



FULTON COUNTY

Vision

People Families Neighborhoods

Mission

To serve, protect and govern in concert with local municipalities

Values

*People Customer Services
Ethics Resource Management
Innovation Equal Opportunity*

**PURCHASING DEPARTMENT
REQUEST FOR INVITATION TO BID NO. 06ITB51156K-NH**

BRIDGE MAINTENANCE

For

DEPARTMENT OF PUBLIC WORKS

**BID DUE TIME AND DATE: 11:00 am July 10, 2006
PURCHASING CONTACT: Nancy Harrison, CPPB at 404 730 4201
E-MAIL: NANCY.HARRISON@CO.FULTON.GA.US**

**LOCATION: FULTON COUNTY PURCHASING DEPARTMENT
130 PEACHTREE STREET, S.W., SUITE 1168
ATLANTA, GA 30303**

TABLE OF CONTENTS
BID DOCUMENTS AND REQUIREMENTS

INVITATION TO BID

Description of Project 4
Term of Contract..... 4
No Contact Provision 4
Bid Contact 4
Basis of Award 5
Pre-Bid Conference 5

SECTION 1

INSTRUCTIONS TO BIDDERS 6
A. Contract Documents 6
B. Definitions 6
C. Bidder's Modification and Withdrawal of Bids 10
D. Addenda and Interpretations 10
E. Site Examination 10
F. Bid 10
G. Bid and Contract Security 11
H. Right to Reject Bids 12
I. Applicable Laws 12
J. Examination of Contract Documents 12
K. Termination 12
L. Indemnification and Hold Harmless Agreement 13
M. Bid Opening 13
N. Determination of Successful Bidder 13
O. Wage Clause 13
P. Notice of Award of Contract 14
Q. Execution of Contract Documents 14
R. Joint Venture 15
S. Contractor Compliance With All Assurances And/Or Promises Made In Response To Procurement 15
PURCHASING - BID REQUIREMENTS 16

SECTION 2

BID FORM 22

SECTION 3

PURCHASING FORMS & INSTRUCTIONS 24
FORM A - NON-COLLUSION AFFIDAVIT OF BIDDER/OFFEROR 25
FORM B - NON-COLLUSION AFFIDAVIT OF SUBCONTRACTOR 27
FORM C - FULTON COUNTY CERTIFICATE OF ACCEPTANCE BID/PROPOSAL REQUIREMENTS 29
FORM D - GEORGIA'S UTILITY CONTRACTOR'S LICENSE CERTIFICATION 30
FORM E - CERTIFICATION REGARDING DEBARMENT 31
FORM F - CORPORATE CERTIFICATE 34
FORM G - OFFEROR'S DISCLOSURE FORM AND QUESTIONNAIRE 35

SECTION 4

BID BOND REQUIREMENTS 38
BID BOND 38

TABLE OF CONTENTS
BID DOCUMENTS AND REQUIREMENTS

SECTION 5

CONTRACT COMPLIANCE REQUIREMENTS..... 42
NON-DISCRIMINATION IN CONTRACTING AND PROCUREMENT..... 42
REQUIRED FORMS AND EBO PLAN 43
EXHIBIT A – PROMISE OF NON-DISCRIMINATION..... 44
EXHIBIT B – EMPLOYMENT REPORT 45
EXHIBIT C – SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION 46
EXHIBIT D - LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR OR PROVIDE MATERIALS
OR SERVICES 49
EXHIBIT E - DECLARATION REGARDING SUBCONTRACTING PRACTICES.....50
EXHIBIT F - JOINT VENTURE DISCLOSURE AFFIDAVIT.....;.....51
EXHIBIT G - PRIME CONTRACTOR/SUBCONTRACTOR UTILIZATION REPORT.....54

SECTION 6

INSURANCE AND RISK MANAGEMENT PROVISIONS..... 56

SECTION 7

AGREEMENT..... 58

SECTION 8A

PERFORMANCE BOND REQUIREMENTS 62
PERFORMANCE BOND 63

SECTION 8B

PAYMENT BOND REQUIREMENTS 66
PAYMENT BOND 67

SECTION 9

GENERAL CONDITIONS 77

SECTION 10

SPECIAL PROVISIONS 111

SECTION 11

PRICING QUOTE 112
FINAL AFFIDAVIT.....112

**INVITATION TO BID
FULTON COUNTY BRIDGE MAINTENANCE - 2006**

Purpose:

Fulton County is soliciting bids from qualified vendors to provide all inclusive bridge maintenance services for the Department of Public Works.

Description of Project:

The work will require bidder to provide all labor, administrative forces, equipment, and all other incidental items to replace, restore, and paint several bridges within unincorporated Fulton County.

Purchasing the Bid Document:

This document and supporting documents can be downloaded at the Fulton County Website, <http://www.co.fulton.ga.us/> under "Bid Opportunities".

Term of Contract:

The term of this Contract shall be one (1) twelve (12) month period commencing after Notice to Proceed has been issued by the County. This Contract may be renewed for four (4) twelve (12) month periods subject to available funding.

No Contact Provision:

It is the policy of Fulton County that the evaluation and award process for County contracts shall be free from both actual and perceived impropriety, and that contacts between potential vendors and County officials, elected officials and staff regarding pending awards of County contracts shall be prohibited.

- A. No person, firm, or business entity, however situated or composed, obtaining a copy of or responding to this solicitation, shall initiate or continue any verbal or written communication regarding this solicitation with any County officer, elected official, employee, or designated County representative, between the date of the issuance of this solicitation and the date of the County Manager's recommendation to the Board of Commissioners for award of the subject contract, except as may otherwise be specifically authorized and permitted by the terms and conditions of this solicitation.
- B. All verbal and written communications initiated by such person, firm, or entity regarding this solicitation, if same are authorized and permitted by the terms and conditions of this solicitation, shall be directed to the Purchasing Agent.
- C. Any violation of this prohibition of the initiation or continuation of verbal or written communications with County officers, elected officials, employees, or designated County representatives shall result in a written finding by the Purchasing Agent that the submitted Bid or proposal of the person, firm, or entity in violation is "non-responsive", and same shall not be considered for award.

Bid Contact:

Information regarding the bid, either procedural or technical, may be obtained by contacting Nancy Harrison, Assistant Purchasing Agent at (404) 730-4201, nancy.harrison@co.fulton.ga.us Fulton County Department of Purchasing. Information regarding the bid requirements may be obtained by using the following procedure. Inquiries shall be submitted in writing to;

Fulton County Purchasing Department
Attn: [Nancy Harrison](#)
130 Peachtree Street, S.W. Suite 1168
Atlanta, GA 30303
Phone: (404) 730-4201
Fax: (404) 893-1744
Reference Bid # 06ITB51156K-NH

Basis of Award:

The Contract, if awarded, will be awarded on a lump sum basis with an option to award to more than one vendor.

No bid may be withdrawn for a period of sixty (60) days after the date of bid opening except as permitted by O.C.G.A., §36-91-41 et seq., as amended. Each Bid shall be accompanied by a Bid Bond in accordance with the Bid Bond Requirements provided in the Contract Documents, on a Surety Company's Standard Bid Bond Form acceptable to the County in an amount no less than 5% of the amount bid. The successful bidder will be required to furnish a Performance Bond and Payment Bond, **on or before** the issuance of Notice to Proceed, each in the amount of 100% of the Contract Amount. All other required Contract Documents shall be fully completed and executed by the Contractor and his/her Surety, and submitted to the Owner **on or before** the issuance of the Notice to Proceed.

Pre-Bid Conference:

Date: June 21, 2006
Time: 2:00 PM
Location: Fulton County Purchasing Department, Public Safety Building
130 Peachtree Street, S.W. Suite 1168
Atlanta, GA 30303

A pre-bid conference will be held in the Fulton County Purchasing Department Conference Room, located at 130 Peachtree Street, S.W. Suite 1168, Atlanta, Georgia 30303. ***Inquiries regarding the solicitation either technical or otherwise may be submitted in writing prior to the pre-bid conference and will be addressed at the pre-bid conference.*** Any additional questions asked at the pre-bid conference shall be submitted in written form at the pre-bid conference and will be responded to in the form of an addendum with the County's official responses.

The Pre-bid conference will be conducted for the purpose of explaining the County's bid process, the specifications/technical documents, and to provide an initial verbal, non-binding verbal response to questions concerning these bid specifications and to discuss issues from the bidders perspective. However, no verbal response provided at the pre-bid conference binds the County. Only those responses to written and responded to by the County in written communications will be official.

END OF INVITATION TO BID

SECTION 1**INSTRUCTIONS TO BIDDERS****A. Contract Documents**

The Contract Documents include the Invitation to Bid, Instructions to Bidders, Contractor's Bid (including all documentation accompanying the Bid and any post-Bid documentation required by the County prior to the Notice of Award), Bonds, all Special Conditions, General Conditions, Supplementary Conditions, Specifications, Drawings and addenda, together with written amendments, change orders, field orders and the Construction Manager's written interpretations and clarifications issued in accordance with the General Conditions on or after the date of the Contract Agreement. Shop drawing submittals reviewed in accordance with the General Conditions, geotechnical investigations and soils report and drawings of physical conditions in or relating to existing surface structures at or contiguous to the site are not Contract Documents. The Contract Documents shall define and describe the complete work to which they relate.

B. Definitions

Where the following words or the pronouns used in their stead occur herein, they shall have the following meaning. If a conflict exists as to the meaning of a word, the definition existing in the General Conditions, if present, shall govern.

Addenda - the plural of addendum.

Addendum - a written or graphic change to the contract documents issued prior to bid opening which becomes a part of the specifications for the project.

Advertisement - public notice inviting bids or proposals on a specified project. Public Works Construction projects shall be published for four (4) consecutive weeks. All other projects shall be published for two (2) consecutive weeks. All projects shall be published on the Fulton County's website @ www.co.fulton.ga.us, under "Bid Opportunities".

Amendment - a change, addition, alteration, correction or revision to a bid or proposal or contract document.

Annual contract - any contract entered into for a specified period, with a contractor or a vendor, to provide upon request with a specified product or service at a predetermined price/rate.

Award - approval by the Board of Commissioners, to begin the contracting process with the lowest most responsive and responsible bidder.

Bid - the formal process allowing prospective vendors to compete for goods and services sought by the County.

Bid acceptance - the acceptance of bids delivered to the Purchasing Agent at the time, place, and under the conditions contained in the invitation for bids and as further stipulated in the specifications document.

Bid bond - a form of bid security executed by the bidder as principal and by a surety to guarantee that the bidder will enter into a contract within a specified time and maintain the bid

prices submitted with his/her original bids and furnish any required payment and/or performance bonds.

Bid guaranty - a certified check, bid bond, cashier's check, for a sum of money deposited with the County by a bidder to guarantee that the bidder will enter into a contract within a specified time and maintain the bid prices submitted with his/her bid and furnish any required payment and/or performance bonds.

Bid opening - the public opening of bids received and accepted and the reading aloud of the name of each bidder and the amount of bid in the presence of one (1) or more witnesses at the time and place designated in the invitation to bid. For RFP openings only the name of the proponents are read aloud.

Change order – means an alteration, addition, or deduction from the original scope of work as defined by the contract documents to address changes or unforeseen conditions necessary for project completion.

Collusion – a secret agreement, whether expressed or implied, to commit a fraudulent, deceitful, unlawful, or wrongful act.

Collusive bidding – a violation of antitrust statutes that consists of a response to a solicitation by two or more persons who have secretly agreed to circumvent laws and rules regarding independent and competitive bidding.

County - "County" shall mean the Fulton , Georgia, a political subdivision of the State of Georgia, and shall include all agencies, establishments or officials of the government of the .

Construction - the process of building, altering, repairing, remodeling, improving or demolishing any public structure or building, or other public improvements of any kind to any public real property. It does not include the routine maintenance of existing structures, buildings or real property.

Contract - all types of agreements, including purchase orders, regardless of what they may be called, for the procurement or disposal of supplies, services, construction, professional or consultant services, and for the transfers of interest in real property.

Contract documents - the various parts of the contract including, but not limited to the contract agreement, the bid form, the payment and performance bond, any required insurance certificates, general and specific conditions and the specifications of the project.

Contract file - the grouping of all written determinations and other records pertaining to the solicitation, award or performance of a contract or purchase order in a designated file maintained by the County by the Purchasing Agent.

Contract modification - any written alteration in the terms of the contract including, but not limited to, the scope, manner of performance, specifications, delivery point, time and rate of delivery, period of performance, price, quantity, or other provision of any contract accomplished by mutual action of the parties to the contract.

Contract sum - the amount bid as adjusted by all contract modifications.

Contractor - any person or entity having a contract with the County.

Debarment – the exclusion of a person or company from participating in a procurement activity for an extended period of time, as specified by law, because of previous illegal or irresponsible action.

Designee - an authorized representative of a person holding superior position of responsibility.

Encumbrance - an obligation, chargeable to a budget appropriation, by a user department to pay for a specific procurement.

Evaluation criteria – factors relating to management capability, technical capability, method of meeting performance requirements, price, and other material considerations specified in the request for proposal that will be considered in determining to whom a contract will be awarded.

Fidelity bond – a form of insurance that secures an employer up to the amount stated in the bond for losses caused by dishonest acts of its employees.

Final completion - the completion of all work as required in accordance with the terms and conditions of the contract documents.

Invitation to bid (ITB) - all documents, whether attached or incorporated by reference, utilized for soliciting sealed bids.

Invoice - the document provided by vendors to the County as a demand for payment of goods or services provided under the provisions of a contract awarded by the County.

Inspection - an authorized representative of the County, or of the County's architect/engineer, assigned to make all necessary inspections, test, and reports of the work performed or being performed.

Materials - any substance(s) specified for use in the performance of the contract work.

May - denotes permissive.

Offer - a proposal by an Offeror submitted when procurement is made by a source selection method other than competitive sealed bidding.

Offeror – a person making an offer.

Owner - Fulton County Government, Georgia.

Notice To Proceed - a written notice to the Contractor to begin the actual contract work, stating, if applicable, the date on which the contract time begins.

Payment bond - "Payment Bond" means a bond provided by a surety company authorized to do business in the state of Georgia, which guarantees to the County that all costs incurred by the Contractor relating to the performance of the contracted services (i.e., suppliers, subcontractors, etc.) shall be paid in a timely manner and fully satisfied at the completion of the contracted work.

Performance bond - "Performance Bond" means a bond provided by a surety company authorized to do business in the state of Georgia, which guarantees to the County that the services contracted for will be performed in accordance with the terms and conditions specified in the contract document.

Pre-bid or pre-proposal conference – a meeting scheduled prior to the opening of bids/proposals at which attendance by potential bidders/offerors may be optional or mandatory, to clarify the solicitation and respond to prospective bidder/offeror inquiries.

Pre-qualifications - required standards imposed in the best interest of the County as a condition of bidding, which must be met by an interested bidder in order to qualify to respond to an invitation for bids or a request for proposal.

Procurement - buying, purchasing, renting, leasing or otherwise acquiring any supplies, services or construction. Also includes all functions that pertain to the obtaining of any supply, service or construction, including a description of requirements, selection and solicitation of sources, preparation and award of contracts, and all phases of contract administration.

Public works construction – means the building, altering, repairing, improving, or demolishing of any public structure or building or other public improvements of any kind to any public real property.

Proposer - one who submits a proposal.

Proposal - solicited submission of information from a prospective contractor which states how that Offeror intends to perform certain work, its technical and business qualifications, it's proposed delivery, warranty, other terms and conditions as those might differ from or supplement the County's solicitation requirements, and any other information requested by the County's solicitation. May also include such pricing information as may be required.

Purchasing Agent - the Director of the Fulton County Department of Purchasing the principal purchasing official for the County.

Requisition - a document utilized by a using agency to request that a purchase order or contract be entered into for a specific need.

Responsible bidder or responsible Offeror – means a person or entity that has the capability in all respects to perform fully and reliably the contract requirements.

Responsive bidder or responsive Offeror - means a person or entity that has submitted a bid or proposal that conforms in all material respects to the requirements set forth in the invitation for bids or request for proposals.

Scope of work - means the work that is required by the contract documents.

Scope of project – means the work required by the original contract documents and any subsequent change orders required or appropriate to accomplish the intent of the project as described in the bid documents.

Shall - denotes imperative.

Solicitation - an invitation for bid, a request for proposal, a request for quotation, or any other document issued by the County for the purpose of soliciting bids or proposals to perform a County contract.

Specifications – means any description of the physical or functional characteristics or of the nature of a supply, service or construction item. It may include a description of any requirement for inspecting, testing or preparing a supply, service or construction item for delivery.

Subcontractor – any person undertaking part of the work of a contract under the control of the principal contractor.

Substantial completion - the date when construction is sufficiently complete, in accordance with the contract documents, so the County can occupy or utilize the work or designated portion thereof for the use for which it is intended.

Surety - the corporation, partnership, or individual licensed and authorized to do business in the state of Georgia, other than the contractor, executing payment, performance or bid bonds to be furnished to the County by the contractor.

Work - the furnishing of all labor, materials, tools, equipment and incidentals necessary by the Contractor for completion and performance of all duties and obligations imposed by the contract documents.

C. Bidder's Modification and Withdrawal of Bids

A Bidder may modify or withdraw its bid by written request, provided that the request is received by the County prior to the bid due date and time at the address to which bids are to be submitted. Provided further, that in case of an electronic request (i.e. facsimile, e-mail, etc.) a written confirmation thereof over the authorized signature of the Bidder must be received by the County at the address to which original Bids are to be submitted within three (3) calendar days after issue of the electronic message. Following withdrawal of its bid, the Bidder may submit a new, providing delivery is affected prior to the established bid opening date and time. **No bid may be withdrawn after bid due date for sixty (60) calendar days.**

D. Addenda and Interpretations

No interpretations of the meaning of the Drawings, Specifications or other pre-bid documents will be made to any Bidder orally. Bidders requiring clarification or interpretation of the Bidding Documents shall make a written request to [Nancy Harrison](#) no later than 2:00 PM June 27, 2006. Written requests for clarification or interpretation may be mailed, hand delivered, e-mailed or faxed to the Assistant Purchasing Agent at the address below, e-mail address or fax number. Telephone inquiries will not be accepted.

[Nancy Harrison, CPPB](#)
[Assistant Purchasing Agent](#)
Department of Purchasing
Fulton County Public Safety Building
130 Peachtree Street, S.W., 1168
Atlanta, GA 30303
Fax: (404) 893-1744
Nancy.harrison@co.fulton.ga.us

Only communications from firms that are in writing and signed will be recognized by the County as duly authorized expressions on behalf of proposers/bidders. Any and all such interpretations and any supplemental instructions will be in the form of written Addenda to the Specifications which, and if any addenda are issued to this Invitation to Bid.

E. Site Examination

There will be no site visit for this project. However, bidders are encouraged to visit the bridge locations on their own.

F. Bid

All Bids must be made on the Bid forms contained herein. The Bid shall be enclosed in a sealed envelope, addressed to Department of Purchasing, Fulton County Public Safety Building, 130 Peachtree Street, S.W., Suite 1168 Atlanta, Georgia 30303 and labeled "**Bid for ITB – BRIDGE MAINTENANCE - 2006.**"

REQUIRED SUBMITTALS: The bidder **must complete and execute** the following:

1. Bid Form
2. Bid Schedule

3. Bid Bond
4. Certification of Acceptance of Bid/Proposal Requirements
5. Corporate or Partnership Certificate
6. Non-Collusion Affidavit of Prime Bidder
7. Non-Collusion Affidavit of Subcontractor
8. Contract Compliance Forms, fully executed
 - a. Promise of Non-Discrimination (Exhibit A)
 - b. Employment Report (Exhibit B)
 - c. Schedule of Intended Subcontractor Utilization (Exhibit C)
 - d. Letter of Intent to Perform As a Subcontractor or Provide Materials or Services (Exhibit D)
 - e. Declaration Regarding subcontractor Practices (Exhibit E)
 - f. Joint Venture Disclosure Affidavit (Exhibit F)
 - g. Equal Business Opportunity (EBO) Plan

Any bids received after the stated time and date shall not be considered. It shall be the sole responsibility of the bidder to have his/her bid delivered to the Fulton County Department of Purchasing for receipt on or before the stated time and date. If a bid is sent by U.S. Mail, the bidder shall be responsible for its timely delivery to the Purchasing Department. Bids delayed by mail will not be considered, shall not be opened, and arrangements shall be made for their return at the bidder's request and expense.

The original signed bid with three (3) copies shall be submitted in a sealed package, clearly marked on the outside "Bid for the Fulton County Bridge Maintenance – 2006".

Bid shall be publicly opened, with only the names and total bid price of the bidders disclosed at the opening.

G. Bid and Contract Security

A Bid Bond for an amount equal to five percent (5%) of the bid amount must accompany each Proposal. The bid bond shall be submitted in a separate, sealed envelope marked "Bid Bond".

Bids must be accompanied by a bid bond or certified check in an amount of five percent (5%) of the TOTAL AMOUNT of the base bid. The bid bond or certified check shall apply ONLY TO THIS BID. The bid name and contract number must appear on the security instrument. The bond must remain in full force and effect until the Bidder executes the final Contract. Bids not satisfying the bonding requirements of this project will be declared non-responsive.

Any bid bond, performance bond, payment bond, or security deposit required for public works construction contract shall be approved and filed with purchasing agent. At the option of the County, if the surety named in the bond is other than a surety company authorized by law to do business in this state pursuant to a current certificate of authority to transact surety business by the Commissioner of Insurance, such bond shall not be approved and filed unless such surety is on the United States Department of Treasury's list of approved bond sureties.

A Purchasing Agent shall approve as to form and as to the solvency of the surety any bid bond, performance bond, or payment bond required by this. In the case of a bid bond, such approval shall be obtained prior to acceptance of the bid or proposal. In the case of payment bonds and performance bonds, such approval shall be obtained prior to the execution of the contract.

Whenever, in the judgment of the County:

- (1) Any surety on a bid, performance, or payment bond has become insolvent;

- (2) Any corporation surety is not longer certified or approved by the Commissioner of Insurance to do business in the state; or
- (3) For any cause there are no longer proper or sufficient sureties on any or all the bonds

The County may require the contractor to strengthen any or all of the bonds or to furnish a new or additional bond or bonds within ten days. Thereupon, if so ordered by the County, all work on the contract shall cease unless such new or additional bond or bonds are furnished. If such bond or bonds are not furnished within such time, the County may terminate the contract and complete the same as the agent of and at the expense of the contractor and his or her sureties.

As a condition of responsiveness the bidder must contain a Bid Bond for an amount equal to 5% of the bid amount. The Bid Bond shall be included in a separate envelope marked on the outside "Bid Bond". Checks or letters of credit of any type will not be accepted. A certified cashier's check will be acceptable. Provide a completed and fully executed Bid Bond. When the bidder's package is opened, a purchasing agent will verify the presence of the Bid Bond and remove it from the Proposal Package.

If the bidder withdraws its bid from the competition after the selection of its bid for a reason not authorized by Georgia law, the County will proceed on the Bid Bond, along with any other available remedies.

The Surety of the Bid Bond shall be from a surety company authorized to do business in the State of Georgia, shall be listed in the Department of Treasury Circular 570, and shall have an underwriting limitation in excess of 100% of the bid amount. The Bonds and Surety shall be subject to approval by the County Attorney.

Attorneys-in-fact for bidders who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

H. Right to Reject Bids

The County reserves the right to reject any or all bids and to waive informalities. No bids will be received after the time set for opening bids. Any unauthorized conditions, limitations or provisions attached to the Bid, except as provided herein, will render it informal and may cause its rejection. Unbalanced bids will be subject to rejection. Any bidder may withdraw his/her bid, either personally or by telegraphic or written request, at any time prior to the scheduled closing time for receipt of bids. Telegraphic or written requests for withdrawal must be in the possession of the County prior to the closing time for receipt of bids.

I. Applicable Laws

All applicable laws and regulations of the State of Georgia and ordinances and regulations of Fulton County shall apply. Protestors shall seek resolution of their complaints in the manner provided in the Fulton County Code of Laws §2-324, which is incorporated by reference herein.

J. Examination of Contract Documents

Prospective bidders shall examine the contract documents and before submitting a bid, shall make a written request to the County for an interpretation or correction of any ambiguity, in consistency or error therein which could be discovered by a bidder. At the bid opening each bidder shall be presumed to have read and be familiar with the contract documents.

K. Termination

The County may terminate the contract resulting from this solicitation at any time the vendor fails to carry out the contract provisions, if in the opinion of the County, the performance of the contract is unreasonably delayed, or the vendor is in direct violation of the contract conditions. The County shall provide the vendor with notice of any conditions which violate or endanger the performance of the contract and, if after such notice the contractor fails to remedy such conditions within thirty (30) days, to the satisfaction of the County, the County may exercise their option in writing to terminate the Contract without further notice to the Contractor and order the Contractor to stop work immediately and vacate the premises. Vendor agrees by its bid submission that the County's decision is final and valid.

L. Indemnification and Hold Harmless Agreement

The successful contractor will agree to indemnify, save harmless and defend the County, its agents, servants, and employees from all lawsuits, claims, demands, liabilities, losses and expenses for or on account of any injury or loss in connection with the work performed under this contract: Provided, however the Contractor shall not be liable for any damages resulting for the sole negligent or intentional acts or omission of the County and its employees, agents or representatives.

M. Bid Opening

Bids will be opened in public and read aloud. All bidders are requested to be present at the opening.

N. Determination of Successful Bidder

Fulton County desires to complete this work in a timely manner. The Contract will be awarded to the lowest responsive, responsible bidder(s), if awarded.

- 1) **Responsibility:** The determination of the bidder's responsibility will be made by the County based on whether the bidder meets the following minimum requirements:
 - a) The County reserves the right to reject any bid if the evidence submitted by, or investigation of, the bidder fails to satisfy the County that he/she is properly qualified to carry out the obligations of the Contract.
 - b) Is properly licensed to perform this type of work in Fulton County. Bidders must have a utility contractors license to perform this work. O.C.G.A. §43-14-8.3 (h)
 - c) Maintains a permanent place of business individually or in conjunction with the prime contractor.
 - d) Has the appropriate and adequate technical experience. Designated Project Manager must be proficient in all aspects of contracted work.
 - e) Has adequate personnel and equipment to do the work expeditiously.
 - f) Has suitable financial means to meet obligations incidental to the work.
- 2) **Responsiveness:** The determination of responsiveness will be made by the County based on a consideration of whether the bidder has submitted a complete Bid form without irregularities, excisions, special conditions, or alternative bids for any item unless specifically requested in the Bid form.

O. Wage Clause

Pursuant to 102-391, Each Contractor shall agree that in the performance of the Contract he will comply with all lawful agreements, if any, which the Contractor had made with any association, union, or other entity, with respect to wages, salaries, and working conditions, so as not to cause inconvenience, picketing, or work stoppage.

P. Notice of Award of Contract

As soon as possible, and within sixty (60) days after receipt of bids, the County shall notify the successful Bidder of the Award of Contract.

The award shall be made by the Board of Commissioners of Fulton County to the lowest responsive, responsible bidder(s) as soon as possible after receipt of bids, taking into consideration price and the responsiveness to the requirements set forth in the Invitation for Bid. In such case, no claim shall be made by the selected Contractor(s) for loss of profit if the contract is not awarded or awarded for less work than is indicated and for less than the amount of his bid. The total of the awarded contract shall not exceed the available funds allocated for this project.

Should the County require additional time to award the contract, the time may be extended by mutual agreement between the County and the successful bidder. If an Award of Contract has not been made within sixty (60) days from the bid date or within the extension mutually agreed upon, the Bidder may withdraw the Bid without further liability on the part of either party.

Any award made by the Board of Commissioners as a result of this bid will begin from the date of the notice to proceed. The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on a date to be specified in a written order of the Program Manager. The contract shall become effective on the Contract Date and shall continue in effect until the end of the term of the contract or until the project has been closed-out by the Program Manager unless earlier terminated pursuant to the termination provisions of the contract.

Q. Execution of Contract Documents

Upon notification of Award of Contract, the County shall furnish the Contractor the conformed copies of Contract Documents for execution by the Contractor and Contractor's surety.

Within fifteen (15) days after receipt the Contractor shall return all the documents properly executed by the Contractor and the Contractor's surety. Attached to each document shall be an original power-of-attorney for the person executing the bonds for the surety and certificates of insurance for the required insurance coverage.

After receipt of the documents executed by the Contractor and his surety with the power-of-attorney and certificates of insurance, the County shall complete the execution of the documents. Distribution of the completed documents will be made upon completion.

Should the contractor and/or surety fail to execute the documents within the time specified, the County shall have the right to proceed on the Bid Bond accompanying the bid.

If the County fails to execute the documents within the time limit specified, the Contractor shall have the right to withdraw the Contractor's bid without penalty.

Should an extension of any of the time limits stated above be required, this shall be done only by mutual agreement between both parties.

Any agreement or contract resulting from the acceptance of a bid shall be on a County approved document form. The County reserves the right to reject any agreement that does not conform to the Invitation for Bid and any County requirements for agreements and contracts. The County reserves the right to modify the agreement resulting from this bid upon the recommendation of the County Attorney.

R. Joint Venture

Any Bidder intending to respond to this solicitation as a joint venture must submit an executed joint venture agreement with its offer. The agreement must designate those persons or entities authorized to execute documents or otherwise bind the joint venture in all transactions with Fulton County, or be accompanied by a document, binding upon the joint venture and its constituent members, making such designation. Offers from joint ventures that do not include these documents will be rejected as being non-responsive.

S. Contractors Compliance With All Assurances And/Or Promises Made In Response To Procurement

Should any Bidder submit a response to the County promising to provide a certain level of service for either the scope of work, MFBE participation, or any other matter, including where such promise or assurance is greater than what is required by the procurement documents, and should this response containing the promise or assurance be accepted by the County and made a part of the Contract Documents, then this degree or level of service promised by the bidder relating to the scope of work, MFBE participation, or other matter shall be considered to be a material part of the Agreement between the bidder and the County, such that the bidder's failure to provide the agreed upon degree or level of service or participation shall be a material breach of the Agreement giving the County just cause to terminate the Agreement for cause, pursuant to the General Conditions of the Agreement.

PURCHASING - BID REQUIREMENTS

The following information pertains to the submission of a Bid to Fulton County, and contains instructions on how Bids must be presented in order to be considered. Listed below are the requirements for all Bidders interested in doing business with Fulton County.

1. The Bid sheets included in this Invitation to Bid ("Bid") must be fully completed and returned with the Bid unless otherwise specified in writing by the Purchasing Department. Type or neatly print the date, company name, and the full legal name and title of the person(s) signing the Bid in the place provided at the bottom of each Bid sheet. Any additional sheets submitted must contain the same signature and Bidder information.
2. Original signature(s) must appear on each page of the Bid document. All signatures must be executed by person(s) having contracting authority for the Bidder.
3. Absolutely no fax Bids or reproduction Bids will be accepted, except that photocopies may be submitted in addition to the original when multiple copies of the Bid are specifically requested in the solicitation.
4. The envelope in which the Bid response is submitted must be sealed and clearly labeled with the Bid number, project title, due date and time, and the name of the company or individual submitting the proposal. Bids must be received by the opening date and time shown on this Bid in order to be considered. The Purchasing Agent has no obligation to consider Bids which are not in properly marked envelopes. Contract Compliance submittals shall be submitted in a separate sealed envelope or package.
5. The original and the required number of copies of the Bid must be returned to:

Fulton County Purchasing Agent
Fulton County Purchasing Department
130 Peachtree Street, S.W., Suite 1168
Atlanta, Georgia 30303

Any inquiries, questions, clarifications or suggestions regarding this solicitation should be submitted in writing to the Purchasing Contact Person. Contact with any other County personnel in regard to a current solicitation is strictly prohibited in accordance with Fulton County "No Contact" policy outlined in Section 35.

6. Show information and prices in the format requested. Prices are to be quoted F.O.B. Destination, and must include all costs chargeable to the Contractor executing the Contract, including taxes. Unless otherwise provided in the Contract, Fulton County shall have no liability for any cost not included in the price. The Contractor shall provide Fulton County the benefit through a reduction in price of any decrease in the Contractor's costs by reason of any tax exemption based upon Fulton County's status as a tax-exempt entity.
7. All prices Bid must be audited by the Bidder to ensure correctness before the Bid is submitted. The Bidder is solely responsible for the accuracy of information placed on a Bid sheet, including prices. Clerical or mathematical error is insufficient to void a successful Bid but a Bidder may withdraw a sealed Bid prior to opening without a penalty.
8. All prices must be submitted in the format requested and less all trade discounts. When multiple items are being Bid, Bidder must show both the unit price and the total extended price for each item. When applicable, the Bidder must include an additional lump sum Bid for groups or items. In the event a Bidder is offering an additional discount on groups of items, Bidder must indicate the total lump sum Bid for the particular group of items before any extra

- discount, the amount of extra discount, and the net total for the particular group. In the event of an extension error, unit pricing shall prevail.
9. By submitting a signed Bid, Bidder agrees to accept an award made as a result of that Bid under the terms and conditions spelled out in the Bid documents. In the event of a conflict between the different Bid documents, the County's cover Contract (if used) shall have precedence, followed in order by the Invitation to Bid, Purchase Order, Bid, Contractor's Warranty Agreement, Maintenance Agreement, and/or other Contractor provided agreements.
 10. A Bidder may submit only one (1) Bid response for each specific Bid solicitation unless otherwise authorized in the specifications.
 11. All prices submitted by the Bidder to Fulton County must be guaranteed by the authorized person(s) against any price increase for the time period designated in the Bid specifications, and Fulton County must be given the benefit of any price decrease occurring during such designated time period.
 12. All items Bid must be new. Used, rebuilt and refurbished items will not be considered unless specifically authorized by Fulton County in the written specifications.
 13. All Bidders must specify in the Bid response the earliest actual delivery date for each item unless otherwise specified in writing by Fulton County. The delivery date may be a factor in deciding the Bidder's capability to perform.
 14. A successful Bidder's delivery ticket(s) and invoice(s) must list each item separately and must show Fulton County's purchase order number as well as the proper department and address to which delivery was made, as listed on the purchase order or in the Bidder's contract with Fulton County.
 15. Unless clearly shown as "no substitute" or words to that effect, any items in this invitation to Bid which have been identified, described or referenced by a brand name or trade name are for reference only. Such identification is intended to be descriptive but not restrictive, and is to indicate the general quality and characteristics of products that may be offered. Each item Bid must be individually identified as to whether it is a specified item or an equivalent item by typing or printing after the item(s): The brand name; model or manufacturer's number, or identification regularly used in the trade. Deviations from the specifications must be clearly and fully listed on the Bid sheet, including photographs or cuts, specifications, and dimensions of the proposed "alternate". Fulton County is the sole judge of "exact equivalent", or "alternate". The factors to be considered are: function, design, materials, construction, workmanship, finishes, operating features, overall quality, local service facilities, warranty terms and service, and other relevant features of item(s) Bid.
 16. For all Bids, Fulton County reserves the right to request representative samples. If requested, samples must be delivered at the Bidder's cost within three (3) business days. Samples are submitted at the risk of the Bidder and may be subjected to destructive tests by Fulton County. Samples must be plainly tagged with Fulton County's Bid number, item name, manufacturer, and the name of the Bidder.
 17. Item(s) Bid must be complete and ready to operate. No obvious omissions of components or necessary parts shall be made even though the specifications may not detail or mention them. Unit(s) must be furnished with factory installed equipment and must be comparable with the basic form, fit, and functional requirements which are all to be included in the base price as well as any other equipment included as standard by the manufacturer or generally provided to the buying public.

18. All successful Bidders must assume full responsibility for all item(s) damaged prior to F.O.B. Destination delivery and agree to hold harmless Fulton County of all responsibility for prosecuting damage claims.
19. All successful Bidders must assume full responsibility for replacement of all defective or damaged goods within thirty (30) days of notice by Fulton County of such defect or damage.
20. All successful Bidders must assume full responsibility for providing or ensuring warranty service on any and all items including goods, materials, or equipment provided to the County with warranty coverage. If a successful Bidder is not the manufacturer, all manufacturers' warranties must be passed through to Fulton County. The Bidder and not Fulton County is responsible for contacting the manufacturer of the warranty service provided during the warranty period and supervising the completion of the warranty service to the satisfaction of Fulton County.
21. As a successful Bidder providing any equipment which requires fitting and assembly, the Bidder shall be solely responsible for such installation being performed by a manufacturer's authorized or approved servicer or an experienced worker, utilizing workmanship of the highest caliber. The Bidder must verify all dimensions at the site, shall be responsible for their correctness, and shall be responsible for the availability of replacement parts when specified in writing by Fulton County in the specifications, purchase order, or other contract.
22. A successful Bidder is solely responsible for disposing of all wrappings, crating, and other disposable material upon deliver of item(s).
23. All Bidders are required to be authorized distributors or regularly engaged in the sale or distribution of the type of goods, materials, equipment or services for which the Bidder is submitting a Bid response in addition, all Bidders are required to provide Fulton County with three (3) written references documenting the successful completion of Bids or contracts for the types of items including goods, materials, equipment, or services for which the Bidder is submitting a Bid response. In instances where a Bidder has never supplied such goods, material, equipment, or services before, the Bidder must submit with the Bid response a statement and supporting documentation demonstrating such expertise, knowledge, or experience to establish the Bidder as a responsible Bidder, capable of meeting the Bid requirements should an award be made. No exceptions to this provision will be made unless authorized in the Bid specifications.
24. Bidders may be required to furnish evidence that they maintain permanent places of business of a type and nature compatible with their Bid proposal, and are in all respects competent and eligible vendors to fulfill the terms of the specifications. Fulton County may make such investigations as it deems necessary to determine the ability of the Bidder to perform such work, and reserves the right to reject any Bidder if evidence fails to indicate that the Bidder is qualified to carry out the obligation of the Contract and to complete the work satisfactorily.
25. All Bidders must comply with all Fulton County Purchasing laws, policies, and procedures, non-discrimination in contracting and procurement ordinances, and relevant state and federal laws including but not limited to compliance with EEOC hiring guidelines and requirements under the Americans with Disabilities Act. Successful Bidder must obtain all permits, licenses, and inspections as required and furnish all labor, materials, insurance, equipment, tools, supervision, and incidentals necessary to accomplish the work in these specifications.
26. If a successful Bidder is unable or unwilling to enter into a Contract with Fulton County subsequent to being granted an award, or who fails to perform in accordance with the Bid specifications the Bidder will be subject to damages and all other relief allowed by law.

27. Successful Bidders contract directly with Fulton County and are the party or parties obligated to perform. Contracts may not be assigned and any failure to perform the Contract in accordance with the specifications will constitute a breach of Contract and may result in a Bidder being found to be "non-responsive" in the future.
28. In case of default by the successful Bidder, Fulton County may procure the articles for services from another source and hold the successful Bidder responsible for any resulting excess cost.
29. The County may award any Bid in whole or in part to one or more vendors or reject all Bids and/or waive any technicalities if it is in the best interests of the County to do so. In the event that all Bids are not rejected, Bids for items including goods, materials, equipment, and services will be awarded to the lowest "responsible" Bidder(s) as determined by Fulton County. Submitting the lowest Bid, as published at the Bid opening, does not constitute an award or the mutual expectation of an award of a Contract and purchase order. For purposes of this notice and the attached Bid sheets, a purchase order is a Contract to provide items including goods, materials, equipment, and services and is intended to have the full force and effect of a Contract. A breach of the terms and conditions of a purchase order constitutes a breach of Contract.
30. Bids for projects that are solicited pursuant to the Georgia Local Government Public Works Construction Law (O.C.G.A. § 36-91-1 et seq.) may withdrawn as follows:

Competitive sealed Bids ("Bid") may not be revoked or withdrawn until 60 days after the time set by the governmental entity for opening of Bids. At the end of this time period, the Bid will cease to be valid, unless the Bidder provides written notice to the County prior to the scheduled expiration date that the Bid will be extended for a time period specified by the County.
31. In the evaluation of the Bids, any award will be subject to the Bid being:
 - A. Compliant to the specification – meets form, fit, and function requirements stated or implied in the specification.
 - B. Lowest cost to the County over projected useful life.
 - C. Administratively Compliant – Including all required bonds, insurance, established quality of work and general reputation, financial responsibility, relevant experience, and related criteria.
32. All proposals and Bids submitted to Fulton County are subject to the Georgia "Open Records Act", Official Code of Georgia, Annotated (O.C.G.A.) §50-18-70 et seq.
33. All proposals and Bids submitted to Fulton County involving Utility Contracting are subject to the Georgia law governing licensing of Utility Contractors, O.C.G.A. §43-14-8.2(h). The Utility Contractor License number of the person who will perform the utility work shall be written on the face of the Bid envelope.
34. The apparent silence of this specification, and any supplement thereto, as to details, of the omission from it of a detailed description concerning any point, will be regarded as meaning only the best commercial practices are to prevail. Only materials of the highest quality, correct type, size, and design are to be used. All interpretations of this specification will be made upon the basis of this statement, with Fulton County interpretation to prevail.
35. It is the policy of Fulton County that the evaluation and award process for County contracts shall be free from both actual and perceived impropriety, and that contacts between potential vendors and County officials, elected officials and staff regarding pending awards of County contracts shall be prohibited.

- A. No person, firm, or business entity, however situated or composed, obtaining a copy of or responding to this solicitation, shall initiate or continue any verbal or written communication regarding this solicitation with any County officer, elected official, employee, or designated County representative, between the date of the issuance of this solicitation and the date of the County Manager's recommendation to the Board of Commissioners for award of the subject contract, except as may otherwise be specifically authorized and permitted by the terms and conditions of this solicitation.
 - B. All verbal and written communications initiated by such person, firm, or entity regarding this solicitation, if same are authorized and permitted by the terms and conditions of this solicitation, shall be directed to the Purchasing Agent.
 - C. Any violation of this prohibition of the initiation or continuation of verbal or written communications with County officers, elected officials, employees, or designated County representatives shall result in a written finding by the Purchasing Agent that the submitted Bid or proposal of the person, firm, or entity in violation is "non-responsive", and same shall not be considered for award.
36. Any Bidder intending to respond to this solicitation as a Joint Venture must submit an executed Joint Venture Agreement with this Bid. This agreement must designate those persons or entities authorized to execute documents or otherwise bind the Joint Venture in all transactions with Fulton County, or are accompanied by a document, binding upon the Joint Venture and its constituent members, making such designation. Bids from Joint Ventures that do not include these documents will be rejected as being "non-responsive".
37. Any Bidder intending to respond to this solicitation must complete all of the Procurement Affidavit Forms provided in this solicitation. Bids that do not include these completed documents will be rejected as being "non-responsive".

END OF SECTION NO. 1

SECTION 2**BID FORM****FULTON COUNTY BRIDGE MAINTENANCE - 2006**

Submitted _____, 2006.

The undersigned, as Bidder, hereby declares that the only person or persons interested in the Bid as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Bid or in the Contract to be entered into; that this Bid is made without connection with any other person, company or parties making a Bid; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the Drawings and Specifications for the work and contractual documents relative thereto, and has read all instructions to Bidders and General Conditions furnished prior to the openings of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees, if this Bid is accepted, to contract with the Board of Commissioners of Fulton County, Atlanta, Georgia, in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary, and to complete the construction of the work in full and complete accordance with the shown, noted, and reasonably intended requirements of the Specifications and Contract Documents to the full and entire satisfaction of the Board of Commissioners of Fulton County, Atlanta, Georgia, with a definite understanding that no money will be allowed for extra work except as set forth in the attached General Conditions and Contract Documents for the following prices.

THE BASE BID IS THE AMOUNT UPON WHICH THE BIDDER WILL BE FORMALLY EVALUATED AND WHICH WILL BE USED TO DETERMINE THE LOWEST RESPONSIBLE BIDDER.

The base bid may not be withdrawn or modified for a period of sixty (60) days following the receipt of bids.

BASE BID AMOUNT (Do not include any Bid Alternates)

\$ _____
(Dollar Amount In Numbers)

(Dollar Amount in Words)

The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on a date to be specified in a written order of the Contracting Officer and to fully complete all work under this Contract within One Hundred and Twenty (120) consecutive calendar days from and including said date.

The Bidder declares that he understands that the quantities shown for the unit prices items are subject to either increase or decrease, and that should the quantities of any of the items of work be increased, the Bidder proposes to do the additional work at the unit prices stated herein; and should the quantities be decreased, the Bidder also understands that payment will be made on the basis of actual quantities at the unit price bid and will make no claim for anticipated profits for any decrease in quantities; and that actual

quantities will be determined upon completion of work, at which time adjustments will be made to the contract amount by direct increase or decrease.

The Bidder furthermore agrees that, in the case of a failure on his part to execute the Contract Agreement and Bonds within ten days after receipt of conformed contract documents for execution, the Bid Bond accompanying his bid and the monies payable thereon shall be paid into the funds of the Owner as liquidated damages for such failure.

The undersigned acknowledges receipt of the following addenda (list by the number and date appearing on each addendum) and thereby affirms that its Bid considers and incorporates any modifications to the originally issued Bidding Documents included therein.

ADDENDUM # _____ DATED _____

BIDDER: _____

Signed by: _____
[Type or Print Name]

Title: _____

Business Address: _____

Business Phone: _____

Bidder's Contractor License No: _____
[State/County]

License Expiration Date: _____

Enclosed is a Bid Bond in the approved form, in the sum of:

_____ Dollars

(\$_____) according to the conditions of "Instructions to Bidders" and provisions thereof.

END OF SECTION NO. 2

SECTION 3**PURCHASING FORMS & INSTRUCTIONS**

This section contains the procurement forms that are required to be executed and submitted with the bid package. This section does not contain all forms required to be included with the bid package submittal.

To be deemed responsive to this BID, Bidders must provide the information requested and complete in detail all Purchasing Forms. The appropriate individual(s) authorized to commit the Bidder to the Project must sign the Purchasing Forms. Bidders should reproduce each Purchasing Form, as required, and complete the appropriate portions of the forms provided in this section.

- Form A: Non-Collusion Affidavit of Prime Bidder
- Form B: Non-Collusion Affidavit of Sub-Contractors
- Form C: Certificate of Acceptance of Request for Bid Requirements
- Form D: Contractor's Georgia Utility License Certification
- Form E: Certification Regarding Debarment
- Form F: Corporate Certification
- Form G: Disclosure Form and Questionnaire

FORM A

NON-COLLUSION AFFIDAVIT OF BIDDER/OFFEROR

STATE OF GEORGIA

COUNTY OF FULTON

I, _____ certify that pursuant to Fulton County Code Section 2-320 (11), this bid or proposal is made without prior understanding, agreement or connection with any corporation, firm or person submitting a bid for the same work, labor or service to be done or the supplies, materials or equipment to be furnished and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of state and federal law and can result in fines, prison sentences and civil damages awards. I agree to abide by all conditions of this bid or proposal and certify that I am authorized to sign this bid or proposal for the bidder.

Affiant further states that pursuant to O.C.G.A. Section 36-91-21 (d) and (e), _____ has not, by itself or with others, directly or indirectly, prevented or attempted to prevent competition in such bidding or proposals by any means whatsoever. Affiant further states that (s)he has not prevented or endeavored to prevent anyone from making a bid or offer on the project by any means whatever, nor has Affiant caused or induced another to withdraw a bid or offer for the work.

Affiant further states that the said offer of _____ is bona fide, and that no one has gone to any supplier and attempted to get such person or company to furnish the materials to the bidder only, or if furnished to any other bidder, that the material shall be at a higher price.

(COMPANY NAME)

(PRESIDENT/VICE PRESIDENT)

Sworn to and subscribed before me this _____ day of _____, 200__.

(SECRETARY/ASSISTANT SECRETARY)

(Affix corporate seal here, if a corporation)

Notary Public: _____

County: _____

Commission Expires: _____

NOTE:

IF THE OFFEROR IS A PARTNERSHIP, ALL OF THE PARTNERS AND ANY OFFICER, AGENT, OR OTHER PERSON WHO MAY HAVE REPRESENTED OR ACTED FOR THEM IN BIDDING FOR OR PROCURING THE CONTRACT SHALL ALSO MAKE THIS OATH.

IF THE OFFEROR IS A CORPORATION, ALL OFFICERS, AGENTS, OR OTHER PERSONS WHO MAY HAVE ACTED FOR OR REPRESENTED THE CORPORATION IN BIDDING FOR OR PROCURING THE CONTRACT SHALL MAKE THE OATH.

FORM B

NON-COLLUSION AFFIDAVIT OF SUBCONTRACTOR

STATE OF GEORGIA

COUNTY OF FULTON

I, _____ certify that pursuant to Fulton County Code Section 2-320 (11), this bid or proposal is made without prior understanding, agreement or connection with any corporation, firm or person submitting a bid for the same work, labor or service to be done or the supplies, materials or equipment to be furnished and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of state and federal law and can result in fines, prison sentences and civil damages awards. I agree to abide by all conditions of this bid or proposal and certify that I am authorized to sign this bid or proposal for the bidder.

Affiant further states that pursuant to O.C.G.A. Section 36-91-21 (d) and (e), _____ has not, by itself or with others, directly or indirectly, prevented or attempted to prevent competition in such bidding or proposals by any means whatsoever. Affiant further states that (s)he has not prevented or endeavored to prevent anyone from making a bid or offer on the project by any means whatever, nor has Affiant caused or induced another to withdraw a bid or offer for the work.

Affiant further states that the said offer of _____ is bona fide, and that no one has gone to any supplier and attempted to get such person or company to furnish the materials to the bidder only, or if furnished to any other bidder, that the material shall be at a higher price.

(COMPANY NAME)

(PRESIDENT/VICE PRESIDENT)

Sworn to and subscribed before me this _____ day of _____, 200__.

(SECRETARY/ASSISTANT SECRETARY)

(Affix corporate seal here, if a corporation)

Notary Public: _____

County: _____

Commission Expires: _____

NOTE:

IF THE OFFEROR IS A PARTNERSHIP, ALL OF THE PARTNERS AND ANY OFFICER, AGENT, OR OTHER PERSON WHO MAY HAVE REPRESENTED OR ACTED FOR THEM IN BIDDING FOR OR PROCURING THE CONTRACT SHALL ALSO MAKE THIS OATH.

IF THE OFFEROR IS A CORPORATION, ALL OFFICERS, AGENTS, OR OTHER PERSONS WHO MAY HAVE ACTED FOR OR REPRESENTED THE CORPORATION IN BIDDING FOR OR PROCURING THE CONTRACT SHALL MAKE THE OATH.

FORM C

FULTON COUNTY CERTIFICATE OF ACCEPTANCE OF BID/PROPOSAL REQUIREMENTS

This Is To Certify That On This Day Bidder/Proposer Acknowledges That He/She Has Read This Bid Document, Pages ____ To ____ Inclusive, Including Addendum(s) ___ To ___, And/Or Appendices ___ To , In Its Entirety, And Agrees That No Pages Or Parts Of The Document Have Been Omitted, That He/She Understands, Accepts And Agrees To Fully Comply With The Requirements Therein, And That The Undersigned Is Authorized By The Bidding/Proposing Company To Submit The Bid/Proposal Herein And To Legally Obligate The Bidder/Proposer Thereto.

Company: _____

Signature: _____

Name: _____

Title: _____

Date: _____

(Corporate Seal)

FORM D

CONTRACTOR'S GEORGIA UTILITY LICENSE CERTIFICATION

Contractor's Name: _____

Utility Contractor's Name: _____

Expiration Date of License: _____

(ATTACHED COPY OF LICENSE)

I certify that the above information is true and correct and that the classification noted is applicable to the Bid for this Project.

Signed: _____

Date: _____

FORM E

CERTIFICATION REGARDING DEBARMENT

- (1) The Offeror certifies that neither it or its subcontractors is presently debarred, suspended, proposed for debarment, declared ineligible, or otherwise excluded from doing business with any government agency. Any such exclusion may cause prohibition of your firm from participating in any procurement by the Fulton County Government.
- (1) If the Offeror is unable to certify to any of the statements in this certification, such Offeror or subcontractor shall attach an explanation to this bid or proposal.

INSTRUCTIONS FOR CERTIFICATION

By signing and submitting this certification, the Offeror is providing the certification set out below:

- (1) The certification in this clause is a material representation of fact upon which reliance will be placed. If it is later determined that the prospective vendor knowingly rendered a false certification, the Purchasing Agent may pursue all available remedies, including suspension and/or debarment, for withdrawal of award or termination of a contract.
- (2) The prospective Offeror shall provide immediate written notice to the Purchasing Agent if at anytime the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- (3) Offeror shall be under a continuing duty to immediately inform the Purchasing Agent in writing of any changes, if as a result of such changes, the Offeror certification regarding debarment is affected.

DEBARMENT ORDINANCE

The following Section 2-322 of Fulton County Code of Laws establishes the procedure for the debarment of contractors.

(a) Authority to suspend.

After reasonable notice to the entity involved and reasonable opportunity for that entity to be heard, the Purchasing Agent, after consultation with user department, the County Manager and the County Attorney shall have the authority to suspend an entity for cause from consideration for award of county contracts. As used in this section, the term entity means any business entity, individual, firm, contractor, subcontractor or business corporation, partnership, limited liability corporation, firm, contractor, subcontractor or business structured; provided, further, that any such entity shall also be subject to suspension under this section if any of its constituents, members, subcontractors at any tier of such entity's and the entity, or any constituent or member, knew or should have known of the commission of the act. The suspension shall be for a period not to exceed three (3) years unless cause is based on a felony conviction for an offense related or associated with fraudulent contracting or misappropriation of funds wherein the suspension shall not exceed seven (7) years.

(b) Causes for Suspension. The causes for suspension include:

- 1) Conviction for commission of a criminal offense as an incident to obtain or attempting to obtain a public or private contract or subcontract, or in performance of such contract or subcontract;
- 2) Conviction of state or federal statutes of embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property or other offense indicating a lack of business

integrity or business honesty which currently, seriously and directly affects responsibility as a county contractor.

- 3) Conviction of state or federal anti-trust statues arising out of the solicitation and submission of bids and proposals;
- 4) Violation of contract provisions, as set forth below, of a character which is regarded by the Purchasing Agent to be so serious as to justify suspension action:
 - a. Failure to perform in accordance with the specifications within a time limit provided in a county contract;
 - b. A recent record of failure to perform or unsatisfactory performance in accordance with the terms of one or more contracts; provided, that failure to perform or unsatisfactory performance caused by acts beyond the control of the contractor shall not be considered to be a basis for suspension;
 - c. Material representation of the composition of the ownership or workforce or business entity certified to the county as a minority business enterprise; or
 - d. Falsification of any documents.
- 5) For violation of the ethical standards set forth in Fulton County Code Chapter 9, Code of Ethics.
- 6) Knowing misrepresentation to the county, of the use which a majority owned contractor intends to make a minority business enterprise (a business entity at least 51 percent of which is owned and controlled by minority persons, as defined in Fulton County Code Chapter 6, Article B, Minority Business Enterprise Affirmative Action Program and certified as such by the County) as a subcontractor or a joint venture partner, in performing work under contract with the County.

Failure to fully and truthfully provide the information required, may result in the disqualification of your bid/proposal from consideration or termination of the Contract, once awarded. This document must be completed and included as a part of the bid/proposal package along with other required documents.

[SIGNATURES ON NEXT PAGE]

Under penalty of perjury, I declare that I have examined this certification and all attachments hereto, if applicable, to the best of my knowledge and belief, and all statements contained hereto are true, correct, and complete.

On this _____ day of _____, 2006

(Legal Name of Offeror) (Date)

(Signature of Authorized Representative) (Date)

(Title)

FORM F

CORPORATE CERTIFICATE

Corporations

I, _____, certify that I am the Secretary of the Corporation named as Contractor in the foregoing Bid; that _____, who signed said Bid on behalf of the Contractor was then _____ of said Corporation; that said Bid was duly signed for and on behalf of said Corporation by authority of its Board of Directors, and is within the scope of its corporate powers; that said Corporation is organized under the laws of the State of _____.

This _____ day of _____, 20 ____ .

(SEAL) must be affixed

Partnership or other entities:

I, _____, certify that I am authorized to sign to commit _____ named as Contractor in the foregoing Bid. That said company is formed under the laws of the State of _____.

This _____ day of _____, 20 ____ .

It is necessary to attach a letter on company letterhead and dated on or after the date of this certificate that the individual signing to commit the partnership or other entity not a corporation to the stipulations of this bid is authorized to do so. The letter should be signed by an individual working for the company who has knowledge of this fact.

FORM G

OFFEROR'S DISCLOSURE FORM AND QUESTIONNAIRE

1. Please provide the names and business addresses of each of the Offeror's firm's officers and directors.

For the purposes of this form, the term "Offeror" means an entity that responds to a solicitation for a County contract by either submitting a proposal in response to a Request for Proposal or a Request for Qualification or a Bid in response to an Invitation to Bid.

Describe accurately, fully and completely, their respective relationships with said Offeror, including their ownership interests and their anticipated role in the management and operations of said Offeror.

2. Please describe the general development of said Offeror's business during the past five (5) years, or such shorter period of time that said Offeror has been in business.
3. Please state whether any employee, agent or representative of said Offeror who is or will be directly involved in the subject project has or had within the last five (5) years: (i) directly or indirectly had a business relationship with Fulton County; (ii) directly or indirectly received revenues from Fulton County; or (iii) directly or indirectly receives revenues from the result of conducting business on Fulton County property or pursuant to any contract with Fulton County. Please describe in detail any such relationship.

LITIGATION DISCLOSURE:

Failure to fully and truthfully disclose the information required, may result in the disqualification of your bid or proposal from consideration or termination of the Contract, once awarded.

1. Please state whether any of the following events have occurred in the last five (5) years with respect to said Offeror. If any answer is yes, explain fully the following:
 - (a) whether a petition under the federal bankruptcy laws or state insolvency laws was filed by or against said Offeror, or a receiver fiscal agent or similar officer was appointed by a court for the business or property of said Offeror;
 - (b) whether Offeror was subject of any order, judgment, or decree not subsequently reversed, suspended or vacated by any court of competent jurisdiction, permanently enjoining said Offeror from engaging in any type of business practice, or otherwise eliminating any type of business practice; and
 - (c) whether said Offeror's business was the subject of any civil or criminal proceeding in which there was a final adjudication adverse to said Offeror, which directly arose from activities conducted by the business unit or corporate division of said Offeror which submitted a bid or proposal for the subject project. If so please explain.
2. Have you or any member of your firm or team to be assigned to this engagement ever been indicted or convicted of a criminal offense within the last five (5) years?

Circle One:

YES

NO

3. Have you or any member of your firm or team been terminated (for cause or otherwise) from any work being performed for Fulton County or any other Federal, State or Local Government ?

Circle One: YES NO

4. Have you or any member of your firm or team been involved in any claim or litigation adverse to Fulton County or any other federal, state or local government, or private entity during the last three (3) years?

Circle One: YES NO

5. Has any offeror, member of offeror's team, or officer of any of them (with respect to any matter involving the business practices or activities of his or her employer), been notified within the five (5) years preceding the date of this offer that any of them are the target of a criminal investigation, grand jury investigation, or civil enforcement proceeding?

Circle One: YES NO

If you have answered "YES" to any of the above questions, please indicate the name(s) of the person(s), the nature, and the status and/or outcome of the information, indictment, conviction, termination, claim or litigation, the name of the court and the file or reference number of the case, as applicable. Any such information should be provided on a separate page, attached to this form and submitted with your proposal.

NOTE: If any response to any question set forth in this questionnaire has been disclosed in any other document, a response may be made by attaching a copy of such disclosure. (For example, said Offeror's most recent filings with the Securities and Exchange Commission ("SEC") may be provided if they are responsive to certain items within the questionnaire.) However, for purposes of clarity, Offeror should correlate its responses with the exhibits by identifying the exhibit and its relevant text.

Disclosures must specifically address, completely respond and comply with all information requested and fully answer all questions requested by Fulton County. Such disclosure must be submitted at the time of the bid or proposal submission and included as a part of the bid/proposal submitted for this project. Disclosure is required for Offerors, joint venture partners and first-tier subcontractors.

Failure to provide required disclosure, submit officially signed and notarized documents or respond to any and all information requested/required by Fulton County can result in the bid/proposal declared as non-responsive. This document must be completed and included as a part of the bid/proposal package along with other required documents.

[SIGNATURES ON NEXT PAGE]

Under penalty of perjury, I declare that I have examined this questionnaire and all attachments hereto, if applicable, to the best of my knowledge and belief, and all statements contained hereto are true, correct, and complete.

On this _____ day of _____, 2006

(Legal Name of Proponent) (Date)

(Signature of Authorized Representative) (Date)

(Title)

Sworn to and subscribed before me,

this _____ day of _____, 2006

(Notary Public) (Seal)

Commission Expires _____
(Date)

END OF SECTION NO. 3

SECTION 4

BID BOND REQUIREMENTS

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 be in the amount of not 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.

BID BOND

BRIDGE MAINTENANCE – 2006

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, 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 Fulton County Government, 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 Fulton County Government, for 06ITBROADSK-RS ANNUAL ROAD RESURFACING;

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 a Contract in accordance with the Bid and upon the terms, conditions and prices set forth therein, in the form and manner required by the Fulton County Government, and execute sufficient and satisfactory Performance and Payments Bonds payable to the Fulton County Government, each in the amount of one hundred (100%) percent of the total contract price in form and with security satisfactory to said Fulton County Government, 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 Fulton County Government, 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.

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

_____ Dollars
(\$_____)

being in the amount of five (5%) percent of the CONTRACT Sum. The money payable on this bond shall be paid to the Fulton County Government, for the failure of the Bidder to execute a CONTRACT within ten (10) days after receipt of the Contract form and at the same time furnish a Payment Bond and Performance Bond.

IN TESTIMONY THEROF, the PRINCIPAL and SURETY have caused these presents to be duly signed and sealed this _____ day of _____, 2006.

(Signatures on next page)

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

(SEAL) BY _____

END OF SECTION NO. 4

SECTION 5

CONTRACT COMPLIANCE REQUIREMENTS

NON-DISCRIMINATION IN CONTRACTING AND PROCUREMENT

Policy Statement: It is the policy of Fulton County Government that discrimination against businesses by reason of the race, color, gender or national origin of the ownership of any such business is prohibited. Furthermore, it is the policy of the Board of Commissioners ("Board") that Fulton County and all vendors and contractors doing business with Fulton County shall provide to all businesses the opportunity to participate in contracting and procurement paid, in whole or in part, with monetary appropriations of the Board. Similarly, it is the policy of the Board that the contracting and procurement practices of Fulton County should not implicate Fulton County as either an active or passive participant in the discriminatory practices engaged in by private contractors seeking to obtain contracts with Fulton County.

Equal Business Opportunity Plan (EBO Plan): In addition to the proposal submission requirements, each vendor **must** submit an Equal Business Opportunity Plan (EBO Plan) with their bid/proposal. The EBO Plan is designed to enhance the utilization of a particular racial, gender or ethnic group by a bidder/proposer, contractor, or vendor or by Fulton County. The respondent **must** outline a plan of action to encourage and achieve diversity and equality in the available procurement and contracting opportunities with *this solicitation*.

The EBO Plan **must** identify and include:

1. Potential opportunities within the scope of work of *this solicitation* that will allow for participation of racial, gender or ethnic groups.
2. Efforts that will be made by the bidder/proposer to encourage and solicit minority and female business utilization in this solicitation.

Fulton County encourages joint ventures, teaming, partnering and mentor-protégé relationships with minority and female businesses in an effort to achieve contracting and procurement diversity.

Prompt Payment: The prime contractor **must** certify in writing and **must** document on the Exhibit G Form (Prime Contractor/Subcontractor Utilization Report) that all subcontractors, sub-consultants and suppliers have been promptly paid for work and materials, (less any retainage by the prime contractor prior to receipt of any further progress payments). In the event the prime contractor is unable to pay subcontractors, sub-consultants or suppliers until it has received a progress payment from Fulton County, the prime contractor shall pay all subcontractors, sub-consultants or suppliers funds due from said progress payments within forty-eight (48) hours of receipt of payment from Fulton County. In no event shall a subcontractor, sub-consultant or supplier be paid later than fifteen (15) days as provided for by state law.

REQUIRED FORMS AND EBO PLAN:

In order to be compliant with the intent and provisions of the Fulton County Non-Discrimination in Purchasing and Contracting Ordinance (99-0960), bidders/proposers **must** submit the following completed documents. Failure to provide this information **shall** result in the bid/proposal being deemed non-responsive:

- **Exhibit A** - Promise of Non-Discrimination
- **Exhibit B** - Employment Report
- **Exhibit C** - Schedule of Intended Subcontractor Utilization
- **Exhibit D** - Letter of Intent to Perform As a Subcontractor or Provide Materials or Services
- **Exhibit E** - Declaration Regarding Subcontractor Practices
- **Exhibit F** - Joint Venture Disclosure Affidavit
- **Equal Business Opportunity Plan (EBO Plan)** – This document is not a form. It is a statement created by the bidder/proposer on its company letter head addressing the EBO Plan requirements.

All Contract Compliance documents (Exhibits A – F and EBO Plan) are to be placed in a **separate sealed envelope** clearly marked “Contract Compliance”. The EBO Plan must be submitted on company letterhead. These documents are considered part of and should be submitted with the Technical Proposal.

The following document **must** be completed as instructed if awarded the bid:

- **Exhibit G** - Prime Contractor's Subcontractor Utilization Report

EXHIBIT A – PROMISE OF NON-DISCRIMINATION

“Know all persons by these presents, that I/WE (_____),
Name

_____ Title _____ Firm Name

Hereinafter “Company”), in consideration of the privilege to bid on or obtain contracts funded, in whole or in part, by Fulton County, hereby consent, covenant and agree as follows:

- 1) No person shall be excluded from participation in, denied the benefit of, or otherwise discriminated against on the basis of race, color, national origin or gender in connection with any bid submitted to Fulton County for the performance of any resulting there from,
- 2) That it is and shall be the policy of this Company to provide equal opportunity to all businesses seeking to contract or otherwise interested in contracting with this Company without regard to the race, color, gender or national origin of the ownership of this business,
- 3) That the promises of non-discrimination as made and set forth herein shall be continuing in nature and shall remain in full force and effect without interruption,
- 4) That the promise of non-discrimination as made and set forth herein shall be made a part of, and incorporated by reference into, any contract or portion thereof which this Company may hereafter obtain,
- 5) That the failure of this Company to satisfactorily discharge any of the promises of non-discrimination as made and set forth herein shall constitute a material breach of contract entitling the Board to declare the contract in default and to exercise any and all applicable rights and remedies, including but not limited to cancellation of the contract, termination of the contract, suspension and debarment from future contracting opportunities, and withholding and/or forfeiture of compensation due and owing on a contract; and
- 6) That the bidder shall provide such information as may be required by the Director of Contract Compliance pursuant to Section 4.4 of the Fulton County Non-Discrimination in Purchasing and Contracting Ordinance.

SIGNATURE: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

EXHIBIT B – EMPLOYMENT REPORT

The demographic employment make-up for the bidder **must** be identified and submitted with this bid/proposal. In addition, if subcontractors will be utilized by the bidder/proposer to complete this project, then the demographic employment make-up of the subcontractor(s) must be identified and submitted with this bid.

EMPLOYEES

CATEGORY	NATIVE INDIAN		AFRICAN AMERICAN		ASIAN AMERICAN		HISPANIC AMERICAN		CACUSIAN AMERICAN		OTHER	
	M	F	M	F	M	F	M	F	M	F	M	F
Male/Female												
Mgmt/Official												
Professional (Arch., P.E., etc.)												
Supervisors												
Office/ Clerical												
Craftsmen												
Laborers												
Others (Specify)												
TOTALS												

FIRM'S NAME: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

This completed form is for (Check one) _____ Bidder/Proposer _____ Subcontractor

Submitted by: _____ Date Completed: _____

EXHIBIT C – SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

If the bidder/proposer intends to subcontract any portion of this scope of work/service(s), this form **must be** completed and **submitted with the bid/proposal**. All prime bidders/proposers **must** include Letter(s) of Intent (Exhibit D) in the bid document for all subcontractors who will be utilized under the scope of work/services.

Prime Bidder/Proposer: _____

ITB/RFP NUMBER: _____

Project Name or Description of Work/Service(s): _____

- 1. My firm, as Prime Bidder/Proposer on this scope of work/service(s) is _____ is not _____ a minority or female owned and controlled business. (Please indicate below the portion of work, including, percentage of bid amount that your firm will carry out directly):

If the Prime Bidder/Proposer is a Joint Venture, please complete Exhibit F: Joint Venture Disclosure Affidavit and attach a copy of the executed Joint Venture Agreement.

- 2. Sub-Contractors (Including suppliers) to be utilized in the performance of this scope of work/service(s), if awarded, are:

SUBCONTRACTOR NAME: _____

ADDRESS: _____

PHONE: _____

CONTACT PERSON: _____

ETHNIC GROUP*: _____ COUNTY CERTIFIED** _____

WORK TO BE PERFORMED: _____

DOLLAR VALUE OF WORK: \$ _____ PERCENTAGE VALUE: _____ %

***Ethnic Groups: African American (AABE); Asian American (ABE); Hispanic American (HBE); Native American (NABE); White Female American (WFBE); **If yes, attach copy of recent certification letter.**

EXHIBIT C – SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

SUBCONTRACTOR NAME: _____
ADDRESS: _____

PHONE: _____
CONTACT PERSON: _____
ETHNIC GROUP*: _____ COUNTY CERTIFIED** _____
WORK TO BE PERFORMED: _____
DOLLAR VALUE OF WORK: \$ _____ PERCENTAGE VALUE: _____ %

SUBCONTRACTOR NAME: _____
ADDRESS: _____

PHONE: _____
CONTACT PERSON: _____
ETHNIC GROUP*: _____ COUNTY CERTIFIED** _____
WORK TO BE PERFORMED: _____
DOLLAR VALUE OF WORK: \$ _____ PERCENTAGE VALUE: _____ %

SUBCONTRACTOR NAME: _____
ADDRESS: _____

PHONE: _____
CONTACT PERSON: _____
ETHNIC GROUP*: _____ COUNTY CERTIFIED** _____
WORK TO BE PERFORMED: _____
DOLLAR VALUE OF WORK: \$ _____ PERCENTAGE VALUE: _____ %

SUBCONTRACTOR NAME: _____
ADDRESS: _____

PHONE: _____
CONTACT PERSON: _____
ETHNIC GROUP*: _____ COUNTY CERTIFIED** _____
WORK TO BE PERFORMED: _____
DOLLAR VALUE OF WORK: \$ _____ PERCENTAGE VALUE: _____ %

***Ethnic Groups: African American (AABE); Asian American (ABE); Hispanic American (HBE); Native American (NABE); White Female American (WFBE); **If yes, attach copy of recent certification letter.**

EXHIBIT C – SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

Total Dollar Value of Subcontractor Agreements: (\$)
--

Total Percentage Value: (%)

CERTIFICATION: The undersigned certifies that he/she has read, understands and agrees to be bound by the Bid provisions, including the accompanying Exhibits and other terms and conditions regarding subcontractor utilization. The undersigned further certifies that he/she is legally authorized by the Bidder to make the statement and representation in this Exhibit and that said statements and representations are true and correct to the best of his/her knowledge and belief. The undersigned understands and agrees that if any of the statements and representations are made by the Bidder knowing them to be false, or if there is a failure of the intentions, objectives and commitments set forth herein without prior approval of the County, then in any such event the Contractor's acts or failure to act, as the case may be, shall constitute a material breach of the contract, entitling the County to terminate the Contract for default. The right to so terminate shall be in addition to, and in lieu of, any other rights and remedies the County may have for other defaults under the contract.

Signature/Title: _____

Firm or Corporate Name: _____

Address: _____

Telephone: () _____

Fax Number: () _____

Email Address: _____

EXHIBIT D

LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR

OR

PROVIDE MATERIALS OR SERVICES

This form **must** be completed by **ALL** known subcontractors/suppliers and submitted with the bid. The Prime Contractor **must** submit Letters of Intent for ALL known subcontractors/suppliers at time of bid submission.

To: _____
 (Name of Prime Contractor Firm)

From: _____
 (Name of Subcontractor Firm)

ITB/RFP Number: _____

Project Name: _____

The undersigned is prepared to perform the following described work or provide materials or services in connection with the above project (specify in detail particular work items, materials, or services to be performed or provided):

Description of Work	Project Commence Date	Project Completion Date	Estimated Dollar Amount

 (Prime Bidder)

 (Subcontractor)

Signature _____

Signature _____

Title _____

Title _____

Date _____

Date _____

EXHIBIT E – DECLARATION REGARDING SUBCONTRACTING PRACTICES

If the bidder/proposer **does not intend to subcontract** any portion of the scope of work services(s), this form **must be** completed and submitted with the bid.

_____ Hereby declares that it is my/our intent to
(Bidder)

Perform 100% of the work required for _____
(IFB/RFP Number)

(Description of Work)

In making this declaration, the bidder/proposer states the following:

1. That the bidder does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform **all elements** of the work on this project with his/her own current work forces;
2. If it should become necessary to subcontract some portion of the work at a later date, the bidder will comply with all requirements of the County’s Non-Discrimination Ordinance in providing equal opportunities to all firms to subcontract the work. The determination to subcontract some portion of the work at a later date shall be made in good faith and the County reserves the right to require additional information to substantiate a bidder’s decision to subcontract work following the award of the contract. Nothing contained in this provision shall be employed to circumvent the spirit and intent of the County’s Non-Discrimination Ordinances;
3. The bidder will provide, upon request, information sufficient for the County to verify Item Number one.

AUTHORIZED COMPANY REPRESENTATIVE

Name: _____ **Title:** _____ **Date:** _____

Signature: _____

Firm: _____

Address: _____

Phone Number: _____

Fax Number: _____

Email Address: _____

EXHIBIT F – JOINT VENTURE DISCLOSURE AFFIDAVIT

IFB No. _____

Project Name FULTON COUNTY BRIDGE MAINTENANCE - 2006

This form must be completed and submitted with the bid if a Joint Venture approach is to be undertaken.

The firms listed below do hereby declare that they have entered into a joint venture agreement pursuant to the above mentioned project. The information requested below is to clearly identify and explain the extent of participation of each firm in the proposed joint venture. All items must be properly addressed before the business entity can be evaluated.

1. Firms:

1) Name of Business: _____

Street Address: _____

City/State/Zip: _____

County: _____

Nature of Business: _____

2) Name of Business: _____

Street Address: _____

City/State/Zip: _____

County: _____

Nature of Business: _____

3) Name of Business: _____

Street Address: _____

City/State/Zip: _____

County: _____

Nature of Business: _____

NAME OF JOINT VENTURE (If applicable): _____

OFFICE ADDRESS: _____

PRINCIPAL OFFICE: _____

OFFICE PHONE: _____

EXHIBIT F – JOINT VENTURE DISCLOSURE AFFIDAVIT

Note: Attach additional sheets as required

1. Describe the capital contributions by each joint venturer and accounting thereof. Indicate the percentage make-up for each joint venture partner.
2. Describe the financial controls of the joint venture, e.g., will a separate cost center be established? Which venturer will be responsible for keeping the books? How will the expense therefore be reimbursed? What is the authority of each joint venture to commit or obligate the order?
3. Describe any Ownership, options for Ownership, or loans between the joint ventures. Identify terms thereof.
4. Describe the estimate contract cash flow for each joint venturer.
5. To what extent and by whom will the on-site work be supervised?
6. To what extent and by whom will the administrative office be supervised?
7. Which joint venturer will be responsible for material purchases including the estimated cost thereof? How will the purchase be financed?
8. Which joint venturer will provide equipment? What is the estimated cost thereof? How will the equipment be financed?
9. Describe the experience and business qualifications of each joint venturer.
10. Submit a copy of all joint venture agreements and evidence of authority to do business in the State of Georgia as well as locally, to include all necessary business licenses.
11. Percent of ownership by each joint venture in terms of profit and loss sharing: _____

12. The authority of each joint venturer to commit or obligate the other: _____

13. Number of personnel to be involved in project, their crafts and positions and whether they are employees of the small business enterprise, the majority firm or the joint venture: _____

EXHIBIT F – JOINT VENTURE DISCLOSURE AFFIDAVIT

14. Identification of control and participation in venture; list those individuals who are responsible for day-to-day management and policy decision-maker, including, but not limited to, those with prime responsibility for areas designated below; (use additional sheets if necessary)

<u>Name</u>	<u>Race</u>	<u>Sex</u>	<u>Financial Decisions</u>	<u>Supervision Field Operation</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

In connection with any work that these firms, as a joint venture, might be authorized to perform in connection with above captioned contract, we each do hereby authorize representatives of the Fulton County Department of Contract Compliance, Departments of Purchasing and Finance, under the direction of the County Manger's Office, to examine, from time to time, the books, records and files to the extent that such relate to this County project.

WE DO SOLEMNLY DECLARE AND AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE CONTENTS OF THE FOREGOING DOCUMENT ARE TRUE AND CORRECT, AND THAT WE ARE AUTHORIZED, ON BEHALF OF THE ABOVE FIRMS, TO MAKE THIS AFFIDAVIT AND GRANT THE ABOVE PRIVILEGE.

FOR: _____
(Company)

Date: _____

(Signature of Affiant)

(Printed Name)

(Company)

Date: _____

(Signature of Affiant)

(Printed Name)

State of _____:

County of _____:

On this _____ day of _____, 20_____, before me, appeared

_____, the undersigned known to me to be the person described in the foregoing Affidavit and acknowledge that he (she) executed the same in the capacity therein stated and for the purpose therein contained.

BRIDGE MAINTENANCE - 2006

Contract Compliance Requirements

EXHIBIT G – PRIME CONTRACTOR/SUBCONTRACTOR UTILIZATION REPORT

This report is required to be submitted by the tenth day of each month, with a copy of your payment invoice (schedule of values/payment application) to Contract Compliance. Failure to comply may result in the County commencing proceedings to impose sanctions on the successful bidder, in addition to purchasing any other available legal remedy. Sanctions may include the suspending of any payment or part thereof, termination or cancellation of the contract, and the denial to participate in any future contracts awarded by Fulton County.

REPORTING PERIOD		PROJECT NAME:	
FROM:		PROJECT NUMBER:	
TO:		PROJECT LOCATION:	

PRIME CONTRACTOR		Contract Award Date	Contract Award Amount	Change Order Amount	Contract Period	% Complete to Date
Name:						
Address:						
Telephone #:						

AMOUNT OF REQUISITION THIS PERIOD:\$ _____

TOTAL AMOUNT REQUISITION TO DATE:\$ _____

SUBCONTRACTOR UTILIZATION (add additional rows as necessary)

Name of Sub-contractor	Description of Work	Contract Amount	Amount Paid To Date	Amount Requisition This Period	Contract Period Starting Date	Ending Date
TOTALS						

Executed By: _____

(Signature)

(Printed Name)

END OF SECTION NO. 5

SECTION NO. 6

Insurance and Risk Management Provisions

It is Fulton County Government's practice to obtain Certificates of Insurance from our Contractors and Vendors. Insurance must be written by a licensed agent in a company licensed to write insurance in the State of Georgia. Respondents shall submit with the bid/proposal evidence of insurability satisfactory to Fulton County Government as to form and content. Either of the following forms of evidence is acceptable:

- A letter from an insurance carrier stating that upon your firm/company being the successful Bidder/Respondent that a Certificate of Insurance shall be issued in compliance with the Insurance and Risk Management Provisions outlined below.
- A Certificate of Insurance complying with the Insurance and Risk Management Provisions outlined below (Request for Bid/Proposal number and Project Description must appear on the Certificate of Insurance).

Upon award, the Contractor/Vendor must maintain at their expense, insurance with policy limits equal to or greater than the limits described below. Any and all Insurance Coverage(s) and Bonds required under the terms and conditions of the contract shall be maintained during the entire length of the contract, including any extensions or renewals thereto, and until all work has been completed to the satisfaction of Fulton County Government.

Accordingly the Respondent shall provide a certificate evidencing the following:

1. WORKERS COMPENSATION/EMPLOYER'S LIABILITY INSURANCE – STATUTORY (In compliance with the Georgia Workers Compensation Acts and any other State or Federal Acts or Provisions in which jurisdiction may be granted)

Employer's Liability Insurance	BY ACCIDENT - EACH ACCIDENT	\$500,000.
Employer's Liability Insurance	BY DISEASE - POLICY LIMIT	\$500,000.
(Aggregate)	BY DISEASE - EACH EMPLOYEE	\$500,000.

2. COMMERCIAL GENERAL LIABILITY INSURANCE (Including contractual Liability Insurance)

Bodily Injury and Property Damage Liability	Each Occurrence	-	\$1,000,000
(Other than Products/Completed Operations)	General Aggregate	-	\$2,000,000
Products\Completed Operation	Aggregate Limit -		\$1,000,000
Personal and Advertising Injury	Limits	-	\$1,000,000
Fire Damage	Limits	-	\$100,000

3. BUSINESS AUTOMOBILE LIABILITY INSURANCE

Combined Single Limits	Each Occurrence	-	\$1,000,000
(Including operation of non-owned, owned, and hired automobiles).			

4. ELECTRONIC DATA PROCESSING LIABILITY

(Required if computer contractor)	Limits	-	\$1,000,000
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5. UMBRELLA LIABILITY

(In excess of above noted coverage's)	Each Occurrence	-	\$2,000,000
---------------------------------------	-----------------	---	-------------

6. PROFESSIONAL LIABILITY

Each Occurrence	-	\$1,000,000
-----------------	---	-------------

INDEMNIFICATION AND HOLD HARMLESS AGREEMENT

Contractor/Vendor hereby agrees to release, indemnify, defend and hold harmless the County, it's Commissioners, officers, employees, subcontractors, successors, assigns and agents, from and against any and all losses (including death), claims, damages, liabilities, costs and expenses (including but not limited to all actions, proceedings, or investigations in respect thereof and any costs of judgments, settlements, court costs, attorney's fees or expenses, regardless of the outcome of any such action, proceeding, or investigation), caused by, relating to, based upon or arising out of any act or omission by contractor, it's directors, officers, employees, subcontractors, successors, assigns or agents, or otherwise in connection with it's acceptance, or the performance, or nonperformance, of it's obligations under this agreements.

If the bid/quotation involves construction services the Contractor will be fully responsible for any and all damage to the work during the course of construction, until the point of Final acceptance by the County.

THE RESPONDENT ACKNOWLEDGES HAVING READ, UNDERSTANDING, AND AGREES TO COMPLY WITH THE ABOVE STATEMENTS, AND IS AUTHORIZED TO SIGN CONTRACTS ON BEHALF OF THE RESPONDING COMPANY.

COMPANY: _____ SIGNATURE: _____

NAME: _____ TITLE: _____ DATE: _____

END OF SECTION 6

SECTION 7

AGREEMENT

THIS AGREEMENT by and between **FULTON COUNTY**, a political subdivision of the State of Georgia (hereinafter "the County"), and _____, a Georgia corporation (hereinafter, "the Contractor").

WITNESSETH: That the said Contractor has agreed, and by these presents does agree with the said County, for and in consideration of payments not to exceed \$ _____ to be paid as provided in the Contract Documents and other good and valuable consideration, and under the penalty expressed on Bonds hereto attached, to furnish all equipment, tools, materials, skill, and labor of every description necessary to carry out and complete in good, firm, and substantial, and workmanlike manner. The Work covered by this Contract includes all Work indicated on Plans and Specifications and listed in the Bid entitled:

BRIDGE MAINTENANCE - 2006

The Contractor shall commence the Work with adequate force and equipment within the time specified in any work order issued hereunder and shall complete the work within the time expressed in such work order.

As full compensation for the faithful performance of this Contract, the County shall pay the Contractor in accordance with the General Conditions and the prices stipulated in the Bid, hereto attached.

It is further mutually agreed between the parties hereto that if, at any time after the execution of this Agreement and the Surety Bonds hereto attached for its faithful performance, the County shall deem the surety or sureties upon such bonds to be unsatisfactory, or, if, for any reason, such bonds cease to be adequate to cover the performance of the Work, the Contractor shall, at his expense, within five days after receipt of notice from the County to do so, furnish an additional bond or bonds in such form and amount, and with such surety or sureties as shall be satisfactory to the County. In such event no further payment to the Contractor shall be deemed to be due under this Agreement until such new or additional security for the faithful performance of the Work shall be furnished in manner and form satisfactory to the County.

The Contractor shall commence the Work with adequate force and equipment within 10 days from receipt of Notice to Proceed from the County, and shall complete the work within 365 **calendar** days from the Notice to Proceed or the date work begins, whichever comes first. The Contractor shall remain responsible for performing, in accordance with the terms of the contract, all work assigned prior to the expiration of the said calendar days allowed for completion of the work even if the work is not completed until after the expiration of such days.

For each calendar day that any work remains uncompleted after the time allowed for completion of the work, the Contractor shall pay the County the sum of \$ 500.00 not as a penalty but as liquidated damages, which liquidated damages the County may deduct from any money due the contractor. At the County's convenience and not to it prejudice the County may provide written notice of the commencement of the assessment of liquidated damages. As full compensation for the faithful performance of this Contract, the County shall pay the Contractor in accordance with the General Conditions and the prices stipulated in the Bid, hereto attached.

It is further mutually agreed between the parties hereto that if, at any time after the execution of this Agreement and the Surety Bonds hereto attached for its faithful performance, the County shall deem the surety or sureties upon such bonds to be unsatisfactory, or, if, for any reason, such bonds cease to be adequate to cover the performance of the Work, the Contractor shall, at his expense, within five days after receipt of notice from the County so to do, furnish an additional bond or bonds in such form and amount, and with such surety or sureties as shall be satisfactory to the County. In such event no further payment to the Contractor shall be deemed to be due under this Agreement until such new or additional security for the faithful performance of the Work shall be furnished in manner and form satisfactory to the County.

The Contractor hereby assumes the entire responsibility and liability for any and all injury to or death of any and all persons, including the Contractor's agents, servants, and employees, and in addition thereto, for any and all damages to property caused by or resulting from or arising out of any act or omission in connection with this contract or the prosecution of work hereunder, whether caused by the Contractor or the Contractor's agents, Servants, or employees, or by any of the Contractor's subcontractors or suppliers, and the Contractor shall indemnify and hold harmless the County, the Construction Manager, or any of their subcontractors from and against any and all loss and/or expense which they or any of them may suffer or pay as a result of claims or suits due to, because of, or arising out of any and all such injuries, deaths and/or damage, irrespective of County or Construction Manager negligence (except that no party shall be indemnified for their own sole negligence). The Contractor, if requested, shall assume and defend at the Contractor's own expense, any suit, action or other legal proceedings arising there from, and the Contractor hereby agrees to satisfy, pay, and cause to be discharged of record any judgment which may be rendered against the County and the Construction Manager arising there from.

In the event of any such loss, expense, damage, or injury, or if any claim or demand for damages as heretofore set forth is made against the County or the Construction Manager, the County may withhold from any payment due or thereafter to become due to the Contractor under the terms of this Contract, an amount sufficient in its judgment to protect and indemnify it and the Construction Manager from any and all claims, expense, loss, damages, or injury; and the County, in its discretion, may require the Contractor to furnish a surety bond satisfactory to the County providing for such protection and indemnity, which bond shall be furnished by the Contractor within five (5) days after written demand has been made therefore. The expense of said Bond shall be borne by the Contractor.

This Contract constitutes the full agreement between the parties, and the Contractor shall not sublet, assign, transfer, pledge, convey, sell or otherwise dispose of the whole or any part of this Contract or his right, title, or interest therein to any person, firm or corporation without the previous consent of the County in writing. Subject to applicable provisions of law, this Contract shall be in full force and effect as a Contract, from the date on which a fully executed and approved counterpart hereof is delivered to the Contractor and shall remain and continue in full force and effect until after the expiration of any guarantee period and the Contractor and his sureties are finally released by the County.

This agreement was approved by the Fulton County Board of Commissioners on _____ day of _____, 2006.

Article 1 CONTRACT DOCUMENTS AND PRECEDENCE

This contract consists of the Agreement, the General Conditions, the Special Conditions, the Plans and Specifications, the ITB, the Performance and Payment Bonds, and the Exhibits hereto. In case of any conflict between contract documents, the highest document in the following ranking shall control:

- A. The Agreement
- B. The Special Conditions
- C. The Exhibits (if any)
- D. The Plans and Specifications (if any)
- E. The General Conditions
- F. The ITB

Article 2 DOCUMENTS INCORPORATED BY REFERENCE

This Agreement incorporates by reference the following documents which include the Drawings and Specifications, Base Bid Proposal made by Contractor, General Conditions, Special Conditions, Detailed Specifications, Fulton County Invitation to Bid _____, all obligations, requirements, and certifications therein concerning the Fulton County Non-Discrimination In Contracting and Procurement Policy, as though fully set forth herein, and shall all form an essential part of this Agreement.

Article 3 TERMS OF CONTRACT

The term of the Agreement shall commence on the date of award by the Board of Commissioners and continue for a total contract time up and through November 24, 2006 without further obligation of the County. However, this Agreement, subject to availability of funding and Board of Commissioner approval, may be renewed for four (4) additional twelve (12) month period pending mutual agreement of both parties.

Article 4 DEFINITIONS

Contractor-The entity entering into this agreement with Fulton County to perform the services hereunder.

County-Fulton County, Georgia, a political subdivision of the state of Georgia, acting through the Board of Commissioners, its governing authority and its appointed employees and agents.

Work Order-A written directive from the County requiring the Contractor within the time specified to perform a specific item of work pursuant to the contract at the rates provided therein.

Article 5 TIME OF PERFORMANCE

The Contractor shall perform all tasks within and beginning at the time specified in the individual Work Orders issued pursuant to the contract.

Article 6 PAYMENT

The Contractor shall be paid at the rates established in the price quote in the ITB. The Contractor shall submit a written invoice within thirty days of completing any Work Order hereunder in a form acceptable to the County detailing all work done and accompanied by such documentation as the County may require. If work under any Work Order cannot be completed within 30 days, the Contractor may request progress payments by submitting invoices within 30 days of performing any work. Such invoices shall detail all work done, describe work remaining to be done, and provide a schedule for completion of such work. If any invoice is received after the first of the month, payment within that month cannot be assured.

Article 7 BONDS

The Contractor shall provide performance and payment bonds in an amount equal to 100% of the contract amount. Sureties must be licensed to do business in the State of Georgia, be licensed by the Department of Insurance of the State of Georgia and appear in Department of the Treasury Circular 570.

Article 8 REJECTED WORK

The Contractor shall promptly remove from the project all work rejected by the County for failure to comply with the contract documents and the Contractor shall promptly replace and re-execute the work in accordance with the contract documents and without expense to the County. The Contractor shall also bear the expense of making good all work of other Contractors destroyed or damaged by such removal or replacement.

Article 9 DEFECTIVE WORK

If the Contractor defaults or neglects to carry out any portion of the work in accordance with the contract documents, and fails within three days after receipt of written notice from the County to commence and continue correction of such default or neglect with diligence and promptness, the County may, after three days following receipt by the Contractor of an additional written notice and without prejudice to any other remedy the County may have, make good such deficiencies and complete all or any portion of; any work through such means as the County may select, including the use of a new contractor. In such case, an appropriate change order shall be issued deducting from the payments then or thereafter due the Contractor the cost of correcting such deficiencies. In the event the payments then or; thereafter due the Contractor are not sufficient to cover such amount, the Contractor shall pay the difference to the County on demand.

Article 10 INDEMNIFICATION

The Contractor shall, at his sole cost and expense, indemnify, defend, satisfy all judgments, and hold harmless the County, its officers, agents, employees, and representatives from and against all claims, damages, actions, judgments, costs, penalties, liabilities, losses and expenses, including, but not limited to, attorney's fees arising out of or resulting from the performance of the work, provided that any such claim, damage, action, judgment, cost, penalty, liability, loss, or expense (1) is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the work itself) including the loss of use resulting from, and (2) is caused in whole or in part by any act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether such claim is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge or otherwise reduce any of the rights or obligations of indemnity which would otherwise exist as to any party or person described in this agreement. In any and all claims against the County or any of its officers, agents, employees, or representatives by any employee of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation contained herein shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Contractor or any subcontractor under Worker's Compensation Acts, disability benefit acts, or other employee benefit acts.

In the event of any such loss, expense, damage, or injury, or if any claim or demand for damages as heretofore set forth is made against the County or, the County may withhold from any payment due or thereafter to become due to the Contractor under the terms of this Contract, an amount sufficient in its judgment to protect and indemnify it from any and all claims, expense, loss, damages, or injury; and the County, in its discretion, may require the Contractor to furnish a surety bond satisfactory to the County providing for such protection and indemnity, which bond shall be furnished by the Contractor within five (5) days after written demand has been made therefore. The expense of said Bond shall be borne by the Contractor.

Article 11 SUPERVISION OF WORK

The Contractor shall supervise and direct the work using the Contractor's best skill and attention. The Contractor shall be solely responsible for all construction methods and procedures and shall coordinate all portions of the work pursuant to the contract subject to the overall coordination of the County. All work pursuant to the agreement shall be performed in a skillful and workmanlike manner.

Article 12 RESPONSIBILITY FOR ACTS OF EMPLOYEES

The Contractor shall be responsible to the County for the acts and omissions of its employees, subcontractors, and agents as well as any other persons performing work pursuant to this agreement.

Article 13 PAYMENT FOR LABOR AND MATERIALS

Unless otherwise provided in this agreement, the Contractor shall make all arrangements with necessary support agencies and utility companies, provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the execution and completion of the work.

Article 14 TAXES

The Contractor shall pay all sales, retail, occupational, service, excise, old age benefit and unemployment compensation taxes, consumer, use and other similar taxes, as well as any other taxes or duties on the materials, equipment, and labor for the work provided by the Contractor which are legally enacted by any municipal, county, state, or federal authority, department or agency. The Contractor shall maintain records pertaining to such taxes and levies as well as payment thereof and shall make the same available to the County at all reasonable times for inspection and copying.

Article 15 CONTRACTOR'S WARRANTY

If within one year after the date of acceptance of any work under this agreement any of the work is found to be defective or not in accordance with the contract documents, the Contractor shall correct such work promptly after receipt of written notice from the County to do so. This obligation shall survive both final payment for the work and termination of the contract.

Article 16 TERMINATION FOR CAUSE

If the Contractor is adjudged bankrupt, makes a general assignment for the benefit of creditors, suffers the appointment of a receiver on account of its insolvency, or fails to supply sufficient properly skilled workers, materials, fails to make prompt payment to subcontractors or material men, disregards laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction, or fails to diligently prosecute the work, or is otherwise guilty of a material violation of this agreement and fails within seven days after receipt of written notice to commence and continue correction of such default, neglect, or violation with diligence and promptness, the County may, after seven days following receipt by the Contractor of an additional written notice and without prejudice to any other remedy the County may have, terminate the employment of the Contractor in whole or in part and take possession of the site as well as all materials, equipment, tools, construction equipment and machinery thereon. The County may finish the work affected by the termination by whatever methods the County deems expedient. In such case, the Contractor shall not be entitled to receive any further payment until the work is completed. If the unpaid balance of the contract price exceeds the cost of completing the work, such excess shall be paid to the Contractor. If such costs exceed the unpaid balance, the Contractor shall pay the difference to the County on demand. This obligation for payment shall survive the termination of the contract. Termination of this agreement pursuant to this paragraph may result in disqualification of the Contractor from bidding on future County contracts.

Article 17 TERMINATION FOR CONVENIENCE

The County may, at any time upon 30 days written notice to the Contractor, terminate the whole or any portion of the work for the convenience of the County. Said termination shall be without prejudice to any right or remedy of the County provided herein. In addition, in the event this agreement has been terminated due to the default of the Contractor and if it is later determined that the Contractor was not in default pursuant to the provisions of this agreement at the time of termination, then such termination shall be considered a termination for convenience pursuant to this paragraph.

Article 18 TERMINATION FOR CONVENIENCE - PAYMENT

In the event that the County terminates this agreement for the convenience of the County, the County shall only be liable to the Contractor for those costs reimbursable to the Contractor for services rendered, including the following amounts (determined by the County):

- A. An amount for supplies, services, or property accepted by the County for which payment has not previously been made. The price to be paid for these items shall be equivalent to the aggregate price for such supplies or services computed in accordance with the price specified in this agreement appropriately adjusted for any saving of freight or other charges; and
- B. The total of:
 - (1) The costs incurred in the performance of the work terminated, including initial costs and preparatory expenses allocable thereto, but exclusive of any costs attributable to supplies or services previously paid;
 - (2) The costs of completed items or equipment delivered or services furnished by a subcontractor or vendor prior to the effective date of the notice of termination, which amounts shall be included in the costs payable pursuant to (A); and
 - (3) The reasonable costs of storage, transportation, and other costs incurred in connection with the protection or disposition of property allocable to this agreement.

Article 19 TERMINATION FOR CONVENIENCE - PAYMENT LIMITATIONS

In the event of termination for the convenience of the County, the total sum to be paid to the Contractor shall not exceed the contract price as reduced by the amount of payments otherwise made, by the contract price for work not terminated, and as otherwise permitted by the contract. Except for normal spoilage, and except to the extent that the County shall have otherwise expressly assumed the risk of loss, there shall be excluded from the amounts payable to the Contractor the fair value, as determined by the County, of property which is destroyed, lost, stolen or damaged so as to become undeliverable to the County or to another buyer.

Article 20 COST TO CURE

If the County terminates for cause the whole or any part of the work pursuant to this agreement, then the County may procure upon such terms and in such manner as the engineer may deem appropriate, supplies or services similar to those so terminated, and the Contractor shall be liable to the County for any excess costs for such similar supplies or services. The Contractor shall continue the performance of this agreement to the extent not terminated.

Article 21 WORK BY COUNTY FORCES

The County reserves the right to perform with its own forces any work similar to that under this agreement without liability to the Contractor.

Article 22 ASSIGNABILITY

The Contractor shall not sublet, assign, transfer, pledge, convey, sell or otherwise dispose of the whole or any part of this Contract or his right, title, or interest therein to any person, firm or corporation without the previous consent of the County in writing. Failure to obtain the County's written consent shall immediately terminate this agreement without any required notice on the part of the County.

Article 23 REMEDIES CUMULATIVE, NO WAIVER OF BREACH

The remedies provided in this contract are cumulative. Exercise of any remedy shall not constitute a waiver of any other remedy. Election by the County to not declare the Contractor in breach of this contract or to not exercise any breach remedy shall not constitute a waiver of any right of the County respecting such breach.

Article 24 SEVERABILITY

If any provision of this contract is held to be unenforceable for any reason, the unenforceability thereof shall not affect the remainder of the Contract, which shall remain in full force and effect, and enforceable in accordance with its terms. If any part of this Contract is found to be in conflict with applicable laws, such part shall be inoperative, null and void insofar as it is in conflict with said laws, but the remainder of this Contract shall be in full force and effect.

Article 25 APPROVALS AND CERTIFICATIONS

A. The Contractor shall provide evidence of approval by the Department of Transportation of the State of Georgia to perform road paving work and shall maintain such approval for the duration of this contract.

B. The Contractor and any approved subcontractors must, for the duration of this contract, meet all Georgia Department of Transportation traffic safety requirements, including but not limited to road signs, traffic cones, and proper flagging procedures. The Contractor's foremen must be certified proficient by Georgia D.O.T. for site traffic safety and flag operations.

Article 26 PROCEDURES

ARTICLE 27 TIMELINESS

- A. The Contractor shall be prepared to provide any requested service within thirty-six (36) hours of notification by the County.

- B. The Contractor shall remove all construction equipment and materials from any work site within twenty-four (24) hours of completion of any work order.

ARTICLE 28 VERBAL AGREEMENT

No verbal agreement or conversation with any officer, agent or employee of County either before, during or after the execution of this Agreement, shall affect or modify any of the terms of obligations herein contained, nor shall such verbal agreement or conversation entitle Contractor to any additional payment whatsoever under the terms of this Agreement. All changes to this shall be in writing and the form of a change order in supplemental agreement, approved by the County, and entered on the Minutes of the Board of Commissioners.

ARTICLE 29 NOTICES

All notices shall be in writing and delivered in person or transmitted by certified mail, postage prepaid.

Notice to County, shall be addressed as follows:

Nyika Roberson-Ramos, Transportation Manager
 Fulton County Department of Public Works
 141 Pryor Street, S.W., Suite 6001
 Atlanta, Georgia 30303

Notices to Contractor shall be addressed as follows:

Name of Contractor

ARTICLE 30 JURISDICTION

This Agreement shall be administered and interpreted under the laws of the State of Georgia. Jurisdiction of litigation arising from this Agreement shall be in that state. If any part of this Agreement is found to be in conflict with applicable laws, such part shall be inoperative, null and void insofar as it is in conflict with said laws, but the remainder of this Agreement shall be in full force and effect.

Whenever reference is made in the Agreement to standards or codes in accordance with which work is to be performed, the edition or revision of the standards or codes current on the effective date of this Agreement shall apply, unless otherwise expressly stated.

ARTICLE 31 FORCE MAJEURE

Neither County nor Contractor shall be deemed in violation of this Agreement if either is prevented from performing its obligations hereunder for any reason beyond its control, including but not limited to acts of GOD, civil or military authority, act of public enemy, accidents, fires, explosions, earthquakes, floods or catastrophic failures of public transportation, provided however, that nothing herein shall relieve or be construed to relieve Contractor from performing its obligations hereunder in the event of riots, rebellions or legal strikes.

SIGNATURES ON NEXT PAGE

Attest:

Title: _____

Name of Contractor

By: _____
Name, title

Seal (Affix)

Attest:

FULTON COUNTY, GEORGIA

Mark Massey, Clerk to the Commission

By: _____
**Karen Handel, Chair,
Board of Commissioners**

APPROVED AS TO FORM:

APPROVED AS TO CONTENT:

By: _____
County Attorney

By: _____
Angela Parker, Director, Public Works

END OF SECTION NO. 7

SECTION 8A**PERFORMANCE BOND REQUIREMENTS**

No contract with Fulton County for work to be done shall be valid for any purpose unless the Contractor shall give a Performance Bond with good and sufficient surety payable to, in favor of and for the protection of Fulton County. The Performance Bond shall be in the amount of at 100% of the total contract amount payable by the terms of the Contract and shall be written on the enclosed form.

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

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS [INSERT CONTRACTOR NAME] (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") and their successors and assigns, 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 (Contract) with the Owner, dated _____, which is incorporated herein by reference in its entirety, for the [NAME OF PROJECT], more particularly described in the Contract (herein called the "Project"); and

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)

SECTION 8B

PAYMENT BOND REQUIREMENTS

No Contract with Fulton County for work to be done shall be valid for any purpose unless the Contractor shall give a Payment Bond with good and sufficient surety payable to Fulton County for the use and protection of all sub-contractors and all persons supplying labor, materials, machinery, and equipment in the prosecution of the work provided for in the Contract. The Payment Bond shall be in the amount of 100% of the total contract amount payable by the terms of the Contract and shall be written on the following form.

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.

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 [insert name of 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 obligations 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)

END OF SECTION NO. 8B

SECTION 9**GENERAL CONDITIONS**

The documents below are a collection of memos to the Georgia Department of Transportation designers that relate to bridge design practice. They do NOT represent a design manual or a substitute for engineering judgment or design specifications.

BRIDGE GENERAL**BRIDGE DETAILS**

1. Provide deck drains on all stream crossing bridges. If the bridge crosses a stream and a road or railroad, omit deck drains in the span over the road or railroad, and in the span adjacent to the road or the railroad if it is the end span.
2. On all substructure details, relate the Plan reference line (centerline survey, etc.) to the column locations. Consider the use of a layout sheet in the plans to locate columns, footings.
3. Bridge widths are to be shown from gutter line to gutter line.
4. At the end bents, for steel beam or plate girder bridges, do not clip the flanges in the endwalls.
5. Note on the plans that the construction joint traditionally placed 4 inches (100 mm) above the top of the footing may be placed at the top of the footing at the Contractor's option.
6. The end post on the bridge superstructure shall be paid for in the quantities for lump – superstructure concrete and bar reinforcement. When the end post is on the superstructure, details for the reinforcement need not be shown, but the weight of the bar reinforcement must be included in the quantities. If the end post is an integral part of the substructure, the quantities shall be included in those for the substructure elements of which they are a part. Details of the reinforcement should be shown and the quantity included in the quantity for the substructure element. On the superstructure or substructure details, as appropriate, refer to Standard 3054, and specify the length, width and height of the end post under Bridge Consists Of in the General Notes.
7. Whenever practical, vertical curve low points should be kept off of bridges and approach slabs. If the low point must be on the bridge, it must be away from the endrolls and the intermediate bents. Low points should not be allowed near end bents or on approach slabs, as there is no way to drain them.
8. The cross-slope shown on the deck sections in the bridge plans shall match precisely that shown in the road plans. If the roadway plans show the cross-slope in per cent, it should be shown in per cent on the bridge plans. The same applies if the roadway plans show inches per foot or feet per foot.
9. The slab overhang (measured from the centerline of the exterior beam) should not exceed 3'-9" for steel and AASHTO PSC beams and 4'-6" for Bulb-T PSC beams. It is desirable that the slab overhang be not greater than one-half of the interior beam spacing.

GEOMETRIC DESIGN STANDARDS

In determining the widths, design loadings, clearances, etc., be guided by the Manual of Guidance (MOG No. 4265) for Geometric Design Standards. Post-tensioned concrete box girder bridges shall provide a minimum of 17'-6" (5350 mm) of vertical clearance over roads. Pedestrian bridges should also provide 17'-6" of vertical clearance over roads.

BARRIERS, RAILINGS AND SIDEWALKS

Sidewalks shall be used on all bridges where the approaching roadway section has curb and gutter. Except where required in special cases, all sidewalks shall be 6'-0" (1800 mm) wide, measured from the gutter line to the face of the parapet.

Where sidewalks are present on the bridge, the railings shall be as follows:

1. The minimum railing height, measured from the top of the sidewalk, shall be 3'-6" (1060 mm), as per the AASHTO Specifications.
2. If a bicycle route is present and the bicycle traffic is designated to ride on the sidewalk, the plans will show a 2'-7" (790 mm) parapet with Georgia Standard 3632 two rail aluminum handrail, for a total railing height of 4'-6" (1375 mm).
3. If no bicycle route is present or a bicycle route is present and the bicycle traffic is on the road (not on the sidewalk), use a 2'-3" (685 mm) parapet and the Georgia Standard 3626 one rail aluminum handrail, for a total railing height of 3'-6" (1060 mm).
4. If a sidewalk is present, the bridge is in an urban area, and the bridge is over an interstate or other limited access highway or over a railroad, use a 2'-10" (865 mm) parapet and a chain link fence as shown in the cells.

Where no sidewalk is present, railings shall be as follows:

1. If no bicycle route is present, use a 32" (810 mm) high barrier with a 9" (230 mm) top.
2. If a bicycle route is present, use a 32" (810 mm) high barrier with a 13" (330 mm) top and a two-pipe galvanized steel handrail with the posts embedded in the top of the barrier similar to fence posts for a total railing height of 4'-6" (1375 mm).

BRIDGES ON BICYCLE ROUTES

In the Preliminary Layout phase, the Designer shall check with the Project Manager to determine if a bicycle route is present at the bridge location. The Designer shall coordinate with the Project Manager to provide any additional bridge width necessary to accommodate the bicycle route, and should obtain a letter from the Project Manager stating the presence of the bicycle facility.

SIDEWALK CROSS-SLOPE

Use 1% cross-slope on sidewalks. The exception to this is on the high side of superelevation, where the superelevation is steeper than ½"/ft (4.5%), the slope on the sidewalk should be increased to provide a minimum sidewalk thickness of 3½" (85 mm) at the face of the parapet.

RIDING QUALITY

The Specifications require the deck to meet certain profilograph requirements on 4 lane state routes and on 2 lane state routes with current traffic of 2000 vehicles per day or higher. The Bridge Office policy is to require the profilograph tests at all state route bridges and at any other bridge where the design year traffic is 2000 vpd or higher. On plans for routes which meet the Bridge Office criteria but that do not meet the Specification requirements for profilograph testing, add the following note:

Riding Quality – The finished bridge deck and approach slabs shall meet the ride quality requirements as specified in sub-Section 500.3.06.E of the Georgia DOT Specifications for state routes with 4 or more lanes.

MAXIMUM BEAM SPACING

For normal beam-and-slab bridges, the maximum beam spacing should not exceed 9'-0" (2750 mm). Where it is desired to use a larger beam spacing, approval shall be obtained from the Assistant State Bridge Engineer – Design. Beam spacings greater than 10'-6" (3200 mm) will not be approved.

CHAIN LINK FENCE

Do not use epoxy coated chain link fence because the coating peels off. Use galvanized fence fabric with 2" (50 mm) square openings. Post spacing for chain link fence shall be shown on the Plans and shall be so arranged that there are no posts with their center within 1'-0" (300 mm) of an expansion or construction in the parapet or barrier.

LANE WIDTHS FOR STAGE CONSTRUCTION

Provide the maximum lane width possible during construction. Use 10'-0" (3 m) as a minimum. When lanes will have to be narrower than 12'-0" (3.6 m), coordinate with the Project Manager to be sure that the proper signing is included in the Project plans. It is desirable that lanes at least 11'-6" (3.5 m) be provided at all times. Lanes narrower than that should not be used except when no other option is possible.

PROTECTIVE PLATFORMS

When protective platforms are required, the following note shall be placed on the bridge plans:

"Protective platforms will be required at this site, see Section 510 of the Georgia DOT Specifications. Contractor shall maintain a minimum vertical clearance of ' ' (___ m) above ___."

POUR STRIPS FOR WIDENINGS AND STAGE CONSTRUCTION

Pour strips are required for deck construction on widenings and in stage construction where the supporting members are:

- a) Cast-in-place concrete deck girders (T-beams), because falsework is used to support the widening during construction; all falsework must be struck before pouring the pour strip.
- b) Continuous steel beams. The exception is when the amount to be widened is narrow, the pour will be less than approximately 100 CY (75 m³), and the maximum dead load deflection is less than 1" (25 mm); then the entire continuous unit can be poured in one pour.
- c) Post-tensioned cast-in-place concrete box girders; the pour strip should not be poured until the box has been prestressed, the falsework removed, and some time to allow for creep (one month) has passed.

TEMPORARY BARRIER

All temporary barrier will be paid for as Method 1 or Method 2. These methods require the contractor to provide barrier that has been crash-tested. A Special Provision "shelf spec" will be inserted into the plans by Contracts Administration when either type of barrier is specified. When preparing bridge plans where precast barrier is to be used, the following procedure shall be followed:

1. If the dimension from the centerline of the temporary barrier to the edge of the deck (with no curb or barrier) is less than 6'-0" (1.8 m), Method 2 barrier must be specified.
2. Estimate the quantity needed. Refer to Ga. Std. 4960 for allowable taper rates.
3. For Method 1, request that the Project Manager include that quantity in the roadway plans and quantities.
4. If the Project manager refuses, the quantity required should be shown in the Bridge Plans Summary of Quantities under Pay Item 620-0100 Temp Barrier Method No 1 or Pay Item 620-0200 Temp Barrier Method No 2; the units are linear feet for English projects and meters for Metric projects. Also add the following note to the General Notes:

TEMPORARY BARRIERS, METHOD 1 – PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NO. 4960 TO PROVIDE FOR TWO 12'-0" TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SPECIAL PROVISION SECTION 620.

Or:

TEMPORARY BARRIERS, METHOD 2 – PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NO. 4960 TO PROVIDE FOR TWO 12'-0" TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SPECIAL PROVISION SECTION 620.

METRIC PLANS

Use a space between the numerals and the symbol in all metric dimensions where a symbol is required. When showing a pure dimension (one with no other text associated), no unit symbol is required if the unit is millimeters.

Use 15 degrees C. as the equivalent of 60 degrees F.

Use millimeters for all dimensions in the plans except on the Plan and Elevation sheet where the bridge width, bridge length and the span lengths may be in meters.

Show cubic meter quantities to one decimal place on the detail sheets and to whole m³ in the Summary of Quantities.

Generally, scales for metric drawings should be in accordance with the GDOT Metric Conversion Guidelines. However, there are times when these scales will result in drawings that are smaller or larger than desired. In these instances, the following metric scales are acceptable:

1:25 1:30 1:40 1:75 1:300 and 1:400.

HYDRAULIC DATA IN GENERAL NOTES ON BRIDGE PLANS

Hydraulic Data should be shown on the bridge plans to the same accuracy shown on the Preliminary Layout.

HYDRAULIC DESIGN

Hydraulic design for bridges shall be in accordance with the Draft Georgia Drainage Manual.

JACKING OF BRIDGES – CONSULTANT DESIGN

Where bridges are to be raised, the scope of the Consultant Contract shall require the consultant to consider the problem and provide jacking details in his final construction plans. He should provide 16'-9" (5.1 m) minimum vertical clearance over the travel way and paved shoulders. Contract documents should provide for asphaltic concrete placement as may be required. Consideration should be given to the esthetics of the final vertical alignment as seen from the roadway below.

The Liaison Engineer should contact the District Utilities Engineer during the developmental stage, and inform him that the bridge is to be raised and that he needs to ascertain through field site inspection which utilities are in place on the bridge and their location. He should then report his findings to the Bridge Office. The District Utilities Engineer further needs to alert the impacted Utility Companies to the proposal to raise the bridge and to remind them that the Utility Companies will be responsible for coordinating satisfactory utility realignment.

SALVAGE OF EXISTING BRIDGE MATERIALS

For all projects, the following procedure is established relative to materials to be salvaged from existing bridges when they are removed during the construction of a new or widened bridge:

1. In the Preliminary Layout stage, the Designer shall write a letter to the Office of Maintenance asking for a list of materials to be salvaged from the existing structure. The Office of Maintenance will then respond by letter with a list of items to be salvaged.
2. The Designer shall place a note similar to the following on the Plans whenever existing bridge materials are to be removed from an existing site:

Salvage of Structural Steel – All structural steel shall be salvaged for use by the Department of Transportation and shall be removed and stockpiled by the Contractor. The District Maintenance Engineer shall be notified and at a mutually agreeable time the salvaged material shall be loaded on DOT vehicles by the Contractor.

Note that when salvaging continuous unit steel beams, the Office of Maintenance will specify where the beams should be cut to maximize their usefulness. See also Memo No. 6.23.

PEDESTRIAN OVERPASSES

When designing pedestrian overpass structures, refer to the AASHTO Guide Specifications for Design of Pedestrian Bridges. Also, note that ADA requirements require that no grade be steeper than 1:12 (8.33%).

CLEARANCE REQUIREMENTS FOR HIGHWAY BRIDGES OVER RAILROADS

The following horizontal and vertical clearance requirements have been set by the various railroad systems:

CSX Transportation, Inc.

1. Minimum vertical clearance of 23'-0" (7.1 m) from top of high rail to bottom of beam. This clearance is measured along lines concentric with the centerline of the track and 10'-0" (3 m) on either side.
2. The desirable horizontal clearance from center of track to the face of the column is 25'-0" (7.65 m) on each side, and this should be provided whenever possible. Where multiple tracks are present, measurements are from the outermost tracks. This allows the intermediate bents adjacent to the railroad to be built without crash walls. The minimum clearance is 18'-0" (5.50 m) for tangent tracks. Add 3½" of clearance for each inch of track superelevation on curved tracks.
3. Crash walls are to be provided where horizontal clearance is less than 25 feet (7.65 m). The top of the crash wall should be 6'-0" (1.8 m) above the top of the high rail. The crash wall should extend 2'-6" (750 mm) beyond the outside faces of the exterior columns. The face of the crash wall on the track side should be 6" (150 mm) inside the face of the column. Crash walls shall have rounded ends.
4. Existing drainage facilities parallel to the track(s) must be maintained through the structure.
5. Endrolls shall have slope paving.
6. Overpass drainage must be directed away from the railroad right-of-way.
7. See Figure 2-01 for railroad cross-section data for use in calculating bridge end locations. Allow 4'-9" (1.45 m) for the depth of the ditch from top of rail to bottom of ditch.

These items must be adhered to as closely as possible. Some items may be changed on a negotiated basis where conditions permit.

Norfolk Southern Corporation

1. Minimum horizontal clearance from center of track to the face of the column: 18 feet (5.5 m) on one side and 14 feet (4.3 m) on the other side of the track for locations where the span adjacent to the span over the railroad is not the end span. If the span adjacent to the railroad is the end span, provide 22'-0" (6.7 m). The railroad will advise which side requires the 18 feet based on the location and the direction of mechanized maintenance machinery. For double tracks, provide 18 feet (5.5 m) on each side. In order to avoid the use of crashwalls, 25'-0" (7.65 m) of horizontal clearance should be provided whenever possible.
2. Minimum vertical clearance of 23'-0" (7.1 m) from top of high rail to bottom of beam. This clearance is measured along lines concentric with the centerline of the track and 10'-0" (3 m) on either side.
3. Endrolls shall have slope paving.
4. Overpass drainage must be directed away from the railroad right-of-way.
5. Crash walls shall be provided if the horizontal clearance is less than 25'-0" (7.65 m). Crash walls should extend 2'-6" (750 mm) beyond the outside edge of the exterior column. The face of the crash wall on the track side should be 6" (150 mm) inside the face of the column. The top of the crash wall should be 10'-0" (3050 mm) above the top of the high rail. Crash walls shall have rounded ends.
6. See Figure 2-01 for railroad cross-section data for use in calculating bridge end locations. Allow 4'-9" (1.45 m) for the depth of the ditch from top of rail to bottom of ditch.

See Memo No. 1.10 for a listing of the member railroads of these systems. See MOG 6865-7 concerning procedures for determining accurate vertical clearances over railroad tracks.

FIELD SURVEYS

In order to more efficiently plan and control the acquisition of field survey data required by the design elements of the General Office, all requests for field survey data shall be directed to the State Location/Environment Engineer.

SEISMIC DESIGN

Bridges shall be designed for Seismic Category A except for bridges in the portion of Georgia where the Acceleration Coefficient is greater than 0.09, where bridges shall be designed for Seismic Category B. See Figure 2-02.

STIRRUP SPACING FOR BARRIER AND PARAPETS

The spacing shown in the plans for stirrups in barrier or in parapets shall not exceed 12" (300 mm).

SUPERELEVATION TRANSITIONS

Superelevation transitions on bridges should be avoided when practical. When a single bridge carries traffic in both directions, transitions between normal crown and reverse crown should particularly be avoided as this is very difficult to construct accurately. When a transition must occur on the bridge, request that the Project Manager consider the following:

1. Transition to a certain point, then carry that superelevation rate across the bridge before continuing the transition.
2. When that can not be done, and a transition between normal and reverse crowns is needed, increase or decrease the transition rate or locations of transition points to keep the normal to reverse crown transition off the bridge.

PROFILE DATA ON PLANS

When showing vertical grade data on the plans for bridges on vertical tangents, show the stations and elevations at PVI's, not PVC's or PVT's.

ROUTE AND STREAM DESIGNATIONS

In the title block on bridge plans, routes shall be designated as follows:

- 1) Interstate routes will be shown by interstate route number, e.g. I-75.
- 2) State routes will be shown by state route number, e.g. SR 196. If the route is also a US route, the US route number will be placed in parentheses following the state route number, e.g. SR 1 (US 27).
- 3) If a road has multiple state route numbers, the route number shown should be the number used in the bridge inventory. If the roadway plans use another number, the route should be shown by the inventory number followed by the number used in the roadway plans, e.g. SR 42 in the inventory, SR 63 on the road plans, use SR 42 & 63. In the case of multiple US routes, use an "and" symbol between the numbers with the smaller number first, e.g. US 80 & 431.
- 4) If the road has no state, federal or interstate designation, and is a county road, it will be labeled by county road number with the name of the road following in parentheses, e.g. CR 197 (Flat Bush Road).
- 5) If the road has no state, federal or interstate designation, and is a city street, it will be labeled by city street number with the name of the road following in parentheses, e.g. CS 197 (Flat Bush Street).
- 6) Roads beneath bridges will be shown by the same designations as shown for the road on the bridge.
- 7) Creeks and rivers will be labeled using the names as shown on the GDOT County maps.

JACKING BRIDGES

When jacking an existing bridge, concrete pedestals shall be specified unless the pedestal height is 1'-9" (530 mm) or less. Where the bridge is also being widened on each side in such a way that the existing portion of the bridge will be laterally restrained, concrete pedestals are required only when the pedestal height is over 2'-3" (685 mm); pedestals lower than these limits may be steel.

STATIONS AND ELEVATIONS ON THE PLAN AND ELEVATION SHEET

Stations and Profile Grade elevations shall be shown at each bent on the Elevation view on the Plan and Elevation Sheet. Following are the preferred methods for showing this information:

1. For single bridges and for parallel bridges where the BFPRs and bent centerlines are collinear and the profile is the same for both bridges, the station shall be at the intersection of the stationing line (usually construction centerline) and BFPR or the centerline of the intermediate bent. The elevation shall be the profile grade elevation at that station.
2. For parallel bridges where the BFPRs and bent centerlines are collinear but the bridges have separate profiles, the station shall be at the intersection of the stationing line (usually construction centerline) and BFPR or the centerline of the intermediate bent. The elevation shall be the profile grade elevation at that station for the right bridge, and a note so indicating shall be added to the plans.

3. For parallel bridges where the BFPRs and bent centerlines are not collinear, the right bridge shall be shown in the Elevation view. The station shall be at the intersection of the stationing line (usually construction centerline) and BFPR or the centerline of the intermediate bent for the right bridge. The elevation shall be the profile grade elevation for the right bridge at that station.
4. When one bridge is new and the other is existing, the new bridge shall be shown in the Elevation view and the stations and elevations for the new bridge shall be shown.
5. The note on the Elevation view shall read as follows: Stations shown are at the intersection of [stationing line] and BFPR or [centerline symbol] bent. Elevations are profile grade.

BEAM DESIGN PARAMETERS

PSC and steel beams and plate girders, when placed parallel to traffic, shall be designed as follows:

1. The noncomposite dead load will consist of the slab, the coping, the diaphragms, and the allowance for metal stay-in-place forms.
2. The composite dead load will consist of the sidewalks, barriers, parapets, medians, future paving allowance, and utilities. These loads will be summed and distributed equally to all beams except in the case of very wide bridges (over 66'-5" [20 m] out-to-out). For bridges wider than this, the sidewalk, barrier and parapet loads should be distributed to the four exterior beams on each side, and the median load distributed to the beams under the median; the future paving allowance will be distributed to all beams.
3. The sidewalk live load will be calculated according to the AASHTO Specifications and distributed the same as the sidewalk dead load.
4. The live load will be the AASHTO HS-20 (MS-18) live load including impact distributed as per the AASHTO Specification Distribution Factors. Distribution factors for deflection shall be calculated by multiplying the number of whole 12-foot lanes that will fit on the bridge by 2 and dividing by the number of beams. The distribution factor for deflection should not be less than 1.0.

LONGITUDINAL JOINTS IN BRIDGE DECKS

In urban areas and on high-volume routes where there are traffic signals at one or both ends of the bridge, a 1" (25 mm) longitudinal joint shall be used at the high point of the crown on bridges with steel beams so that vibrations caused by traffic moving on one side of the bridge will not be felt by traffic sitting on the other side of the bridge. Longitudinal joints shall not be placed in locations where water will run across the joint. The joint shall be sealed with a closed-cell polyethylene seal (Evazote). Do not include a pay item for the seal.

ARRANGEMENT OF BEAMS

When the width of a bridge is constant, every effort should be made to make the beams parallel within each span. On curved bridges, the beams will normally be parallel to the chord of the centerline from BFPR or centerline bent to centerline bent. Also, the centerlines of exterior beams should meet at the centerlines of the intermediate bents.

FRAMING PLANS

Framing plans are required for curved bridges and for bridges on horizontal tangents where the beams are not parallel. Dimensions on framing plans should be shown to two decimal places on English plans and in millimeters on metric plans. In no case should dimensions be shown in feet and inches. Dimensions along the beam should be from centerline of bent or BFPR to centerline of diaphragm or between centerlines of diaphragms. The centerlines of bearings should not be shown on the framing plan.

SECTION IV – CONCRETE AND REINFORCING STEEL

BRIDGE DECK DESIGN

When designing bridge decks, the following criteria shall be applied:

For cast-in-place decks north of the fall line:

1. Specify Class AA concrete except for post-tensioned concrete boxes which shall have Class AA as a minimum, but may require a higher 28-day strength.
2. Specify 2 $\frac{3}{4}$ " (70 mm) cover to top bar reinforcement for bridge decks on interstate routes, state routes and routes with design year ADT equal to or greater than 2000.
3. Specify 2 $\frac{1}{2}$ " (65 mm) cover to top bar reinforcement for bridge decks on all other routes.

For cast-in-place decks south of the fall line:

1. Specify Class AA concrete except for post-tensioned concrete boxes which shall have Class AA as a minimum, but may require a higher 28-day strength.
2. Specify 2 $\frac{1}{4}$ " (60 mm) cover to top bar reinforcement for bridge decks on interstate routes, state routes and routes with design year ADT equal or greater than 2000.
3. Specify 2" (50 mm) cover to top bar reinforcement for bridge decks on all other routes.

For bridge decks of precast concrete elements, specify 2" cover to top bar reinforcement statewide.

Note that $\frac{1}{4}$ " of concrete thickness may be planed off of the top of cast-in-place decks on interstate routes, state routes and routes with design year ADT equal to or greater than 2000. Therefore, reduce slab thickness accordingly for strength calculations of composite slabs on steel or PSC beams and post-tensioned boxes.

Deck slabs shall be designed by the Service Load method with $f_c = 1400$ psi (10 MPa), as a rule. The minimum 28 day strength (f'_c) for the deck concrete shall be 3500 psi (25 MPa). Minimum deck slab thickness shall be 7 inches (180 mm). Slabs shall be designed so that the main slab reinforcement is the same in the bottom of the slab as in the top. To achieve this, the effective depth shall be taken as the distance from the bottom of the slab to the centroid of the top main reinforcing steel for both positive and negative moment. Positive and negative moments shall be assumed to be equal and shall be calculated in accordance with the AASHTO Specifications.

See Fig. 4-01 for a location map of the fall line for Georgia.

SUPERSTRUCTURE DETAILS

1. Expansion joints in parapets and barriers shall be placed at a maximum spacing of 35' (10.5 m). Expansion joints in parapets and barriers shall be placed at deck construction and dummy joints and at intermediate bents.
2. Construction joints shall be provided in sidewalks and medians at deck construction and dummy joints; an expansion joint shall be provided in sidewalks and medians at expansion joints in the deck.
3. Bar reinforcement cover requirements as delineated in current AASHTO

Specifications shall be adhered to strictly, except where modified in these memos.

SLAB DESIGN SPACING

The design span for use in designing deck slabs shall be determined in accordance with AASHTO Specifications Section 3.24.

METRIC SLAB DESIGN

The following values should be used in designing metric slabs:

Wheel load = 72.5 kN

Concrete stress = 10.0 MPa

Reinforcing stress = 170 MPa

Cover: 50 mm (2")

60 mm (2¼")

65 mm (2½")

70 mm (2¾")

Future Paving Allowances: 1.44 kN/m² (30 psf)

CONTINUOUS DECKS

In bridges with simple spans and decks continuous at the intermediate bents, only the #6 (#19) bars in the top of the deck should be continuous through the required construction joint at the bent. The length of these bars should be 10'-0" (3 m) total, 5'-0" (1.5 m) on each side of the bent. Two #6 (#19) bars should be placed between each pair of #4 (#13) bars in the top of the deck. The #4 (#13) bars should end 2" (50 mm) from the construction joint.

REINFORCING STEEL

All reinforcing steel for designed bridges shall be Grade 60 (metric grade 420). This includes the reinforcing steel for drilled caissons. Reinforcing bars shall not be detailed longer than 60'-0" (18.2 m).

EPOXY COATED REINFORCING STEEL

Epoxy coated reinforcing steel shall be used in the top mat of the deck and in the traffic side of the barrier or parapet and endpost for bridges north of the fall line (Fig. 4-01) in the following locations:

1. Mainline interstate bridges
2. Post-tensioned concrete box girders
3. Interstate ramp bridges
4. Cross-roads over the interstate where interchanges are present.

At these locations, superstructure bars on the traffic side of the bridge with less than 4" (100 mm) of cover should be epoxy coated. Epoxy coated bars are not required in sidewalks and medians.

MAIN SLAB BAR PLACEMENT

On bridges where the skew is between 85 and 90 degrees, place the main slab bars parallel to the bents. Otherwise, place the main slab bars normal to the bridge centerline, and, where possible, use the equivalent full length bar detail.

BRIDGE DECK SURFACE FINISH

1. All new bridge decks shall be provided with a grooved finish in accordance with Section 500 of the Standard Specifications.
2. A pay item, Grooved Concrete, per Square Yard (per m²) covering the bridge deck area ((length] x [width gutter to gutter less 2 ft.(0.6 m)]) shall be added to the Summary of Quantities. The appropriate roadway office shall call for a similar grooved finish on their approach slabs. On bridges with medians, the grooving should extend under the median. Do not groove under sidewalks unless it is known that the sidewalks will be removed in the future.

FUTURE PAVING ALLOWANCES -
BRIDGE DECKS

All bridges shall be designed for a future paving allowance of 30 lb/sq ft (1.44 kN/m²).

ADDITIONAL BARS IN ACUTE DECK CORNERS

Provide 5 - #5 (#16) bars in a fan arrangement in the top of the deck just below the top mat in acute corners when the enclosed angle is 75 degrees or less. The designer should insure that these bars are shown in the corner and adjacent to the edge of the slab on the plans. The bars are necessary at intermediate bents with simple spans, at the intermediate bents at the ends of continuous units, and at construction joints in continuous units.

WEIGHT ALLOWANCE FOR STAY-IN-PLACE
BRIDGE DECK FORMS

Include 16.00 lb/sq ft (0.77 kN/m²) in the beam design to allow for metal stay-in-place deck forms.

METAL STAY-IN-PLACE DECK FORMS

Stay-in-place metal deck form shop drawings indicating intermediate supports between beams shall not be approved. In addition, the Designer shall check the gage being furnished by the supplier to insure that the steel forms are sufficiently stiff to keep deflection within acceptable limits. The designer shall not show any reference on the Bridge Plans for additional design weight due to metal stay-in-place deck forms. Metal stay-in-place deck forms shall have a minimum of 1" (25 mm) of bearing on the support angle at each end, as per Section 500.08.E.10.

CONCRETE DECK OVERLAYS

When it is necessary to overlay a cast-in-place concrete deck, use a portland cement concrete overlay. The minimum thickness should be 2" (50 mm) and this should be shown on the Plans. If the overlay covers only part of the deck and the remaining part of the deck is grooved, the overlay should be grooved. Coordination with the Project Manager will be necessary to insure that the approach slab elevations match the bridge deck.

When a concrete overlay becomes very thick, the possibility of the overlay cracking due to temperature effects is increased. Therefore, when the thickness of an overlay is 6" (150 mm) or greater, a mat of #4 (#13) bars at 18" (450 mm) each way shall be placed in the top of the overlay. Measure the thickness from the top of the existing deck reinforcing. The mat of steel in the overlay should have the same cover as if it were deck steel.

CONCRETE JERSEY BRIDGE BARRIER

Details for concrete Jersey bridge barrier shall be placed on the bridge plans per the Bridge Office cell. The top dimension should be changed to 13" (330 mm) when necessary to accommodate a fence, railing or glare screen.

REMOVABLE SIDEWALK AND MEDIAN DETAILS

Where sidewalks or medians are required, removable sidewalks and/or medians shall be used. See the appropriate Bridge Office Cell for details.

**EDGE BEAMS AND BEARING AREAS AT ENDS OF
SIMPLE SPAN RCDG AND PSC BEAM BRIDGES**

Edge beams shall be as shown in the cells for PSC or RCDG beams. Exceptions may be made where necessary to clear utilities. When precast stems or beams are substituted by contractors for cast-in-place RCDG stems, make certain that edge beams at the ends of spans are in conformance with these details.

ENDPOSTS ON SKEWED BRIDGES

When the endpost is on the superstructure and the end bent is skewed, the endpost must be lengthened to provide an overhang onto the paving rest. Once the length of the endpost exceeds 6'-6" (2 m), additional P701 and P401 bars should be added so that the spacing of these bars does not exceed 12" (300 mm).

METRIC DECK-GIRDER BRIDGES

The following span lengths and beam dimensions should be used for metric deck-girder bridges. The stem width for all span lengths should be 450 mm. No other span lengths should be used for new bridges.

SPAN	BEAM DEPTH
9.0 m	700 mm
9.5 m	700 mm
10.0 m	850 mm
10.5 m	850 mm
11.0 m	850 mm
11.5 m	850 mm
12.0 m	850 mm

On widenings, the existing span length must be matched and either 700 mm or 850 mm used as the beam depth, whichever is closer to the existing beam depth.

WATERPROOFING ON END BENT

When detailing end bents, place two feet (600 mm) of waterproofing as per Section 530 of the Georgia DOT Specifications on the joint between the endwall and cap. See the various cells for endwall details.

BENT CAP DETAILS

The difference in elevation between adjacent cap steps should not be less than 0.04' (12 mm). When the calculated difference is less than 0.04' and a steel bearing assembly is used, make up the difference in the sole plate. When using other types of bearings, the difference can be made up in the coping, but the "D" dimension should not be changed.

At expansion end bents with endwalls, the cap steps should not be skewed unless the difference in cap step elevations is large ($\sim > 0.17'$ [50 mm]) and there is a lot of skew (angle between the centerlines of the bridge and BFPR < 50 degrees). Otherwise, some movement of the endwall can be accommodated by increasing the thickness of the preformed joint filler in the vertical joint between the cap step and the endwall.

Cap elevations should be given to 2 decimal places for English unit plans and 3 decimal places for metric. Elevations should be calculated to 0.01' for English and 0.001 m for metric.

QUANTITIES

For Lump Superstructure Pay Items on the General Notes sheet, show the quantities after the item as shown:

LUMP SUPERSTR CONC, CLASS AA - BR NO 1 (465)

LUMP STR STEEL - BR NO 1 (1465450)

LUMP SUPERSTR REINF STEEL - BR NO 1 (265430)

All quantities shall be rounded to the nearest whole number. Use "LS" for the unit.

All superstructure quantities shall be itemized on the superstructure detail sheet as shown in Fig. 4-02a. Do not include a total column in this table unless all of the spans in the bridge are shown in the table and the total includes all of the spans in the bridge. All substructure quantities shall be itemized on the substructure detail sheet as shown in Fig. 4-02b.

On the detail sheets (superstructure and substructure), show concrete quantities to one decimal place; reinforcing steel and structural steel quantities should be integers. On metric plans, for quantities over 4 digits, provide spaces as per the Metric Design Guide. On the Summary of Quantities on the General Notes sheet, do not include decimals or commas; round piling quantities up to the next even 5 feet (2 m).

DESIGN DATA

Design Data tabulation on the General Notes sheet shall include the concrete class and 28-day strength (f'_c). Design data shall also include the grade of reinforcement steel. For PSC beams, show the concrete as Class AAA and show the 28-day strength (f'_c) and the allowable tension. If the beams strength varies within the bridge, show as "Class AAA, f'_c = See Beam Sheets".

COLUMN CONSTRUCTION JOINTS

Do not detail construction joints in columns less than 30 feet (9 m) in height.

COLUMN TIES

When detailing columns, the column ties shall be arranged in such a manner as to accommodate at least a six-inch (150 mm) tremie (preferably an eight-inch (200 mm) tremie) so that proper concrete placement will be facilitated.

COLUMN SIZES

Metric column dimensions should be given as the number of inches in the equivalent column multiplied by 25 mm. Thus a 36" column would become 900 mm. This will allow the contractor to use existing forms and provide a small amount of concrete at his expense. See the GA DOT Metric Conversion Guidelines for additional information.

English unit columns should be dimensioned in 6" increment beginning at 3'-0". Columns smaller than 3'-0" should not be used except in cases where a smaller size matches the existing AND is necessary to maintain horizontal clearance. In general, columns should be square with a square reinforcing pattern (same number of bars in each face).

CONCRETE SHEAR DESIGN FOR REINFORCED**CONCRETE BOX CULVERTS**

The 1973 AASHTO Specifications, Article 1.5.1 permitted a shear stress to be carried by the concrete of $0.03f'_c$, which is 90 psi for Class A concrete ($f'_c = 3000$ psi). The 1977 AASHTO Specification reduced the amount of shear stress carried by the concrete to $0.95(f'_c)^{1/2}$. The 1996 AASHTO Specifications, Article 8.15.5 also defines the permissible shear stress carried by the concrete as $0.95(f'_c)^{1/2}$, which is 52 psi for Class A concrete.

It shall be the policy of the Office of Bridge and Structural Design to design box culverts for the shear stress allowable of the 1996 AASHTO Specifications Article 8.15.5; i.e., allowable shear stress carried by the concrete equals 52 psi with the maximum shear stress carried by the reinforcing steel ($v - v_c$) limited to $4(f'_c)^{1/2}$.

BAR SCHEDULES AND QUANTITIES FOR STAGE CONSTRUCTION AND CONTINUOUS UNITS

Bar schedules for structural steel supported continuous units shall be done by pour. Bar schedules for stage constructed bridges shall be done by stage. In the case of a structural steel supported continuous unit, the quantity shown on the superstructure detail sheet shall be by continuous unit. In the case of stage constructed simple spans, the quantity will be shown on the superstructure detail sheet by span. When a structural steel supported continuous unit is constructed by stage construction, the bar schedule shall be by pour and by stage (Pour 1, Stage 1; Pour 2 Stage 1; etc.).

DOUBLE STIRRUPS IN BENT CAPS

When detailing double stirrups in bents caps, a dimension line should be placed from the first pair to the last. Above this line should be the number and size of the spaces between pairs. Below the lines should be the total number of double stirrups and the designation "dbl" or "double."

Example: 8 SPS @ 5"

18-521 DBL

END BENT DETAILS

Add the following note to the End Bent details sheet:

Note: See Ga. Std. 9037 for drainage details at end bents.

SUBSTITUTION OF WELDED WIRE FABRIC

The Standard Specifications allow the substitution of welded wire fabric (WWF) for rebar in PSC beams, but do not address substitutions in other components. It is the policy of the Office of Bridge Design to allow such substitutions subject to the following conditions:

- 1) The WWF will provide an area of steel equal to the Plan value in each direction.
- 2) A reduction in area or increase in spacing based on the higher strength of the wires in the WWF will not be allowed.

INTERMEDIATE BENT DIMENSIONS

When dimensioning concrete intermediate bents, on the Elevation view, on one line show the dimensions from the ends of the cap to the centerline of the column and the column spacing.

ADDITIONAL BARS IN EDGE BEAMS AT EXTERIOR BULB-T BEAMS

There have been occurrences of pieces of concrete falling out of the edge beam from behind the flanges of exterior Bulb-T beams. In order to prevent this, place a horizontal #3 (#10) bar behind the top flange of the exterior beam. This beam should extend into the edge beam between the beams enough to be developed. Also, place an L-shaped #4 (#13) bar vertically behind the web of the exterior girder with the horizontal leg extending over the top of the beam. See the appropriate Bridge Office cell.

ADDITIONAL BARS IN BENT CAP STEPS

When the height of a cap step exceeds 4" (100 mm), additional bars should be placed in the top of the cap to prevent cracking. Place 2 #4 (#13) bars in the top corners with #4 (#13) U-shaped stirrups at 12" over them. Make sure the longitudinal bars are not so long that they conflict with the main stirrups and bars.

LONGITUDINAL DECK REINFORCING STEEL IN SPANS OVER 60' LONG

When detailing longitudinal reinforcing steel (temperature and distribution steel) in bridge decks for spans over 60' long, it is necessary to lap the bars so as not to specify a bar over 60' long. Generally, one should use a 60' bar for one piece, and make up the rest of the length and the lap with another, shorter bar. However, in some cases of spans marginally longer than 60', the shorter piece will be very short and may place the lap in an undesirable location. In that event, a bar shorter than 60' should be used and lapped with another bar. It is important to consider the length of the remnant when the longer bar is cut from a 60' bar. If this remnant is very short, there will be no where else in the deck where it can be used. Then the DOT ends up paying for a piece of rebar that can only be discarded. Attention should be paid to the length of the pieces so that when a bar is cut, both pieces can be used.

SECTION VII – BEARINGS, JOINTS, HANDRAIL, RIP RAP, SLOPE PAVING, TIMBER

ELASTOMERIC BEARING PADS

Laminated neoprene bearing pads are preferred for use with prestressed concrete beams.

Neoprene bearing pads with 3" (75 mm) diameter holes for smooth dowel bars shall be used for PSC beams. Beveled galvanized steel shim plates shall be used to compensate for slopes when the slope across the bearing pad is greater than 1/8" (3 mm). These shims shall be 2" (50 mm) larger in each plan dimension than the pad and shall be placed on top of the pad. Shims shall have a minimum thickness of 1/4" along the thinner edge. End bent and intermediate bent caps should be of sufficient width to provide a three-inch (75 mm) distance from the edge or end of the cap to the neoprene bearing pads. This should be checked when contractors submit redesigns of cast-in-place T-beams to precast beams.

SHORT SPAN ELASTOMERIC BEARING PADS

When detailing bearing pads for T-beam and other concrete beam (including PSC beam) bridges with continuous decks and spans 40' (12.192 m) or shorter, the following shall apply:

1. At the fixed bents and at all bearings at bents no more than 40' (12.192 m) from the fixed bent, use 9"x16"x1/2" (230 x 400 x 12 mm) unreinforced pads. These pads should not be designed.
2. At other bents, pads should be designed but plan dimensions should be 9"x16" (230 x 400 mm) where possible. Sealing ribs may be used with precast beams, but should not be used for cast-in-place beams.
3. A note shall be placed on the bearing sheet that if the Contractor redesigns the T-beams to use precast beams, the designed pads (#2) shall be redesigned accounting for the new loads and rotations. Pads that were not designed (#1) shall remain as shown on the Plans.

SKEWED ELASTOMERIC BEARING PADS

On Contractor redesigns of T-beams to precast stems or Type I Mod beams, the Contractor may propose to skew the bearing pads in order to avoid making the cap wider. This is not acceptable. Elastomeric pads should be rectangular and should be placed perpendicular to the beam centerline. Skewed bearings are acceptable for precast concrete box units.

ELASTOMERIC PADS FOR EXISTING T-BEAM BRIDGES

When widening or paralleling T-beam bridges, pay particular attention to the existing bridge condition survey for a request to install neoprene pads under the existing beams. If this request is present, use 1/2" X 9" X 14" (12 X 230 X 350 mm) unreinforced pads with slots to pass around the dowel bar. Pay item 518-1000 – Raise Existing Bridge, Sta - should be included in the Summary of Quantities to cover all costs for supplying and installing these pads. This also requires a Special Provision.

SELF-LUBRICATING BRONZE PLATES

See Figure 7-01 for design chart for the use of self-lubricating bronze plates.

CAP ELEVATIONS FOR POT BEARINGS

The following note shall be placed on the bent detail sheet for each bent where pot bearings will be used:

Elevations shown for the top and bottom of the cap are based on the “X” dimension shown on the Pot Bearing Details sheet. These elevations shall be adjusted by the Contractor to account for the actual height of the pot bearing to be used. Bent cap concrete shall not be poured until the pot bearing shop drawings have been approved and necessary adjustments have been made.

SUBSTITUTION FOR COTTON DUCK

On steel beam construction with steel base plates, and under pot bearings, the Plans shall show a 1/8” (3 mm) elastomeric pad under the bearing in lieu of the cotton duck called for in the Standard Specifications. The pad should be 50 to 60 durometer hardness neoprene and be 1” (25 mm) larger than the base plate in each plan dimension. A note should be added to the plans that all costs for supplying and installing this elastomeric pad should be included in the price bid for Lump – Structural Steel.

BRIDGE DECK EXPANSION JOINTS

Silicone sealant expansion joint seals should no longer be used. For maximum openings up to 3¼” (80 mm) use a closed-cell polyethylene seal (Evazote) as per Section 449.2.D. For these seals, the uncompressed seal size should be shown on the Plans. For joints with maximum openings above 3¼” up to 4” (50 mm to 100 mm) use an elastomeric profile joint seal (Jeene joint) as per Section 449.2.C. See the manufacturer’s brochures for opening size limitations and other data. A table of joint openings shall be shown on the plans with the opening specified for 30, 60, and 90 degrees (0, 15, and 30 degrees Centigrade). Do not include a pay item for 449.2.D seals, but include a pay item for 449.2.C seals.

SPRING TYPE EXPANSION JOINTS - EXISTING BRIDGES

All bridges to be widened shall be examined for the presence of spring-type expansion joints. Where spring-type expansion joints exist, the expansion assembly shall be removed and a different expansion assembly incorporated into the old structure as well as the widened portion. This recommendation will normally be included in the Bridge Condition Survey report. If it is not, verify the presence of the spring-type joint with the Office of Maintenance.

ALUMINUM HANDRAIL POST SPACING

Handrail post spacing for aluminum handrail shall be according to the pertinent Georgia Standard. Post spacing shall meet the following requirements:

- a) No space greater than 8 feet (2400 mm).
- b) There shall be two end spaces adjacent to the “Y” segment; these spaces shall each be no greater than 4 feet (1200 mm).
- c) The minimum distance to a joint in the parapet only is 1'-6" (450 mm).
- d) The minimum distance to a joint in the parapet that is also at a deck construction or expansion joint is 3'-0" (900 mm).

The following are desirable characteristics:

- a) Other than end spaces adjacent to the “Y” segment, the maximum change from one space to the next should be 1'-0" (300 mm).
- b) End spaces adjacent to the “Y” segment should be approximately one-half of the length of the first full space.
- c) The minimum post spacing should be 6'-0" (1800 mm).

- d) 1'-3" (450 mm) \leq "Y" \leq 2'-0" (600 mm).
- e) Of the desirable characteristics, items a, b, and c should be adhered to except when it is impossible; item d can be violated, but in any event, "Y" should be \geq 0'-9" (300 mm) and \leq 2'-3" (700 mm).

Joints in sidewalks have no consideration in the post spacing. It is advantageous to arrange the post spacing and the parapet joint spacing at the same time, rather than selecting the parapet joint spacing and then trying to fit the post spacing to it.

MODIFICATION OF EXISTING ALUMINUM HANDRAIL

When doing any work on an existing bridge with aluminum handrail where the handrail is to remain, the handrail shall be modified to bring it up to current standards, if necessary. The existing bridge plans should be checked to be sure that:

1. The railing is anchored to the endpost
2. The spacing of the posts in the first two spaces adjacent to the endpost should not exceed 4'-0" (1220 mm).

If either of these conditions is not met, details shall be included in the Plans to accomplish them.

SLOPE PAVING OF BRIDGE ENDROLLS

See the Bridge Office cells for details of slope paving at bridge ends. Slope paving should not be carried up the face of the wing, as it tends to break off at the berm.

At skewed bridges over roads, the slope paving will extend parallel to the edge of the bridge on the side with the acute angle and extend normal to the road beneath the bridge on the other side.

On new bridges over railroads, the endrolls shall be protected with 4" (100 mm) of concrete slope paving. The extent of slope paving shall be 2 feet (600 mm) outside of and parallel to the edge of the slab on each side of the bridge for bridges with bents normal to the railroad. At skewed bridges over railroads, the slope paving will extend parallel to the edge of the bridge on the side with the acute angle. On the other side, there are two possible conditions:

1. If the railroad is in a cut section and extending the slope paving normal to the railroad would require excavation just to place the slope paving, extend the slope paving parallel to the edge of the bridge.
2. In other cases, extend the slope paving normal to the railroad.

On widened bridges over railroads, slope paving as above shall be used where practical. Where the existing slopes are steep and/or irregular and slope paving is not feasible, pneumatically applied concrete (shotcrete) 4" (100 mm) thick shall be used. It shall be paid for using Section 603, Pneumatically Applied Concrete.

GUIDELINES FOR USE OF RIP RAP

The Hydraulic Study and the Preliminary Layout will include a recommendation for the type and depth of rip rap to be used. Generally, the BFI report will concur in this recommendation. Should the BFI make a different recommendation, the designer shall consult with the hydraulic engineer and the geotechnical engineer to determine the type and depth of rip rap to be used. Details of the rip rap and the plastic filter fabric shall be as per cell RR4. When the Hydraulic Data indicates abnormal flows, the elevation for the top of the rip rap shall be 2 feet (600 mm) above the abnormal 100-year flood elevation.

EXPANSION JOINTS AT APPROACH SLABS

When necessary due to the locations of fixed bents in the superstructure, the width of the expansion joint between the approach slab and the BFPR and end post should be increased to allow for the calculated movement and the joint sealed with a seal conforming to Section 449.2.D. The joint width should not be increased to more than 1¼" (45 mm). A detail should be added to the plans to show the size of the joint and the size of the seal. A temperature table should not be included. Do not include a pay item for the seal.

SIZE AND MAXIMUM LOAD

<u>L</u>	<u>W</u>	<u>T</u>	WITH SLOTS WITH HOLES		<u>PLAIN</u>	
			<u>2 – 3 X 1 3/16"2 – 1 3/16" DIA.</u>			
10	7	1				140
10	8	1¼				160
10	9	1¼				180
10½	7	1				147
10½	8	1¼				168
10½	9	1¼				189
12	6	1		131	140	144
12	7	1		155	164	168
12	8	1¼		179	188	192
12	9	1¼				216

Use only plate sizes shown with a maximum load.
Dimensions in inches, loads in kips.

Purpose: To standardize plate sizes within the office so that plates may be stockpiled by suppliers, thus making them more economical.

Design Specification: Bronze plates shall conform to ASTM Designation B 22, Alloy UNS 91100 and shall have an allowable unit stress of 2000 psi in compression.

Limitations: Sliding plate type bearings shall not be used where the anticipated total movement (expansion plus contraction) exceeds 3 inches for assemblies without anchor bolts through the flange and 2 inches for assemblies with anchor bolts through the flange.

When the gradient of the girder at the bearing exceeds 4.0%, the top of the upper plate (sole plate) shall be beveled to match the girder gradient.

Coefficient of friction: For design purposes, a value of 0.10 shall be used.

STRUCTURAL STEEL

BRIDGES IN COASTAL ENVIRONMENT

It is the policy of the Office of Bridge and Structural Design to use structural steel elements in bridge construction in coastal counties only where there is no other feasible alternative. The coastal counties are Chatham, Bryan, Liberty, McIntosh, Glynn and Camden.

MAIN LOAD-CARRYING STEEL MEMBERS SUBJECT TO TENSILE STRESS

Steel beam or girder superstructure bridges shall carry the following note:

..... 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. The beam details sheets should also have a symbol (CVN) indicating which components require Charpy testing.

A guide as to what constitutes these components is as follows:

Simple spans:

W beam section – W beams and bottom cover plates

Girders – Bottom flanges and webs

Continuous units:

W beam sections – W beams and cover plates

Girders – Top and bottom flanges and webs

CAMBER DIAGRAMS

Camber diagrams should include the following note:

Camber ordinate shown includes dead load deflection due to the beam, slab, coping, railing, sidewalk and median, and includes the vertical curve ordinate.

TENSION MATERIAL THICKNESS

The designer shall strive (by reducing beam spacing, using wider flange plates, etc.) to keep the tension flange plates from becoming too thick (a maximum of two inches [50 mm] is suggested).

STAY-IN-PLACE BRIDGE FORMS - TENSION AREAS IN CONTINUOUS BEAMS

Hangers for metal stay-in-place deck forms shall not be welded to tension members of steel bridges. This means that for continuous steel beams, there shall be no welding along the flange area where the top flange is in tension under any loading condition. These locations should be clearly indicated on the plans.

The Designer shall consider these requirements when checking shop drawings for metal stay-in-place deck forms.

LATERAL BRACING

In cases where lateral bracing is required by the AASHTO Specifications, to protect webs of girders from stress due to fatigue and out of plane bending, do not weld lateral bracing gusset plates to the web. A suggested alternative is to shop bolt an angle to the web with a gusset plate either shop welded or bolted to the outstanding leg of the angle, with the angles of a lateral bracing system field welded to the top side of the gusset plate.

The designer shall provide a positive support system for the crossing of the lateral bracing diagonals in order to limit upward and downward deflection of the brace system due to live load deflections on the bridge. This may be accomplished by inserts in the slab with hanger rods to the bracing, or hangers from some other structural element installed specifically for that purpose.

STIFFENERS AND STUDS AT WELDED SPLICES

On field trips for the purpose of inspecting welding procedures, out of square flanges on built-up girders have been observed. This condition causes a very poor situation for field welding, and often results in an inferior flange joint. To help alleviate this situation, all built-up girders, regardless of size, shall be designed with stiffeners adjacent to the splice point. In order to allow ample room for welding, grinding and testing, stiffeners adjacent to splices should be 12" (300 mm) from the splice. Studs near splices should be no nearer than 12" (300 mm) to the splice.

FATIGUE STRESSES FOR STRUCTURAL STEEL

This pertains to cases in which ADTT of 2500 or more requires over 2,000,000 cycles for truck loading fatigue design from the AASHTO Specifications.

In general it will be the policy of the Office of Bridge and Structural Design to design bridges and structures for a total life of 60 years. Since traffic growth is nearly linear with respect to time, the average daily truck traffic, ADTT, will occur when the bridge is 30 years old. Also since the percentage of trucks remains almost constant with time, the ADTT can be obtained by direct ratio using percent trucks and the traffic volumes for the present and the future 20 years. The following example will show the procedure to be used.

GIVEN: Type of road - Major Highway
 ADT (2001) = 1000
 ADT (2021) = 80000
 T (trucks) = 4.4%

FIND: ADTT to be used for fatigue design life of 60 years

SOLUTION: ADTT will occur when the bridge is 30 years old.

$$\begin{aligned} \text{ADT (2031)} &= 30/20 \times [\text{ADT(2021)} - \text{ADT(2001)}] + \text{ADT(2001)} \\ &= 1.5 \times [80000 - 1000] + 1000 \\ \text{ADT (2031)} &= 119,500 \end{aligned}$$

$$\text{Number of vehicles per day in one direction} = \text{ADT(2031)} \times 1/2 = 59750$$

Therefore, ADTT = % Trucks x Number of vehicles per day in one direction

$$\text{ADTT} = (4.4/100) \times 59750 = 2629 \text{ in one direction only.}$$

Since 2629 > 2500, the truck loading fatigue design shall be based on 2,000,000 cycles with all lanes of traffic on the bridge. Therefore a distribution factor of S/5.5 will be used to design the beam for maximum stress and to check the actual stress range, F_{sr} , in the AASHTO Specifications. Then the bridge shall be loaded with only one truck. A distribution factor of S/7.0 shall be used to obtain the actual stress range, F_{sr} . The actual stress range, F_{sr} , due to one truck is used to check against the allowable range of stress, F_{sr} , in the AASHTO Specifications for over 2,000,000 cycles.

STRUCTURAL STEEL - FASCIA GIRDERS

For long interior spans used together with short end spans, the common practice has been to use full-depth fascia girders for the outside beams and minimum-depth rolled beams (with or without cover plates) for the interior beams. In these short end spans, the dead load deflections vary considerably, with the outside fascia beam having much less deflection than the interior rolled beams. Construction problems can ensue when the short spans are poured, especially when screeded with a transverse (Bidwell) screed. Thin cover on slab steel can occur if interior beams do not deflect as noted.

The Designer shall make every effort, commensurate with economy, to design these short end spans with equal depth beams or girders. In cases where it is felt that equal-depth girders are not feasible, the designer shall detail increased cover over the slab steel to insure that adequate cover is obtained.

WEATHERING STRUCTURAL STEEL

Because of continued corrosion, the Designer shall no longer use unpainted weathering steel on highway bridges.

BRACING FOR EXTERIOR STEEL BEAMS

Due to problems with exterior beams buckling during deck pours, the following note shall be placed on the deck section sheet for bridges with steel beams or girders:

The Contractor shall provide bracing between the exterior beam (girder) and the first interior beam (girder) until the deck has been poured, the overhang forms have been removed and the diaphragms (cross-frames) have been welded. All costs for designing, providing, installing and removing bracing shall be included in price bid for Lump – Structural Steel.

SAFETY HANDRAILS FOR STEEL GIRDERS

All bridge plans having steel girders shall incorporate details calling for the fabricator to furnish a safety handrail for girders in all situations meeting both of the following conditions:

1. Web depths of 6 feet (1.8 m) or over.
2. Over water or locations otherwise inaccessible from below.

This rail (providing access for construction, inspection and maintenance) shall consist of a 5/8" (16 mm) diameter plain bar placed through holes in the transverse stiffeners or gusset plates and shall run the length of the girder.

DIAPHRAGM WELDING

Diaphragms shall be welded before pouring the deck when the skew is between 75 and 90 degrees.

GROOVE WELDS FOR GUSSET PLATES

Groove welding for gusset plate connections should be avoided because of the necessary back-up plates and special welding procedures. Instead, use a bent plate for the diaphragm or cross-frame attachment.

GROOVE WELD BACKING STRIPS

Because of the danger of cracks developing where backing strips are discontinuous at the root of the groove weld, the Designer shall note when checking the structural steel shop drawings that all backing strips shall be made continuous for the length of the weld. Also note that any joints in the backing strip shall be full penetration butt welds.

INTERSECTING WELDS

Because of serious cracking of web and flange sections of plate girders, which appear to propagate from the location of intersecting welds, no intersecting welds will be allowed on structural steel Bridge Plans or Shop Drawings. Base Metal in the area of intersection areas of welds shall be coped 4 times the thickness of the web or 2 inches (50 mm).

ELECTRO-SLAG WELDING

Electro-slag weldments will not be permitted on bridge members.

STRUCTURAL STEEL CORRECTION PRACTICES

Structural steel fabricators occasionally mistakenly punch or burn holes at the wrong location in bridge members. Our past practice has been to allow the fabricator to place the holes in the correct locations, leaving the misplaced holes open. It is the policy of the Office of Bridge and Structural Design to require the fabricator to fill the misplaced holes with high-strength bolts (A-325 or A-325 weathering) tightened in accordance with the Specifications.

HEAT CORRECTIONS ON STRUCTURAL STEEL

All corrective work to obtain acceptable tolerances relative to sweep, camber or damaged structural steel beams or girders utilizing heat procedures shall be documented and filed in the appropriate Project File.

All documentation relative to heat corrective procedures shall contain a sketch showing the location(s) where heat was applied, how much heat was applied and how long a period of time the heat was applied.

The amount of sweep, camber or damage shall be documented both before and after the heat corrective work. If possible, photographs of the beams or girders should be taken before and after all corrective work utilizing heat procedures.

SCANNING STEEL STRUCTURE SHOP DRAWINGS

Shop drawings for all steel structures containing critical members, plate girders, etc. shall be scanned into a TIFF file and saved to a location set up by the Bridge Maintenance Engineer. This will generally include welded continuous rolled beams, plate girders, and pot bearings. Also, on anything out of the ordinary, consult the Bridge Maintenance Engineer to see if the shop drawings should be scanned for future reference.

EXISTING BEAM BACK-UP BARS

The Office of Maintenance may request that, on widenings consisting of structural steel carrying members, any old extension tabs and/or back-up strips be removed. The designer shall insure that this work is included in the Plans.

SALVAGE OF PLATE GIRDERS

Structural steel from plate girders will not be salvaged.

SALVAGE OF CONTINUOUS ROLLED BEAMS

When the Office of Maintenance recommends salvaging structural steel from a rolled beam continuous unit, they should also recommend how the unit should be cut up to insure maximum future usefulness. If this recommendation is not included, it should be requested by the designer. See also Memo No. 2.18.

EXISTING STRUCTURAL STEEL REMOVED AND REUSED

In cases where existing structural steel is to be removed and reused, the Designer shall place a note on the bridge plans stating that existing structural steel, removed and reused or merely remaining in place, which is disturbed or damaged in any way during construction, shall be straightened and/or repaired under the supervision of the Inspection Section of the Office of Materials and Research, and cleaned and repainted per the Specifications.

EDGE BEAMS, GENERAL

In general, edge beams shall be designed and detailed using a depth below beam flange of at least 18 inches (450 mm). Carry slab transverse and longitudinal steel up to the joint and drop edge beam bars to a plane below the flange. Do not use truss-shaped bars in the edge beam. See the Bridge Office cells for typical details.

EDGE BEAM BAR LAP DETAILS

Use the detail shown in the Bridge Office cells for attaching edge beam bars to the web of exterior steel beams or girders.

EDGE BEAMS, REPLACEMENT

When replacing existing edge beams on existing steel beams and plate girders, and new holes must be provided in the existing beams for edge beam bars, place a note on the plans the contractor shall drill 3" (75 mm) holes at each bar location.

PAINT FOR STRUCTURAL STEEL

All new structural steel shall be painted with System VII regardless of the bridge location in the state. Existing structural steel outside the non-attainment areas shall be painted with System VII. Existing structural steel inside non-attainment areas shall be painted with System VI. See Memo No. 8.01 for the non-attainment counties.

ANCHOR BOLTS

Anchor bolts and anchor rods (used with pot bearings) shall be stainless steel, ASTM A 276 Type 304. On bridge widening or jacking projects, any new or replacement anchor bolts shall also be stainless steel

DECK REPLACEMENT ON NONCOMPOSITE STEEL BEAMS

When replacing the deck on existing steel beams that are noncomposite, add stud shear connectors in pairs 18" apart in the positive moment regions of continuous beams and throughout simple span beams.

SECTION VIII – PILING, FOUNDATIONS, FENDER SYSTEMS

PROTECTIVE COATING FOR STEEL PILES

No. 2P special protective coating will no longer be used on exposed steel piles as it is no longer considered effective. All exposed steel piles, and swaybracing if present, shall be painted. Paint System VI will be used in the non-compliance areas, and Paint System IV will be used elsewhere. The paint shall conform to the specified system except that the top coat will be black (Federal Std. No. 595, color 27040). The General Note in BRNOTES should be used; it calls for System VI. The note will have to be changed where System IV is required. The counties in the non-compliance areas are Barrow, Bartow, Bibb, Carroll, Catoosa, Cherokee, Clayton, Cobb, Coweta, Dekalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Hall, Henry, Newton, Monroe, Murray, Paulding, Rockdale, Spalding, Walker, and Walton.

STEEL H-PILE ENCASEMENT

All steel H-piles in pile bents on old and new construction shall be encased in concrete in accordance with the details in Section 547 of the Standard Specifications. Piles within the normal stream flow shall be encased from two feet (600 mm) below the stream bed to the level of the two year floodstage. Piles outside the normal flow shall be encased from two feet (600 mm) below the ground line to two feet (600 mm) above the ground line or to the elevation used for the piles in the stream, whichever is higher. The two year floodstage elevation is usually available in the Hydraulic Study. The General Notes in BRNOTES should be used.

USE OF 'PRUYN' OR EQUAL PILE POINTS

In special cases where it is anticipated piles will have to be driven through boulders, rock layers, or hard buried objects, such as concrete, extremely hard stumps or wooden piles, the Geotechnical Bureau will recommend the use of special driving points, other than those called for in the Standard Specifications. These recommendations will be given on the Bridge Foundation Investigation Reports. When called for, the Designer shall include a note in the General Notes that the Contractor is to reinforce all pile tips with Pruyun Point No. 75750, or an approved equal at the bents specified.

SQUARE PRESTRESSED CONCRETE PILES

When prestressed concrete piles are called for in the Bridge Foundation Investigation Report, the Designer shall call for Ga. Standard No. 3215, with latest revision date, in the BRIDGE CONSISTS OF portion of the Plans. Should severe corrosion or other unusual problems make Type II cement or HPC (High Performance Concrete) necessary as recommended by the Office of Materials and Research, it shall be so noted on the Plans.

PSC TEST PILE LENGTHS

When the BFI recommends test piles, it usually specifies a minimum penetration below the estimated tip elevation. If the estimated tip elevation is given as a range, use the lower value of the range in determining test pile lengths.

METAL SHELL PILES

See the details in Section 520 of the Standard Specifications for closure plates for metal shell piles. Bridge Foundation Investigation Reports may state which detail is to be used. The Standard Specifications call for Option 1 unless otherwise specified on the Plans. Therefore, when the BFI makes a recommendation for Option 2, a note to that effect shall be added to the Plans.

REINFORCEMENT FOR METAL SHELL PILES

Reinforcing for metal shell piles shall be provided as shown in the Bridge Office cells for MS piles in intermediate pile bents and pedestal footings only. Reinforcing is not required for MS piles in end bents or in footings other than pedestal footings. Note on the plans that costs for supplying and installing reinforcement in MS piles is to be included in the price bid for LF (m) MS piling.

TIMBER PILING IN BRIDGE STRUCTURES

The Designer shall not specify the use of exposed timber piling on any Bridge Plans.

JETTING, SPUDDING, PREDRILLING, AND PILOT HOLES FOR PILES

The BFI often recommends jetting and/or spudding to assist in obtaining penetration for PSC or MS piles. The General Notes in BRNOTES pertaining to jetting and/or spudding of piles should be included in the Plans only when it is recommended in the BFI. On some occasions, the BFI will recommend that predrilling be allowed at the contractor's option. When the BFI mentions predrilling, the Jetting and Spudding note should be modified by adding the following:

At the contractor's option, predrilling may be used in lieu of jetting or spudding. The extent of predrilling shall be to elevation _____. See Special Provision Section 520.

The BFI will make a recommendation for the elevation, perhaps as a reference to the estimated or minimum tip elevations. No pay item is needed for predrilling.

The BFI sometimes recommends pilot holes for piles in order to assure adequate penetration below the scour line. When this is the case, include the pilot hole General Note and the pilot hole pay item in the plans to cover the required quantity of pilot holes. The pilot hole General Note should specify the required diameter and the bottom elevation of the pilot hole.

BATTER PILES IN END BENTS

Batter piles should be provided in end bents when the height of fill from the bottom of the end bent cap to original ground is 20 feet (6 m) or greater. Batter piles should be added at the rate of one batter pile for each 4 or 5 vertical piles. This requirement can also be satisfied by battering some of the load-bearing piles.

DRIVING DATA PILES

Include driving data piles on bridges at the rate of about one for every four bents. These provide much more data than we get on the As-built Foundation Data Sheet in the plans. On bridges with PSC piles, the test piles can be considered driving data piles as far as determining the number of driving data piles to be called for.

LOAD TEST NOTE

When a load test is required to be performed on a bridge project, a note shall be placed in the general notes in the plans requiring the load test to be performed before any production piles are driven.

PILING QUANTITIES

Piling quantities should be calculated from the cut-off elevation to the average of the estimated tip elevations at each bent. Pile quantities should account for battered piles.

SCOUR CONSIDERATIONS IN SUBSTRUCTURE DESIGN

Substructures shall be designed for existing conditions. When piles are used, they should have 10 to 15 feet (3 to 4.5 m) of penetration below the 500 year scour line. Spread footings should be keyed in below the 500 year scour line. The 500 year scour line will be shown on the Preliminary Layout and may be adjusted in the BFI. Scour information shall not be included in the final bridge plans.

COFFERDAMS AND SEALS

In many cases, the BFI will make recommendations as to whether cofferdams and/or seals will be required for intermediate bent construction. Determination of the need for cofferdams and/or seals is a responsibility of the Office of Construction. When bridge plans are being prepared where there are concrete bents at a stream crossing, the Preliminary Layout or a preliminary Plan and Elevation sheet and a copy of the BFI Report shall be transmitted to the Assistant State Construction Engineer – Bridges for recommendations as to whether cofferdams and/or seals will be needed. This recommendation shall be the basis for plan data. Seals should not be used except as recommended by the Office of Construction because of the possibility of future voids under the seal. Contractors should not be allowed to substitute a seal for a genuine effort to dewater cofferdams.

KEYING SEALS AND FOOTINGS

When recommended in the BFI, spread footings and the seals beneath spread footings should be keyed into the underlying material. The entire footing or seal should be keyed in, not just the area under the column as indicated in the Standard Specifications. This requires a note on the Plans.

SPREAD FOOTINGS ON ROCK EMBANKMENTS

Some old bridges were constructed on what appears to be a rock embankment but is actually an earth core protected by rip rap. In this case, if a bridge is to be widened, pile foundations should be used. Also, on new bridges on rock embankments, spread footings should not be used on the rock embankment because of the potential for excessive settlement.

FREEZE BEARING OF PILES

When the BFI says that freeze bearing will be required if the piles fail to attain driving resistance once the minimum tip elevation is achieved, the General Note should be included in the General Notes. When the BFI says that freeze bearing will be required if the piles fail to attain driving resistance once the **Estimated** tip elevation is achieved, the General Note should be modified to:

Pile Driving - Should piles fail to obtain driving resistance after achieving the tip elevations shown, piles shall be allowed to freeze a minimum of 24 hours and be restruck with a warm hammer.

Bent	Elevation
1	234
2	986

Do not use the words "Estimated Tip" in the plans since they are a reflection of the BFI, which is NOT a part of the contract.

SWAYBRACING

Sway bracing for piles shall be detailed to extend 4" (100 mm) outside the edge of the Exterior piles.

FOOTING AND CAISSON ELEVATIONS

Spread footing and caisson tip elevations should be given to one decimal place and plus/minus for English or metric plans. Pile footing elevations should be given to 2 decimal places in English and 3 in metric. Elevations should be set to 0.5 feet or 0.25 m. Footing elevations should ALWAYS be shown at the bottom of the footing. If there are seals, with spread footing, the bottom of the seal elevation is shown and not the bottom of the footing; for pile footings, the bottom of the footing elevation is shown and not the bottom of the seal. Where caissons are used without footings, the top of caisson elevation should not be shown. In water, the top of the caisson should be one foot (300 mm) above the water elevation at the time of construction. On land, the top of the caisson should be one foot (300 mm) below the ground elevation at the caisson.

PILE BENT LIMITATIONS

The following are limits for span lengths that may be supported by pile intermediate bents:

PSC or Metal Shell piles: 70'-0" (21.3 m)

Steel H piles: 50'-0" (15.2 m)

If a span on either side of the bent is longer than these limits, pile bents shall not be used.

END BENT EXCAVATION

The Standard Specifications state that no separate measurement will be made under the item of Bridge Excavation for any excavation necessary for end bent construction. Do not add a note to the plans regarding end bent excavation except in unusual situations such as abutments.

DRILLED CAISSONS

Caissons shall be detailed with 6" (150 mm) of cover. The diameter of the caisson shall be an increment of 6" (150 mm) beginning with 36" (900 mm). When possible, use the same class of concrete for the caisson as is used in the remainder of the bent, but this consideration should not control the size of the caisson. Spiral reinforcing may be detailed for the caisson, but if it is, allow the contractor to substitute hoop stirrups for the spiral.

FOOTING PROPORTIONS

Whenever practical, spread footing shall be square with the same reinforcing steel in each direction. Whenever practical, pile footings shall be square, shall have a square pile pattern, and shall have the same reinforcing steel in each direction.

SECTION IX – RETAINING WALLS, SOUND BARRIERS, POLES

DESIGN CRITERIA FOR RETAINING WALLS

The criteria listed herein shall be used for designing, detailing and checking all retaining walls.

When a retaining wall is required on a project, the design office responsible for the project must submit the following information to the Office of Bridge Design:

- 1) An elevation view (profile) of the wall showing the following:
 - a) Beginning and ending wall stations
 - b) Elevations on top of the wall at the beginning, end and at profile break points
 - c) The original ground profile
 - d) The proposed ground profile
- 2) Roadway cross-sections in the vicinity of the wall that show the existing and final slope behind the wall
- 3) Project Cover Sheet
- 4) Project typical sections associated with the wall
- 5) Project plan-and-profile sheets showing the following:
 - a) Limits of right-of-way
 - b) Superelevation data
 - c) Horizontal and vertical alignment data
 - d) Horizontal offsets to the face of the wall, gutterline at barrier or face of parapet on the wall as applicable
 - e) Location and height of any sound barriers on the wall
 - f) Location of any overhead signs near the wall
 - g) Location of any roadway lighting near the wall
 - h) Location of any drainage structures that will affect the wall
- 6) Any construction sequence requirements for the wall construction
- 7) Any architectural treatment required for the wall.

These requirements apply for any special design walls, whether cast-in-place, MSE panel walls or modular block walls.

The Bridge Office Designer shall furnish the data to the Geotechnical Engineering Bureau for a wall foundation investigation report.

When wall plans are to be included in the contract plans for letting, the Bridge Designer shall furnish the proprietary wall companies with identical sets of wall data. Any revisions in wall data, such as adjustment of Wall Bottom Elevations, Wall Top Elevations, or Begin and End Stations shall be promptly furnished by letter to the wall companies.

The Bridge Office designer shall check the retaining wall final plans to make certain that the plans do not infringe upon the wall envelope. Private consultants working for the DOT shall make such checks when coordination with the various wall companies is included in the Scope of Work.

Mechanically Stabilized Earth Wall Criteria

All MSE Walls shall be designed and constructed in accordance with the following requirements:

1. The minimum cover from the proposed ground line to the bottom of the wall (top of leveling pad) shall be two feet.
2. The maximum slope behind the wall shall be 2 horizontal to 1 vertical.
3. The top elevation of all walls which retain sloping backfills shall be set to provide a 1'-6" deep drainage ditch.

4. Where the proposed ground line slopes downward from the front face of the wall, the elevation of the bottom of the wall (top of the footing) shall be set to maintain a minimum 10 ft. berm.
5. At any vertical location in an MSE wall, all soil reinforcements shall be the same length.

MSE wall plans shall be prepared as follows:

1. Be drawn to a scale, preferably 1" = 10' (1:100 or 1:125).
2. Be drawn with stations ahead to the right. The elevation view will be labeled either "Looking at back face of wall" or "Looking at front face of wall."
3. When showing wall envelopes for use with Section 627, in the elevation view, show the top of leveling pad, top of coping, or finished grade as per the Specification.

STAKING OF RETAINING WALLS ON CONSTRUCTION

For construction requirements for staking retaining walls, see Specification Section 149.3.03.D. Prior to approving the calculations and plans for contractor designed walls, the checker should have a letter from the contractor stating that the wall has been staked out and that it fits the site.

ALTERNATE BIDS FOR MECHANICALLY STABILIZED EARTH WALLS

It is the policy of the Office of Bridge and Structural Design that projects shall not go to contract with only one type of MSE wall in the plans. Alternates may be conventional retaining walls or other proprietary MSE systems. When it is not possible to get plans for two alternates prior to the letting, wall envelopes and pay items as per Section 627 of the Standard Specifications shall be included in the contract documents.

RETAINING WALL PROFILES

Upon receipt of retaining wall profiles (envelopes) and cross-sections from the Urban or Road Design Offices, the Designer shall give consideration to the elevations on the top of the walls. The Designer shall make sure that the top of wall profiles follow smooth eye pleasing curves with no sharp breaks. Any changes that are deemed necessary shall be discussed with the proper roadway Designer. This procedure will help to eliminate unsightly sharp peaks and valleys on top of retaining walls.

SETTLEMENT OF MECHANICALLY STABILIZED EARTH WALLS

MSE type walls, by their nature do not require massive structural foundations. However the earth mass contained by such walls will very likely cause settlements in the system depending upon the nature of the material on which the system is founded. If it is consistent, this settlement causes no problems; however, if the underlying conditions are inconsistent, there is a possibility of differential settlements along the length of the wall, which would be intolerable.

Therefore the Designer should insure that sufficient foundation investigation has been accomplished, and recommendations have been received from the Laboratory concerning the use of MSE walls at each location.

The Designer should also insure that bridge abutments at MSE walls are mechanically separate from the walls so that the rigidity of the abutment will not affect the wall as it settles.

BEARING CAPACITY FOR MECHANICALLY STABILIZED EARTH WALLS

The bearing capacity given in the Bridge Foundation Investigation Report may be increased by the unit weight of the backfill material after settlement has occurred. The following procedure is safe for granular soil, or as allowed by the Lab.

Example:

The BFI Report states 4 ksf bearing capacity is safe before the wall is built.

After a 20 ft. high wall is built and allowed to settle for 30 days, the bearing capacity of the underlying material has increased 2.6 ksf. Now the underlying material has a bearing capacity of 6.6 ksf.

Unloaded Bearing Capacity = q_0

Loaded Bearing Capacity = q_w

Use: $q_0 + q_w$

Gamma = $130 \times 20 \text{ ft.} = 2.6 \text{ ksf}$

$4.0 + 2.6 = 6.6 \text{ ksf}$

Settlement or primary consolidation must be over before additional bearing capacity becomes available. It may be necessary to wait at some sites after building just half the wall for strength increases to occur.

The designer shall not use this criteria in clays or pure silts until more information is gained in these materials. Wick drains may be necessary at some sites.

END BENTS ON MSE WALLS

The minimum distance, measured normal to the wall, from the Back Face of Paving Rest to the front face of the wall shall be 6'-0" (1800 mm).

**EROSION PROTECTION FOR END BENTS
ON MECHANICALLY STABILIZED EARTH WALLS**

When detailing bridge foundations on MSE walls, the area between the front face of the end bent cap and the back face of the wall shall be completely covered with 4-inch (100 mm) concrete slope paving. This is done to preclude erosion or loss of fines from concentrated water flowing in this area. The plans should note that costs for this slope paving should be included in price bid for contract items. The slope paving should be placed as soon as possible after the cap and wall coping are in place.

**MSE WALLS ON URBAN STREETS -
UTILITY CONSIDERATIONS**

Before using MSE walls or bin type walls on urban streets, the Designer shall investigate to see if underground utilities will interfere with the wall systems and their modules or straps in any way.

In general, MSE walls or bin type walls shall not be used in situations in which maintenance crews of the underground utilities will dig into the straps, mesh or modules. Conventional retaining walls shall be used in these instances.

In some situations, however, it may be preferable, due to economics or other considerations to build MSE walls or bin walls in situations in which there may be a potential conflict with utilities. In the case of any underground water, gas, telephone or sewer mains, the main shall be so located that if it is uncovered, there will be a minimum possibility of damage to the wall system's

integrity. This can be best accomplished by locating the main as close as possible to the center of the bridge.

OVERHEAD SIGNS ON MSE WALLS

Overhead sign foundations shall not be placed on the reinforced backfill of MSE walls.

MSE WALLS WITH SPECIFICATION SECTION 627

Due to decisions by proprietary wall system companies to cease providing plans before letting, most MSE walls will now be bid as Design/Build using Section 627 of the Standard Specifications. This specification covers the design and construction of MSE walls, and refers to Section 626 for additional construction requirements. Walls constructed using Section 627 are paid for per square foot of wall face area. See Figures 9-02 and 9-03 for the correct and incorrect ways to calculate the wall face pay item quantities.

INCLINATION OF SOUND BARRIER POSTS

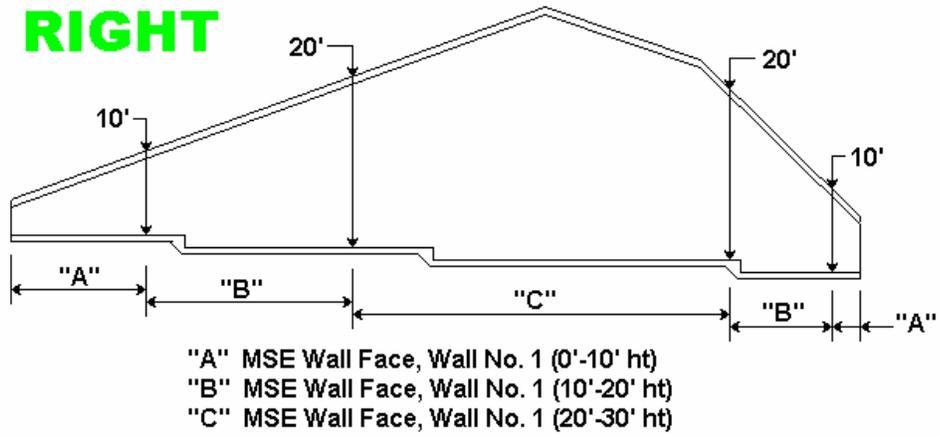
The Designer shall make certain that posts for sound barriers are detailed vertically on all Shop Drawings before the drawings are approved.

TIE-BACK WALLS

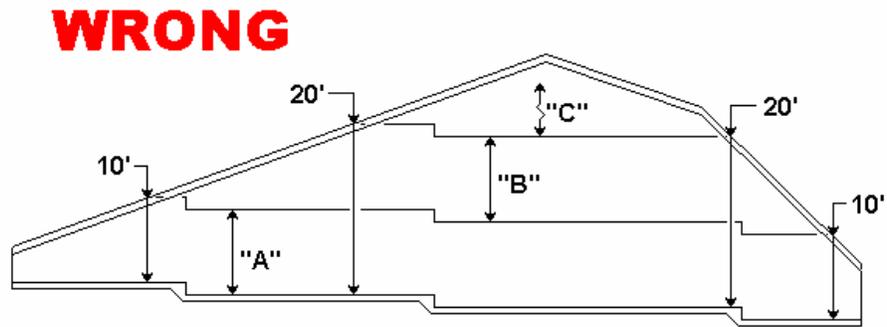
Soldier piles (either steel or precast concrete) are required in tie-back walls. Shotcrete (pneumatically applied concrete) will not be permitted as the permanent facing for tie-back walls. The permanent facing for tie-back walls shall be cast-in-place concrete. Until such time as the Standard Specifications are changed to meet these requirements, notes to this effect shall be added to the plans.

STRAIN POLES ON BRIDGES

Strain poles shall not be supported on the bridge superstructure. When placed on the substructure, both of the poles in the pair shall be on the same bent and the cables attached to the poles shall be parallel to the bent.



Wall Elevation
Figure 9-02



- "A" MSE Wall Face, Wall No. 1 (0'-10' ht)
- "B" MSE Wall Face, Wall No. 1 (10'-20' ht)
- "C" MSE Wall Face, Wall No. 1 (20'-30' ht)

Wall Elevation

Figure 9-03

END OF SECTION NO. 9

SECTION 10

SPECIAL PROVISIONS

1. All bridges must appropriately be tested for lead paint prior to the start of any work.
2. Contractors are to use only GDOT certified flaggers.
3. A 30 day notification is required for any road closures.
4. No work shall be performed during the week between the hours of 6:00am to 9:00am and from 3:30pm to 6:00pm.
5. Contractors must comply with ALL GDOT bridge painting standards.
6. Contractors must meet all EPD standards regarding hazardous waste disposal and handling.
7. All Contractors must submit paint system information.
8. All Contractors must supply necessary equipment for proper bridge inspection.

END OF SECTION NO. 10

SECTION 11

PRICING QUOTE

North Fulton County Bridge Scope of Work

Notice to Contractors: Please provide a price quote for the following list of bridge repairs. You may itemize each task. For the bid total, please add all total costs and provide this in the space marked bid total. Please see the Bridge Maintenance – 2006 Appendix to view the actual Structural Inventory and Appraisal sheets.

*Include ALL estimated railroad permitting fees as some bridges may be over railroad property. (Including but not limited to application, permitting and flagger fees.)

Item No.	Bridge Location	Structural ID #	Scope of Work	Price Quote
1	Spalding Drive over Crooked Creek	121-0278-0	Beam #1-west abutment and beams #1 and #2-east abutment have minor section loss. After beams have been cleaned, cover plate. Clean and paint all steel beams and pilings.	
2	Bethany Road over Cooper Sandy Creek	121-0281-0	Steel piles need to be cleaned, painted and protected with reinforced concrete encasements from points 2 feet below the mud line to a point 2 feet above normal water. Repair spalls on the bottom of the beams and cover reinforcement. Remove drift from beneath the structure. Remove restricted load limit signs.	
3	Chicken Creek	121-0283-0	Corrosion of the steel superstructure . The beams need to be cleaned and painted. Remove beaver dam upstream of structure. Repair erosion and undermining along the approach roadway.	
4	McGinness Ferry Road over Big Creek	121-0286-0	Corrosion and section loss of the piles at bents #2, #4 and # 5. Piles in bents 2, 4, and 5 should be encased in reinforced concrete from 2 feet below the mud line to 2 feet above normal water. Steel piles need to be cleaned and painted. Spalls in the cap at bent 2 and 3 should be repaired. Minor spalls on the bottom of structure need to be repaired. Bridge railing on western end of structure is loose and should be repaired.	
5	Old Alabama Road over Johns Creek Tributary	121-0291-0	Steel piles need to be cleaned and painted. Replace load limit signs.	

Item No.	Bridge Location	Structural ID #	Scope of Work	Price Quote
6	Dunwoody Club Drive over Ball Creek	121-0293-0	Clean and paint all steel beams. Clean and cover bottom of concrete deck. Repair scour along the face of the west abutment with rip rap.	
7	Rucker Road over Foe Killer Creek	121-0301-0	Repair spalls on the bottom of the concrete superstructure. Steel substructure piles need to be cleaned and painted. Repair the piles at the eastern abutment . Encasements should be extended downward to 2 feet below the existing mud line.	
8	Birmingham Road over Chicken Creek	121-5003-0	Steel piles should be cleaned and painted and encased with reinforced concrete from 2 feet below the existing mud line to 2 feet above normal water. Reinforcement steel on the underside of the deck should be cleaned and sealed. Deck slabs should be bolted together correctly.	
9	Dinsmore Road over Chicken Creek	121-5010-0	Steel pilings are corroded and need to be cleaned and painted. Remove restrictive load limit sign.	
10	Jones Road over Wileo Creek	121-5263-0	Clean and paint all steel piles. Construct catch basin with proper slope drain at southern abutment. Clean existing northern catch basin.	

BID TOTAL _____

South Fulton County Bridge Scope of Work

Notice to Contractors: Please provide a price quote for the following list of bridge repairs. You may itemize each task. For the bid total, please add all total costs and provide this in the space marked bid total. Please see the Bridge Maintenance – 2006 Appendix to view the actual Structural Inventory and Appraisal sheets.

*Include ALL estimated railroad permitting fees as some bridges may be over railroad property. (Including but not limited to application, permitting and flagger fees.)

Item No.	Bridge Location	Structural ID #	Scope of Work	Price Quote
11	Cascade Road over CSX Railroad	121-0090-0	Steel beams and bearing assemblies are corroded and should be thoroughly cleaned and painted. Steel armored joint at the west abutment is loose and should be tightened. The remaining deck joints have failed and need to be cleaned and sealed.	
12	Flat Shoals Road over Morning Creek Tributary	121-0275-0	Steel piles need to be cleaned and painted. Piles #1 and #13 at bent #2 need to be encased 2 feet below the existing mud line. Clean catch basins. Repair erosion at eastern abutment. Clean and seal all deck joints.	
13	McGinnes Ferry Road over Camp Creek Tributary	121-0284-0	All steel piles should be cleaned and painted. The piles at abutment #1 should be protected with reinforced concrete encasements extending from a point 2 feet below the mud line to a point 2 feet above normal water.	
14	Bethsaida road over Morning Creek Tributary	121-0295-0	Steel substructure is corroded. Steel piles should be cleaned and painted. Encasements on piles 1, 2, and 3 have been undermined. Three connecting bolts for the precast concrete superstructure are missing and need to be replaced. Repair spalls.	
15	Fairburn Road over North Utoy Creek	121-0344-0	Repair scour along the base of both abutments	
16	Sardis Church Road over Dry Branch	121-5043-0	Clean and paint steel piling All piles at bent #2 should be protected with reinforced concrete encasements extending from a point 2 feet below the mud line to a point 2 feet above normal water. Seal the void under the cap at the north abutment to protect the foundation piles from the environment. The deck joints have failed and should be cleaned and sealed.	

Item No.	Bridge Location	Structural ID #	Scope of Work	Price Quote
17	Vernon Grove Road over Longino Creek	121-5044-0	Concrete deck slabs are not properly bolted together. Clean and paint the steel piling in the north abutment.	
18	Woodruff Road over Bear Creek	121-5045-0	Steel piles should be cleaned and painted and a properly designed retaining wall should be constructed at the west abutment to reduce the loss of roadway fill. Extend concrete pile encasements at bents #2 and #3 to a point 2 feet below the existing mud line.	
19	Old Hamilton Road over White Oak Creek	121-5047-0	The steel piles at bent #2 should be cleaned and painted. Three bolts connecting the precast concrete superstructure units together are missing and should be replaced. Add rip rap around the eastern abutment to prevent scour.	
20	Phillips Road over Longino Creek	121-5050-0	The concrete deck slabs are not properly bolted together. Seal cap at northern abutment.	
21	Demooney Road over Deep Creek	121-5056-0	Clean and paint steel beams, piles and caps throughout structure. Remove drift in the channel. Deck joints have failed and should be cleaned and painted. Steel piles at bents #2,3 and 4 should be reinforced with concrete encasements that extend from a point 2 feet below the existing mud line to a point 2 feet above normal water.	
22	Aldredge Road over Wolf Creek	121-5058-0	Repair end fill settlement beneath the cap of both abutments.	
23	Jones Bridge Road over Deep Creek	121-5062-0	Clean and paint steel piles. Deck joints have failed and should be cleaned and painted.	
24	Koweta Road over Deep Creek	121-5063-0	Precast concrete superstructure units are not properly bolted together. Steel piles in bent #2 are corroded with section loss. Encase bent #2 piles in reinforced structural concrete encasements 2 feet below mud line and 2 feet above normal water. Spalls in the concrete beams should be sealed to protect the reinforcement steel within. Clean and seal deck joints.	
25	Scarborough Road over Wolf Creek	121-5068-0	Piles should be cleaned and painted. Concrete encasements at bent #2 should be extended to a point 2 feet below the mud line.	Scarborough Road over Wolf Creek

Item No.	Bridge Location	Structural ID #	Scope of Work	Price Quote
26	Pleasant Hill Road over Cater Creek	121-5072-0	Steel piling should be cleaned and painted. Cover piles. Pile encasements at bent #5 and 2 should be extended to a point 2 feet below the mud line. Repair cap at eastern abutment.	
27	Mallory Road over CSX Railroad	121-5076-0	Clean and paint steel piles. Seal spalls in the cap at the southern abutment and bent #2.	
28	Herndon Road over Bear Creek	121-5084-0	Piles at bent #2 should be protected with reinforced concrete encasements from a point 2 feet below the existing mud line to a point 2 feet above normal water. Repair voids beneath the cap at both abutments.	
29	Great Southwest Parkway over North Utoy Creek	121-5103-0	Encase piles at bents #2,3 and 4 from a point 2 feet below mud line to a point 2 feet above normal water. Fill void beneath cap at northern abutment. Add sway bracing to piling at bent #2. Clean and seal all deck joints.	Great Southwest Parkway over North Utoy Creek
30	Barnes Road over White Oak Creek	121-5109-0	Concrete deck slabs are not properly bolted together. Clean and paint all steel piling. Extend east abutment piles from a point 2 feet below the existing mud line to a point 2 feet above normal water. Repair spalls in deck panels. This structure requires railing. Replace posting signs at west end of structure.	
31	Rico Road over Longino Creek	121-5111-0	Tighten bolts connecting precast concrete superstructure. Repair scour at western abutment with rip rap. Seal all longitudinal cracks in caps.	
32	Cochran Mill Road over Bear Creek	121-5113-0	Extend piles at bent #3 to a point 2 feet below the existing mud line and to a point 2 feet above normal water. Level northern approach roadway with bridge, it has settled.	
33	Cochran Mill Road over Pea Creek	121-5114-0	Apply for bridge replacement. Repair potholes in overlay. Clean and paint steel superstructure. Repair scour and undermining at southern abutment. Current signs are incorrect, please replace with correct symbols.	
34	Cochran Road over Deep Creek	121-5119-0	Apply for bridge replacement. Clean and cover plate all steel beams in areas with section loss. All steel components should be cleaned and painted. Extend piles at each abutment from a point 2 feet below the mud line to a point 2 feet above normal water. Load limit sign missing at one end.	

Item No.	Bridge Location	Structural ID #	Scope of Work	Price Quote
35	Stacks Road over CSX Railroad	121-5210-0	Remove 3" excess asphalt if possible. Steel piling throughout structure needs to be cleaned and painted. Replace wing wall at west abutment. Fill void under cap and under approach roadway.	
36	Ono Road over Bear Creek	121-5274-0	Recast concrete superstructure units are not properly bolted together. Clean and paint all steel piles. Encase piles #2 and 3 at bent #2 in reinforced structural concrete encasements and extend 2 feet below existing mud line. Repair spells on the superstructure panels. Remove beaver dam at bent #2. Type 3 Truck sign is incorrect, please replace with correct symbol.	
37	Creekwood Road over Borum Springs Creek	121-5275-0	Clean and paint steel piles. Extend pile encasements at bent #2 to a point 2 feet below the exiting mud line.	

BID TOTAL_____

The full name and addresses of persons or parties interested in the foregoing Bid, as principals, are as follows:

NAME _____ ADDRESS _____

NAME _____ ADDRESS _____

NAME _____ ADDRESS _____

NAME _____ ADDRESS _____

The Bidder shall list below work done of a similar nature to that Bid for, as references that will afford the Owner opportunity to judge as to experience, standing, and financial ability.

PROJECT NAME	OWNER'S NAME	OWNER'S REPRESENTATIVE'S TELEPHONE
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

END OF SECTION NO. 11

FINAL AFFIDAVIT

TO FULTON COUNTY, GEORGIA

I, _____, hereby certify that all suppliers of materials, equipment and service, subcontractors, mechanics, and laborers employed by or any of his subcontractors in connection with the **BRIDGE MAINTENANCE – 2006** in Fulton County, have been paid and satisfied in full as of _____, 200__, and that there are no outstanding obligations or claims of any kind for the payment of which Fulton County on the above named project might be liable, or subject to, in any lawful proceeding at law or in equity.

Signature

Title

ATTEST

Personally appeared before me this _____ day of _____, 200__.

_____, who under oath, deposes and says that he is

_____ of the firm of

, that he has read the above statement and that to the best of his knowledge and belief same is an exact true statement.

Notary Public

My Commission Expires: _____

(seal)