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Addendum
ITB 15-04

Changes, Revisions and Additions

1. The bid due date will be moved to **2:00 P.M. Tuesday on June 30th**.
2. The Water Main Bid Form is replaced in its entirety. Pay Item SP-01 Subsurface Utility Engineering (SUE) has been added and several pay items were re-labeled to be better coordinated with other specifications. Bidders must replace the Water Main portion of the bid form with the form included in this addendum.
3. Changes to Special Provision Adapted from GDOT Section 670 – Water Distribution System

Retitle Section:

Special Provision Titled “Special Provision Adapted from GDOT Section 670- Water Distribution System” is renamed “Special Provision Section 670 – Water Distribution System, Adapted from GDOT Section 670-Water Distribution System.”

Section 670.1.2 Related References, following item 2 in Paragraph B. Related Documents:

Add “3. Special Provision SP-01 Subsurface Utility Engineering (SUE).

Following paragraph 670.2.1.Y Manholes:

Add “Z. Flowable Fill

1. Flowable fill shall meet the standards described in Section 600 – Flowable Fill.”

This Section will not be reissued for bidding. A conformed set of Water Main Construction Documents will be issued after award of the Contract.

4. Special Provision SP-01 Subsurface Utility Engineering (SUE) has been added.
5. Supplemental Conditions titled “Department of Watershed Management, DeKalb County, Georgia, Chamblee Dunwoody Road Water Main Replacement Project, Construction Documents” have been added.

Response to Questions

1. The requirement to place 1.5" of Asphalt over the concrete trench cap can and will be problematic.
 - a. Due to the small amount of Asphalt (6 tons) involved on a daily basis, there is no way a particular plant will be able to guarantee that it will be making asphalt for the project regularly/daily.
 - b. This could lead to the contractor:
 1. scrambling to find an operating asphalt plant on a daily basis,
 2. disrupting traffic for extended periods waiting for asphalt to arrive from random/distant plants
 3. or even not working due to lack of available asphalt plants.
 - c. We will be expected to place pipeline in winter months when no asphalt plants are operating.

How can we place asphalt in the winter months when no asphalt is available? How will the problem be addressed when asphalt is not available for a particular time period during the non-winter months?

Response: The city will allow the contractor to eliminate the 1.5" asphalt topping over the trench cap provided that the concrete can be finished smooth and flush with the surrounding asphalt.

2. One set of Road & Drainage plans (SEI) shows 8" of GAB under the curb. The other set (WA) shows no GAB under the curb. Both sets have this specification on sheet 5-01. Should we follow this literally? GAB under the curb on 1/2 of the project and none on the other 1/2? Or should we expect that the owner will want consistent construction throughout?

Response: Use 8" GAB under the curb on entire project.

3. The final section of waterline from station 91+00 to 99+00 will require obliteration of the existing sidewalks and driveway aprons. There is no indication on the road plans that this sidewalk will be replaced. Are we to replace the sidewalks and driveway aprons? Will this be paid under the roadwork items? If there are line items in the contract that cover a particular item of work I.E. sidewalks. Then all sidewalk installed on the project would get billed under that item. It is not contractually proper to say that despite having a line item for this type of work, we want you to include this particular section of the work in a different pay item. That defeats the purpose of a line item contract.

Response: If sidewalk and driveway aprons, or any other item that must be temporarily removed to construct the water line, are not shown for replacement on the Roadway Plans then they are to be replaced as an incidental to the water line work as described in section 670.4 Measurement of the Special Provision.

4. Is there a particular reason to run the waterline in the middle of the road from station 4+00 to 25+50 Traffic will have to be funneled down into a very small one lane road in those sections. Moving to the side of the road would alleviate this problem. The County/City may want to consider a revision.

Response: The alignment of the water main between Station 4+50 +/- and Station 12+50 +/- may be shifted west through a work directive to allow for two way traffic and greater space for construction activities. This option will be performed with no changes in price and no additions of other pay items. Bidders should consider the potential impacts to the work, restoration, safety, traffic control, etc. that may result from a more westerly alignment. Additionally, the water main work between 12+50 +/- and the tie-in at Mount Vernon Road and Nandina Lane shall be done at night to allow traffic to be detoured or reduced to one lane with minimal traffic disruption.

5. The waterline is designed to be placed between the 16" Main and the 6" AC main from station 42+00 to 48+00 the County may want to consider realignment as the risk of striking either watermain during construction is unacceptably high and unsafe.

Response: A Pay Item for Subsurface Utility Engineering (SUE) has been added to the Water Main Replacement Bid Form. Special Provision 01 – "Subsurface Utility Engineering" is included in this Addendum to detail the requirements of this Pay Item. The Contractor will engage a SUE Consultant to determine the exact locations of all utilities in the area between Station 33+00 +/- and Station 45+50 +/- . The water main may be realigned in response to the results of the SUE, which must begin within two weeks of Notice to Proceed. Field work will need to be completed within three weeks from starting the SUE investigation. Draft drawings, indicating the size, type and locations of utilities mapped shall be submitted to the Engineer two weeks after completing the field work. The use of this pay item is Owner directed. Payment for each test hole will not be made without written Engineer approval before the SUE Consultant performs the work for each test hole. It is anticipated that the test holes will be approved in a single lot, but the Bidder should anticipate a second round of follow up test holes, approved in a second lot, that may be required to confirm findings of the first lot. No other additional pay associated with utility locates in other areas or with realigning the water mains will be made.

6. This project consists of 75% Utilities/Concrete and 25% Roadwork. We request that utility contractors be allowed to bid as prime contractors.

Response: A current, valid Utility Contractor's license is acceptable.

7. We request the bedding and backfill detail be modified as follows. Bedding – Type 1/Virgin Soil or Type 2 Backfill in wet or bad soils. Initial Backfill – Compacted dirt to 95% or better. Final Backfill GAB 12" to the concrete cap. Or at least eliminate 3 different types of stone as backfill. Use #57 and GAB. The cost vs benefit of 3 types of stone should be considered.

Response: The DeKalb County detail 12 on Sheet C-15 of the water main plans shall apply with the exception that the City will allow Type II Backfill material or Type IIIC1 or better soil for the initial and final backfill zones under pavements.

8. Are message boards required? How many and where will they be placed?

Response: Message boards will be required at 4 locations to be determined.

9. The price per LF of pipe is inclusive of what work items?

Response: Special Provision, Section 670 – Water Distribution System, paragraph 670.5 – Payment provides a detailed description of the work items included under this Pay Item. The pay item for Water Main is intended to include payment for all work items required to complete the Scope of Work that are not specifically covered by other Pay Items in the Water Main Replacement section of the project with the exceptions listed above.

Supplemental Conditions, SC-2 – Restoration of Areas Impacted by Roadway Improvements further details requirements.

10. We have a pay item for saw cutting of the road but on Sheet 4-01 of the WA plans note 15 says that all saw cutting is to be included in the price for grading complete. This is a conflict. Please clarify.

Response: Bidders should put a 0 quantity and cost amount in this line item and include all saw cutting related to road construction in grading complete and all saw cutting related to water main installation in the water main pay item.

11. There is no safe way to install the waterline AND have two way traffic during construction. The road will have to be reduced to one lane during construction.

Response: From the start of the project at Station 4+50 +/- to 12+50 +/- see the response to Number 4 concerning a westward shift in the water main alignment. Between Station 12+50 +/- and the tie-in at Nandina Lane and Mount Vernon Road the contractor shall install the water main at night. South of Mount Vernon the contractor will be expected to make every effort to maintain two-way traffic as outlined in the Traffic Control section of the bid document. All related costs including nighttime work should be included in the Water Main Traffic Control pay item.

12. I have another question regarding the Chamblee Dunwoody Road Water Main Replacement bid. On page 4 of the Bid Documents, it states that there is a 20% LSBE/DBE goal for this contract and bidders must submit the attached forms with the bids. However, the bid documents do not contain the LSBE/DBE goal forms. Is there another form that would suffice?

Response: Bidders may use the Georgia Department of Transportation DBE form. What is needed is a listing of LSBE/DBE qualified subcontractors to be used on the project and the estimated subcontract amount or percentage of the total project amount.

BID FORM

Chamblee Dunwoody Road Water Main Replacement and Road Improvements

PAY ITEM	ITEM DESCRIPTION	UNIT PRICE	UNIT	QUANTITY	TOTAL
WATER MAIN REPLACEMENT ITEMS					
150-1000	TRAFFIC CONTROL		LS	1	
163-0001	EROSION CONTROL PER WATER MAIN DRAWINGS		LS	1	
500-3200	CONCRETE ENCASEMENT, 12" THICK		CY	86	
670-0001	FLOWABLE FILL (ABANDON WATERLINE AND GROUT FILL)		CY	101	
670-1060	WATER MAIN, 6" DIP		LF	698	
670-1080	WATER MAIN, 8" DIP		LF	8921	
670-2003	AIR RELEASE VALVE ASSEMBLY		EA	3	
670-2060	GATE VALVE, 6" W/BOX & PAD		EA	26	
670-2080	GATE VALVE, 8" W/BOX & PAD		EA	24	
670-3066	TAPPING SLEEVE & VALVE ASSEMBLY, 6" X 6"		EA	8	
670-3087	TAPPING SLEEVE & VALVE ASSEMBLY; 8" X 8"		EA	3	
670-4000	FIRE HYDRANT ASSEMBLY (NO VALVE INCLUDED)		EA	24	
670-4510	CONCRETE THRUST COLLAR		EA	8	
670-5620	WATER SERVICE LINE, 3/4-INCH		LF	600	
670-5010	WATER SERVICE LINE, 1-INCH		LF	200	
670-5640	WATER SERVICE LINE, 1 1/2-INCH		LF	200	
670-5020	WATER SERVICE LINE, 2-INCH		LF	200	
670-9730	REPLACE EXISTING WATER METER & BOX		EA	75	
670-9740	REMOVE WATER MAIN (PROPERLY DISPOSE OF ASBESTOS CEMENT PIPES)		LF	100	
670-9741	REMOVE EXISTING BACKFLOW PREVENTER, METER, AND VAULT		EA	5	
670-9742	BACKFLOW PREVENTION DEVICE		EA	5	
670-9920	REMOVE EXISTING FIRE HYDRANT		EA	8	
CSR	COORDINATED SITE RESTORATION		LS	1	\$150,000
SP-01	Subsurface Utility Engineering Test Holes Owner directed SUE between Sta 33+00 to Sta 46+00		EA	20	
WATER MAIN REPLACEMENT TOTAL					

SPECIAL PROVISION

Section SP-01 - SUBSURFACE UTILITY ENGINEERING (SUE)

SP-01.1 General Description

The CONTRACTOR shall engage a SUE CONSULTANT to perform the work under this Pay Item to Quality Level “A,” Utility Locating. The SUE CONSULTANT shall employ qualified, competent, and experienced personnel to provide the services set forth herein. Such services shall be commensurate with both the prevalent methodologies used by SUE CONSULTANTS practicing within subject area of work and with the magnitude and intricacy of the work under consideration. The SUE CONSULTANT shall perform engineering services which will result in accurately identifying the quality of subsurface utility information needed for highway plans, and for acquiring and managing that level of information during the development of a highway project. These services should also conform to standards and guidelines as described in FHWA and ASCE Subsurface Utility Engineering publications. The final work shall be completed such that all utilities in the areas designated by the Engineer are graphically depicted in hard copy / plan sheet format. These services will be accomplished fully by the SUE CONSULTANT so that it will be unnecessary for the ENGINEER to supplement any of them with its own personnel, except as noted hereinafter. The ENGINEER may, however, review the work from time to time to verify accuracy and evaluate the performance of the firm. The following items are not intended to be comprehensive or exclusive; they are merely set forth as a general outline of the work that is expected.

SP-01.2 General Provisions for Overhead/Subsurface Utility Engineering (SUE)

For all work performed under this agreement, the SUE CONSULTANT shall -

1. Not begin work until the COUNTY or Prime Consultant has issued a written Notice to Proceed (NTP) (via e-mail, mail or facsimile).
2. As soon as the project contract has been authorized, coordinate a SUE Kick-Off meeting with the CONTRACTOR, the SUE CONSULTANT, the COUNTY DEPARTMENT OF WATERSHED MANAGEMENT, the ENGINEER, CITY CONSTRUCTION MANAGER (CM) AND INSPECTOR, THE COUNTY CM AND INSPECTOR to develop a detailed work plan, receive project information gathered by the COUNTY and/or CITY, and finalize the delivery schedule.
3. Obtain all necessary permits from city, county, municipality, railroad or other entity to allow the SUE CONSULTANT to work on existing streets, roads, and private property for the purpose of marking, measuring, and recording the location of existing underground utilities.
4. Coordinate with utility companies and the appropriate governmental jurisdictions in researching the location(s) of existing utilities. Secure all “as built” plans, plats, and other necessary data as supplied by the utility companies. While obtaining the

information from the utility companies or governmental jurisdictions; the SUE CONSULTANT shall ascertain the following information to include but not be limited to the age, the size, the material type, the general condition of the utility and the approximate cost to relocate.

5. Comply with any and all Utilities Protection Center (UPC) of Georgia and State Law requirements for notification prior to excavation.
6. Provide all traffic control to perform the work. All traffic control shall be performed in accordance with the current edition of the Manual on Uniform Traffic Control Devices (MUTCD) and any subsequent amendments thereto.

The SUE CONSULTANT shall notify the COUNTY CONSTRUCTION MANAGER (COUNTY CM) in writing a minimum of three (3) calendar days in advance of any traffic interruptions or lane closures prior to initiating any field surveys or test holes. If the work involves interstate traffic control, a written traffic control plan shall also be submitted a minimum of seven (7) calendar days in advance. At the discretion of the COUNTY CM, a written traffic control plan may be required for work other than interstate traffic control.

The SUE CONSULTANT shall be responsible for furnishing, installing, maintaining, and removing necessary traffic signs, barricades, lights, signals, cones, pavement markings and other traffic control devices and shall include flagging and other means for guidance and protection of vehicular and pedestrian traffic through the Work Zone.

Due to the amount of traffic on certain highways, the SUE CONSULTANT shall not perform work that impedes traffic between the hours of 6:00 a.m. and 9:00 a.m. and from 4:00 p.m. to 7:00 p.m. without the permission of the Area Engineer. In addition, the SUE CONSULTANT shall not work on weekends, national holidays, state holidays, or the days preceding said holidays without the permission of the COUNTY CM.

7. Provide all necessary equipment and support personnel, including surveying capability, to secure the utility data.
8. Perform all survey work which will be the responsibility of the SUE CONSULTANT and, unless otherwise indicated in this document, shall be performed to the accuracies and precision as described herein.
9. Provide all items specified \on the GDOT'S SUE Deliverables Checklist as provided by or as directed by the COUNTY CM.
10. Certify all completed services. Services shall be certified by an official of the SUE CONSULTANT firm on the plans or as directed by the COUNTYH CM. The SUE CONSULTANT shall be responsible for the accuracy of all information presented to the COUNTY.
11. Provide complete cleanup of work site with regards to any work performed by the SUE CONSULTANT, as directed by the COUNTY CM.
12. Close out permits as required.

13. Prior to Construction in these areas, transfer utility data onto Contractor's as-built red-line drawings, scan properly scaled drawings into a pdf format, and transmit via electronic mail to ENGINEER and COUNTY CM for review and establishment of a revised pipeline alignment. Utility information shall be clearly delineated as to its "Quality Level" via line codes/symbols and labeling as set forth in the GDOT's Electronic Utility File Guidelines and *Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data*, published by the ASCE, current edition.
14. THERE SHALL BE NO REQUIREMENTS TO SUPPLY DATA OR REPORTS IN A CADD FORMAT FOR THIS PROJECT. HOWEVER, THIS DOES NOT RELIEVE THE SUE CONSULTANT OF ITS ACCURACY REQUIREMENTS IN OTHER FORMS OF SUE DOCUMENTATION. WHERE REFERENCES IN THIS DOCUMENT OR REFERENCE DOCUMENTS APPEAR TO REQUIRE MORE RIGOROUS DELIVERABLES THAN THOSE DESCRIBED IN THE ABOVE ITEM, THE CONTRACTOR SHALL BRING THAT/THOSE REQUIREMENTS TO THE ENGINEER'S ATTENTION.

THE INTENT OF THIS PROJECT REQUIREMENT IS TO ACCURATELY DETERMINE AN ALTERNATE ALIGNMENT IN THE HIGHLY CONGESTED AREA BETWEEN THE AT&T FACILITY AND WOMACK ROAD AND TO RESTORE AREAS IMPACTED BY THE TEST HOLES TO PRE-CONSTRUCTION CONDITION.

ANY REQUIREMENTS DETAILED HEREIN WHICH GO BEYOND THAT INTENTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

The ENGINEER shall –

1. Provide a Survey Control Pack, when available, for the purposes of tying the horizontal and vertical position of the designated utilities to the State Plane Coordinate System and the project limits, including side roads.
2. Provide topographic mapping files, when available, in AutoCad DWG format.
3. Provide the location of the GDOT's current Electronic Utility File Guidelines for the SUE CONSULTANT'S use in preparing files in a format compatible with the COUNTY'S current CADD systems (AutoCad 2014) as the project requirements stipulate.
4. Provide the GDOT'S current SUE Deliverables Checklist with the appropriate items checked [as applicable].

SP-01.3 Quality Assurance Program

SP-01.3.1. Quality Reviews

The SUE CONSULTANT shall conduct quality reviews to make certain the organization is in compliance with the requirements cited in the Scope of Services. Quality Reviews shall be conducted to evaluate the adequacy of materials, documentation, processes, procedures, training, guidance, and staffing included in the execution of this contract. Quality Reviews shall

also be developed and performed to assure compliance with specific Quality Assurance provisions contained in this contract.

SP-01.3.2. Quality Records –

The SUE CONSULTANT shall maintain adequate records of the quality assurance actions performed by the organization, (including subcontractors and vendors), in providing services and products under this Contract. These records shall be available to the COUNTY upon request, during the contract term. All records are subject to audit review.

SP-01.4 Utility Records Research (Quality Level "D")

For the purpose of this agreement, utilities found via “records” or “records research” shall mean to indicate the presence and approximate horizontal location of existing utilities from information derived through existing records or oral recollections. This work shall also include an in-field visual site inspection to verify credibility of such records. Records research is typically applied when it is necessary for the designer to make broad decisions about route selection, purchasing right of way, or producing a higher level of data. This level of information is typically recommended to be requested during a project’s concept development. This work is considered Quality Level D.

For projects where Quality Level "D" information is deemed to be most appropriate, the following shall apply:

1. The SUE CONSULTANT shall conduct utility records research to assist in identifying utility owners that may have facilities on or be impacted by the project. Sources of information may include but are not limited to (project and scope dependent):
 - Utility section of the state DOT or other public agency
 - One-call notification center
 - Public Service Commission or similar organization
 - County Clerk’s office
 - Land owner
 - Internet or computer database search
 - Visual site inspection
 - Utility owners
2. The SUE CONSULTANT shall collect applicable utility owner records. Applicable records may include but are not limited to:
 - Previous construction plans in area
 - Conduit maps
 - Direct-buried cable records
 - Distribution maps
 - Transmission maps
 - Service record cards
 - “As-builts” and Record Drawings
 - Field notes
 - County, City, Utility owner or other GIS databases
 - Circuit diagrams

- Oral histories
3. The SUE CONSULTANT shall Review records for:
 - Indications of additional available records
 - Duplicate information and credibility of such duplicate information
 - Need for clarifications by utility owners
 4. The SUE CONSULTANT shall develop utility composite drawings or equivalent; make professional judgments regarding validity and location of topographic features on records versus current topographic features (when available) and conflicting references of utilities. The SUE CONSULTANT shall also indicate quality levels, utility type and/or ownership, date of depiction, accuracy of depicted appurtenances (Quality Level C versus Quality Level D), end points of any utility data, active/abandoned/out-of-service status, size, condition, number of jointly-buried cables, and encasement (including length of encasement if available).
 5. Quality Level "D" information shall be returned to the ENGINEER in a digital and reproducible certified plan sheet format (see 1.8 Data Management).

SP-01.5 Utility Mapping (Quality Level "C")

For the purpose of this agreement, “map” or “mapping” means to indicate the presence and approximate horizontal location of underground utilities by surveying visible above-ground utility features, such as manholes, valve boxes, posts, etc., and by using professional judgment, correlating this information with existing utility records (Quality Level D). This work is considered Quality Level C.

For projects where Quality Level "C" information is deemed to be most appropriate, the following shall apply:

1. The SUE CONSULTANT shall determine and provide the horizontal location of accessible surface features of utility facilities.
2. The SUE CONSULTANT shall show the approximate horizontal position of the utilities between the surface features.
3. The SUE CONSULTANT shall determine and provide vertical locations of the flow lines of all pipes within accessible structures.
4. Mapping of existing Quality Level "C" information shall be returned to the ENGINEER in a digital and reproducible certified plan sheet format (see 1.8 Data Management).

SP-01.6 Utility Designating (Quality Level “B”)

For the purpose of this agreement, “designate” means to indicate the presence and approximate horizontal location of underground utilities using geophysical prospecting techniques, including electromagnetic, magnetic, sonic, or other energy fields. The data obtained from these methods should be reproducible by surface geophysics at any point of their depiction. This work is considered quality level B.

The SUE CONSULTANT shall –

1. Designate, record, and mark the approximate horizontal location of existing underground utilities. All survey work required including the reestablishment and retracing of the survey centerline or baseline, will be the responsibility of the SUE CONSULTANT. Utility designating marks shall be surveyed to the same accuracies and precision as is required for the topographic data included in the project's database. Utility designations shall be returned to the ENGINEER in digital and reproducible certified plan sheet format (see 1.8 Data Management).

SP-01.7 Utility Locating (Quality Level "A")

The SUE CONSULTANT is required to locate utilities that have a high potential for conflicts with the proposed improvements. For the purpose of this agreement, "locate" means to obtain precise horizontal and vertical position of the utility line by excavating a test hole. The test holes shall be done using vacuum excavation or comparable nondestructive equipment in a manner as to cause no damage to the utility line. After excavating a test hole, the SUE CONSULTANT shall perform a field survey to determine the exact location and position of the utility line. This work is considered quality level A.

The SUE CONSULTANT shall –

1. Develop a test hole Location Plan based upon the guidelines set forth in the document: *Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data*, published by the ASCE, current edition, and obtain utility company records as required.
2. Neatly cut and remove existing pavement with the cut area not to exceed 144 square inches. Excavate using a method enabling vertical and horizontal exploration through this cut.
3. Excavate test holes in such a manner as to prevent any damage to wrappings, coatings, or other protective coverings, such as vacuum excavation or hand digging.
4. Be responsible for any damage to the utility during excavation as required by state laws.
5. Backfill with approved material around utility structure.
6. Furnish, install, and color code a permanent above ground marker (i.e. P.K. nail, peg, steel pin, or hub) directly above the centerline of the structure and record the elevation of the marker.
7. Provide a permanent restoration of the pavement within the limits of the original cut at the time of backfill, or as required by the ENGINEER. If the test hole is excavated in an area other than the roadway pavement, the area disturbed shall be restored to equal or better than the condition before excavation.
8. Return utility locations to the ENGINEER in digital and reproducible certified plan sheet format (see 1.8 Data Management). At a minimum, the SUE CONSULTANT shall provide the following test hole information to the ENGINEER:

- Elevation of top and/or bottom of utility tied to datum of the furnished plan, or as approved by the ENGINEER, depths from existing surface may be used.
- Elevation of existing grade over utility test hole, or as approved by the ENGINEER, depths referenced to existing surface may be used..
- Horizontal location referenced to project coordinate datum, as approved by the ENGINEER, measurements tied to two permanent structures in proximity to the test hole. The SUE CONSULTANT shall perform all required survey work.
- Outside diameter of pipe or width of duct banks and configuration of non-encased multi-conduit systems.
- Utility structure material compositions and condition.
- Identification of benchmarks used to determine elevations.
- Elevations/depths shall have an accuracy of +/- 0.1-ft and certified accurate to the benchmarks used to determine elevations.
- Horizontal data accurate to within +/- 0.5 ft.

9. Maintain the quality of the permanent pavement restoration for 1 year after installation.

SP-01.8 Other Facilities

SP-01.8.1. Aerial – NOT USED

1. Coordinate with utility companies and the appropriate governmental jurisdictions in researching the location(s) of existing aerial utilities. Secure all “as built” plans, plats, and other necessary data as supplied by the utility companies. While obtaining the information from the utility companies or governmental jurisdictions; the SUE CONSULTANT shall ascertain the following information to include but not be limited to the age, pole size, pole height, pole number, the material type, the general condition of the utility and the approximate cost to relocate.
2. The SUE CONSULTANT shall record the horizontal location of existing poles for aerial utility facilities. Horizontal surveying of existing poles for overhead utility facilities shall be surveyed to the same accuracies and precision as is required for the topographic data included in the project’s database.
3. The SUE CONSULTANT shall determine the aerial utility owners and correctly show the horizontal position of the utilities between the poles, including major service drops (substations or industrial facilities).
4. Aerial utilities along with pole locations and appurtenances shall be returned to the DEPARTMENT in digital and reproducible certified plan sheet format as indicated by the DEPARTMENT’S Liaison Engineer (see 1.8 Data Management).

SP-01.8.2. Flow Sanitary Sewer Mapping – NOT USED

For the purpose of this agreement, “Sanitary Sewer Mapping” means to indicate the presence and approximate horizontal and vertical location of underground utilities by surveying visible above-ground and accessible subsurface utility features, such as manholes, pipe inverts, etc. and by using professional judgment, correlating this information with existing

utility records. This work is considered Quality Level C.

1. The SUE CONSULTANT shall determine and provide the horizontal and vertical location of accessible surface features of gravity flow sanitary utility facilities.
2. The SUE CONSULTANT shall determine and provide vertical locations of the flow lines of all pipes within accessible structures. When possible, the SUE CONSULTANT shall determine the material of the pipes located in these structures. This data will be surveyed to the same accuracies and precision as is required for the topographic data included in the project's database.
3. The SUE CONSULTANT shall show the approximate horizontal position of the utilities between the surface features.
4. Mapping of existing gravity flow sanitary sewers shall be returned to the DEPARTMENT in digital and reproducible certified plan sheet format (see 1.8 Data Management).

SP-01.9 Data Management

~~Data management involves assembling and presenting information gathered in a format compatible with the COUNTY'S current CADD systems (AutoCad 2014) for use by the COUNTY'S staff or the COUNTY'S designated SUE CONSULTANT. This information will include but not be limited to designating, locating, aerial utilities, gravity flow sanitary utilities, or other facilities where horizontal location is determined.~~

~~AutoCad dwg files shall be developed in accordance with the COUNTY'S Electronic Utility File Guidelines (unless otherwise indicated by the COUNTY'S ENGINEER). Location of these guidelines can be obtained from the COUNTY'S ENGINEER.~~

The SUE CONSULTANT shall submit completed electronic files and reproducible certified plan sheets to the COUNTY ENGINEER for review and comments. The SUE CONSULTANT will make changes or adjustments to the data as necessary. Work for subsurface utility engineering will not be considered complete until the SUE CONSULTANT has responded to the comments from this review to the satisfaction of the COUNTY ENGINEER.

SP-01.10 Utility Impact Analysis (UIA), Design Analysis and Recommendations – NOT USED

When requested, after the SUE CONSULTANT has performed all necessary utility designating, locating, and data management services, the SUE CONSULTANT shall determine to what extent the proposed roadway improvements will impact the existing utilities. The SUE CONSULTANT shall prepare a report outlining avoidance alternates, required adjustments / relocations, and cost estimates to perform those relocations. In some instances, the SUE CONSULTANT may be required to prepare utility relocation design plans for inclusion in the COUNTY'S construction plans.

SP-01.11 Relocation Design – NOT USED

When requested, the SUE CONSULTANT shall prepare utility relocation design plans for inclusion in the COUNTY'S construction plans. The SUE CONSULTANT shall design the

required utility relocations / adjustments for water and/or sanitary sewer within the designated project limits. This work shall be coordinated with the roadway design, utility owners, and other SUE CONSULTANTS / owners who are designing the relocations / adjustments for other utilities. Design deliverables will typically be:

- Reproducible Plans
- CADD files with existing, proposed, and temporary utilities
- Summary of Quantity sheets showing water and sewer quantities
- Special Provisions and construction details
- Utility relocation cost estimates

SP-01.12 Training – NOT USED

The SUE CONSULTANT shall participate in and conduct portions of training sessions for COUNTY utility personnel. The sessions will be at a location provided by the COUNTY. The topics of the training session will typically be:

- SUE invoicing and billing
- SUE data management
- SUE best uses and practices
- SUE equipment demonstrations

When requested by the COUNTY, the SUE CONSULTANT shall conduct training on water and sanitary sewer construction inspection for DEPARTMENT construction personnel.

SP-01.13 Certification – NOT USED

For the purpose of this agreement, “Certification” or "certified" means to professionally seal the completed work product. All completed services shall be certified by a responsible registered professional in the State of Georgia, in the full employ of the SUE CONSULTANT firm on the plans or as directed by the COUNTY. The SUE CONSULTANT shall be responsible for the accuracy of all information presented to the COUNTY.

SP-01.14 Measurement

Measurement will be made for each pre-approved test hole, measured as 144 square inches each, fully executed and restored. Written pre-approval by Engineer is required.

SP-01.15 Payment

Payment shall be made at the Contract Unit Price bid per each test hole executed as per this section. Payment is full compensation for all materials, labor, equipment, reports, research, temporary traffic control, permits, water, disposal of debris or unsuitable materials or liquids, cleanup, full restoration, and all other work incidental to the execution of the work.

END OF SECTION

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**DEPARTMENT OF WATERSHED MANAGEMENT
DEKALB COUNTY, GEORGIA**

Chamblee Dunwoody Road Water Main Replacement Project

SUPPLEMENTAL CONDITIONS

SC-1 PRE-CONSTRUCTION VIDEO AND PHOTOGRAPHS: Within ten (10) days after the issuance of the Notice to Proceed and before any Work, including Erosion and Sedimentation Control best management practices (BMPs) have been delivered or installed in the Project Area, the Contractor shall, after giving 72 hours notice of its intent to proceed, shall document pre-construction conditions along the right-of-way and of private property adjacent to the right-of-way which could be impacted by construction activities with time stamped digital high definition video recordings which have relevant audible commentary and still photos.

SC-2 – RESTORATION OF AREAS IMPACTED BY ROADWAY IMPROVEMENTS

Upon authorization by the Construction Manager, non-roadway areas impacted by the Water Main Replacement portions of the Work which will be modified by the Roadway Improvements portions of the Work shall be provided temporary restoration in compliance with all erosion and sedimentation, Americans with Disabilities Act, and other applicable regulations and requirements, including the continuation of the existing use. Examples of potential temporary restoration includes: temporary grassing may be used in areas that, except for the closely following Roadway Improvements project, would be required to restore with permanent grassing; driveway cuts may be restored with GAB compacted per trench backfill requirements in anticipation of being replaced by the Roadway Improvements project, etc. Temporary restoration shall be included in the Contract Unit Price Bid for the construction activity which created the need for restoration.

SC-3 - MODIFICATIONS TO GDOT STANDARD SPECIFICATIONS: CONSTRUCTION OF TRANSPORTATION SYSTEMS, 2013 EDITION.

1. SECTION 101 – DEFINITIONS AND TERMS

AFTER SUBPARAGRAPH 101.82 – RELATED REFERENCES

ADD SUBPARAGRAPH 101.83 – COORDINATED SITE RESTORATION

Under this heading, add the following: “The Coordinated Site Restoration Pay Item shall have the same general meaning and use as defined in Subparagraph 101.27 – Extra Work, and is intended to be a line item maximum sum that, at the Owner’s sole discretion, may be required to draw upon to fund execution of Project Site and/or System Restoration, as the Owner may determine to be necessary to complete the intended purpose of the Project. Procedures governing the use of the Coordinated Site Restoration pay item shall generally be as per **SECTION 109.05 – MEASUREMENT AND PAYMENT – EXTRA WORK**. The costs for the Coordinated Site Restoration shall be developed in general agreement with **SECTION 109.05, Subparagraph B**. After approval by the Owner of the approach, schedule, and costs submitted by the Contractor to perform the Coordinated Site Restoration Work, a Directive may be issued to the Contractor to execute the Work as described at the approved cost.

Where Bid Form Unit Prices exist for Items required by the Coordinated Site Restoration Work, the requirements of the Standard Specifications, as they may be amended by the Supplemental Conditions, shall be fully enforced. The Contractor shall not be permitted to perform any work or draw from this Pay Item without specific written authorization from both the County and the Engineer.

ADD SUBPARAGRAPH 101.84 – SUBSURFACE UTILITY ENGINEERING (SUE)

“Subsurface Utility Engineering (SUE) as defined by the Special Provision SP-01 – Subsurface Utility Engineering (SUE) document.

ADD SUBPARAGRAPH 101.85 – SUPPLEMENTAL CONDITIONS

Project specific revisions to the Standard Specifications and other Standards as they apply uniquely to this project.

2. SECTION 105 – CONTROL OF WORK

PARAGRAPH 105.04 COORDINATION OF PLANS, SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS

Delete the second (2nd) and third (3rd) paragraphs of this section. Replace the deleted text with:

“In cases of discrepancy, the governing descending order will be as follows:

1. Project Plans including Special Plan Details
2. The DeKalb County Department of Watershed Management Potable Water Main, Gravity Sanitary Sewer, and Sanitary and Force Main Design Standards, 2009, Version 1.0
3. The Instruction to Bidders
4. Supplemental Conditions
5. Special Provisions
6. Supplemental Specifications
7. Standard Plans including Standard Construction Details
8. Standard Specifications

If the Engineer determines the stated governing descending order is silent, vague, ambiguous, or adversely impacts the design and/or use intent of the Project on an issue, the Engineer shall make the final determination regarding the issue in question.

Measurement and Payment for Pay Items will be per the applicable Measurement and Payment Section for each item number, as amended by Special Provisions and Supplemental Conditions.

Calculated dimensions will govern over scaled dimensions.”

3. SECTION 163 – MISCELLANEOUS EROSION CONTROL ITEMS

PARAGRAPH 163.1 – GENERAL DESCRIPTION

SUBPARAGRAPH 163.1.01 RELATED REFERENCES

SUBPARAGRAPH A. STANDARD SPECIFICATIONS

To the list of Standard Specifications, add, in numerical order the following:

Section 165 – Maintenance of Temporary Erosion and Sedimentation Control Devices

Section 167 – Water Quality Monitoring

Section 171 – Silt Fence

PARAGRAPH 163.4 MEASUREMENT

Delete subparagraphs A through N in their entirety.

Insert the following: “Measurement for all Erosion and Sediment Control, Maintenance, and Water Quality Sampling and Monitoring shall be one lump sum.”

PARAGRAPH 163.5 PAYMENT

Delete all subparagraphs from A. to the end of this subparagraph. Insert the following:

“Miscellaneous Erosion Control Items are paid at the Bid Form Lump Sum price in accordance with the draw schedule listed below, which payment constitutes full compensation for all Work described in the Erosion and Sedimentation Prevention Control drawings for the Water Main Replacement portion of the Work, and includes, but is not necessarily all labor, materials, equipment, sampling, permit fees, maintenance, re-placement, inspections, water quality monitoring, laboratory analysis, restoration, removal, temporary and permanent grassing, and all other items and work to fully execute the requirements of the Work. Other incidental work and costs that may be associated with Project Erosion and Sediment Control will not be paid for separately and are included in this Pay Item. **This section replaces the Payment Section of all other Erosion Control related sections.**

Draw Schedule:

Progress payments that total the Lump Sum prices shall be paid in equal draws with the following exceptions: the first and last draws. To calculate the amount of the draws, divide the

number of days in the Contract Times by 30 to estimate the number of Applications for Payment. Divide the Lump Sum amount by the number of Payments. Multiply the result by 2. This product will be the value of the first and last draw. Add the first and last draw amount and subtract it from the Lump Sum prices. Divide this number by the number of Payments remaining. The result is the amount of regular progress draws.

Example: A \$50,000 E&S Lump Sum price with 412 days in the Contract Times.

$412 \text{ days} / 30 \text{ days per Payment} = 13.73$, round up to 14 payments

$\$50,000 / 14 \text{ payments} = \$3,571.43$

$\$3,571.43 * 2 = \$7,142.86$ the amount of Payment 1 and Payment 14

$\$50,000 - (2 * \$7,142.86) = \$35,714.28$ is the total amount to be paid for Payments 2 to 13

$\$35,714.28 / 12 = \$2,976.19$

3. SECTION 205 – ROADWAY EXCAVATION

PARAGRAPH 205.4 MEASUREMENT

Before the first word of the first sub-paragraph, add “Roadway excavation is not anticipated under this Contract (Water Main Replacement). Therefore, this Section is not used unless a special situation, as defined by the Engineer, calls for its use. Measurement and payment will be as determined in the special situation as described by the Engineer.”

4. SECTION 207 –EXCAVATION AND BACKFILL

PARAGRAPH 207.4, MEASUREMENT

B. Extra Depth Excavation

Under “The following extra depth excavations are not measured for payment,” add after sub-paragraphs “No. 1” and “No. 2,” “No. 3 Extra depth excavation for pipe bedding materials.”

Delete **C. Backfill Materials Types I, II, and III** Sub-paragraphs “No. 1” and “No. 2” in their entirety and add “These Items are not measured separately, but are included in and are incidental to the installation of Water Mains, Fittings, Joints, and/or Valves, by type and sizes specified.”

PARAGRAPH 207.5 PAYMENT

Delete the sub-paragraphs of “**C. Backfill Materials**” and “**D. Normal Backfill**” in their entirety and insert, under the headings of each, “These items will not be paid for directly but will be included in the payment at the Contract Unit Price for Water Mains, Fittings, Joints, and/or Valves, by type and sizes specified.”

5. SECTION 208 – EMBANKMENTS

PARAGRAPH 208.4 MEASUREMENT

Add before the first word of the first sub-paragraph, “Embankments are not anticipated under this Contract (Water Main Replacement). Therefore, this Section is not used unless a special situation, as defined by the Engineer, calls for its use. Measurement and payment will be as determined in the special situation as described by the Engineer.”

6. SECTION 210 – GRADING COMPLETE

PARAGRAPH 210.4 – MEASUREMENT

Delete sub-paragraphs “**A. Grading Complete**”, “**B. Grading per Mile (Kilometer)**”, and “**C. Undercut Excavation**” in their entirety. Insert under “**MEASUREMENT**” the following: “Grading Complete, Grading per Mile (Kilometer), and Undercut Excavation are not measured separately, but are included in and are incidental to the installation of Water Mains, Fittings, Joints, and/or Valves, by type and sizes specified.”

PARAGRAPH 210.5 - PAYMENT

Delete sub-paragraphs “**A. Grading Complete**”, “**B. Grading per Mile (Kilometer)**”, and “**C. Undercut Excavation**” in their entirety. Insert under “**PAYMENT**” the following: “Grading Complete, Grading per Mile (Kilometer), and Undercut Excavation are not paid directly but are included in and are incidental to the Unit Price for the installation of Water Mains, Fittings, Joints, and/or Valves, by type and sizes specified.”

7. SECTION 310 – GRADED AGGREGATE CONSTRUCTION

PARAGRAPH 310.4 – MEASUREMENT

SUBPARAGRAPH A. – GRADED AGGREGATE

Insert the following before the first line after the heading: “Graded Aggregate is not measured separately when Graded Aggregate is used as backfill but is included in and is incidental to the installation of Water Mains, Fittings, Joints, and/or Valves, by type and sizes specified.”

PARAGRAPH 310.5 – PAYMENT

SUBPARAGRAPH A. – GRADED AGGREGATE

Delete the text of the subparagraph and table following the heading. Insert the following the heading: “Graded Aggregate is not paid directly but is included in and is incidental to is not measured separately when Graded Aggregate is used as backfill, but is included in and is incidental to the Unit Price for the installation of Water Mains, Fittings, Joints, and/or Valves, by type and sizes specified.”

SC-4- MODIFICATIONS TO GDOT SPECIAL PROVISIONS SECTION 150 – TRAFFIC CONTROL

1. SECTION 150 – TRAFFIC CONTROL

PARAGRAPH 150.4 – SUBMITTALS, SUBPARAGRAPH C. – TRAFFIC INTERRUPTON REPORTS

Delete all references to GDOT required contacts. All reports and submittals shall be submitted to the City or County designated individual, as established during the pre-construction meeting or as otherwise revised by City or County.

SC-5 – 150-1000 TRAFFIC CONTROL LUMP SUM PAY ITEM

The Traffic Control Pay item shall be a single Lump Sum to address all Traffic Control in the Water Main Portion of the Project. There are distinct areas which will require different forms of traffic control. The descriptions below are for example only, but provide realistic estimates of the various traffic control and construction conditions/requirements. Area 1 traffic control scenarios could be found elsewhere in the project area. There may be additional conditions not described here which will be encountered. The Contractor shall not receive additional compensation for work or traffic control which entails

Area 1: In general, the areas from the beginning of the project to the beginning of the commercial area is residential. No nighttime construction will be allowed. It is anticipated that traffic control could require closure down to a single lane of active traffic. Accommodations for this should be considered in the Bid.

Area 2: In general, this area covers the commercial area. It is anticipated that night time construction will be required in this area. This area extends from the end of Area 1 to Nandina Road.

Area 3: This area is generally described as the area south of Mount Vernon to just south of Womack Road. SUE operations will be required here. Traffic Control for SUE test holes is included in the unit price for SUE Test holes. The roadway varies in width, and the underground utility corridors are congested. It is anticipated the alignment will be adjusted to the west once the SUE report has been provided and reviewed. Lane closures to two lanes will be necessary.

Area 4: Area 4 extends from Area 3 to the end of the project. This area is generally in the areas where some road widening and/or milling and resurfacing will occur. Traffic control in this area will need to be coordinated with any roadway and drainage work that may occur in advance of the Water Main replacement work.

SC-6 – MODIFICATIONS TO SPECIAL PROVISIONS SECTION 670 – WATER DISTRIBUTION SYSTEM

1. Section 670.5 Payment, Paragraph LL. Flowable Fill.

In the first sentence, delete the section marked below:

“Flowable fill shall be paid for at the unit price per cubic yard of flowable fill complete in place ~~as indicated in Section 600~~ and shall cover the cost for all materials, transportation, labor, equipment, excavation, sheeting and shoring...”

BID BOND

KNOW ALL MEN BY THESE PRESENTS, THAT

Name _____ of _____ Contractor:

Address _____ of _____ Contractor:

(Corporation, Partnership and or Individual) hereinafter called Principal, and

(Name of Surety)

(Address of Surety)

A corporation of the State of _____, and a surety authorized by law to do business in the State of Georgia, hereinafter called Surety, are held and firmly bound unto:

City of Dunwoody Georgia
(Name of Obligee)
41 Perimeter Center East, Suite 250
Dunwoody, Georgia 30346
(Address of Obligee)

herein after referred to as Obligee, in the penal sum of _____ Dollars (\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

WHEREAS, the Principal is about to submit, or has submitted, to the City of Dunwoody, Georgia, a proposal for furnishing materials, labor and equipment for:

Chamblee Dunwoody Road Water Main Replacement and Road Improvements

WHEREAS, the Principal desires to file this Bond in accordance with law in lieu of a certified Bidder's check otherwise required to accompany this Proposal.

NOW, THEREFORE, the conditions of this obligation are such that if the bid is accepted, the Principal shall within 10 days after receipt of notification of the acceptance execute a Contract in accordance with the Bid and upon the terms, conditions, and prices set forth in the form and manner required by the City of Dunwoody, Georgia, and execute a sufficient and satisfactory Performance Bond and Payment Bond payable to the City of Dunwoody, Georgia, each in an amount of 100 percent of the total Contract Price, in form and with security satisfactory to said the City of Dunwoody, Georgia, and otherwise, to be and remain in full force and virtue in law; and The Surety shall, upon failure of the Principal to comply with any or all of the foregoing

requirements within the time specified above, immediately pay to the City of Dunwoody, Georgia, upon demand, the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.

PROVIDED FURTHER, that Principal and Surety agree and represent that this bond is executed pursuant, to and in accordance with the applicable provisions of the Official Code of Georgia Annotated, as Amended, including, but not limited to, O.C.G.A. SS 13-10-1, et. Seg. and SS 36-86-101, et. Seg., and is intended to be and shall be constructed as a bond in compliance with the requirements thereof.

Signed, sealed, and dated this _____ day of _____, 2015.

ATTEST:

(Principal Secretary)

(Principal)

(Seal)

BY: _____

(Witness to Principal)

(Address)

(Address)

(Surety)

ATTEST:

(Attorney-in-Fact) and Resident Agent

(Attorney-in-Fact)

(Seal)

(Address)

(Witness as to Surety)

(Address)