMA Monuments/Labels	0	3/0	0	18	1	FEMA
42	Quarter Sections						
43	Section Lines	0	5	0			
44	Features	0	2	0			
44	Cell Towers	0	12	0	AS=1		CELTWR
45	Fences (Pattern)	0	8	0	AS=1		FENCE
46	Format/Legend	0	0	0			Limleg Madleg
47	Mass Points	0	7	2			
48	Break Lines	0	7	2			
49	Open						
50	Billboards	0	37	1			BBOARD
51	Sanitary Sewer	0		3			
52	Sanitary Sewer Text						
53	Storm Water Features	0		3			
54	Storm Water Text						
55	Open						
56	Property Address	0	1	0			
57	Text Tag for Buildings	0	1	0	10-20	1	
58	One Way Arrows	1	3	1			
59	Open						
60	Open						
61	Open						
62	Monuments for Setup (point cell)						
63	Open						