



Fulton County, GA

Department of Purchasing & Contract Compliance

March 5, 2015

Re: #14RFP95820K-JD – Design/Build Services for Fairburn Road from Village Drive to North Utoy Creek Road, Bridge, and Sidewalk Improvements Project

Dear Proposers:

Attached is one (1) copy of Addendum 5, hereby made a part of the above-referenced **#14RFP95820K-JD – Design/Build Services for Fairburn Road from Village Drive to North Utoy Creek Road, Bridge, and Sidewalk Improvements Project**.

Except as provided herein, all terms and conditions in the **#14RFP95820K-JD – Design/Build Services for Fairburn Road from Village Drive to North Utoy Creek Road, Bridge, and Sidewalk Improvements Project** referenced above remain unchanged and in full force and effect.

Sincerely,

Joyce Daniel

Joyce Daniel, CPPB
Assistant Purchasing Agent

Winner 2000 - 2009 Achievement of Excellence in
Procurement Award • National Purchasing Institute



#14RFP95820K-JD – Design/Build Services for Fairburn Road from Village Drive to North Utoy Creek Road, Bridge, and Sidewalk Improvements Project Addendum No. 5

This Addendum forms a part of the contract documents and **modifies** the original RFP documents as noted below:

RFP due date is changed to Monday, March 23, 2015, 11:00 A.M.

I. Revisions to Volume I

1. Section 1, Introduction, 1.1 Project Description is revised to read as follows:

1.1 PROJECT DESCRIPTION

This procurement is the second step of a two-step process. The initial step was formally and publicly advertised as a State of Qualifications. Firms that submitted qualifications and that received an evaluation score of seventy-five (75) points or above by the Fulton County evaluation committee are invited through this Request for Proposal (RFP) to submit technical and cost proposals.

Fulton County, Georgia (“County”) is seeking qualified firms to provide Design-Build Services (“D/B Services”) for the design and construction and right of way services (where needed) of sidewalks, curbs and gutters at locations along Fairburn Road; along with an intersection improvement at Utoy Springs, and two (2) bridge replacements at South Utoy Creek and North Utoy Creek or consideration of two (2) off-road Pedestrian Bridges, which will not require changing the existing bridge structures as alternates.

This project will require all engineering, construction, quality control, etc., and shall be prepared to provide expertise, resources and personnel experienced in the various phases of planning, design and engineering. Under the Contract, the Proposer(s) shall furnish all design, labor, materials and equipment needed to perform the work.

Proposals provided in response to this RFP that comply with the submittal requirements set forth in Section 10.0, Exhibit 1, Required Submittal Checklist, including all forms and certifications, will be evaluated in accordance with the criteria and procedures described in Section 4.0. Based on the results of the evaluation, the County will award the Design/Build Services for the Fairburn Road from Village Drive to North Utoy Creek Road, Bridge, and Sidewalk Improvements to the most advantageous Proposer(s) based on the cost and the evaluation factors set forth in the RFP.

2. Section 2, Instructions to Proposers, 2.2 Contract Definitions – *the term NOI – Notice of Intent* is to be added to the definitions.

#14RFP95820K-JD – Design/Build Services for Fairburn Road from Village Drive to North Utoy Creek Road, Bridge, and Sidewalk Improvements Project Addendum No. 5

3. Section 3, Proposal Requirements, 3.4 Project Scope is revised. **The current Scope of work is to be deleted and replaced with the revision as attached.** See **Attachment A**

4. Section 3, Proposal Requirements, 3.8 Cost Proposal Format and Content is revised to read as follows:

*The Cost Proposal shall be provided in a **separate sealed envelope**. The Cost Proposal shall include current information and shall be arranged and include content as described below:*

Section 1 - Introduction

The Proposer shall include an introduction which outlines the contents of the Cost Proposal.

Section 2 - Completed Cost Proposal Forms

The Proposer is to complete each category of the Cost Proposal form and submit their Total Amount Base Proposal pricing. The cost will be evaluated on the Total Amount Base Proposal that includes the Owner Controlled contingency. The Alternate No. 1, Alternate No. 2 and Alternate No. 3 Cost Proposal Forms must be submitted with the proposal package. See Attachment B.

The successful Proposer will be selected on the basis of Proposal Evaluation Criteria and their Total Amount Base Proposal Cost Proposal submittal as required in the solicitation document.

5. The **Cost Proposal Form** has been revised for submittal on this RFP for proposer submittal. See **Attachment B**.
6. **SECTION 8 - Proposal Bond** has been added for submittal on this RFP for proposer submittal. See **Attachment C**.
7. **SECTION 9 – Bonding Requirements** – has been revised. See **Attachment D**.

#14RFP95820K-JD – Design/Build Services for Fairburn Road from Village Drive to North Utoy Creek Road, Bridge, and Sidewalk Improvements Project Addendum No. 5

II. Revisions to Volume II

1. GENERAL CONDITIONS, Page II-19, 00700-56 Inclement Weather, the paragraph is to read as follows:

00700-53 INCLEMENT WEATHER

The Contractor shall not be entitled to an extension of the contract time due to normal inclement weather unless prior approval by the County is given. Unless the Contractor can substantiate to the satisfaction of the Construction Manager that there was greater than normal inclement weather and that such greater than normal inclement weather actually delayed the work, the Contractor shall not be entitled to an extension of time therefore. The following shall be considered the normal inclement weather days for each month listed, and extensions of time shall be granted in increments of not less than one half day only for inclement weather in excess of the days set out.

2. GENERAL CONDITIONS, Page II-29, 00700-91 Coordination with State Department of Transportation, ***is to be deleted.***
3. SPECIAL CONDITIONS, Pages II-33 to II-96, Department of Transportation State of Georgia Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246) (43 FR 14895), ***this section is to be deleted.***

#14RFP95820K-JD – Design/Build Services for Fairburn Road from Village Drive to North Utoy Creek Road, Bridge, and Sidewalk Improvements Project Addendum No. 5

ACKNOWLEDGEMENT OF ADDENDUM NO. 5

The undersigned proposer acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Department of Purchasing & Contract Compliance, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30303 by the RFP due date and time **Monday, March 23, 2015, 11:00 A.M.**

This is to acknowledge receipt of Addendum No. 5, _____ day of _____, 2015.

Legal Name of Bidder

Signature of Authorized Representative

Title

ATTACHMENT A

**SECTION 3, PROPOSAL REQUIREMENTS, 3.4 PROJECT SCOPE
(REVISED)**

3.4 PROJECT SCOPE

The Scope of the project is to provide design, permitting, utility relocation and/or utility coordination, construction and any other related services necessary to build the Project, which is identified as Phases One and Two.

The Project includes the construction of 4" thick sidewalks, 8" thick sidewalks for wheelchair ramps, 6" x 30" type 2 curb and gutter, roadway drainage, crosswalks, pavement markings, and pavement resurfacing. Existing sidewalk shall be conserved. Each Project Phase, as identified below, has the general scope items for each.

3.4.1 Design and construct the Project in general conformance in accordance with 95% complete plans.

A. T-245 - Phase One

Project T-245 Phase One is on Fairburn Road from Village Drive to approximately 550 feet north of Cascade Road including intersection improvements to Utoy Springs Road. This design has been substantially completed. Ninety-five percent (95%) of the design is complete, showing curb and gutter, paver, and sidewalk placement. Along with preliminary utility relocation, drainage design (including profiles), intersection improvements, signing and marking, signal design, cross sections, vertical profiles, preliminary detour plans, and erosion control plans. Any changes to these plans will require approval from Fulton County. Additional items needed include:

- a. Complete all utility coordination, including necessary utility relocations, and finalize utility plans.
- b. Obtain the approval of the Engineer prior to making any revisions such as to location, width and/or number of driveways to be constructed.
- c. Design shall meet ADA requirements.
- d. Complete NPDES plan set, submit and obtain approval by Georgia EPD for NOI.
- e. Complete Detour Plan and based on the preliminary detour routing included in the preliminary plan set.
- f. Design and construct a drainage system which meets the requirement of the NPDES - MS4 permit and Fulton County drainage design criteria.

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- g. Ensure use of pre-formed material with contrast for all pavement markings on all concrete surfaces.
 - h. Construction should be in accordance with GDOT Standard Specification.
 - i. Design should meet AASHTO Design Guidelines.

B. T-259 - Phase Two

Phase Two will continue sidewalk connections on the eastside of Fairburn Road beginning at Cascade Road to North Utoy Creek. This design has thirty percent (30%) complete plans. This phase requires connectivity from Phase One to the existing sidewalks that extends to the north of North Utoy Creek. This phase shall, also, require improvements to the crossings at North Utoy and South Utoy Creeks for pedestrian traffic. Any additional right-of-way or easements needed for construction shall be acquired by Contractor, as identified in Section 3.3.2 – General Description. Additional items needed include:

- a. Sidewalk with widths from 6' to 10' wide, 4" thick concrete path and 8" thick concrete ramps on the west side of Fairburn Road.
- b. 6' wide 4" thick concrete sidewalk and 8" thick concrete ramps on east side of Fairburn Road.
- c. Type 2, 6" x 24" curb and gutter.
- d. 2' grass strip between curb and gutter and sidewalk.
- e. Replace existing bridges to provide two (2) 12' lanes with bottomless culverts as an alternate for consideration.
- f. Provide pedestrian crossing of 6' wide on each side of culverts.
- g. Bridge shall have rail 3.5' high.
- h. Retain, store, sandblast, and replace original bridge plaque.
- i. Complete bridge flood/hydraulic studies and get approval and necessary permits by FEMA and other necessary agencies.
 - 1. Bottomless culvert needs to meet 10-year storm that will not flood the roadway. Along with 100-year storm that will provide a no-rise both upstream and downstream.
 - 2. Roadway drainage spillway structures will be spaced based on a 10-year storm. Spread width should be no greater than ½ travel lane width.
- j. Provide rip rap for abutment and wing wall protection and drainage outfalls.

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- k. Guardrail will be added where warranted. Guardrail placements is required but not limited to protection of culvert wing walls from both approaches and between each culvert.
 - l. Adjust project limits (if necessary) based on possible changes to profile based on results from hydraulic study, culvert design, rip rap design, and guardrail placement.
 - m. Complete all utility coordination, including necessary utility relocations, and finalize utility plans.
 - n. Obtain the approval of the Engineer prior to making any revisions such as to location, width and/or number of driveways to be constructed.
 - o. Design shall meet ADA requirements.
 - p. Complete NPDES plan set, submit and obtain approval by Georgia EPD.
 - q. Design and construct a drainage system which meets the requirement of the NPDES - MS4 permit and Fulton County drainage design criteria.
 - r. Ensure use of pre-formed material with contrast for all pavement markings on bridges and all other concrete surfaces.
 - s. Construction should be in accordance with GDOT Standard Specification.
 - t. Design should meet AASHTO Design Guidelines.
 - u. Retain and rest signs.
 - v. Replace stripping where disturbed.
 - w. Replace crosswalk where disturbed.
 - x. Resurfacing as an add alternate from curb-to-curb.

3.4.2 All wheelchair ramps shall include new crosswalk striping on existing pavement as shown on 30% complete plans.

3.4.3 All upgraded wheelchair ramps and pedestrian signals shall be compliant with current GDOT's standards and details.

3.4.4 The typical sections as found in the plans shall be considered minimum unless otherwise noted.

3.4.5 Coordinate with the County to conduct a public meeting to discuss the proposed project with the community. Provide two (2) roll plots (36"x48" minimum) for each meeting that displays the proposed project.

3.4.6 Roadway

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- A. All lane widths shown in the plans shall be considered minimum.
 - B. All borrow and waste sites for the Project shall be environmentally approved prior to construction activities. All common fill or excess material disposed outside the Project Right-of-Way shall be placed in either a permitted solid waste facility, a permitted inert waste landfill, or in an engineered fill.
 - C. Speed design is 35 mph.
 - D. Ensure existing pavement inside the construction limits no longer being used is obliterated, graded to drain and grassed.
 - E. Provide Portable Changeable Message Signs as necessary for temporary traffic control in accordance with MUTCD. Submit a traffic control plan for approval.
 - F. Conduct geotechnical investigations including but not limited to soil surveys, Bridge Foundation Investigations (BFI), and Wall Foundation Investigations (WFI).
 - G. See 30% plans for pavement widening requirements.
 - H. An add alternate for overlay section(s) resurfacing is required. Overlay requirements shall be 1.5" of 12.5 recycled asphalt concrete superpave. Where overlay is added adjacent to pavement widening. The overlay section (s) shall consist of 18" pavement reinforcement fabric as required.

3.4.7 Drainage

- A. Design and construct all storm drainage systems required for the Project.
- B. Ensure all installed RCP storm drain pipe is a minimum of 18 inches in diameter.
- C. Verify the condition of any existing drainage system is adequate for those existing systems to be retained within the Project limits, and where the Contractor proposes to connect a new drainage system.
- D. Repair all damaged drainage structures within the project limits.
- E. Clean out and remove debris from all drainage structures within the Project limits and maintain all drainage structures throughout the duration of construction.
- F. All drainage structures located within radius returns shall be

constructed or converted to GDOT's standard 1019.

3.4.8 Structures

- A. Design and construct all bridges and walls in accordance with AASHTO LRFD Bridge:
 - 1. Design Specifications.
- B. There is no suitable place to bury the existing bridge debris within the Project's limits. Contractor shall haul the debris off site to an acceptable landfill.

3.4.9 Driveways

- A. Obtain the approval of the Engineer prior to making any revisions such as to location, width and/or number of driveways to be constructed.
- B. Request for Design Variances on all driveways with sidewalk crossings that do not meet ADA requirements.
- C. Any reconstructed driveways shall be paved as follows:

Material	Spread Rate
Residential Asphaltic Concrete Driveways	
12.5mm Superpave Mix Design Level C	65 lb./sy.
6" Graded Aggregate Base	N/A
Commercial Asphaltic Concrete Driveways	
12.5mm Superpave Mix Design Level C	165 lb./sy.
19mm Superpave Mix Design Level C	220 lb./sy.
6" Graded Aggregate Base	N/A
Residential Concrete Driveways	
4" Portland Cement for Driveway	N/A
6" Concrete for Valley Gutter	N/A
Commercial Concrete Driveways	
8" Portland Cement for Driveway	N/A
8" Concrete for Valley Gutter	N/A

3.4.10 Signing and Marking

- A. Ensure use of pre-formed material with contrast on all concrete

surfaces.

- B. All signing and marking impacted by the project shall be replaced with new signing and marking that meets current MUTCD and GDOT's Signing and Marking Guidelines.
- C. Ensure all school area, pedestrian, and bicycling signing and marking within project area meets current MUTCD and GDOT's Signing and Marking Guidelines and replace or install as needed.
- D. The removal of existing pavement markings shall be in accordance with MUTCD and GDOT's Signing and Marking Guidelines.

3.4.11 Right of Way

Contractor will be required to establish the limits of Right-of-Way Acquisitions in the field by staking. All staking is to be completed prior to the acquisition of any real property interest to identify any improvements located within the acquisition area and to ensure no encroachments will occur as a result of project construction.

Any land or easement required to construct the Project shall be in the name of Fulton County. Land or easements acquired outside those areas needed for actual construction of the Project (e.g. construction office space, material storage, etc...) will be the responsibility of the Contractor. Fulton County will not pay for land or easements outside the construction footprint of the Project. Land or easements as needed for the relocation of Utilities with prior rights are considered within the construction footprint of the Project.

3.4.12 Environmental

Ensure adherence to and provide all material, labor, equipment, and other incidentals required to adhere to the "Commitments/Requirements" applying to the Contractor, design or construction of the Project. Key words such as "construction," "contractor," "work," etc., point to the areas for which the Contractor is responsible.

1. To proceed to Construction, all environmental documentation must be complete and address the affected environmental resources.
2. Once it has been determined the required environmental

documentation is accurate and all permits, variances, and the purchase of mitigation credits) have been completed, Fulton County will issue an Environmental Certification, which will be provided to the Contractor. **No land disturbing activities shall take place until this certification or conditional certification is issued.**

3. The Contractor shall provide the County with the proposed impacts to streams and wetlands, open waters, and any associated state-protected vegetative buffers, which include impacts resulting from utility relocations, and temporary and/or permanent impacts, resulting from construction of the Project.
4. If the proposed design impacts waters of the US then an application for the Section 404 Nationwide (NWP) or Regional (RP) Permit application to the US Army Corps of Engineers will be completed by the Contractor. The Section 404 NWP or RP will cover the entire project area. Prepare the Section 404 NWP or RP application to the Department's satisfaction. Allow two (2) thirty (30) day County review periods for the Section 404 NWP or RP. Fulton County will transmit the Section 404 NWP or RP to the US Army Corps of Engineers. The Contractor will satisfactorily address any US Army Corps of Engineer's comments within fourteen (14) calendar days of receipt.
5. It is anticipated that approximately 90 days will be required from the time Fulton County transmits an acceptable Section 404 NWP or RP application to receipt of agency approval. If any additional impacts result from the Contractor's proposed design versus those in the most recent ecology addendum, then Fulton County will perform special studies which will require ninety (90) additional days prior to the County's submittal of permit documentation to the appropriate agency and will require the County to complete a reevaluation. Once the County receives an approved Section 404 NWP or RP from the US Army Corps of Engineers, the County will issue written notification to the Contractor that the Contractor shall then acquire all mitigation credits in the name of Fulton County as required under the approved permit. All mitigation credits obtained by the Contractor and applied to the Project shall be approved by the US Army Corps of Engineers. Upon satisfactory receipt of the Contractor's credit purchase, Fulton County will provide written authorization to work in jurisdictional Waters of the US in accordance with the

permit conditions.

6. Verify the need for any Georgia Buffer Variances on this Project. Ensure the necessary design and construction needed to avoid or mitigate for the buffer(s) impact. If a Buffer Variance is identified then the Contractor is responsible for notifying Fulton County no later than the time of the preliminary plans submittal to Fulton County. Prepare the Buffer Variance application to Fulton County's satisfaction. Fulton County will be listed as the applicant. Allow two (2) thirty (30)-day review periods for the Buffer Variance. Fulton County will transmit the Buffer Variance application to Georgia's Department of Natural Resources and Environmental Protection Division. Fulton County anticipates approximately one hundred fifty (150) days will be required from the time Fulton County transmits an acceptable Buffer Variance application to receipt of agency approval. The Contractor will satisfactorily address the Georgia Environmental Protection Division's comments within fourteen (14) calendar days of receipt. The Buffer Variance cannot be granted without the submission of the Section 404 NWP or RP application, if the application is under Criterion 2(H).
7. One Buffer Variance per NOI is required, if applicable. Buffer encroachments located within multiple Notice of Intent (NOI) areas will require multiple Buffer Variances
8. Erect orange barrier fencing within the Project area to establish and protect any Environmentally Sensitive Areas (ESA) within the Project to prevent any encroachment upon said area during construction activities. Within ESA buffers for which a variance was obtained, install orange barrier fence within the buffer at the limits of the construction for which the variance was obtained.

3.4.13 PLANS (999.2)

A. General:

The Bid Plans Package prepared on behalf of Fulton County includes multiple resources. Fulton County, in making this information available to Contractors, assumes no responsibility for its accuracy. No claim will be considered if the Contractor relies on this data in its bidding or in its construction operations and finds that it is inaccurate.

In addition, the Contractor shall be aware "existing conditions" found in the Bid Plans Package may have changed since the field survey work and associated design efforts were completed. Verify all existing conditions. No claims will be considered due to decisions/assumptions made by the Contractor based on "existing conditions" reflected in the Bid Plans Package.

3.4.14 DESIGNS (999.3)

A. General:

1. **Measuring Units:** Ensure the Project is designed in **English** units of measurement.
2. **Design Scope of Services:** Prepare Plans in accordance with Fulton County's instructions as to design criteria, procedures, and format as contained in this Special Provision and in accordance with, but not limited to the reference materials listed in Section 999.3.B.1.b.

Current GDOT Design Manuals and Guidelines may be found at:

3. <http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/Pages/default.aspx>. Ensure Project designers consider all elements of the design, including but not limited to roadway geometry, drainage requirements, traffic control during construction, erosion control, structural design, utility **conflicts, signing and marking, and future maintenance requirements.**
4. **Design Reviews:** Prepare the design under the direct supervision of licensed design professionals. A Professional Engineer, licensed to practice engineering in the State of Georgia, on the design team must seal the final plans. The seal on the drawing represents certification the design meets all applicable codes and is of good engineering practice and standards. Check and certify the design.

The County will establish dates and times for cursory reviews and will comment on design work, but will not require hold points on the design, review periods, or comment responses, except as noted otherwise. If at any time the County determines the design work is not in conformance with the State's standards, details,

specifications, or good engineering practice, the County reserves the right to stop work, at the Contractor's expense until a resolution of the issue(s) has occurred.

Submit construction documents (plans and specifications) shown in Table 4-1, Table 4-2 and Appendix 14 to the County for review and acceptance. Acceptance, disapprovals, or comments made by the County will be provided in writing to the Contractor within the appropriate timeframes shown in Table 4-1, Table 4-2 and Appendix 14.

No construction is to begin on any phase of the Work prior to the County authorizing the various component(s) of the plans as "Released for Construction". Other items shall be submitted to the County by the Contractor, if requested. After the County has accepted the plans and has authorized them as "Released for Construction", any requests for any subsequent plan/design changes and include necessary documentation which supports the reasoning behind the change request must be submitted to the County. The County must approve the requested change with written notice prior to its implementation as a plan revision and subsequent construction activity.

Facilitate monthly progress meetings at a venue and time determined convenient to the County. The general purpose of these meetings are to update the County's staff on the status of design, current activities, issues, activities that the County is currently performing, and other related matters that impact scope, schedule and budget. Provide the Engineer an agenda of items one (1) week in advance of the meeting in order so that the Engineer may arrange for the various Fulton County Office reviewer(s) to attend, if necessary. Other attendees include the Contractor, design consultant, Fulton County's Project Engineer and Project Manager. Provide a call in number and conferencing capabilities to allow others to participate at the County's discretion. Publish meeting notes of those discussions within two weeks of their occurrence and sent to all attendees and others indicated by GDOT. Ensure the first of these monthly meetings occur at the conclusion of the Post Award Meeting.

ABBREVIATIONS FOR TABLE 4-1

AR	As Required
ANC	As necessary for submittal compliance with RFP package
FS	Full-size paper
HC	Hard Copy- 8 1/2 x 11 unless otherwise noted
HS	Half-size paper
MS	MicroStation File — Electronic
NTP	Notice to Proceed
PAS	Per Approved Schedule

TABLE 4-1: REVIEWS (continued)

Submittal Description	Format	Quantity	Delivery Date	Review Period	Review Type	Description
Construction Plans (Non ITS, ROW or Structural) <ul style="list-style-type: none"> Final Plans Backcheck 	FS, HS, PDF	•2, 22, 1 •0, 2, 1	PAS	•30 •7	Accepted by Engineer	Submittal shall include features/plan sheets as described in GDOT's PPG and other resources.
"Released for Construction"	FS, HS, PDF	3, 6, 1	PAS	N/A	N/A	Plan submittals that do not meet the requirements of GDOT Guidelines and Manuals will be rejected. County will, then, issue "Released for Construction" authorization when the backcheck plans are accepted or notify the Contractor that Final Construction Plan comments were not adequately addressed.
Notice of Intent (NOI) Package <ul style="list-style-type: none"> Completed and signed NOI Progress schedule chart Final/Signed ESPCP 	• HC, PDF • HC, PDF • HC, PDF	•1' 1 •1' 1 •3' 1	PAS	N/A	EPD letter stating plans do not contain deficiencies	The Contractor will submit final/signed ESPCP to EPD for review prior to submittal of the NOI package to EPD. The Contractor will address any plan changes required by EPD. For phased NOI and ESPCP, submit complete plan sets for each phase. Each phase should be independent and should not identify erosion and sediment control measures from other phases.
Preliminary Structures <ul style="list-style-type: none"> Bridge Plans Retaining Wall Layouts 	FS, HS, PDF	2, 3, 1	PAS	30	Accepted by Engineer	

Section 3

#14RFP95820K-JD
Design/Build Services for Fairburn Road from Village Drive to North Utloy Creek Road, Bridge, and Sidewalk Improvements Project Request for Proposal

TABLE 4-1: REVIEWS (continued)

Submittal Description	Format	Quantity	Delivery Date	Review Period	Review Type	Description
100% Structures • Bridge Plans • Wall Plans	FS, HS, PDF	2, 3, 1	PAS	30	Accepted by Engineer	Bridge/Wall plan reviews will not begin until after the BFI/WFI is accepted. 30-day review will apply to individual bridge or wall submittals. FHWA will perform review after GDOT acceptance and the Contractor resubmits corrected plans. Allow an additional 14 days for this FHWA review.
Geotechnical Reports	HC, PDF	2, 1	PAS	30	Accepted by Engineer	
Worksite Utility Control Supervisor Qualifications	HC, PDF	3, 1	PAS	14	Accepted by Engineer	Department must accept prior to Contractor performing land disturbing activities.
Worksite Erosion Control Supervisor Qualifications	HC, PDF	3, 1	PAS	14	Accepted by Engineer	Department must accept prior to Contractor performing land disturbing activities.
Worksite Traffic Control Supervisor Qualifications	HC, PDF	3, 1	PAS	14	Accepted by Engineer	Department must accept prior to Contractor performing land disturbing activities.
Construction Traffic Control Plan	FS, HS, PDF	3, 3, 1	PAS	21	See Specification 150	
Shop Drawings	FS	6	PAS	30	Accepted by Engineer	
Plan Revisions	FS, HS, PDF	3, 4, 1	Per occurrence	14	Accepted by Engineer	Contractor shall include clear and concise description of revision along with documentation justifying reason for proposed revision.

Section 3

#14RFP95820K-JD
Design/Build Services for Fairburn Road from Village Drive to North Uttoy Creek Road, Bridge, and Sidewalk Improvements Project
Request for Proposal

TABLE 4-1: REVIEWS (continued)

Submittal Description	Format	Quantity	Delivery Date	Review Period	Review Type	Description
MS4 Infeasibility Recommendations	HC, PDF	3, 1	NTP(1)=45	90	Accepted by Engineer	Refer to 4.2.5.1.(b) of MS4 Permit

Section 3

#14RFP95820K-JD
 Design/Build Services for Fairburn Road from Village Drive to North Uttoy Creek Road, Bridge, and Sidewalk Improvements Project Request for Proposal

All days are "Calendar days," as defined in section 101, GDOT'S Standard specifications.

Transmit all submittals to the County's representative. Errors and omissions are the responsibility of the Contractor to correct and shall be at the Contractor's expense.

Do not submit more than ten (10) submittals within a twenty-one (21) calendar day period.

All submittals shall include a cover letter describing the submittal, review period and the due date for any County response.

All submittals shall include the Contractor's QC/QA certification statement (in addition to the design consultant's QC/QA certification statement for all design related submittals). The County will reject any submittal if the QC/QA certification statement is not included.

Any submittal received by the Engineer after 12 PM (Noon) will be considered as being received the following business day.

5. **Field Surveys:** Verify all provided survey data and update to current Electronic Data Guidelines (InRoads). Provide terrain and drainage cross sections, pavement elevations, and drainage structure information for this Project. Provide all survey data noted in English units. All supplemental field survey information is to be completed in accordance to the GDOT Automated Survey Manual.

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6. **Quality Control/Quality Assurance:** The County, except where noted otherwise, will have oversight responsibilities and will perform detailed reviews and approvals of design work as deemed necessary by the County. The County will not take any approval or formal review actions on design issues except as noted herein or for deviations from the intended scope of the Project.

Employ only persons duly registered in Georgia in the appropriate category in responsible charge of supervision and design of the work; and further, employ only qualified, State of Georgia registered land surveyors in responsible charge of any survey work.

Use only the design consultant team originally prequalified by the County in all applicable areas as described in the SOQ. Should a member of the design consultant team need to be replaced, the County must approve of the change prior to the beginning of construction. Failure to secure approval of any Team Members prior to construction may result in disqualification of the Contractor to perform the work or bid.

Stamp and seal (endorse) all final reports, contract plans and survey data. All documents shall be stamped by a person(s) duly registered in the appropriate category by Georgia's State Board of Registration for Professional Engineers and Land Surveyors and being in the full employ of the Contractor and responsible for the work prescribed in the contract.

Authorized representatives of the County may review and inspect the Project activities and data collected at any times. All reports, drawings, studies, specifications, estimates, maps and computations prepared by or for the Contractor shall be available to authorized representatives of the County for inspection and review. The County's review comments are to be incorporated into the plans by the Contractor or as agreed. These changes shall not result in an increase in cost.

Before the start of the contracted design effort, develop and acquire the County's approval for a QC/QA Plan to ensure all design documents are prepared in accordance with the County's Plan. Presentation Guide (PPG) for MicroStation using good, prudent and generally accepted design and engineering practice.

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- a. Ensure the QC/QA Plan includes the following, which shall be considered minimum requirements:
- 1) Quality control and quality assurance procedures for design documents specify measures to be taken by the Contractor to (A) ensure appropriate quality standards are specified and included in the design documents and to control deviations from such standards, being understood and agreed no deviations from such standards be made unless they have been previously accepted by the Department, and (B) for the selection of suitable materials and elements of the Work included in the Project.
 - 2) Quality control and quality assurance procedures for preparing and checking all plans, calculations, drawings and other items submitted to ensure they are independently checked and back-checked in accordance with generally accepted engineering practices, by experienced engineers. Identify the originator, checker and back-checker on the cover of all submittals. Ensure the Plans, reports and other documents are stamped, signed and dated by the documents, generally accepted engineering practices or by applicable laws. The Contractor will submit a certified statement to ensure all reviews have been made.
 - 3) Procedures for coordinating work performed by different persons within the same area, in an adjacent area or in related tasks shall ensure that conflicts, omissions or misalignments do not occur between drawings or between the drawing and specifications. These procedures allow for the coordination of the review, approval, release, distribution and revision of documents involving such persons.
 - 4) All the persons proposed to be responsible for Quality Control and Quality Assurance procedures are to be listed as follows: Discipline, Name, Qualifications, Duties, Responsibilities and Authorities.
 - 5) Designate all key personnel performing Quality Control and Quality Assurance functions as such and will not be assigned to perform conflicting duties.

All plan related documents produced during the contract

period are to be maintained by the Contractor for the duration of the Contract organized, indexed and delivered to the County (1) upon Final Acceptance of the Project or (2) even if incomplete, within seven (7) days of receipt of request from the Department. These documents include, but not limited to, the following items: design criteria, reports and notes, calculations, drawings, schematics, supporting materials, statement regarding accomplishment of reviews and others.

7. **“Released for Construction”:** Upon the Contractor's satisfactory completion of the items listed in 999.1.B, and upon written authorization from the County, the plans are “*Released for Construction*”, and include the authorization date. The “*Released for Construction*” plans are the official plans used for construction of the Project.
8. **As-Built Plans:** Upon completion of the Project construction, provide a complete As-Built set of plans to the County in the following formats:
 - a. Two (2) CD-ROMs or DVDs containing:
 - 1) all electronic design files, electronic calculations, etc.;
 - 2) .pdf of each plan sheet- one sheet per file; and
 - 3) .pdf containing the entire plan set.
 - b. One (1) hard copy of the design data book, and drainage calculations.
 - c. Two (2) full-size set of bond prints.
 - d. Two (2) half-size set of bond prints.
 - e. GIS database containing the existing and proposed drainage structures and ditches within the construction and right of way limits.
 - 1) Ensure GIS data complies with Section 999.3.G.
 - f. Provide a revised estimated summary of quantities and detailed estimate in the final “As-Built” plans.

Ensure all production and delivery of materials needed for Department review. Both a member of the design team, who is a Professional Engineer, and a member who is a Registered Surveyor, licensed to practice engineering in the State of Georgia shall seal the As-Built

plans.

9. **Ownership of Documents:** The Contractor agrees all reports, drawings, studies, specifications, survey notes, estimates, maps, computations, computer files and other data, prepared by or for the Project under the terms of this Agreement and delivered to Fulton County becomes, and remains, the property of the County. Fulton County will have the right to use this information without restriction or limitation and without compensation to the Contractor other than provided for in this agreement.

Any use of these documents by the County on any Project other than this one will be done without warranty by the Contractor/Design Consultant Team.

10. **Insurance:** In addition to the insurance requirements covered elsewhere, provide insurance coverage of the following types and amounts:

a. **Valuable Papers:** Insurance in an amount sufficient to assure the restoration of any plans, drawings, field notes or other similar data relating to the work covered by the Project is required. Insurance is to be maintained in full force and effect during the life of this Agreement.

b. **Professional Liability (Errors and Omissions):** Insurance in an amount not less than one million dollars (\$1,000,000) per claim (with a maximum of \$250,000 deductible per claim) during the agreement term and for a period of at least five (5) years after this Agreement is closed is required. Such a policy is to cover all of the Contractor's professional liabilities, whether occasioned by the Contractor, his employees, subcontractors or other agents, arising out of services performed under or in accordance with this Agreement.

c. This form should be submitted to the Department along with the Contract at the Post Award meeting.

11. **Publication and Publicity:** Articles, papers, bulletins, reports or other materials reporting the plans, progress, analyses or results and findings of the work conducted under this Agreement shall not be presented publicly or published without prior approval in writing from the Department. All releases of information, findings and recommendations shall include a disclaimer provision to be included in all published

reports on the cover and title page in the following form:

Any information concerning the Project, including conduct, results or data gathered or processed, released by the Contractor without prior approval from the County will constitute grounds for termination without indemnity to the Contractor. Information released by the County or by the Contractor with prior written approval is to be regarded as public information and no longer subject to the restrictions of this Agreement. Information required to be released by the Department under the Georgia Open Records Act, Section 50-18-70, et seq., O.C.G.A., the restrictions and penalties mentioned set forth herein shall not apply. Any request for information directed to the Contractor, pursuant to the Georgia Open Records Act, is to be redirected to the County for further action.

12. **Copyrighting:** The Contractor and the County agree any papers, interim reports, forms and other material which are a part of work under this Agreement are to be deemed a "work made for hire", as such term is defined in the Copyright Laws of the United States. As a "work made for hire", all copyright interests in said works shall vest in the County upon creation of the copyrightable work. If any papers, interim reports, forms or other material which are a part of work under the Agreement are deemed by law not to be a "work made for hire", any copyright interests of the Contractor are hereby assigned completely and solely to the County. Publication rights to any works produced under this Agreement are reserved by the County.
13. **Patent Rights:** If patentable discoveries or inventions result from work described herein, all rights accruing from such discoveries or inventions are the sole property of the Contractor. However, the Contractor agrees to and does hereby grant to the County, an irrevocable, non-exclusive, non-transferable and royalty-free license to practice each invention in the manufacture, use and disposition according to law of any article or material and in use of any method that may be developed as a part of the work under this Agreement.

B. Roadway

1. Preparation of Construction Plans
 - a. General Criteria: Ensure and use the most current

design criteria at the time of advertisement, as determined by the County, American Association of State Highway and Transportation Officials (AASHTO) Design Manuals for Arterial Streets, Rural, Urban and Interstate Highways, including those standards adopted by AASHTO and approved by the Secretary of Commerce, as provided by Title 23, United States Code, Section 109 (b), with the County's Standards, Procedures, Plans, Specifications and Methods, with Federal Highway Administration procedures relating to plan review and approval, and shall produce plans in accordance therewith.

- b. Design Specifications and Guidelines: Design for roadways and intersections shall be in accordance with the current edition of AASHTO Design Specifications; AASHTO Roadside Design Guide; and the Department of Transportation Standard Specifications for Construction of Roads and Bridges, 2001 Edition, the 2008 Supplemental Specifications modifying the 2001 Standard Specifications. Plan and specifications shall conform to the requirements of the Highway Capacity Manual.

Design for work to conform to AASHTO design standards for the appropriate classification and speed design.

Utilize the following references (**current at time of advertisement**) as a minimum in the development of this Project in addition to the references listed above.

- 1) Electronic Data Guidelines (EDG)
- 2) Plan Presentation Guide (PPG)
- 3) GDOT Design Policy Manual
- 4) GDOT Design Policy Manual Chapter 9 "Complete Streets Design Policy" for the pedestrian, bicycle, and transit design:
<http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/DesignPolicy/GDOT-DPM-DPM-Chap09.pdf>
- 5) Manual on Uniform Traffic Control Devices (MUTCD) by the U.S. Department of Transportation, Federal Highway Administration "FHWA" and all Interim Approval Memos.

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- 6) AASHTO Geometric Design of Highway and Streets
 - 7) AASHTO Roadside Design Manual
 - 8) Municipal Separate Storm Sewer System (MS4) Permit, GAR041000
 - 9) Guidelines for Processing Design Data in InRoads Design Guidelines
http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/software/Pages/IN_ROADS.aspx
 - 10) GDOT Construction Standards and Details
 - 11) Pay Item Index by the GDOT State Transportation Office Engineer
 - 12) Utility Accommodation Policy and Standards Manual
 - 13) GDOT Signing and Marking Design Guidelines
 - 14) GDOT Traffic Signal Design Guidelines
 - 15) GDOT Driveway and Encroachment Manual
 - 16) GDOT Bridge Design Memos and the Bridges and Structural Design Manual revised May 2013
 - 17) 2009 AASHTO Standard Specifications for Structural Support for Highway Signs, Luminaires and Traffic Signals Other manuals of guidance which are standard procedures of the Department, (signal design, signing and markings, etc.).
 - 18) AASHTO Guide for the Planning, Design, and Operation of Pedestrian Facilities
 - 19) AASHTO Guide for the Development of Bicycle Facilities
 - 20) NACTO Urban Bikeway Design Guide

The above list is not intended to be all-inclusive. Any current editions written in metric units ensure "soft converted" to U.S. Standards Units. Any rounding shall be to the dimension that shall increase safety.

- c. Erosion and Sediment Control Sheets: No land disturbing activities until the Control of Soil Erosion and Sedimentation Plan has been accepted by the Engineer; the NOI has been successfully submitted to EPD by the Contractor; EPD has issued a letter to the County indicating the plan "does meet" current NPDES requirements; and the required waiting period of 14 days

is observed.

Prepare the Erosion Sedimentation and Pollution Control Plans (ESPCP) in accordance with current Department practice, and in accordance with the requirements set forth in the NPDES General Permit No. GAR100002. NPDES General Permit Guidance is found at:

<http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/Pages/default.aspx>.

In addition, design the plans in accordance with the current version of Georgia Soil and Water Conservation Commission's Manual for Erosion and Sediment Control in Georgia (Green Book).

Erosion and Sediment Control Plans detail the erosion control devices to be used. These devices include, but are not limited to, sediment traps, floating silt retention barriers, check dams, silt fence (types A, B & C), bailed straw ditch checks, brush barriers and slope drains. Additional plan sheets are required for each stage of construction. Additional plan sheets are also required to illustrate phased installation of erosion measures. All required sediment and erosion control items, including but not limited to installation and maintenance, shall be paid for under CONSTRUCTION COMPLETE.

As contained within the Department's standard ESPCP General Notes (June 7, 2012 or more current), remove all references to the following statement: "The Erosion Sedimentation and Pollution Control Plan (ESPCP) is provided by the Department."

C. Bridges and Structures

1. Design Specifications and Guidelines:
 - a. Design bridges in accordance with the AASHTO Standard Specifications for Highway Bridges, 17th Edition, 2002.
 - b. Design retaining walls in accordance with the AASHTO Design Standard Specifications for Highway Bridges, 17th Edition, 2002.
 - c. Use the Bridge & Structural Design Manual available on the R-0-A-D-S website:

<http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/Pages/DesignPolicies.aspx>

- d. Use "Basic Drawings" where possible. Basic drawings and cells can be downloaded at the following internet address:

<http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/software/Pages/BridgeEngineeringPrograms.aspx>

- e. Use MicroStation/J to prepare plans in accordance with the Office of Bridge and Structural Design's MicroStation Customization. These files include a folder structure that is required to be on C:\Drive along with the "Bentley" folder. Access the Bridge MicroStation Customization files at the internet address:

<http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/software/Pages/MicroStation.aspx>

2. Foundation Investigations:

The Contractor shall perform LRFD bridge and wall foundation investigations for all proposed walls and bridges to be constructed on this Project. Previously approved reports provided by the County are for informational purposes only, since they were not designed in accordance with LRFD. The investigation and reporting shall be prepared in accordance with the following:

a. General:

- 1) Perform field and laboratory testing and analysis, and prepare a report with foundation recommendations for the bridges and walls. Work is to be performed by qualified and experienced firms that are pre-qualified with the County in Area Class 6.02.
- 2) Perform work in accordance with AASHTO LRFD Bridge Design, Fifth Edition, 2010 and in general conformance with the Geotechnical Engineering Bureau Foundation Drilling and Sampling Guidelines. Comply with all applicable Federal and State requirements.

b. Field Investigation:

- 1) Drill a minimum of one (1) boring at each bent line and at each wall. Drill borings as necessary. Perform the following, as applicable:

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- a) Notify Property Owners prior to accessing their properties.
 - b) Obtain locations and clearance for all utilities within the area of the borings.
 - c) Provide traffic control and lane closures in accordance with the Department's Specifications.
 - d) Clearing and preparation of the boring site.
 - e) Obtaining and transporting water to the site.
 - f) Foundation drilling and sampling of soil and rock.
 - g) Obtaining accurate survey elevations.
 - h) Site cleanup, erosion control, and restoration.
- 2) Fill portions of all drill holes with drill cuttings after completion of drilling that are not subject to excavation for construction. Top off all drill holes through pavements with cold mix asphalt (unless subject to excavation) to the same depth as the existing pavement. Remove all drill cuttings, muddy water, slurry, and other debris deposited on pavements, paved shoulders, and other travel ways immediately when the areas shall be subject to traffic after the completion of drilling. Calculate elevations to an accuracy of one tenth (0.1) of a foot.
 - 3) Do not provide copies of boring logs, plans, or field test reports to property owners or other parties without the permission of the State Geotechnical Engineer.

c. Laboratory Testing:

- 1) Perform laboratory testing on samples obtained from the field in accordance with applicable methods of AASHTO, ASTM, or GOT test procedures. Use a laboratory that possesses current AASHTO certification.
- 2) Furnish laboratory results as part of the Final Report.

d. Final Analysis and Report:

- 1) Perform a geotechnical analysis for this Project and prepare geotechnical recommendations in the form of a final report to the Department's State Geotechnical Engineer for review, prior to foundation construction. Base the final report on the information collected

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- from the field investigation, the plans, specifications, results of laboratory tests, and the analysis of all other available information. Prepare and submit the Bridge and Wall Foundation Investigation Reports in a manner that is appropriate for the AASHTO LRFD Bridge Design Specifications, Fifth Edition, 2010 methodology.
- 2) Stamp and sign the final reports by a Professional Engineer registered in the State of Georgia. Provide two copies of the final report to the State Geotechnical Engineer.
 - 3) Prepare the reports in general conformance to the State's Geotechnical Engineering Bureau Report Preparation Guidelines, State's Specifications, and in conformance with good engineering practice. Incorporate the following recommendations and additional recommendations, as applicable:
 - a) Foundation types including factored and service design loads.
 - b) Spread Footing elevations.
 - c) Pile minimum, estimated tip elevations, and Driving Resistance.
 - d) Driving Analysis.
 - e) Drilled caisson tip elevations.
 - f) Foundation installations in rock.
 - g) Embankment construction, settlement, and slope angles.
 - h) Treatment of groundwater conditions.
 - i) Treatment of poor soil conditions.
 - j) Construction effects on adjacent utility structures and remedies for any potential problems.
 - k) Locations of Utilities for the purpose of identifying conflicts with retaining walls.
 - l) Bottom of wall elevations.
 - m) Soil parameters for the design of proposed walls.
 - 4) In the Final Report, include (as applicable) copies of boring logs, field notes, laboratory and field test results or summaries, photographs, special provisions, details and drawings, and other related

information. Correct final reports with errors and omissions, as determined by the State Geotechnical Engineer. Resubmit the corrected report at no additional cost to the County.

- 5) Acceptance of the work by the County will not relieve the Contractor of the responsibility for subsequent correction of errors or for the costs associated with work caused by negligent errors or omissions from work performed by the Contractor.

3. Construction Plan Submittals and Reviews

Refer to Schedule of Deliverables (Table 4-1) for the format, quantity, review type and review period for each submittal scheduled.

- a. Preliminary Plans: Preliminary Bridge Layout (if required, see Part C Section 4.a.3) and Preliminary Wall Plans
 - 1) Preliminary plans must be approved by the Department prior to starting final design of the bridge.
- b. Final Construction Plans: Submit complete bridge plans and complete wall plans. Plans will be reviewed and approved by the County. Final corrected plans will be reviewed and approved by FHWA.
- c. Shop Drawings.
- d. Approved for Construction Drawings: Issued once the County and FHWA reviews are completed and all corrections have been made and approved.
- e. Submit one (1) hardcopy and one (1) electronic (.PDF) of the final design calculations along with the Final Bridge and Wall Construction Plans.

4. Preliminary Bridge and Wall Plans

a. Preliminary Bridge Plans

The following information is to be used in the development of the final plans:

- 1) The approved Preliminary Layouts for the bridge(s) currently proposed on this Project are included in the contract documents.

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- 2) Contractor shall prepare a Preliminary Layout for the County's review and approval in accordance with the following guidelines for each bridge to be changed:
- a) The Contractor shall verify all dimensions and elevations in the field prior to preparing plans, ordering materials or building forms.
 - b) Do not increase stresses on existing bridge elements during staging.
 - c) Design the substructure end bents and intermediate bents with concrete columns, caps, or walls with footings. Tops of footings shall be a minimum of three feet below existing grade and possible roadway grades.
 - d) Provide a typical section which indicates the following information:
 - The center to center spacing of Girders.
 - Overhang or distance from outside edge of slab to center of exterior girder: This distance (overhang) shall meet AASHTO requirements, but shall not exceed 4'-7Yz" or one half of the adjacent beam spacing, whichever is less. Overhangs shall be a minimum width of one-half top beam flange plus 6 inches.
 - Cross slope of the deck.
 - Deck thickness between girders and deck thickness at the centerline of girder measured from the top surface of deck to top of the flange.
 - Barrier location, height and width.
 - Gutter to gutter and out-to-out dimensions.
 - Location of the profile grade.
 - e) In addition to the requirements above, provide the following:
 - A plan view of the proposed structure indicating beginning and end bridge stations, construction centerline, profile grade line, bent

skew angles, joint locations, station and skew of roadways crossing under the structure, width of roadways beneath the structure, gutter to gutter width of the bridge, out to out width of the bridge, distance from gutter to outside edge of deck, taper control stations, location of point of minimum vertical clearance, and location and magnitude of the horizontal clearances from edge of travel way beneath the structure to the face of intermediate bents.

- Stations and elevations along the centerline of construction at the intersection of the centerline of construction and the back face paving rest and centerline of bents. Provide profile grade elevations corresponding to the above stations.
- An elevation view of the proposed structure indicating the span length, location of fixed and expansion joints, profile of roadways beneath structures, vertical clearance from bottom of structure to roadway beneath, proposed bent locations, and existing ground profile.
- All horizontal and vertical curve data for the bridge and the roadway beneath the bridge.
- The location and elevation of the nearest bench mark. The nearest benchmark shall be within 300 feet of the bridge.
- A brief description of the proposed structure indicating span lengths, beam type(s), type of end bents, and type of intermediate bents, as applicable.
- Any drawing and/or narrative description of the construction scheme necessary to indicate how the bridge is to be built, including traffic handling sketches and temporary barrier locations.

b. Preliminary Wall Plans

Prepare Preliminary Wall Plans in accordance with the following guidelines:

- 1) The wall types are as follows:

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- a) MSE (Mechanically Stabilized Earth); and
 - b) Alternate wall types, including cast-in place walls, are permissible as approved by the Department. Soil-nail type walls and modular block type walls will not be allowed along roadways.
- 2) An elevation view or wall envelope of the proposed wall drawn to a horizontal and vertical scale of 1:10 and indicating the following data:
 - a) Beginning and end wall stations.
 - b) Elevations on top of wall parapet, coping, or traffic barrier at the beginning and end of wall, at profile break points, and at least every 50 feet along the wall.
 - c) Bottom of wall (top of footing) elevation necessary to maintain minimum berm requirements.
 - d) Original ground profile. (e) Proposed ground profile.
 - e) Stations and offsets to ends of walls and locations where wall changes direction.
 - f) Stations and elevations along top and bottom of wall.
 - 3) All walls shall have a smooth plain concrete finish. All walls shall have a graffiti proof coating.
 - 4) Roadway cross-sections in the vicinity of the wall that will indicate the existing and final slope behind the wall.
 - 5) Typical sections for MSE walls shall include:
 - a) Limit of special backfill (1'-0" beyond end of reinforcement)
 - b) Reinforcement
 - c) Facing
 - d) Coping, parapet or barrier
 - e) Back-slope and fore-slope
 - f) Leveling Pad
 - g) Bridge abutment
 - h) Additional select backfill behind bridge abutment
 - i) Concrete ditches
 - 6) Project Plan and Profile sheets which indicate the

following:

- a) Limits of right-of-way.
 - b) Super elevation data.
 - c) Horizontal and vertical alignment data.
 - d) Horizontal offsets to face of retaining wall.
 - e) Location and type of overhead signs which may be near retaining walls.
 - f) Location of roadway lighting which may be near or attached to the retaining wall.
 - g) Location and size of any drainage structures which will affect the retaining walls.
- 7) Any construction sequence requirements that will affect the construction of the walls and which will have to be accounted for in the preparation of retaining wall plans.
5. Final Bridge and Wall Plans
- a. Additional Bridge Design Criteria
- 1) The Contractor's design professionals, in designing the bridge in this Project, shall utilize the State's Bridge Geometric and Design Software to the maximum extent possible. Upon prior written approval by the County, the Contractor's design professionals may be authorized to utilize its computer capabilities. The contractor's design professionals are required to verify results to obtain final design accuracy.
 - 2) Use ASTM A 615 Grade 60 reinforcement.
 - 3) Use Class D Concrete with a minimum 28-day concrete strength of 4,000 psi for superstructure concrete.
 - 4) Provide a slab designed in accordance with AASHTO LRFD Traditional Method Article 9.7.3 proportioned to provide 2.75 inches of concrete cover over the top mat of reinforcing and 1 inch cover to the bottom mat of reinforcement (minimum deck thickness is 8.25 inches). Empirical design (LRFD 9.7.2) will not be allowed. Use the slab thickness determined for the portion of the bridge supporting the highway loading at all locations.
 - 5) Use Class AA Concrete, with a minimum 28-day concrete strength of 3,500 psi, for substructure caps,

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- columns, caissons, and footings.
- 6) Include 30 pounds per square foot in the design loads to allow for future paving.
 - 7) If metal deck forms are used, include 16 pounds per square foot in the non-composite design loads.
 - 8) Design and detail 1'-0" minimum wide edge beams where the deck is to be discontinuous. Detail edge beams as provided in the Bridge Design cell library for the appropriate pre-stressed beam.
 - 9) Place slab transverse and longitudinal reinforcing steel 2 inches from the edge of the slab and place the top mat of edge beam bars below the top mat of the deck steel. Do not use truss shaped bars in the edge beam. Extend stirrups from the edge beam into the slab.
 - 10) Use protective platforms in accordance with Section 510 of the GDOT Specifications. Maintain a minimum of 17 foot vertical clearance over all operational travel lanes and shoulders.
 - 11) Use steel h-piles (for pile end bents), pile footings (steel H piles), spread footings or drilled caissons in the foundation design and construction. Selected foundation types shall be utilized in accordance with the approved Bridge Foundation Investigation (BFI). Previously approved reports provided by the Department are for informational purposes only.
 - a) For spread footings- provide factored bearing resistance and embedment in accordance with the approved BFI. Previously approved reports provided by the Department are for informational purposes only, since they were not designed in accordance with LRFD.
 - b) For drilled caissons - provide factored bearing resistance and embedment in accordance with the approved BFI. Previously approved reports provided by the Department are for informational purposes only, since they were not designed in accordance with LRFD.
 - c) For pile foundations- provide factored bearing resistance and embedment in accordance with the approved BFI. Previously approved reports

provided by the Department are for informational purposes only, since they were not designed in accordance with LRFD. Use of a pile Driving Analyzer (PDA) may be required by the Department if piles are driven to hard rock.

- 12) For pre-stressed beams, meet the following criteria:
- a) Design pre-stressed concrete beams with conventional strength concrete up to a maximum 28-day compressive strength of 9,000 psi.
 - b) Design pre-stressed concrete beams with high performance concrete (HPC) for a maximum 56 day compressive strength over 9,000 psi up to 10,000 psi. The maximum design compressive strengths shall not exceed 10,000 psi.
 - c) Design pre-stressed beams as simple spans.
 - d) In calculation of pre-stressed girder section properties, do not utilize transformed area of bonded reinforcement.
 - e) Use neoprene bearing pads at each end of the pre-stressed beams. Design the pads to account for transverse and longitudinal expansion and contraction.
 - f) Use anchorage beds set for horizontal and vertical strand patterns of two inches center to center. Detail all straight and draped strands utilizing two inch spacing.
 - g) Provide the minimum amount of reinforcing steel at beam ends as required by AASHTO LRFD specifications, Article 5.10.10.
 - h) Detail beam lengths to 1/16 inch increments.
 - i) Provide pre-stressed beam sheets with all the applicable details as shown on the "basic drawings."
 - j) Require the use of 10 inch wide concrete diaphragms.
 - k) Do not include elastic gains in calculating pre-stress losses.
 - l) All columns that have less than 30'-0" horizontal

clearance from the edge of roadway shall be designed for the vehicular collision forces in accordance with LRFD 3.6.5. Protection by barrier or embankment will not negate this requirement.

- 13) For steel beams, meet the following criteria:
- a) Design steel superstructure using ASTM A709, GR 50 for main members and ASTM A709, GR 36 for other members. Grade 70 high performance steel (HPS) may be used with approval from the State Bridge Engineer prior to proceeding with design. The use of unpainted" weathering steel" is not permitted.
 - b) For continuous steel beams, ignore reinforcement in the slab for negative moment strength contribution. Design steel beams as non-composite in negative moment region.
 - c) Provide camber diagrams for continuous steel beams. The camber ordinate includes dead load deflection due to the beam, slab, coping, railing sidewalk, and media, and includes the vertical curve ordinate. Obtain deflections due to composite loadings from an analysis of the superstructure as fully composite in the negative moment areas. Provide deflections due to the slab and coping at each step in the pour sequence, as well as a total due to the pour sequence.
 - d) Design the superstructure for fatigue using the average daily truck traffic (ADTT) data for the bridge when it is 30 years old. All welds shall be Category C or better as defined by AASHTO specifications.
 - e) Maintain a constant web thickness along the length of the bridge. The use of transverse stiffeners for web depths of 72" or less is discouraged. The use of longitudinal stiffeners is not permitted.
 - f) All stiffeners shall be welded to the web. Bearing stiffeners shall be tight fit at the top

and bottom. Gusset plates for diaphragms shall be welded to the top and bottom flanges in addition to the web.

- g) The maximum allowed flange plate thickness is 2". With prior approval from the State Bridge Engineer, thicknesses of up to 4" may be used.
- h) Shear connectors shall be 3/4" diameter end welded studs. Shear connectors shall penetrate at least 2" above the bottom of the slab, but the top of the stud shall be 3" below the top of the deck slab. Shear studs shall not be located on tension flanges.
- i) The beam details sheets should have the symbol (CVN) indicating which components require Charpy V-notch testing, and the following note shall be placed on the plans: *"All components marked with (CVN) are main load carrying members subject to tensile stress and shall meet the Charpy V-notch test requirements as specified by Section 851 of the Georgia DOT Specifications.*
- j) All field splices shall be welded with full-penetration butt welds. The use of bolted splices is discouraged. Field splices shall be located at, or near dead-load points of contraflexure. All splices shall include stiffeners adjacent to the splice point, located 12" from the splice. Studs shall be located no nearer than 12" from the splice.
- k) Diaphragms of Cross Frames shall be welded before pouring the deck for bridges with skews between 75 and 90 degrees.
- l) Groove welding for gusset plate connections should be avoided because of necessary back-up plates and special welding procedures. Instead, use a bent plate for the diaphragm or cross-frame attachment.
- m) All backing strips shall be made continuous for the length of a weld. Any joints in backing strips shall be full penetration butt welds.
- n) No intersecting welds are permitted. Based metal in the area of intersecting welds shall be

coped 4 times the thickness of the web or 2 inches.

- o) Electro-slag weldments are not permitted.
- p) All new structural steel shall be painted with System VII.
- q) Use pot bearings at each end of the steel beams. Design the bearings to account for transverse and longitudinal expansion and contraction.
- r) Detail beam lengths to 1/16 inch increments. b.

Additional Wall Design Criteria

- 1) MSE Walls are to be constructed in accordance with Section 627 of the GDOT Specifications.
- 2) Concrete Retaining Walls are to be constructed in accordance with Section 500 of the GDOT Specifications.

Bridge and Wall Construction Plans

The Contractor shall arrange a meeting with the County to specifically discuss how the plans will be prepared prior to beginning plan preparation on the Project.

- 1) Prepare construction plans with all dimensions, notes and details necessary to construct the structure. As a minimum, include the following sheets:
 - a) Plan and Elevation sheets that include:
 - Plan view of the bridge,
 - Elevation view of the bridge,
 - Beginning and ending stations,
 - North arrow,
 - Location of fixed and expansion bearings,
 - Location of the minimum vertical clearance of critical travel lanes, and
 - Existing Bridge Serial No., Existing Bridge ID No., Project No. Project PI No., and construction ID No. supplied by the State.
 - b) General Notes sheets that include:
 - Notes for the following; Specifications, Reinforcing Steel, Chamfer, Existing Bridge

Plans, Welding, Salvage Material, and others as necessary,

- Bridge Design Data,
 - A summary of Bridge Consists Of,
 - A summary of Traffic Data,
 - A summary of Quantities (for information only)
 - A list of Existing Utilities (if applicable),
 - A list of Utilities
- c) Deck Plan sheets,
 - d) Deck Cross-Section sheets,
 - e) Bearing assembly sheets,
 - f) Beam sheets,
 - g) Miscellaneous sheets,
 - h) Framing Plan and Substructure Layout sheets,
 - i) End Bent/Abutment sheets,
 - j) Intermediate Bent sheets,
 - k) As Built Foundation sheets, and
 - l) Bar Reinforcing Detail sheets.

Additional sheets may be necessary to show the details required for construction. Provide additional sheets at no additional cost when deemed necessary by the Department.

2) Provide the following details:

- a) On deck section sheets, provide one full-width section across the structure which indicates, at least, all the horizontal dimensions necessary to construct the bridge. Provide sufficient deck cross-sections to indicate the staging, location of the existing structure and location of any temporary barriers on the structure.
- b) Show as many sections as are necessary to detail the placement of reinforcing in the deck and barrier. Also, draw deck sections indicating edge beams, back walls, diaphragms, and end walls. Cut sections radially across the structure.
- c) Detail deck plan sheets with all longitudinal and transverse dimensions necessary to construct the bridge, including edge beam width, expansion joint

widths, back wall or end wall locations, location of construction and expansion joints, and any other items that are necessary to construct the structure.

- d) All views, sections and details, except those in GDOT's standard bridge cell library, are to be drawn to scale. Draw deck cross-sections and intermediate bent sheets "Looking Ahead". If the end bents or abutments are drawn separately, draw bent/abutment one "Looking Back", and draw the other end bent/abutment "Looking Ahead".
- e) All details on the Plans shall be clear and legible. The County will have the final say as to how a Project is to be drawn and will have the right to require additional drawings at no increase in Contract cost. Fully check the plans for completeness of content and accuracy before submittal to the County for review.

3) Maintain and protect all utilities supported and in the area of the bridge during construction. Consider the installation of utilities in staging the construction of the bridge.

4) Groove the bridge deck in accordance with Section 500 of the Georgia DOT Specifications.

6. Shop Drawings

Provide shop drawings in accordance with Georgia DOT's Specifications. The Contractor's engineer shall review and stamp approved all shop drawings as the Engineer of Record. After being stamped by the Contractor's design engineer, the County will review the shop drawings for conformance with the plans and specifications. Allow the County a **30 day review period** upon receipt of the shop drawings for each submittal. Within 30 days of receiving County approval of the plans, submit "stamped" Project plans to the County.

7. Construction Engineering Activities

During the construction phase, ensure the structural design consultant reviews and approves all structural drawings and calculations including, but not limited to redesigns, shoring, erection drawings, falsework, and survey/geometry control.

Ensure submittals requiring the Department's review include documentation of the structural design consultant's review and approval.

8. Bridge Removal

The aluminum handrail and posts shall be salvaged from the existing bridge as part of this construction project. The handrail and posts shall not be cut. The salvaged materials shall be disassembled and transported to an approved landfill. The Contractor is responsible for the removal and disposal of all other materials removed from the existing bridge. There is no suitable location within the project limits for the disposal of the existing bridge; the Contractor shall be responsible for obtaining all necessary permits associated with the disposal.

D. Traffic Signal Plans

1. General:

- a. All traffic signal work, materials and installation shall conform to the Department's Specification sections 647, 925, 935, 938 and the MUTCD. Type 3 pull box to be installed at base of each pole where intersection controller is located; pedestrian push button signs are to be 9" by 15".
- b. All traffic signal materials proposed for use on this project will be submitted to the County for review and approval as required by contract specification. No traffic signal materials or work may begin until all materials have been reviewed and approved by the County. The County's project manager will coordinate inspection of the traffic signal installation.
- c. Traffic signal installations on this project shall be capable of remote communications and diagnostics over communications networks. The contractor will be responsible for all fees and permits necessary for establishing power and communications, including DSL communications, to the project traffic signal installation. The contractor will be responsible for all fees associated with modifying existing and establishing new power and communications services for traffic signals, video detection systems and or CCTV cameras on this project. The Contractor will be

responsible for all monthly power and communications service to the traffic signal installation and support devices, until the new traffic signal installation has satisfactorily completed a test period of uninterrupted operation, for 30 days. For joint use pole applications, the Prime Contractor shall supply attachments heights, pole clearances, and other clearances as required to ensure signal installation will not interfere with utilities. This information shall be supplied to the utility company before any utility adjustment or joint use pole installation.

- d. The contractor is responsible for coordination of modification to existing or new power service and communication services (utilities) with the project's prime contractor and utilities involved within this project. The Prime Contractor and Signal Contractor are responsible for ensuring proper pole clearances are met when attaching to joint use poles before attachment.
- e. For new construction of concrete island(s), where loop(s) are to be cut to island(s), provisions shall be made for loop(s) to enter pull boxes without saw cutting of the P. I. island(s) and/ or pull boxes. For new concrete island construction, or replacement of existing concrete islands, conduit may be place in the island to facilitate loop wire from saw cuts to pull boxes installed in concrete islands.
- f. The Contractor is responsible for ensuring proper utility clearances for signal span and helper span attachments to utility poles and maintaining clear zone requirements for signal equipment and strain pole location and edge of pavement.
- g. All pull boxes for set-back detection loop lead in cable to controller shall be type 2 pull boxes. Pull box spacing for set- back loop lead in cable shall be 200' maximum between pull boxes. Install type 3 pull box at controller foundation unless otherwise noted on plans. All fiber optic communications conduit shall include pull boxes and be type 5. All unused conduit shall contain detectable mule tape for future use in pulling cable into conduit.
- h. The Contractor will advise the Project Manager a minimum 3 days prior to any traffic signal work

beginning.

- i. Traffic signal controllers will be equipped with contact closures from the Managed Lane Access Control System cabinet to prevent any signal phase from conflicting with the Access Control System. The Developer shall furnish, install, program and configure traffic signal controllers to activate the appropriate phasing plan when receiving a signal from the Access Control Cabinet. The Developer shall ensure CMS including blank out signs associated with the access point are fully coordinated with the Access Control System and the signal phasing.

E. Utilities

1. Coordination Responsibilities: The Contractor shall have the responsibility of coordinating the Project construction with all utilities that may be affected. Coordinating responsibilities shall include but not be limited to the following:
 - a. The Contractor shall initiate early coordination with all Utility Owners located within the Project limits. All Utility Coordination shall be performed to GDOT standards by a prequalified firm in Area Class 3.10 - Utility Coordination. Refer to the following website for a list of current prequalified firms:

<http://www.dot.ga.gov/doingbusiness/consultants/Pages/default.aspx>

The Contractor shall be responsible for the cost of Utility Coordination. Coordination shall include, but shall not be limited to, contacting each Utility Owner to advise of the proposed Project; supplemental verification of the locations of existing utility facilities (including the employment of additional Overhead/Underground Subsurface Utility Engineering investigations (SUE) as described in section 999.3.D.3.c of this specification); and determining requirements for the relocation or adjustment of facilities.

- b. The Department has executed and provided a Memorandum of Understanding (MOU) between the Department and each Utility Owner. If a utility is impacted by the project and the impact requires a

relocation of the utility, refer to the executed MOU for the party responsible for the cost of the relocations.

- c. The Contractor shall endeavor to design the Project to avoid conflicts with utilities when feasible, and minimize impacts where conflicts cannot be avoided (See Section 999.3.D.2.c). The Contractor shall submit to the County a SUE Utility Impact Analysis (UIA) in the County's prescribed format as specified in TABLE 4-2: REVIEWS.

ABBREVIATIONS FOR TABLE 4-2

AR	As Required
FS	Full-size paper- meets GDOT Plan Presentation Guide
HC	Hard Copy- 8 1/2 x 11 unless otherwise noted
HS	Half-size paper- meets GDOT Plan Presentation Guide
MS	MicroStation File- Electronic
NTP	Notice to Proceed
PAS	Per Approved Schedule
PDF	Adobe PDF – One complete file and individual plan sheet files meets GDOT

TABLE 4-2: REVIEWS

Utility Submittal Description	Format	Quantity	Delivery Date*	Review Period*	Review Type	Comment
Supplemental verification of Overhead/Subsurface Utility Engineering (SUE) Investigations - QL-B <ul style="list-style-type: none"> Electronic SUE files, mapping files and proposed designed files Certified half-size PDF PDF of the certified SUE deliverables checklist 	AR, MS, PDF	1	NTP (1) = 45 Calendar Days (Or as Determined by the State Subsurface Utilities Engineer)	N/A	Submitted to the State Subsurface Utilities Engineer for information.	Only certify SUE work actually completed.
SUE Utility Impact Analysis "UIA" <ul style="list-style-type: none"> Excel spreadsheet of conflict matrix Certified color PDF (11 x 17) of conflict matrix PDF showing the conflict locations on the utility plans PDF of the certified SUE deliverables checklist 	AR, PDF	1	NTP (1) = 120 Calendar Days (Or as Determined by the State Subsurface Utilities Engineer)	N/A	Submitted to the State Subsurface Utilities Engineer for information.	Only certify SUE work actually completed.

Section 3

#14RFP95820K-JD
Design/Build Services for Fairburn Road from Village Drive to North Utloy Creek Road, Bridge, and Sidewalk Improvements Project
Request for Proposal

TABLE 4-2: REVIEWS (continued)

Utility Submittal Description	Format	Quantity	Delivery Date*	Review Period*	Review Type	Comment
Overhead/Subsurface Utility Engineering (SUE) Investigations - QL-A <ul style="list-style-type: none"> Electronic SUE files, mapping files (if not already provided) and updated proposed designed files PDF of the certified test hole forms PDF of the certified SUE deliverables checklist 	AR, MS, PDF	1	UIA + 45 Calendar Days	N/A	Submitted to the State Subsurface Utilities Engineer for information.	Only certify SUE work actually completed.
Overhead/Subsurface Utility Engineering (SUE) Information to Utilities for Review (URPN Letter 1a - SUE Submit to Utility Companies Revise)	FS, HS, PDF, MS	Plans: 2 for each Utility Owner + 3 for Dept. and MicroStation Files	NTP 1 + 5 Calendar Days (or as Determined by District Utilities Engineer)	5 days for Dept. + 30 days for each Utility Owner	Reviewed by District Utilities Office (DUO) SUE Verification by Utility Owner (According to the details contained in the MOUs)	
Relocated Utility Plans (URPN Letter 2 - 2nd Submission Letter) (Existing and Proposed)	FS, HS, PDF, MS	Plans: 2 for each Utility Owner + 3 for Dept. and MicroStation Files	Concurrently w/ Accepted SUE Verification by Utility Owner	5 days for Dept. + 90 days for each Utility Owner	Reviewed by District Utilities Office (DUO) and Accepted by Engineer Proposed Relocation by Utility Owner (According to the details contained in the MOUs)	

TABLE 4-2: REVIEWS (continued)

Utility Submittal Description	Format	Quantity	Delivery Date*	Review Period*	Review Type	Comment
Preliminary Utility Status Report (URPN Letter 6 - Notice to Proceed with Permit)	HC, PDF	3, 1	Concurrently w/ Accepted Relocated Utility Plans	10 days + 5 days	Reviewed by District Utilities Office (DUO) and Accepted by Engineer Accepted by State Utilities Pre-Construction Engineer	
Utility Plans/Agreements (Utility NTP Letter)	Plans/Agreements, HS, PDF, MS	Agreements: 3 3 Hard Copy, 1 Electronic PDF Plans: 2 for each Utility Owner + 3 for Dept. and MicroStation Files		Agreements: 30 days for Dept. + 60 days for each Utility Owner Plans: 30 days	Relocation Plans and Agreements review by Department Utilities Office. Agreements, also, review by Utility Owner. (According to the details contained in the MOUS.)	
Utility As-Built Plans	FS, HS, PDF, MS	1' 3, 1' 1	Concurrently w/ Accepted Construction As-Built Plans	Plans: 30 Days Department 30 Days for Utility Owners	Reviewed and accepted by the Engineer. All utility relocations included in the contract must have the as built review and approved by the utility owners	Provide respective Utility Owners whose work was included in the contract a copy of their as-builts for review and acceptance.

2. General

- a. By Georgia Statutes, utilities whether public or privately owned, aerial or underground, are permitted by the State and County governments to be accommodated within the public right of way. To this end, the Contractor needs to make every effort to design/build a Project that will accommodate (and minimize impacts to) all existing utilities and new utilities to be constructed concurrently with the Project. The selection of typical section features, horizontal alignment, and location of storm sewer lines are design elements that can sometimes be varied without violating safety standards, and accepted design principles. Design/construction techniques that minimize or avoid utility conflicts may involve increased upfront costs; however, those costs are offset by savings during construction, in addition to the total cost savings for the Project (local government) and the respective utility owners.
- b. Additional guidance for accommodating utilities within the right of way are given in the AASHTO publications: A Guide for Accommodating Utilities within Highway Right of Way, A Policy on Geometric Design of Highways and Streets; the TRB publication: Policies for Accommodation of Utilities on Highway Rights-of-Way; and in GDOT's Utility Accommodation Policy and Standards, current edition.
- c. The Utility Plans are used as the primary tool to identify and resolve utility related conflicts/issues prior to beginning the construction of a Project. Also, when these plans are properly prepared as indicated in this Special Provision; they will support the vital coordination required between the Contractor and the Utility Owner during construction. Existing utility information shown on the utility Plans for this Project have been obtained from an Overhead / Subsurface Utility Engineering (SUE) Investigation (please refer to 999.3.E.3.c. for more information on SUE). This existing utility information has been provided by the Department for the Contractor's use in the design and construction of this Project. However, the Contractor shall be responsible for supplementing this utility information for utilities that

have been installed after the Overhead / Subsurface Utility Engineering (SUE) Investigation was performed. Known utilities and contacts are shown in the Costing Plans Package. This information shall be verified by the Contractor.

- d. Utility plan sheets are comprised of completed roadway plan sheets but shall contain more detailed information featuring existing and proposed utility facilities. Specific requirements for Utility Plans are detailed below.

3. Required Information

a. Preliminary Utility Plans

1) Preliminary Utility Plan sheets are typically comprised of preliminary roadway plan sheets with the inclusion of all existing utility facility locations (overhead & underground) found within a Project's limits. Determining the location of the existing utilities shall be accomplished through an Overhead/Subsurface Utility Engineering Investigation. The "degree of effort" exerted on the part of the Department and the Utility Owner varies with the type and location of the utility. The Department has classified these "degrees of effort" into different Quality Levels of information. Refer to 999.3.E.3.c. for definitions of these Quality Levels.

2) Preliminary Utility Plans shall be produced and used by the Contractor in the utility coordination/relocation design activities outlined here and under Section 999.1. The following minimum information shall be shown on the Preliminary Utility Plans:

- a) Construction centerlines with Project stations and begin/end Project limits.
- b) Curb and gutter or edge of pavement (proposed and existing)
- c) Road and street names
- d) Existing and Required Right of Way limits, property lines, environmentally sensitive area limits, and property owners.
- e) All proposed and existing easements (including existing utility easements)

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- f) Proposed and existing drainage structures/features (excluding drainage text)
 - g) Proposed construction limits (C/F lines)
 - h) Topographical planimetrics (i.e. existing buildings/structures, existing tree/vegetation limits)
 - i) All proposed bridges, walls, other structures and landscape hardscapes.
 - j) All proposed and existing strain poles (signal, sign, lighting)
 - k) Utilities Legend
 - l) Miscellaneous General Notes
 - m) Existing overhead and underground utilities found within the Project's limits, including size and material if known.
 - n) Sanitary sewer manhole top, and invert elevations. Sanitary Sewer pipe flow directions
 - o) Railroad mainline and spur tracks with their respective property/easement limits
 - p) Project Survey control point locations
 - q) SUE specific General Notes
 - r) Utility Pole Data Table
 - s) SUE investigation Limit of study
 - t) SUE Quality Level A information

b. Final Utility Plans

- 1) Final Utility Plans consist of all the elements provided for in the Preliminary Utility Plans, but also show all proposed utility adjustments required to accommodate the Project.
- 2) The proposed utility information shall either be provided to the Contractor by each of the respective Utility Owners, Refer to Section 999.3.E to determine how proposed utility relocation design information is to be provided. In either case, The Contractor shall compile and incorporate this information into the Project's Final Utility Plans.
- 3) The proposed utility work for this Project shall either be performed by the Utility Owner or their designated contractor, or included as part of the Project's construction contract. In either case, the Final Utility

Plans shall clearly show all existing, proposed, temporary, and relocated utilities on the plans and clearly indicate the disposition of all existing utilities: for example, "To be removed", "To be Adjusted", "To be Abandoned", "To Remain", "To be Relocated", etc. The plans shall also clearly define utility work as to which is to be done by the Contractor and which is to be done by others. Utilities to be relocated (or removed, or installed) prior to construction shall be labeled on the plans as "To be relocated (or removed or installed) by others prior to Project construction".

- 4) When proposed utility work is included as part of the Project's contract, it is necessary for a Summary of Quantities to be included within the Final Utility Plans. The Summary of Quantities shown in the Final Utility plans shall be prepared in the same basic format as indicated in Section 999.3.8.
- 5) Where extensive or complex utility work is proposed to be performed, separate Utility Relocation Plan Sheets for that specific utility may be required to ensure plan legibility/constructability. The Contractor shall determine whether separate Utility Relocation Plans are needed. However, after review of the plans, the Engineer may require these additional sheets or drawing inserts to be included in the Project plan package.
- 6) In addition to the information required for the Preliminary Utility Plans, the Final Utility Plans shall include the following:
 - (a) All proposed and temporary utility facilities with annotation describing nature of work.
 - (b) Miscellaneous General Notes required for coordination of utility facilities with roadway construction.
 - (c) Proposed water and sanitary sewer plan/profiles.
 - (d) Summary of Quantities for contract items (if applicable).
 - (e) Any proposed utility easements.
 - (f) Any miscellaneous proposed utility details.

c. Overhead/Subsurface Utility Engineering (SUE)
Investigations

Employ an established engineering technology that can provide precise horizontal and vertical locations of underground and overhead utilities to produce an accurate picture of the underground and overhead utility infrastructure. The existing utility information provided in these investigations includes a description of what "degree of confidence" there is in its accuracy. The Department has classified these "degrees of confidence" into different Quality Levels of information:

- 1) Quality Level "D" Information - Information obtained solely from a review of utility records and field verification. The comprehensiveness and accuracy of such information is highly limited. Even when existing information for a utility in a particular area is accurate, there are often other underground systems that are not shown on any records. Quality Level "D" may be appropriately used early in the development of a Project to determine the presence of utilities.
- 2) Quality Level "C" Information - Information obtained to augment Quality Level "D" information. This involves topographic surveying of visible, above-ground utility features (e.g., poles, hydrants, valve boxes, circuit breakers, etc.) and entering the topographic data into the CADD system. Since aerial utility lines are not surveyed, information provided for these facilities is considered Quality Level "C" also. Quality Level "C" may be appropriately used early in the development of a Project and shall provide better data than Quality Level "D" information alone. Designers shall be very cautious when working on Projects using information for underground utilities that is based only on Quality Levels "D" and "C" locates.
- 3) Quality Level "B" Information - Information obtained through the use of designating technologies (e.g., geophysical prospecting technologies). This is an application using scanning technologies, most of which have very specific capabilities. Applying a variety of techniques is essential to the process of preparing a comprehensive horizontal map of utilities and other underground structures on the site. Designating technologies are capable of providing

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- good horizontal information.
- 4) Quality Level "A" (Test Hole) Information - Provides the highest level of accuracy of utility locations in three dimensions. This level may apply manual, mechanical or non-destructive (e.g., vacuum excavation) methods to physically expose utilities for measurement and data recording. Quality Levels "B", "C", and "D" locates are incorporated in Quality Level "A" locates.
 - 5) The Contractor shall identify all utility conflict points where verified existing utility information is necessary to avoid/minimize/identify the respective utility conflict. The Contractor shall obtain Quality Level "A" locates at these Project/utility conflict points, and shall coordinate with the Utility Owners and make every effort to avoid existing utility facilities and thereby reduce utility relocations.
 - 6) All Overhead/Subsurface Utility Engineering (SUE) shall be performed to GDOT standards by a pre-qualified firm in Area Class 5.08. Refer to the following website for a list of current prequalified firms:

<http://www.dot.ga.gov/doingbusiness/consultants/Pages/default.aspx>

4. Sheet Layout

- a. The Contractor needs to ensure that any information and graphic data that is not necessary to depict the disposition of utilities found within the Project's limits is removed by turning *off* the appropriate CADD levels(s) on which the data is stored. This will help ensure that information pertinent to utility facilities can be clearly seen in the Utility Plan sheets. Examples of extraneous information would be items such as horizontal curve data, super elevation data, roadway dimensions, misc. text, etc. All background information such as pavement limits, existing structures, etc. shall be screened back. Also, the Contractor shall ensure all text, line work, details, and symbols are clear and legible when plans are reduced to Y2 size.
- b. In order to maintain plan clarity all applicable general notes, tables, and the Utility Legend shall be placed separately from the Utility Plan sheets. A Utility Plan "Cover Sheet" shall be provided for both preliminary and final Utility Plans. A recommended example utility sheet schedule is provided below:

- 1) Utility Sheet 1 (Cover Sheet) – Utility General Notes, Utility Legend, Miscellaneous Details
- 2) Utility Sheet 2 (required as needed) - Additional Miscellaneous Details, Pole Data Table
- 3) Utility Plan Sheets- Utilities shown in plan view with respect to Project.
- 4) Utility Profile and Cross Sections Sheets - Proposed Utility facility profiles and cross sections (as required)
- 5) Miscellaneous Utilities Sheets - Miscellaneous proposed utility details (as required).

The above sheet schedule shall also be generally followed for all separate utility relocation plans (i.e. water & sewer plans) included in the Project plans.

5. Miscellaneous Notes and Other Information

- a. Note on the Utility Plans whose responsibility it is for utility adjustment. For bridge plans required, the Contractor is to make sure the plans have made accommodations for utility crossings and attachments,

if applicable. Any new utility crossings requests shall include the size, weight, and type of utility. In addition, the method of attachment to the bridge shall be fully detailed. Such requests shall be reviewed by the Contractor to ensure adequacy and constructability and final approval shall be obtained by the Contractor from the County. The Contractor shall follow the approval process within this specification. The Contractor is responsible to ensure that all proposed and existing utilities are coordinated with the respective Project's Construction Staging Plans and Erosion Control Plans.

- b. Upon completion of the Utility Relocation Plans, the Contractor needs to ensure that any additional environmental impacts due to utilities are addressed in the Project's environmental document/permit.

6. Utility As-Built Standard

- a. It shall be the responsibility of the Contractor's 3.10 Utility Coordination Consultant to manage and ensure accurate completion and delivery of all items within this section.
- b. Utility as-builts must be completed after utility relocations are completed and prior to project closeout.
- c. Provide Utility as-built plans in the Department's current CADD Software format to include each individual utility owner within the project limits.
- d. Provide one (1) final full size, three (3) half size, and one (1) pdf set of as-built utility plans to the Department to include all utilities present, abandoned or relocated within the project limits. Provide respective Utility Owners whose work was included in the contract a copy of their as-builts for review and acceptance.
- e. Ensure as-built utility plans for projects contain the following:
 - 1. Name
 - 2. Address
 - 3. Telephone number of the firm preparing the drawing
 - 4. Date the as-built plan data is collected via the revision block

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5. Surveyor's/Engineer's statement certifying that as-built plans reflect the true conditions in the field
 6. Contractors' statement (with an original signature and Project Number on the cover sheet and transmittal letter) verifying that all construction specifications and product qualities have been met.
 7. Label "AS-BUILT" DRAWING" or "RECORD DRAWING" on each sheet
 8. Label all Street names
 9. Label all easements and right-of-ways
 10. Identify and label the location and elevation of the benchmark referenced (If the referenced benchmark is not within the project limits, then a complete description of its location will be provided to assist in future locating).
 11. Label any changes in details of design and/or additional supporting information such as approved placement details, pipe sizes, material changes, geo-coded photos, etc.
- f. Ensure the as-built plans provide detailed and accurate information, in a useful format. Discretion must be employed by the draftsman regarding the functional quality of the plans. If too much information is included on one sheet as to make their use impractical, a second, or third, drawing sheet may be necessary.
- g. Survey all underground utilities that were excavated or relocated, to include abandoned lines discovered during excavation within the project limits to determine the exact location and position of the utility line. This should include, but not limited to outside diameter of pipe or width of duct banks and configuration of non-encased multi-conduit systems, utility structure material compositions and condition; as well as identification of benchmarks used to determine elevations. Ensure elevations have an accuracy of +/- 0.05-ft and certified accurate to the benchmarks used to determine elevations. Horizontal data accurate to within +/- 0.2 ft. or applicable survey standards, whichever is more precise. Record and label the

average depth below the surface of each run, all change of direction points, and all surface or underground components such as valves, manholes, drop inlets, clean outs, meters, etc.

- h. For relocated aerial facilities:
 - 1. Record the following information to including but not be limited to the pole owner, age, pole size, pole height, pole number, the material type, the general condition of the utility.
 - 2. Record the horizontal location of existing poles for aerial utility facilities. Ensure horizontal surveying of existing poles for overhead utility facilities is surveyed to the same accuracies and precision as is required for the topographic data.
 - 3. Determine the aerial utility owners (in addition to the pole owner) attached to the pole and correctly show the horizontal connectivity 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 County in digital and reproducible certified plan sheet format.
- i. Submit completed electronic files and reproducible as-built utility plan sheets to the Engineer for review and comments. Revise and make changes or adjustments to the utility related data as necessary. Work will not be considered complete until the Contractor has responded to the comments from this review to the satisfaction of the Engineer.
- j. Assemble and present as-built plans in a format compatible with the County's current CADD systems (MicroStation and InRoads) for use by the DEPARTMENT'S staff and ensure the MicroStation and InRoads files are developed in accordance with the DEPARTMENT'S current Electronic Utility File Guidelines.
- k. For each utility facility/owner, prepare and deliver one copy of the "as-built" or "record" plan to the County. There shall be an "as-built" or "record" for each utility on the project, whether the utility work is included in the contract price, or the utility work is performed by the utility owner or the utility's contractor.

1. Hydrological System Evaluation

- a. Submit a report letter detailing the hydrological evaluation of the system and recommendations. Reports must contain sufficient descriptive text, written in a coherent, professional technical style, to adequately explain the existing site conditions and to adequately support any computations, tables, or graphics. The English Engineering System of units will be used for all physical quantities; and, except for dimensionless numbers, the units of all numbers will be clearly expressed. All maps and plans will have a scale, a north arrow, and a title. All reports will be stamped/sealed, signed and dated by a professional engineer registered in Georgia.
- b. Ensure report letter includes all essential information as required by Special Provision Section 999.3.E. Department. In general, letter reports are to be written on the Contractor's official letterhead and are to contain an introduction, findings, conclusions, and recommendations. Ensure reports contain any drawings, figures, data tables, maps, etc. necessary to support the findings and conclusions. Neat sketches in electronic format when warranted are acceptable for inclusion into a letter report. Ensure the letter report includes professional recommendations of further investigation required to fulfill the requirements set forth in Phase 2 referenced in 999.3.E.3 below.
- c. Collect, review, and analyze available information about the existing stormwater system serving the programmed roadway segment, including, but not limited to, property plats, existing Department plans, USGS maps, Department GIS files, and county public works records and GIS files.
- d. Determine the actual location and physical attributes of the stormwater system structures, pipelines, and BMPs using appropriate surveying and data collecting techniques;
- e. Evaluate and record the physical condition and operational integrity of each stormwater structure, conveyance line, and BMP;
- f. Make a photographic record of each structure. (If

cleaning is required, produce before-and-after shots for verification of payment, note the location and milepost to the nearest tenth of a mile, and date the photo. Ensure photos are geocoded with the longitude and latitude information in decimal degrees WGS 1984 within the photo header information.

- g. Submit a File GeoDatabase in a compressed Zip file of stormwater and drainage features, metadata, and associated media files to the Department.

2. GeoDatabase and Media Files

- a. Provide location, physical attribute information, drainage area and outfall location for each structure in the existing stormwater system to the Department's GIS in a compatible format as specified in 999.3.G.5.
- b. Specific items to be addressed during any field evaluation include, but are not limited to:
 - 1) Each stormwater system that is wholly or partially located within the project area will be studied from the upstream point where it enters the project area to the downstream point where it exits.
 - 2) Structures to be studied include, but are not limited to:
 - (a) Detention Facilities/Ponds
 - (b) Permanent Water Quality BMP's
 - (c) Drop inlets
 - (d) Catch basins
 - (e) Hooded grated inlets
 - (f) Junction boxes
 - (g) Headwalls
 - (h) Flared end sections
 - (i) Pipe ends
 - (j) Outlet structures
 - (k) Culverts
 - (l) Pipelines
 - (m) Paved ditches
 - (n) Unpaved ditches

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- (o) Non-standard structures
 - 3) Physical attributes to be determined include, as applicable:
 - (a) Identification number
 - (b) Invert elevations
 - (c) Material(s)
 - (d) Sizes
 - (e) Standard GDOT types
 - (f) Pipelines entering and exiting structures
 - (g) Upstream and/or downstream structures
 - (h) Horizontal and vertical location
 - (i) Profiles and sections
 - (j) Receiving body of water
 - (k) Blockage
 - 4) Other data required to completely describe the system

3. Final Deliverable

- a. Prepare a final GeoDatabase and an updated map of the existing stormwater system within the deliverable corridor in accordance with all applicable requirements in this document, and ensure references to media files are valid, uniform, and compatible with the final storage location on the GDOT IT server.
- b. Work with the Highway Maintenance Management System (HMMS) to populate an HMMS reference ID within the conveyances feature class.
- c. Submit the final updated GeoDatabase to the Department for incorporation into the Department's Enterprise GIS.

4. GIS Services

- a. Assemble and present information gathered in a format compatible with the County's GIS and CADD systems (MicroStation) for use by the County's staff.
- b. Develop the GIS and MicroStation files in accordance with the Department's GIS conventions and EDG, current edition (unless otherwise indicated by the Engineer).

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- c. Submit completed electronic files to the Engineer for review and comments.
 - d. Work will not be considered complete until the Contractor has addressed all comments from all reviews to the satisfaction of the Engineer.
 - e. Collect all applicable field data on stormwater structures, pipes, conveyances, and outfalls by means of GIS or survey-grade GPS receivers and/or traditional surveying methods and by direct inspection, and/or geophysical sensing methods. The Department will provide the Contractor with access to base maps via published data services and Enterprise GIS File Geodatabase exports by request. Upon completion of data collection, submit a File GeoDatabase containing the relevant feature classes with metadata in a compressed Zip file. Include required associated media files such as storm structure pictures. Ensure all GIS project files are submitted in a format compatible in Esri ArcGIS versions specified in 13-6 IT Development Procedures and is approved by the Engineer.
 - f. As part of the QA/QC program, report the name, model, and manufacturer of the equipment used for surveying. Include Positional Dilution of Precision (POOP), Horizontal Dilution of Precision (HOOP), and Vertical Dilution of Precision (VDOP) measures associated with GPS features collected. Include date and time stamps. Include flags indicating method of post processing or differential correction. Document the procedures and settings used to ensure the specified accuracy is obtained, including the use of offsets, instrument calibration, and spot-checking survey data accuracy. As part of the field procedures, spot-check observational data including, but not limited to, conveyance type, material, and condition; structure type, material, and condition; sizes; shapes; and lengths. Document accuracy as per National Standard for Spatial Data Accuracy (FGDC-STD-007.3-1998) specification or National Map Accuracy standards for map accuracy and scale specifications of the Geodatabase feature classes.
 - g. Ensure conformance with the current schema provided by the Department at the time of issuance of the task order. The Data Dictionary contains the XML schema

with style sheet for display. The Data Dictionary shows the minimum required stormwater and drainage infrastructure data unless otherwise noted. Include at a minimum the items specified in the Department's current SSAP/MS4 Deliverable Checklist. Ensure conformance with the current SSAP/MS4 Condition Grading System Code Matrix for the stormwater and drainage infrastructure.

5. Certification

- a. For the purpose of this agreement, "Certification" or "certified" means to professionally seal the completed work product. Certify all completed services by a responsible registered professional in the State of Georgia, in the full employ of the Contractor on the plans. Ensure the accuracy of all information presented to the Department complies with the requirements of Special Provision Section 999.3.E.

3.4.15 CONSTRUCTION (999.4)

Ensure the Project is constructed as per the Project scope and as per the accepted "Released for Construction" plans in accordance with the Specifications. No construction will begin on any phase of the work prior to the County providing written authorization to the Contractor to begin land disturbing activities. Deliver two (2) full size and four (4) half size sets of the "Released for Construction" plans to the County at least 1 (one) week prior to the Contractor performing initial land disturbing activities. Deliver all subsequent "Released for Construction" plans at least twenty-four (24) hours before commencing land disturbing activities. All plans submitted to the County for use on construction shall include all applicable Standards and Details required in the Work.

Construction includes, but is not limited to, the following:

- A. All clearing and grubbing and grading required in accordance with GDOT's Sections 201, 202, 205, 206, 208 and 209. All necessary grading and drainage to construct the subgrades, including the removal and replacement of unsuitable material, shoulders and incidental work to include furnishing borrow pits, waste disposal areas and hauling borrow and waste materials as required. Ensure the removal and replacement

of unsuitable material.

- B. All necessary culvert extensions include removal and replacement of headwalls, aprons and rip-rap. Ensure existing culverts are analyzed for structural sufficiency for new fills. Where the existing culvert is not structurally sufficient, remove the deficient portion of the culvert and replace utilizing appropriate excavation and shoring as needed. Alternate methods of construction may be submitted to the Department for approval.
- C. All necessary base construction, milling, leveling, asphalt paving and concrete paving to construct the pavement structure.
- D. Removal of all curbs, drainage structures, pavements, bases and sub-bases, or other obstructions within the rights of way as necessary to construct the roadway section.
- E. All signing, interstate signage including sign structures, signalization, pavement marking, raised pavement markers, and guardrail.
- F. Ensure storing of any equipment and materials on the Project outside of the active clear zone.
- G. Errors and omissions are the responsibility of the Contractor to correct and at the expense of the Contractor.
- H. No existing materials removed from the Project shall be reused. Coordinate the removal and disposal of all Signing and ATMS items with the County. All remaining material shall be disposed of properly by the Contractor in accordance with all Local, State and Federal laws.
- I. Preparation of As-Built Construction Plans.

3.4.16 MEASUREMENT AND PAYMENT (999.5)

The Work required under this Specification will not be measured separately for payment unless otherwise specified. Payment for the items listed below, complete and accepted, will be made at the Lump Sum price bid. Payment shall be full compensation for furnishing all materials, labor, tools, equipment, superintendence, mailing charges, removal and replacement of unsuitable material and other incidentals. It shall also be made for performing all work specified,

including but not limited to, designing, detailing, producing construction plans (preliminary and final, electronic and hard copy), meeting with the County, processing the NOI and complete construction.

Provide a detailed estimate with the Release for Construction plans. Partial payments of the Lump Sum price will be made on monthly statements based on an accepted schedule of values and detailed estimate. Develop a schedule of values with sufficient breakdown for each of the following items:

- DESIGN COMPLETE
- CONSTRUCTION COMPLETE

Include the schedule for values a rational basis for partial payments of the Lump Sum bid based on the completed portion of the item and definitive activities. Submit the schedule for values to the Engineer. No payments will be made until the schedule of values is accepted.

No payment for mobilization will be made until the County issues written authorization that plans are "Released for Construction". Payment for mobilization shall not exceed 2.5% of the overall bid price for Construction Complete. The Contractor shall submit a detailed breakdown of mobilization in the proposed schedule of values for acceptance.

Contractor shall work with the Engineer to establish estimated earthwork, asphalt, and concrete quantities, as this will determine the frequency of required testing by the County.

No later than the 25th day of each month, provide the County with a certification showing the percentage completed for each item of work. Include a breakdown and supporting documentation, to include the Design Consultant's monthly invoice, in sufficient detail to substantiate the percentage completed certified.

Payment shall be made under:

- DESIGN COMPLETE LUMP SUM
- CONSTRUCTION COMPLETE..... LUMP SUM

QUALIFICATIONS PACKAGE (999.6)

3.5 PROJECT DELIVERABLES

Deliverables will be rendered at 30%, 60% and 100% milestones of deliverables associated with each task order that is issued. All applicable Federal, State laws; and County ordinances, codes, rules and regulations of all authorities having

jurisdiction over the construction of the project shall be followed.

3.6 PROJECT SCHEDULE

Proposer shall submit their proposed project schedule with their response to this RFP and per plan specifications.

3.7 TECHNICAL PROPOSAL FORMAT AND CONTENT

The Technical Proposal shall include the appropriate and requested information in sufficient detail to demonstrate the Proposer's knowledge, skills and abilities to provide requested services and will be reviewed and evaluated based on each Proposer's responses to the criteria described below.

The Technical Proposal shall be arranged and include content as described below:

Section 1 - Executive Summary

Proposer shall submit and provide an overview of their Design/Build Team's experience and project approach to this solicitation.

A. Organization

1. Provide basic company information for the **D/B Team**, which includes:
 - a. Company name
 - b. Company address
 - c. Name of primary contact and all contact information including telephone number(s) and E-mail address.
 - d. Company website (if available)
 - e. If the firm has multiple offices, the qualification statement shall include information about the parent company and branch office separately. Identify office from which project will be managed.
 - f. Provide form of ownership, including state of residency or incorporation, and number of years in business. Is the offeror a sole proprietorship, partnership, corporation, Limited Liability Corporation (LLC), joint venture, or other structure?
2. Provide an organizational chart that reflects the makeup of the D/B Team, which includes the reporting structure.

-
3. Briefly describe the history and growth of your Design-Build Prime Team. Provide general information about the Design-Build Prime Team's personnel resources, including disciplines and numbers and classifications of employees, and locations and staffing of offices.

B. Experience and Qualifications

Provide an organization chart indicating all proposed participating Firms and their proposed role in the Design-Build project. **The Lead Design Consultant Project Manager, D/B Project Manager, Superintendent and all Key Team Members, including sub-contractors,** should be identified and their function indicated.

1. Provide description of experience for the Design-Build Team's Lead Design Consultant on projects of similar, size, function, and complexity. Describe no more than five (5) design projects in order of most relevant to least relevant; which demonstrate the Design-Build Team's Lead Design Consultant required minimum qualifications. For each project, the following information should be provided:
 - a. Project name, location and dates during which services were performed.
 - b. Brief description of project.
 - c. Services performed by your Firm.
 - d. Current Client contact information including contact names and telephone numbers.
2. Provide description of experience for the Design-Build Team's Lead Contractor on projects of similar, size, function, and complexity. Describe no more than five (5) construction projects in order of most relevant to least relevant, which demonstrate the Lead Contractor's required minimum qualifications. For each project, the following information should be provided:
 - a. Project name, location and dates during which services were performed.
 - b. Brief description of project.
 - c. Services performed by your Company.
 - d. Current Client contact information including contact names and telephone numbers.
3. Provide information pertaining to the **Lead Design Consultant Project Manager** including but not limited to:
 - a. Education.

- b. Registration (if necessary and applicable.)
 - c. Relevant engineering experience.
 - d. Relevant project management experience for projects of similar complexity, size, scope, and function (no more than four (4) projects).
 - e. Any relevant experience utilizing GDOT specific processes, manuals, or guidance (Plan Development Process, Design Policy, Environmental Procedures Manual, etc.)
4. Provide information pertaining to the **D/B Project Manager** including but not limited to:
- a. Education.
 - b. Registration (if necessary and applicable.)
 - c. Relevant construction experience.
 - d. Relevant project management experience for projects of similar complexity, size, scope, and function (no more than four (4) projects).
 - e. Any relevant experience utilizing GDOT specific processes, manuals, or guidance.
 - f. Provide a list of all projects on which the proposed project manager is currently committed, to enable the County to ascertain the project manager's availability. Utilize the following table format or provide the requested information:

Client	Client Contact	PI/Project Number	Current Phase of Project	Current Status of Project

5. Provide information pertaining to the **D/B Superintendent** including but not limited to:
- a. Education.
 - b. Registration (if necessary and applicable.)
 - c. Relevant construction experience.
 - d. Relevant project management experience for projects of similar complexity, size, scope, and function (no more than five (5) projects).
 - e. Any relevant experience utilizing GDOT specific processes, manuals, or guidance.
 - f. Provide a list of all projects on which the proposed project

manager is currently committed, to enable the County to ascertain the project manager's availability. Utilize the following table format or provide the requested information:

Client	Project Manager	PI/Project Number	Current Phase of Project	Current Status of Project

Proposer shall provide a Team Directory showing each team member and include the following for each team member listed: firm name; corporate home office location; address, phone number and e-mail addresses.

Section 2 - Project Plan

Proposer shall submit a Project Plan that shall contain the following information:

1. Name and corporate headquarter address, telephone number and e-mail address of one (1) individual to whom all future correspondence and/or communications will be directed from the prime Proposer's firm.
2. **Project Plan:** Proposer shall describe their approach in tracking the each phase in completing the work identified in Section 3.3 *General Description* and Section 3.4 *Scope of Work, Plan Specifications and Drawings* and must identify all major tasks; planned reviews of work associated with each major task, at a minimum, and any other information that will assist in the planning and tracking this project successfully. A description of methodologies, including best practices and benchmarks to be used shall be included.
 - A. **Project Approach Work Plan:** Proposer shall provide a project approach work plan that summarizes their quality control, method for coordination of disciplines, production methods, cost control, schedule control measures, goals and objectives.
 - B. **Project Schedule Control:** Proposer shall demonstrate their understanding of the task order contract, and any potential problems and concerns. Schedules will be required for each task order. The schedule shall show the schedule control milestones and events through each phase of the design and engineering work, including County decision points and reviews and approvals by the County and permitting authorities having jurisdiction.

-
- C. **Project Cost Control:** Proposer shall describe the construction cost estimating control used in designing and engineering each within the established budget. The Plan must show special cost control milestones and events through each phase of the design and engineering work; include County decision points, reviews and approvals by the County and permitting authorities having jurisdiction; quantity updates and alternatives.

Section 3 - Availability of Key Personnel

1. Proposer shall show the percentage of time key personnel will spend on this project during each phase of the project and provide information on the availability of all personnel proposed for this project assuming a NTP will be issued two (2) months from the date of proposal submittal. Response shall include a complete description of other commitments and anticipated completion dates for the personnel assigned to this project.
2. Current workload of key personnel

Section 4 - Local Preference

Local Preference is given to businesses that have a business location within the geographic boundaries of Fulton County. The term business location means that the business has a staffed, fixed, physical place of business located within Fulton County and has had the same for at least one (1) year prior to the date of the business' submission of its proposal or bid, as applicable and has had held a valid business license from Fulton County or a city located within Fulton County for the business at a fixed, physical, place of business, for at least one (1) year prior to the date of the business' submission of its proposal or bid as applicable.

In order to receive the Local Preference points of five (5) points the Proposer must meet one (1) of the following criteria, provide supporting documentation as required and certify under oath that it is eligible to receive the local preference points by signing and submitting Form H, Local Preference Affidavit located in Section 5 of this RFP.

The Proposer must indicate which one (1) of the following criteria they will utilize in order to receive local preference:

1. Business having a business location within the geographic boundaries of Fulton County.

The following supporting documentation must be provided:

- Copy of occupational tax certificate (business license) form Fulton County or a city located within Fulton County, or;
- Copy of a lease or rental agreement, or;
- Proof of ownership interest in a location within the geographical boundaries of Fulton County.

2. Businesses where at least fifty-one percent (51%) of the owners of the business are residents of Fulton County but the business is located outside of Fulton County.

The following supporting documentation must be provided:

- Provide the residential address of the business owner(s).
3. Businesses where at least fifty-one percent (51%) of the employees of the business are residents of Fulton County but the business is located outside of Fulton County.

The following supporting documentation must be provided:

- Provide a list of all employees name and address.

Failure to provide the required supporting documentation with your proposal submittal shall result in your firm receiving a "0" (zero) for Local Preference. In the event the affidavit or other declaration under oath is determined to be false, such business shall be deemed "non-responsive" and shall not be considered for award of the applicable contract.

Section 5 – Service Disabled Veterans Preference

Service Disabled Veterans Business Enterprise Preference is given to businesses that are independent and continuing operations for profit, performing commercially useful functions, and which are owned and controlled by one or more individuals who are disabled as a result of military service who have been honorably discharged, designated as such by the United States Department of Veterans Affairs, and is located within the geographic boundaries of Fulton County. The Service Disabled Veteran Business Enterprise ("SDVBE") must be certified as such by the County's Office of Contract Compliance.

In order to receive the SDVBE Preference points the Proposer must submit a copy of their certification letter from the Office of Contract Compliance and certify under oath that it is eligible to receive the SDVBE preference points by signing and submitting Form I, Service Disabled Veterans Preference Affidavit located in Section 5 of this RFP.

Section 6 – Cost

The respondent with the lowest total cost will receive the full 13 points. For respondents with the second, third, fourth, etc., their total costs will be divided into the lowest cost and multiplied by 13, the total points allowed for cost.

The County has established the following formula to evaluate cost proposals for Request for Proposals (RFP):

Lowest cost submitted

Each successive cost \times Points allocated for cost in RFP = Cost proposal score

Section 7 – Past Performance

The County will determine responsibility based on the following criteria for the proposer recommended by the Evaluation Committee:

1. Proposer must have, at a minimum, five (5) years relevant experience performing Design/Build services for entities comparable to the size of Fulton County within the past five (5) years.
 - The name of the project, the owner, year performed and the project location.
 - Facility description, a photo of the interior and exterior of the facility, indicate size, functions housed, completed cost, and, year completed.
 - Services the proposing firm provided.
 - Indicate whether participation was as the prime or sub-consultant.
 - A reference, including a contact name, addresses and phone number. This reference should be the owner's staff member who was in charge of the project for the owner.

Section 8 – Proposer Financial Information

It is the policy of the County to conduct a review of a firm's financial responsibility in order to determine the firm's capability to successfully perform the work.

If submitting as a Joint Venture, Partnership, Limited Liability Corporation or Limited Liability Partnership, the financials must be submitted for each entity that comprises the prime contractor.

The following documentation is required in order for the County to evaluate financial responsibility:

1. Provide your firm's most recent balance sheets.

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2. Provide your firm's most recent Dun & Bradstreet, Value Line Reports or other credit ratings/report.
 3. Identify any evidence of access to a line or letter of credit. The evidence must be provided by a financial institution.
 4. Provide a sworn statement that your firm has not filed petition(s) for federal bankruptcy or state insolvency. The statement must be notarized.

Section 9 – Disclosure Form and Questionnaire

It is the policy of Fulton County to review the history of litigation of each Proposer that includes bankruptcy history, insolvency history, civil and criminal proceedings, judgments and termination for cause in order to determine whether a firm's business practices, legal practices and overall reputation in the industry is one that would be acceptable to perform work for Fulton County. The Disclosure Form and Questionnaire is provided in Section 5, Proposal Forms, Form D.

3.8 COST PROPOSAL FORMAT AND CONTENT

The Cost Proposal shall be provided in a **separate sealed envelope**. The Cost Proposal shall include current information and shall be arranged and include content as described below:

Section 1 - Introduction

The Proposer shall include an introduction which outlines the contents of the Cost Proposal.

Section 2 - Completed Cost Proposal Forms

The Proposer is to complete each category of the Cost Proposal form and submit their Total Amount Base Proposal pricing. The cost will be evaluated on the Total Amount Base Proposal that includes the Owner Controlled contingency. The Alternate No. 1, Alternate No. 2 and Alternate No. 3 Cost Proposal Forms must be submitted with the proposal package. See Attachment B.

The successful Proposer will be selected on the basis of Proposal Evaluation Criteria and their Total Amount Base Proposal Cost Proposal submittal as required in the solicitation document.

ATTACHMENT B
COST PROPOSAL FORM
(REVISED)

COST PROPOSAL FORM

THE FOLLOWING COST PROPOSAL FORM SHALL BE USED FOR SUBMITTING

The Total Amount Base Proposal Pricing

We propose to furnish all design, architecture, engineering and construction services called for by the Proposal Documents for the following lump sum fees:

PHASE ONE – SIDEWALK IMPROVEMENTS

ITEM	PER HOUR COST	QUANTITY	TOTAL COST
1. Design-Builder's Fee			
2. Architectural and Engineering Services Fee			
3. General Conditions (Construction) Fee			
4. Owner-Controlled Contingency			\$50,000.00
5. TOTAL AMOUNT - BASE PROPOSAL (lines 1-4)			

COST PROPOSAL FORM

THE FOLLOWING COST PROPOSAL FORM SHALL BE USED FOR SUBMITTING

The Alternate #1 Pricing

ALTERNATE #1

PHASE TWO – OFF ROAD PEDESTRIAN BRIDGES

ITEM	PER HOUR COST	QUANTITY	TOTAL COST
1. Design-Builder's Fee			
2. Architectural and Engineering Services Fee			
3. General Conditions (Construction) Fee			
4. Owner-Controlled Contingency			\$50,000.00
5. TOTAL AMOUNT – ALTERNATE #1 (lines 1-4)			

COST PROPOSAL FORM

THE FOLLOWING COST PROPOSAL FORM SHALL BE USED FOR SUBMITTING

The Alternate #2 Pricing

ALTERNATE #2

PHASE TWO – REPLACEMENT OF EXISTING BRIDGES WITH SIDEWALKS

ITEM	PER HOUR COST	QUANTITY	TOTAL COST
1. Design-Builder's Fee			
2. Architectural and Engineering Services Fee			
3. General Conditions (Construction) Fee			
4. Owner-Controlled Contingency			\$50,000.00
5. TOTAL AMOUNT – ALTERNATE #2 (lines 1-4)			

COST PROPOSAL FORM

THE FOLLOWING COST PROPOSAL FORM SHALL BE USED FOR SUBMITTING

The Alternate #3 Pricing

ALTERNATE #3

**PHASE TWO – OFF ROAD PEDESTRIAN BRIDGES WITH MINOR
IMPROVEMENTS TO EXISTING BRIDGES AND PARAPETTE WALLS**

ITEM	PER HOUR COST	QUANTITY	TOTAL COST
1. Design-Builder's Fee			
2. Architectural and Engineering Services Fee			
3. General Conditions (Construction) Fee			
4. Owner-Controlled Contingency			\$50,000.00
5. TOTAL AMOUNT – ALTERNATE #3 (lines 1-4)			

ATTACHMENT C

**SECTION 8
PROPOSAL BOND**

PROPOSAL BOND

The Public Works Construction Law , 36-91-50(a), requires all bidders to submit Bid Bonds for all public works construction contracts with estimated bids or proposals over \$100,000.

No bid for a contract in Fulton County for work to be done shall be valid for any purpose unless the Contractor shall give a Bid Bond with good and sufficient surety payable to, in favor of, and for the protection of Fulton County. The Bid Bond shall not be less than 5% of the total amount payable by the terms of the Contract. No bid shall be read aloud or considered if a proper bid bond has not been submitted.

Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Georgia.

Attestation for the corporation must be by the corporate officer; for a partnership by another partner; for an individual by a notary with the corporate seal.

PROPOSAL BOND

**#14RFP95820K-JD
DESIGN/BUILD SERVICES FOR FAIRBURN ROAD FROM VILLAGE DRIVE TO
NORTH UTOY CREEK ROAD, BRIDGE, AND SIDEWALK IMPROVEMENTS
PROJECT**

FULTON COUNTY GOVERNMENT

KNOW ALL MEN BY THESE PRESENTS, THAT WE _____

_____ hereinafter called the PRINCIPAL, and _____

_____ hereinafter call the SURETY, a corporation chartered and existing under the laws of the State of _____ and duly authorized to transact Surety business in the State of Georgia, are held and firmly bound unto the Fulton County Government (COUNTY), in the penal sum of _____ Dollars and Cents (\$ _____) good and lawful money of the United States of America, to be paid upon demand of the COUNTY, to which payment well and truly to be made we bind ourselves, our heirs, executors, and administrators and assigns, jointly and severally and firmly by these presents.

WHEREAS the PRINCIPAL has submitted to the COUNTY, for **#14RFP95820K-JD DESIGN/BUILD SERVICES FOR FAIRBURN ROAD FROM VILLAGE DRIVE TO NORTH UTOY CREEK ROAD, BRIDGE, AND SIDEWALK IMPROVEMENTS PROJECT**, a RFP;

WHEREAS the PRINCIPAL desires to file this Bond in accordance with law:

NOW THEREFORE: The conditions of this obligation are such that if the Bid be accepted, the PRINCIPAL shall within ten (10) calendar days after receipt of written notification from the COUNTY of the award of the Contract execute the Contract in accordance with the Bid and upon the terms, conditions and prices set forth therein, in the form and manner required by the COUNTY, and execute sufficient and satisfactory Performance and Payments Bonds payable to the COUNTY, each in the amount of one hundred percent (100%) of the total contract price, in form and with security satisfactory to said COUNTY, then this obligation to be void; 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 COUNTY, upon demand the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.

In the event suit is brought upon this Bond by the COUNTY and judgment is recovered, the SURETY shall pay all costs incurred by the COUNTY in such suit, including attorney's fees to be fixed by the Court.

**SECTION 8
PROPOSAL BOND**

Enclosed is a Bid Bond in the approved form, in the amount of _____ Dollars

(\$ _____) being in the amount of five percent (5%) of the Contract Sum.

The money payable on this bond shall be paid to the COUNTY, for the failure of the Bidder to execute a Contract within ten (10) days after receipt of the Contract and at the same time furnish a Payment Bond and Performance Bond.

IN TESTIMONY THEREOF, the PRINCIPAL and SURETY have caused these presents to be duly signed and sealed this _____ day of _____, 200_.

ATTEST:

PRINCIPAL

BY _____

(SEAL)

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____, certify that I am the Secretary of the Corporation named as principal in the within bond; that _____, who signed the said bond of said corporation; that I know this signature, and his/her signature thereto is genuine; and that said bond was duly signed, sealed and attested for in behalf of said Corporation by authority of its governing body.

SECRETARY

(CORPORATE SEAL)

SURETY

BY _____

(SEAL)

ATTACHMENT D

SECTION 9

BONDING REQUIREMENTS

SECTION 9 BONDING REQUIREMENTS

Payment Bond – the Design/Build Company awarded the contract for the project must provide a Payment Bond in the amount equal to one hundred percent (100%) of the Design-Build Price prior to the execution of the Contract.

Performance Bond– the Design/Build Company awarded the contract for the project must provide a Performance Bond in the amount equal to one hundred percent (100%) of the Design-Build Price prior to the execution of the Contract.

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS that [insert name of contractor] (hereinafter called the "Principal") and [insert name of surety] (hereinafter called the "Surety"), are held and firmly bound unto **FULTON COUNTY**, a political subdivision of the State of Georgia (hereinafter called the "Owner"), its successors and assigns as obligee, in the penal sum of [100% of contract amount], lawful money of the United States of America, for the payment of which the Principal and the Surety bind themselves, their administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered, or is about to enter, into a certain written contract with the Owner, dated [insert date of contract], which is incorporated herein by reference in its entirety (hereinafter called the "Contract"), for construction-type services of a project known as **#14RFP95820K-JD – Design/Build Services for Fairburn Road from Village Drive to North Utoy Creek Road, Bridge, and Sidewalk Improvements Project**, as more particularly described in the Contract (hereinafter called the "Project");

NOW, THEREFORE, the condition of this obligation is such that if the Principal shall promptly make payment to all persons working on or supplying labor or materials under the Contract, and any amendments thereto, with regard to labor or materials furnished and used in the Project, and with regard to labor or materials furnished but not so used, then this obligation shall be void; but otherwise it shall remain in full force and effect.

1. A "Claimant" shall be defined herein as any subcontractor, person, party, partnership, corporation or the entity furnishing labor, services or materials used, or reasonably required for use, in the performance of the Contract, without regard to whether such labor, services or materials were sold, leased or rented, and without regard to whether such Claimant is or is not in privity of contract with the Principal or any subcontractor performing work on the Project, including, but not limited to, the following labor, services, or materials: water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.

2. In the event a Claimant files a lien against the property of the Owner, and the Principal fails or refuses to satisfy or remove it promptly, the Surety shall satisfy or remove the lien promptly upon written notice from the Owner, either by bond or as otherwise provided in the Contract.

3. The Surety hereby waives notice of any and all modifications, omissions, additions, changes, alterations, extensions of time, changes in the payment terms, and any other amendments in or about the Contract and agrees that the obligations undertaken by this Bond shall not be impaired in any manner by reason of any such modifications, omissions, additions, changes, alterations, extensions of time, changes in payment terms, and amendments.

4. The Surety hereby agrees that this Bond shall be deemed amended automatically and immediately, without formal or separate amendments hereto, upon any amendment or modifications to the Contract, so as to bind the Principal and Surety, jointly and severally, to the full payment of any Claimant under the Contract, as amended or modified, provided only that the Surety shall not be liable for more than the penal sum of the Bond, as specified in the first paragraph hereof.

5. This Bond is made for the use and benefit of all persons, firms, and corporations who or which may furnish any materials or perform any labor for or on account of the construction-type services to be performed or supplied under the Contract, and any amendments thereto, and they and each of them may sue hereon.

6. No action may be maintained on this Bond after one (1) year from the date the last services, labor, or materials were provided under the Contract by the Claimant prosecuting said action.

7. This Bond is intended to comply with O.C.G.A. Section 13-10-1, and shall be interpreted so as to comply with the minimum requirements thereof. However, in the event the express language of this Bond extends protection to the Owner beyond that contemplated by O.C.G.A. Section 13-10-1, or any other statutory law applicable to this Project, then the additional protection shall be enforced in favor of the Owner, whether or not such protection is found in the applicable statutes.

IN WITNESS WHEREOF, the Principal and Surety have hereunto affixed their corporate seals and caused this obligation to be signed by their duly authorized representatives this _____ of _____, _____.

_____(SEAL)
(Principal)

By: _____

Attest:

Secretary

_____(SEAL)
(Surety)

By: _____

Attest:

Secretary

(Address of Surety's Home Office)

(Resident Agent of Surety)

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS that _____
(Insert name of Contractor)

(hereinafter called the "Principal") and _____ (hereinafter called the
(Insert name of Surety)

"Surety"), are held and firmly bound unto **FULTON COUNTY**, a political subdivision of the State of Georgia (hereinafter called the "Owner"), its successors and assigns, in the penal sum of _____ [100% of Contract amount], lawful money of the United States of America, for the payment of which the Principal and the Surety bind themselves, their administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered, or is about to enter, into a certain written contract with the Owner, dated _____, which is incorporated herein by reference in its entirety (hereinafter called the "Contract"), for construction-type services of a project known as **#14RFP95820K-JD – Design/Build Services for Fairburn Road from Village Drive to North Utoy Creek Road, Bridge, and Sidewalk Improvements Project**, as more particularly described in the Contract (hereinafter called the "Project");

NOW, THEREFORE, the conditions of this obligation are as follows, that if the Principal shall fully and completely perform all the undertakings, covenants, terms, conditions, warranties, and guarantees contained in the Contract, including all modifications, amendments, changes, deletions, additions, and alterations thereto that may hereafter be made, then this obligation shall be void; otherwise it shall remain in full force and effect.

Whenever the Principal shall be, and declared by the Owner to be, in default under the Construction-Type Contract, the Surety shall promptly remedy the default as follows:

1. Complete the Contract in accordance with its terms and conditions; or, at the sole option of the Owner,
2. Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by the Surety and the Owner of the lowest responsible bidder, arrange for a contract between such bidder and Owner and make available as the work progresses (even though there should be a default or succession of defaults under the Contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the penal sum set forth in the first paragraph hereof, as may be adjusted, and the Surety shall make available and pay to the Owner the funds required by this Paragraph prior to the payment of the Owner of the balance of the contract price, or any portion thereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by the Owner to the Contractor under the Contract, and any amendments thereto, less the amount paid by the Owner to the Contractor; or, at the sole option of the Owner,
3. Allow Owner to complete the work and reimburse the Owner for all reasonable costs incurred in completing the work.

In addition to performing as required in the above paragraphs, the Surety shall indemnify and hold harmless the Owner from any and all losses, liability and damages, claims, judgments, liens, costs and fees of every description, including reasonable attorney's fees, litigation costs and expert witness fees, which the Owner may incur, sustain or suffer by reason of the failure or default on the part of the Principal in the performance of any or all of the terms, provisions, and requirements of the Contract, including any and all amendments and modifications thereto, or incurred by the Owner in making good any such failure of performance on the part of the Principal.

The Surety shall commence performance of its obligations and undertakings under this Bond promptly and without delay, after written notice from the Owner to the Surety.

The Surety hereby waives notice of any and all modifications, omissions, additions, changes, alterations, extensions of time, changes in payment terms, and any other amendments in or about the Contract, and agrees that the obligations undertaken by this Bond shall not be impaired in any manner by reason of any such modifications, omissions, additions, changes, alterations, extensions of time, change in payment terms, and amendments.

The Surety hereby agrees that this Bond shall be deemed amended automatically and immediately, without formal or separate amendments hereto, upon any amendment to the Contract, so as to bind the Principal and the Surety to the full and faithful performance of the Contract as so amended or modified, and so as to increase the penal sum to the adjusted Contract Price of the Contract.

No right of action shall accrue on this Bond to or for the use of any person, entity or corporation other than the Owner and any other obligee named herein, or their executors, administrators, successors or assigns.

This Bond is intended to comply with O.C.G.A. Section 36-91-1 et seq., and shall be interpreted so; as to comply with; the minimum requirements thereof. However, in the event the express language of this Bond extends protection to; the Owner beyond that contemplated by O.C.G.A. Section 36-91-1 et seq. and O.C.G.A. Section 13-10-1, as amended, or any other statutory law applicable to this Project, then the additional protection shall be enforced in favor of the Owner, whether or not such protection is found in the applicable statutes.

IN WITNESS WHEREOF the undersigned have caused this instrument to be executed and their respective corporate seals to be affixed and attested by their duly authorized representatives this day of _____, _____.

_____(SEAL)
(Principal)

By: _____

Attest:

Secretary

_____(SEAL)
(Surety)

By: _____

Attest:

Secretary

(Address of Surety's Home Office)

(Resident Agent of Surety)