

**RESOLUTION NO. 22-**

**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 the total amount of ONE HUNDRED FIVE THOUSAND AND NO/100 DOLLARS (\$105,00.00) for Subsurface Exploration for proposed Economic Development Site, Project No. 71-22-SP12, 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 Subsurface Exploration for proposed Economic Development Site, Project No. 71-22-SP12," consisting of a total of eighteen (18) pages plus twenty-eight (28) additional pages consisting of Attachments 1-15, and the date of January 13, 2022, 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 13th day of January, 2022

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

**APPROVED** this the 13th day of January 2022.

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Mayor of the City of Huntsville,  
Alabama

**AGREEMENT BETWEEN**  
**CITY OF HUNTSVILLE, ALABAMA**  
**AND**  
**OMI, INC.**  
**FOR**  
**SUBSURFACE EXPLORATION**  
**FOR**  
**PROPOSED ECONOMIC DEVELOPMENT SITE**

**Project No. 71-22-SP12**

**January 13, 2022**

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President of the City Council of the City of  
Huntsville, AL  
Date: January 13, 2022**

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**Project ID Number 71-22-SP12**

THIS AGREEMENT made as of the 13th day of January in the year 2022, 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 engineering services for Subsurface Exploration for proposed Economic Development Site, 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 engineering services required to professionally accomplish the ENGINEER's defined scope of services.

## **ARTICLE 2 SERVICES OF THE ENGINEER**

- 2.1** ENGINEER shall provide for OWNER professional engineering services for Subsurface Exploration for proposed Economic Development Site.
- 2.2** These services shall include consultation and advice; customary civil, structural, mechanical and electrical engineering design services; and Architectural services incidental thereto, as outlined herein and further described in the SCOPE OF SERVICES, ATTACHMENT 1.
- 2.3** The ENGINEER shall serve as the OWNER's professional representative in those portions of the PROJECT to which this Agreement applies and shall consult with and advise the OWNER during the performance of these services.
- 2.4** The ENGINEER shall promptly correct, or have corrected, any errors, omissions, deficiencies or conflicts in the ENGINEER's work product or that of his sub-contractors/sub-consultants, without additional compensation for time, reproduction or distribution.
- 2.5** Field surveying work is required and shall be performed in accordance with "Standards of Practice for Surveying in the State of Alabama" as required by the Alabama Board of Registration for Engineering and Land Surveyors. Surveying shall include P.K. Nails or other permanent stationing markings as well as staking of right-of-way, easements and parcels of land acquired by the City of Huntsville. Property corners shall be set at the new right-of-way. Easements shall be staked as requested by the City of Huntsville. The above field work shall be performed as a minimum as needed at the time of right-of-way acquisition and one additional time near the 100% submittal stage as determined by the OWNER. The cost for these services is included in the fees for Basic Services.

Survey data shall be based on a US Public Land Survey System corner or quarter corner. Said corner or quarter corner shall be field verified by the surveyor and a state plane coordinate provided in deliverables submitted to the City of Huntsville. All survey work shall be based on the following datum's:

Coordinate System:	US State Plane
Zone:	Alabama East 0101
Vertical Datum:	The North American Vertical Datum of 1988 (NAVD 88)
Horizontal Datum:	The North American Datum of 1983 (NAD 83)
Geoid Model:	Geoid18
Units:	US Survey Feet

- 2.6** 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 3 – CONSTRUCTION ADMINISTRATION SERVICES**

### **ARTICLE OMITTED**



#### **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 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 January 14, 2022. The final completion date for the completion of design services outlined in Article 2 shall be March 31, 2022.
- 6.2 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.
- 6.3 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, a Not-to-Exceed (NTE) Ceiling Price of ONE HUNDRED FIVE THOUSAND AND NO/100 DOLLARS (\$105,000.00) for subsurface exploration and geotechnical engineering 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 REIMBURSABLE EXPENSES

The scope of work for sub-contracted services is defined in the ENGINEER's scope of services, Attachment 1. The scope includes provisions for administration expenses for subcontracted services and reimbursable direct expenses including but not limited to laboratory tests and analyses; computer services; word processing services; permit fees, bonds, telephone, printing, binding and reproduction charges; and other similar costs.

Indirect costs will have administrative fee reimbursements limited to no more than 5%. Direct costs are also limited to no more than 5% reimbursement.

### 7.4 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

Subsurface Exploration Services – Not-to-Exceed (NTE) Ceiling Price of	\$105,000.00
<b>TOTAL CONTRACT AMOUNT:</b>	<b><u>\$105,000.00</u></b>

### ARTICLE 8 - GENERAL PAYMENT PROCEDURE

#### 8.1 INVOICES

- 8.1.1 The ENGINEER shall submit monthly invoices to The Administrative Officer in the Engineering Department 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 "Not to Exceed (NTE) with a Ceiling Price of" 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 Not to Exceed (NTE) with a Ceiling Price of 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 2 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](http://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 payments 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](http://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 SUCCESSORS AND ASSIGNS**

OWNER and ENGINEER each binds himself and his partners, successors, executors, administrators and assigns to the other party of this Agreement and to the partners, successors, executors, administrators and assigns of such other party, with respect of all covenants of this Agreement; except as above, neither OWNER nor ENGINEER shall assign, sublet or transfer his interest in this Agreement without written consent of the other. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of any public body that may be party hereof, nor shall it be construed as giving any rights or benefits hereunder to anyone other than OWNER and ENGINEER.

### **9.6 CHANGES**

**9.6.1** 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.

- 9.6.2 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.

## 9.7 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.

## 9.8 SEAL ON DOCUMENTS

- 9.8.1 Final plans and drawings shall be marked "ISSUED FOR CONSTRUCTION". When a firm, partnership, or corporation performs the work, each drawing shall be sealed and signed by the licensed engineer or engineers who were in responsible charge of the work.
- 9.8.2 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, each drawing shall be sealed and signed by the licensee or licensees responsible for each sheet.
- 9.8.3 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.
- 9.8.4 Each sheet 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.

#### **9.9 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 contractor.

#### **9.10 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.

#### **9.11 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.

#### **9.12 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. The coverage should include waiver of subrogation.

#### **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. Liability is not necessarily limited to the minimum amounts of insurance required herein, especially where other insurance coverage is available.

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 E-verify, 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 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 subcontractor(s)/consultant(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.

**ATTACHMENT 1**  
**SCOPE OF SERVICES**

**(Refer to letter dated December 9, 2021, from Jack Utrevis, E.I., and Keith Mandel, P.E., to Shane Davis and attachments).**

# OMI, Inc.

December 9, 2021

City of Huntsville  
PO Box 308  
Huntsville, AL 35804

Attn: Mr. Shane Davis

Subject: Letter of Confirmation for Subsurface Exploration  
Proposed Economic Development Site  
Huntsville, Alabama  
OMI, Inc. Job No. 9701-B

Ladies and Gentlemen:

OMI, Inc. appreciates the opportunity to provide a subsurface exploration for the referenced project. OMI is proceeding with the work based on verbal authorization from Mr. Shane Davis of the City of Huntsville on October 14, 2021, and on December 3, 2021. Please sign and return the Work Authorization Sheet to formally authorize OMI to perform the work.

Preparatory to this work, Mr. Keith Mandel of OMI, Inc. talked with Mr. Shane Davis of the City of Huntsville, reviewed the project needs, a site plan, the structural conditions and discussed the client's desires. This letter of confirmation describes the site, the structural conditions, the proposed construction, the agreed scope of work desired by the client, and a cost and schedule for performing the work. OMI Inc. appreciates the opportunity to provide consulting services to the City of Huntsville for this project. If, after reviewing the information in this letter of confirmation, you have questions or if OMI has not described the project and scope of work that is desired, please contact us.



City of Huntsville  
OMI Job No. 9701-B  
December 9, 2021  
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## **PROJECT INFORMATION**

OMI understands that the approximately 200-acre area is planned to be of future industrial use. Heavy floor slabs and column loads are expected with such ventures.

## **SCOPE OF WORK**

### **Phase 1**

OMI has agreed to drill 18 soil test borings to auger refusal, and one soil test boring to 100-ft (including rock coring). The borings will be drilled with a truck mounted drill. Split spoon samples collected during drilling will be visually classified according to the Unified Soil Classification System. Because the purpose of drilling is to explore the soils at the site, the engineer will modify the drilling program as required. Selected portions of each sample obtained during drilling will be placed in an airtight container and transported to the laboratory for storage and laboratory testing, as required. During the field sampling portion of the work the engineer will walk the site looking for indications of conditions that may cause or be a problem to the project.

After completion of the field work, the engineer will review the field data and select samples for laboratory testing. Laboratory tests anticipated at this time include soil index tests such as Atterberg limits tests and sieve analyses. These tests assist in classifying the soils and serve as an index to engineering properties. Moisture content samples are also anticipated. Moisture content tests serve as a very inexpensive test that assist the engineer in judging different engineering characteristics of the soil.

The engineer will review the field and laboratory test results and perform analyses to judge the effects of the construction equipment, the building, and the other developments on the soils of the site and then to make recommendations for foundation design and site earthwork construction.

**OMI, Inc.**

City of Huntsville  
OMI Job No. 9701-B  
December 9, 2021  
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The engineer will review the field and laboratory test results and perform analyses to judge the effects of the construction equipment, the building, and the other developments on the soils of the site and then to make recommendations for foundation design and site earthwork construction.

## **Phase 2**

### **Geotechnical Scope**

OMI has agreed to drill 17 soil test borings to auger refusal, and two soil test boring to 110-ft (including rock coring). The borings will be drilled with a track mounted drill. Split spoon samples collected during drilling will be visually classified according to the Unified Soil Classification System. Because the purpose of drilling is to explore the soils at the site, the engineer will modify the drilling program as required. Selected portions of each sample obtained during drilling will be placed in an airtight container and transported to the laboratory for storage and laboratory testing, as required. During the field sampling portion of the work the engineer will walk the site looking for indications of conditions that may cause or be a problem to the project.

### **Electrical Resistivity Scope**

OMI proposes to perform three resistivity survey lines ranging in length from 950-ft to 2,700-ft in length and model down to the underlying bedrock. Resistivity lines will be laid out based on drawings provided by the City of Huntsville. OMI will collect the resistivity data and compile it in order to create several 2D profiles of the subsurface conditions.

Electrical resistivity is a non-destructive, non-intrusive method of studying subsurface soil and rock conditions. It can identify variations such as voids in the soil or rock such as sinkholes, caves, old filled in trenches, buried debris, or underground storage tanks. The process involves driving a series of 18-in electrical probes 12-in into the ground at set spacings and along a line. Electrical current is then pushed between two probes and the resistivity of the soil is measured at intermediate probes. The depth of the area studied increases as the distance between the electrical probes increases. As soil materials change



City of Huntsville  
OMI Job No. 9701-B  
December 9, 2021  
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in consistency, which may be a result of mineralogy, moisture content, density, or foreign materials, the electrical resistivity or conductivity changes. Therefore, if a sinkhole, cave, or underground variation is present under the resistivity profile, a change in resistivity will show up due to the changed conditions in the soil profile. The specific method of probe spacings and the distance between probes influences the size and depth to which an object can be identified.

OMI uses a multiple probe resistivity meter that allows up to 56 probes to be placed in the ground and attached to the machine at one time. A computer systematically switches between the probes sending current between two probes and measuring the resistivity between two additional probes. The computer switches through the combinations of probes to collect over 500 readings during each setup. Mathematical modeling techniques are then used to evaluate the data and the resulting resistivity is plotted using a graphical contouring program.

#### Engineering and Deliverables

After completion of the field work, an engineer will reduce the resistivity data and evaluate the results. This data will be used to determine where probable sinkhole conditions exist and the extent of the conditions. The engineer will also review the soil test boring data and select samples for laboratory testing. Laboratory tests anticipated at this time include soil index tests such as Atterberg limits tests. These tests assist in classifying the soils and serve as an index to engineering properties. Moisture content samples are also anticipated. Moisture content tests serve as a very inexpensive test that assist the engineer in judging different engineering characteristics of the soil.

The engineer will review the field and laboratory test results and perform analyses to judge the effects of the construction equipment, the building, and the other developments on the soils of the site and then to make recommendations for foundation design and site earthwork construction.

City of Huntsville  
OMI Job No. 9701-B  
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### **COST ESTIMATE AND SCHEDULE**

OMI will perform the outlined scope of work for \$105,000.00. This cost assumes that the site is accessible to our truck mounted drill. As stated previously, there is a chance that unanticipated conditions will be encountered, and that the scope of work may need to be modified. OMI will not perform additional services without approval from the client or his representative.

Based on the current schedule, OMI can mobilize to the site for Phase 2 in about three to five days. Drilling is estimated to take ten to thirteen days and the resistivity survey is estimated to take two to three days. Laboratory testing is expected to take three to five days to perform, and an additional ten days will be required to prepare the written report.

### **AUTHORIZATION**

OMI, Inc. is proceeding with this work based on verbal authorization from Mr. Shane Davis on October 14, 2021, for Phase 1 and December 3, 2021, for Phase 2. To complete our files, please execute and return the attached Work Authorization Sheet. Please note any special instructions such as billing, site access requirements or a special contact on this sheet. General Conditions are also attached with this proposal and are considered an integral part of the proposal. The General Conditions discuss right of entry, environmental hazards, insurance, and other items.



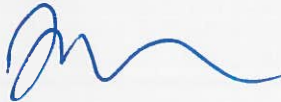
City of Huntsville  
OMI Job No. 9701-B  
December 9, 2021  
Page 6

\* \* \* \* \*

OMI, Inc. appreciates the opportunity to provide these services to the City of Huntsville. We appreciate the opportunity to assist on this important project. If you have any questions or if we can be of service, please call.

Very Truly Yours,

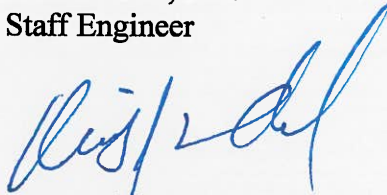
OMI, Inc.



Jack Utrevis, E. I.  
Staff Engineer



J. Ethan Maples  
Staff Geologist



Keith J. Mandel, P.E.  
Senior Engineer

Distribution via email to: [shane.davis@huntsvilleal.gov](mailto:shane.davis@huntsvilleal.gov)

Attachments: General Conditions  
Work Authorization Sheet  
Property Access Authorization

## 9701 Mountain Top Subsurface cost estimate

SUBSURFACE COST SHEET					
OMI, INC.					
JOB NAME:	Proposed Economic Site Development			ARCHITECT:	
LOCATION:	Gurley			PHONE:	
CLIENT:	COH (contact: Shane Davis)			ENGINEER:	
CLIENT PHONE:	256-427-5000			PHONE:	
JOB DESCRIPTION:					
Drill Rig		TRACK			
DRILLING					
ITEM	NO.	NO. OF	DEPTH	UNIT COST	SUB TOTAL
Mobilization	3		1	\$ 420.00 ea.	\$ 1,260.00
S T Borings	1	borings to	402 ft.	\$ 20.16 ft.	\$ 8,104.32
S T Borings	1	borings to	410 ft.	\$ 20.16 ft.	\$ 8,265.60
S T Borings	0	borings to	20 ft.	\$ 16.80 ft.	\$ -
S T Borings	0	borings to	45 ft.	\$ 16.80 ft.	\$ -
Rock Core	1	sample	57 ft.	\$ 57.60 ft.	\$ 3,283.20
Set Casing	1	borings to	43 ft.	\$ 7.20 ea.	\$ 309.60
Water hauling	2			\$ 300.00 dy	\$ 600.00
UD Tubes	0			\$ 60.00 ea.	\$ -
Rock Core Setup	1	borings		\$ 180.00 ea.	\$ 180.00
Drilling Concrete		Boring		ea \$ 60.00 ea.	\$ -
Drilling	SUBTOTAL			\$ 22,002.72	
Total ft of soil borings=			869		
Test Pits or Seismic or Resistivity Field Testing					
		NO.		UNIT COST	SUB TOTAL
SEIS/RESIS. RENTAL	Seismic or Resistivity Rental	0 dy		\$ 500.00 ea.	0
P-02	Tech	0 hr		\$ 50.00 ea.	0
P-05	Eng	0 hr		\$ 130.00 ea.	0
EQUIP RENTAL	Backhoe Mobil.	0		\$ 300.00 ea.	0
EQUIP RENTAL	Backhoe Rental	0 hr		\$ 180.00 hr	0
			Sub Total	0	
LABORATORY					
		NO.		UNIT COST	SUB TOTAL
L-01	Moisture Content	178		\$ 8.50 ea.	1513
L-02	Atterberg Limits	4		\$ 70.00 ea.	280
L-22	CBR			\$ 475.00 ea.	0
L-14	Consolidation Test			\$ 675.00 ea.	0
L-10	Standard Proctor			\$ 115.00 ea.	0
L-16	Unconfined Comp.			\$ 63.00 ea.	0
OUTSOURCE	UU Triaxial			\$ 840.00 ea.	0
			Sub Total	1793	
ENGINEERING					
		TIME		RATE	SUB TOTAL
P-05	Permitting and Layout	2 hr.		\$ 95.00	190
P-05	Drilling Supervision and Logging	108 hr.		\$ 95.00	10260
P-05	Analysis	3 hr.		\$ 95.00	285
P-05	Rough Draft	6 hr.		\$ 95.00	570
P-05	Review Report	3 hr.		\$ 95.00	285
P-05	Water Table	4 hr.		\$ 95.00	380
SUB TOTAL		126			
P-09	Proposal Prep	hr.		\$ 155.00	0
P-08	PE Review	0 hr.		\$ 130.00	0
P-09	Senior Review	0 hr.		\$ 155.00	0
P-10	Principal Engineer	42 hr.		\$ 190.00	7980
P-12	Drafting	6 hr.		\$ 63.00	378
P-11	Secretary	9 hr.		\$ 55.00	495
M-04	Mileage	12 trips	36 mi.	\$ 0.90	\$ 388.80
			SUB TOTAL	21211.8	
cost per foot		\$ 51.79	TOTAL		\$ 45,007.52
COST ESTIMATE BY: EM		BUDGET QUOTED:			
DATE: 12/10/2021		BY:			
		DATE:			



## 9786 Mountain Top Phase 2 Subsurface cost estimate

SUBSURFACE COST SHEET					
OMI, INC.					
JOB NAME:	Proposed Economic Development Site Phase 2			ARCHITECT:	
LOCATION:	Gurley			PHONE:	
CLIENT:	COH (contact: Shane Davis)			ENGINEER:	
CLIENT PHONE:	256-427-5000			PHONE:	
JOB DESCRIPTION:					
Drill Rig		TRACK			
DRILLING					
ITEM	NO.	NO. OF	DEPTH	UNIT COST	SUB TOTAL
Mobilization	2		1	\$ 420.00 ea.	\$ 840.00
S T Borings	1	borings to	874 ft.	\$ 16.80 ft.	\$ 14,683.20
S T Borings	0	borings to	0 ft.	\$ 16.80 ft.	\$ -
S T Borings	0	borings to	0 ft.	\$ 16.80 ft.	\$ -
S T Borings	0	borings to	0 ft.	\$ 16.80 ft.	\$ -
Rock Core	2	sample	64 ft.	\$ 54.00 ft.	\$ 6,912.00
Set Casing	2	borings to	64 ft.	\$ 6.00 ea.	\$ 768.00
Water hauling	3			\$ 300.00 dy	\$ 900.00
UD Tubes	0			\$ 60.00 ea.	\$ -
Rock Core Setup	2	borings		\$ 180.00 ea.	\$ 360.00
Drilling Concrete		Boring		ea \$ 60.00	\$ -
Drilling				SUBTOTAL	\$ 24,463.20
Total ft of soil borings=			1002		
Test Pits or Seismic or Resistivity Field Testing					
SEIS/RESIS. RENTAL	Seismic or Resistivity Rental	NO.		UNIT COST	SUB TOTAL
P-02	Tech	5	dy	\$ 500.00 ea.	2500
P-05	Eng	78	hr	\$ 130.00 ea.	10140
EQUIP RENTAL	Backhoe Mobil.	0		\$ 300.00 ea.	0
EQUIP RENTAL	Backhoe Rental	0	hr	\$ 180.00 hr	0
				Sub Total	12640
LABORATORY					
		NO.		UNIT COST	SUB TOTAL
L-01	Moisture Content	228		\$ 8.50 ea.	1938
L-02	Atterberg Limits	4		\$ 70.00 ea.	280
L-22	CBR			\$ 475.00 ea.	0
L-14	Consolidation Test			\$ 675.00 ea.	0
L-10	Standard Proctor			\$ 115.00 ea.	0
L-16	Unconfined Comp.			\$ 63.00 ea.	0
OUTSOURCE	UU Triaxial			\$ 840.00 ea.	0
				Sub Total	2218
ENGINEERING					
		TIME		RATE	SUB TOTAL
P-05	Permitting and Layout	6	hr.	\$ 95.00	570
P-05	Drilling Supervision and Logging	100	hr.	\$ 95.00	9500
P-05	Analysis	4	hr.	\$ 95.00	380
P-05	Rough Draft	7	hr.	\$ 95.00	665
P-05	Review Report	3	hr.	\$ 95.00	285
P-05	Water Table	3	hr.	\$ 95.00	285
	SUB TOTAL	123			
P-09	Proposal Prep		hr.	\$ 155.00	0
P-08	PE Review	0	hr.	\$ 130.00	0
P-09	Senior Review	0	hr.	\$ 155.00	0
P-10	Principal Engineer	38	hr.	\$ 190.00	7220
P-12	Drafting	7	hr.	\$ 63.00	441
P-11	Secretary	16	hr.	\$ 55.00	880
M-04	Mileage	14	trips	36 mi. \$ 0.90	\$ 453.60
				SUB TOTAL	20679.6
cost per foot		\$ 59.88		TOTAL	\$ 60,000.80
COST ESTIMATE BY:		EM	BUDGET QUOTED:		
DATE:		12/10/2021	BY:		
			DATE:		



# 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
<input type="checkbox"/> Individual or Sole Proprietorship	Not Applicable
<input type="checkbox"/> General Partnership	Not Applicable
<input type="checkbox"/> Limited Partnership (LP)	Number & State:
<input type="checkbox"/> Limited Liability Partnership (LLP)	Number & State:
<input type="checkbox"/> Limited Liability Company (LLC) (Single Member)	Number & State:
<input type="checkbox"/> LLC (Multi-Member)	Number & State:
<input checked="" type="checkbox"/> Corporation	Number & State: <u>63-1138946</u> <u>AL</u>
<input type="checkbox"/> 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/](http://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: [Signature] Title (if applicable): \_\_\_\_\_  
Type or legibly write name: \_\_\_\_\_ Date: \_\_\_\_\_

**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**

**N/A**

**OMI, Inc.****GEOTECHNICAL ENVIRONMENTAL****2021 CITY OF HUNTSVILLE - STANDARD FEE SCHEDULE****Drilling**

Mobilization of truck mounted drill rig to Huntsville area	\$315.00
Mobilization of ATV mounted drill rig to Huntsville area	\$440.00
Soil test borings, 0 to 25 ft., per ft.	\$13.85
Soil test borings, 25 to 50 ft., per ft.	\$15.25
Soil test borings, 50 to 75 ft. per ft.	\$16.75
Additional split spoon samples, per sample	\$12.50
Auger boring without sampling, per ft.	\$10.70
Undisturbed sampling, per attempt	\$63.00
Set up for rock coring, per boring	\$220.00
Rock coring, NQ, per ft.	\$44.00
Difficult moving, delay at client's request or water hauling, per hour	\$190.00
Setting casing in pre-drilled hole, per ft.	\$6.50
Reaming casing or advancing boring by reaming casing, per hr.	\$155.00
Hourly rate drilling, for special conditions, per hr.	\$155.00
Installation of 2-in. PVC pipe for Piezometers, per linear ft.	\$19.00
Environmental drilling, quoted on a job specific basis, per job	
Rental of special equipment for clearing or site access: Cost + 5%	
Grouting borings, per foot	\$12.50

**Environmental Services**

NPDES Permit Application, per site	\$1,525.00
Prepare eNOI	\$500.00
NPDES Monthly Monitoring Service, per inspection (less than 30 miles from OMI)	\$190.00
NPDES Monthly Monitoring Service, per inspection (more than 30 miles from OMI)	\$240.00
NPDES Priority Site, Monthly Monitoring Service, per inspection	\$270.00
Priority Site, Stormwater Turbidity Sampling/Testing, per sample	\$50.00
NPDES Permit Final Report and Termination/Close-out	\$400.00
CBMPP, Design and Application of CBMPP, Includes eNOI submission	\$1,900.00

**Hourly Rate Schedule** (standard laboratory rates apply unless otherwise noted)

Standby Time for Technician, in excess of 1/2 hour	\$36.75
Field Technician: Density tests, ACI Level I, ALDOT Asphalt, Monitoring	\$50.00
Laboratory Technician	\$63.00
Project Manager	\$90.00
Senior Project Manager	\$120.00
Staff Engineer, EIT	\$95.00
Environmental Scientist	\$90.00
Senior Environmental Scientist	\$130.00
Professional Engineer or Geologist, Registered	\$130.00
Senior Engineer, Registered	\$155.00
Principal Engineer, Registered	\$190.00
Administrative Personnel	\$55.00
CADD Operator	\$63.00
Reimbursable expenses (equipment rental), cost plus 5 percent	

# OMI, Inc.

## GEOTECHNICAL ENVIRONMENTAL 2021 CITY OF HUNTSVILLE - STANDARD FEE SCHEDULE

### Soil Lab Tests

Moisture Content	\$8.50
Atterberg Limits, ASTM D423 and D424	\$70.00
Sieve analysis, ASTM D422	\$70.00
Wash 200 sieve, ASTM D422	\$48.00
Sieve and hydrometer analysis, ASTM D422	\$140.00
Specific gravity, ASTM D854	\$75.00
Unit weight, dry, undisturbed sample	\$65.00
Unit weight, dry, split spoon sample	\$37.00
Standard-or-Modified Proctor, one-point test (check plug)	\$42.00
Standard Proctor compaction test, ASTM D698	\$115.00
Modified Proctor compaction test, ASTM D1557	\$126.00
Organic Burnoff	\$47.25
PH Test	\$63.00
Consolidation Test, up to 10 Loads (with Rebound), ASTM D2435	\$675.00
Consolidation Test, w/ back pressure saturation, up to 10 Loads, ASTM D2436	\$735.00
Unconfined compression test, split spoon sample, ASTM D2166	\$63.00
Unconfined compression test, undisturbed sample	\$80.00
Unconfined compression test, remolded, ASTM D2166	\$95.00
Triaxial shear test 3 points, unconsolidated undrained	\$475.00
Triaxial shear test 3 points, consolidated, undrained	\$610.00
Triaxial shear test 3 points, consolidated, undrained, w/pore pressure	\$840.00
California bearing ratio (CBR) per moisture content ASTM D1883	\$475.00
Permeability test ASTM D5084, undisturbed sample	\$475.00
Permeability test ASTM D2434, granular soils	\$315.00
Remolding samples to specified conditions	\$80.00

Rates are portal to portal.

Minimum 2 hour charge for site visits.



**ATTACHMENT 6 - PROGRESS REPORT**  
**(Article 8)**

PROGRESS REPORT NO. \_\_\_\_\_ FOR MONTH AND YEAR \_\_\_\_\_

PROJECT \_\_\_\_\_ PROJECT NO. \_\_\_\_\_

DATE \_\_\_\_\_ CITY'S PROJECT ENGINEER \_\_\_\_\_

CONSULTANT \_\_\_\_\_ CONSULTANT'S PROJ. MAN. \_\_\_\_\_

CURRENT MONTH % COMPLETE: \_\_\_\_\_ PREV. MONTH % COMPLETE: \_\_\_\_\_

ATTACH A "SHOULD HAVE STARTED TASKS REPORT" AND A "SLIPPING TASKS REPORT" FROM MICROSOFT PROJECTS THAT LISTS ALL ACTIVITY THAT IS BEHIND SCHEDULE.

ATTACH A "TASKS STARTING SOON" REPORT FROM MICROSOFT PROJECTS WITH A DATE RANGE OF THIRTY (30) DAYS AFTER THE DATE OF THIS PROGRESS REPORT.

STATE WHAT ACTION IS BEING TAKEN TO BRING PROJECT BACK TO SCHEDULE:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

MILESTONE SUBMITTALS	SCHEDULED DATE	ACTUAL DATE
30%	_____	_____
60%	_____	_____
90%	_____	_____
100%	_____	_____
"FINAL" INVOICE SUBMITTED		_____
SUBCONSULTANTS PAID IN FULL		_____
CONTRACTED COMPLETION DATE:	March 31, 2022	_____

(These scheduled dates shall be agreed upon at the beginning of the project (Attachment 4) with the Project Engineer and noted monthly on each progress report. The scheduled contract completion date shall not be changed except by contract change order. Changes to the scheduled milestone submittal dates shall be accompanied by a new project schedule approved by the OWNER'S Project Engineer.)

UPDATED SCHEDULE ATTACHED? \_\_\_\_\_ YES \_\_\_\_\_ NO

\*If yes, send an electronic copy to the Project engineer

COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

This progress report (4 copies) shall be submitted monthly. Scheduled completion dates will not be extended without a contract modification.

CERTIFICATION: I certify that the stated information is true and accurate to the best of my knowledge.

CONSULTANT _____	DATE _____	CITY PROJECT ENGINEER _____	DATE _____
------------------	------------	-----------------------------	------------

**ATTACHMENT 7 - SUB CONSULTANTS ENGAGED BY THE ENGINEER**  
**(Article 9.2)**

<b>CONSULTANT NAME AND ADDRESS</b>	<b>DESCRIPTION OF SERVICES</b>	<b>FEE</b>
	N/A	
	SUB-TOTAL	
	5% Administrative Fee	
	TOTAL	

**ATTACHMENT 8 - CONTRACT DOCUMENT REQUIREMENTS LIST**

<b>REQUIREMENT</b>	<b>SUBMIT TO</b>	<b>SUBMITTAL REQUIREMENT DATE</b>	<b>NUMBER OF COPIES</b>	<b>REFERENCE SECTION OF CONTRACT AND COMMENTS</b>
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
Approval of contractor's Request for Payment.	OWNER	Within ten (10) days of receipt of the request from the contractor.	N/A	Article 3.4
Approval of contractor submittals	OWNER	So as to cause no delay to the contractor or the PROJECT.	N/A	Article 3.8
Change order changes that reduce construction requirements.	OWNER	Prior to authorizing a change.	N/A	Article 3.11
Any information pertaining to any claim.	OWNER	Immediately	2	Article 3.12
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
Consultant progress report.	OWNER	Monthly	4	Article 8.1.1
Records, data, parameters, design calculations and other information.	OWNER	Cancellation of contract.	2	Article 9.7
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)
Certificate of insurance for sub consultants/subcontractors.	OWNER	At 0% design conference.	1	Article 10.7
A schedule in Microsoft Projects format showing the critical path.	Project Engineer	Within 7 calendar days of Pre-design conference, 30% complete design review. 60% design review. Attachment 4	1 hard; 1 digital	Attachment 4
Drawings.	Project Engineer	30% complete design review, 60% design review, 90% review, and 100% complete.	3	Attachment 4
Cost estimate.	Project Engineer	30% complete design review, 60% review, 90% review, and 100% complete.	3	Attachment 4
Hydraulic reports.	Project Engineer	60% design review.	N/A	Attachment 4
Preliminary plans for utilities.	Project Engineer	60% design review.	N/A	Attachment 4
Legal descriptions for takings.	Project Engineer	60% design review, 90% review, 100% complete.	N/A	Attachment 4
Traffic Control plan.	Project Engineer	60% design review.	N/A	Attachment 4
Results of geotechnical investigations.	Project Engineer	30% design review.	2	Attachment 4
Technical specifications.	Project Engineer	90% review, 100% complete.	N/A	Attachment 4
Relocation of Utilities	Project Engineer	0% review-list of all utilities that need to be contacted 60% review – from all affected parties 90% review – Signed Acceptance Utility Project Notification Form	2	Attachment 4, 10
Design Calculations	Project Engineer	90% review, 100% complete	1	Attachment 4
Digital copy of drawings.	Project Engineer	100% complete.	1	Attachment 4
Digital text files.	Project Engineer	100% complete.	1	Attachment 4
Bid Quantities.	Project Engineer	100% complete.	N/A	Attachment 4
Permits and Permit Applications	Project Engineer	100% complete.	1	Attachment 4

Field notes.	Project Engineer	100% complete.	1	Attachment 4
Digital aerial photography.	Project Engineer	100% complete.	1	Attachment 4
Progress Report (Art. 8)	Project Engineer	30% complete design review, 60% design review, 90% design review, 100% completion stage.	4 hard; 1 digital monthly	Attachment 6

## **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**

NAME: \_\_\_\_\_  
(Company Name)

PROJECT NAME: \_\_\_\_\_ PROJECT NUMBER: \_\_\_\_\_

CONSULTING ENGINEER: \_\_\_\_\_  
(Name)

ENGINEERING  
REPRESENTATIVE \_\_\_\_\_ PHONE: \_\_\_\_\_

I have reviewed design drawings or other information as available, and:

DO \_\_\_\_\_

DO NOT \_\_\_\_\_

have facilities that will require relocation. If relocation is required, a construction duration of \_\_\_\_\_ calendar days from the Notice to Proceed, is anticipated to be required for relocation.

LIST NAME(S) OF OTHER UTILITY(S) that share poles or facilities that have to be relocated prior to YOU starting your work:

NAME OF UTILITY: \_\_\_\_\_

NAME OF UTILITY: \_\_\_\_\_

NAME OF UTILITY: \_\_\_\_\_

OTHER: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

BY: \_\_\_\_\_  
AUTHORIZED REPRESENTATIVE

FIELD CONTACT PERSON: \_\_\_\_\_ PHONE: \_\_\_\_\_  
OFFICE CONTACT PERSON: \_\_\_\_\_ PHONE: \_\_\_\_\_

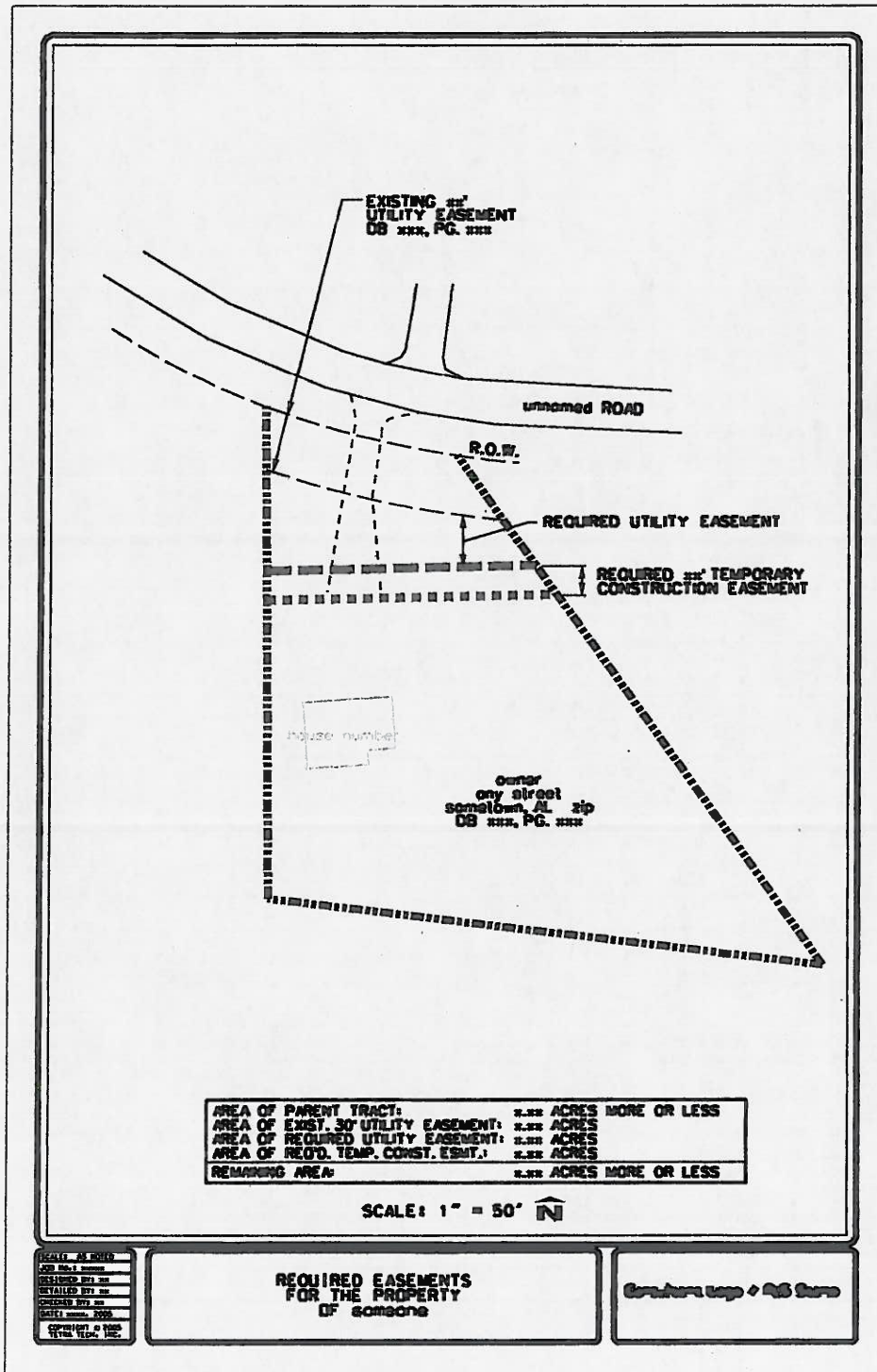
DATE: \_\_\_\_\_

**ATTACHMENT 11**

TITLE SHEET		PROJECT NAME AND INFORMATION		CITY OF HUNTSVILLE HUNTSVILLE, ALABAMA		SHEET NO.		TITLE	
CONSTRUCTION PLANS FOR		PROJECT NAME		PROJECT INFORMATION		FOR THE		CITY OF HUNTSVILLE	
HUNTSVILLE		The Star of Alabama		HUNTSVILLE		INDEX OF DRAWINGS		INDEX TO DRAWINGS SHALL BE PLACED ON COVER SHEET IF POSSIBLE. OTHERWISE IT SHALL BE THE SECOND SHEET IN THE SET.	
SAMPLE STANDARD DRAWING FORMAT		(PROJECT NO. XXXXXXXXX )		HUNTSVILLE		SHEET NO.		TITLE	
HUNTSVILLE		The Star of Alabama		HUNTSVILLE		INDEX OF DRAWINGS		INDEX TO DRAWINGS SHALL BE PLACED ON COVER SHEET IF POSSIBLE. OTHERWISE IT SHALL BE THE SECOND SHEET IN THE SET.	
HUNTSVILLE		The Star of Alabama		HUNTSVILLE		INDEX OF DRAWINGS		INDEX TO DRAWINGS SHALL BE PLACED ON COVER SHEET IF POSSIBLE. OTHERWISE IT SHALL BE THE SECOND SHEET IN THE SET.	



# **ATTACHMENT 12** **SAMPLE**



## 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 aforesaid** *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)**

<u>Description</u>	<u>Color</u>	<u>Line Style</u>	<u>Type</u>
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						