

BID SUBMITTAL CHECKLIST

Important Instructions:

- I. One unbound original and one bound copies of the bid are required to be submitted marked with the bid number, opening time and date on the outside of a sealed envelope and must be typewritten or printed in ink.

- II. All documents below must be included when you submit your bid package **in the order as listed below.** Failure to submit any of items marked below with an asterisk (*) shall cause rejection of the Bid and shall not be considered a minor irregularity.

DOCUMENTATION DESCRIPTION

- * Solicitation Form (page 1 of this document)
- * Addenda (if applicable)
- * Any Requested Documents in Bid Specifications
- * W-9 Form

PUBLIC WORKS RESURFACING PROJECTS
BID #15-4210-01 OPENING: 11:00 A.M., APRIL 20, 2015

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SECTION I – GENERAL OVERVIEW

A. PURPOSE

ADVERTISEMENT BID NOTICE FOR BALDWIN COUNTY 2015 LMIG ROAD RESURFACING

Sealed bids, for furnishing all materials, labor, tools, equipment and appurtenances necessary for the improvement and rehabilitation of various road surfaces in Baldwin County will be received at the Baldwin County Courthouse, 121 N. Wilkinson St. Suite 314, Georgia, until 11:00 a.m., local time, on APRIL 20, 2015, and then at said office publicly opened and read aloud. No bid may be withdrawn after the closing time for the receipt of bids for a period of ninety (90) calendar days.

The work to be done consists of furnishing all materials and equipment and performing all labor necessary to rehabilitate and resurface approximately 7 miles of roads and all incidental work required.

Plans, specifications and contract documents will be on file at the purchasing office, 121 N. Wilkinson St in the Baldwin County Courthouse, Milledgeville, Georgia and available for download on Baldwin County website:
www.baldwincountyga.com

A mandatory pre-bid conference will be held on Friday, APRIL 10, 2015 at 10:00 A.M at the Baldwin County Courthouse, 121 N. Wilkinson St., Suite 314.

The successful bidder shall commence work with an adequate force and equipment on a date specified by Baldwin County and complete the work within the time specified under respective contract documents.

Owner's Right: Contracts shall be awarded to the lowest responsible and responsive bidder whose combined bid meets the requirements and criteria set forth in the advertisement for bids; provided, however, that if the bid from the lowest responsible and responsive bidder exceeds funds budgeted for one or both contracts, respective governmental entity may negotiate with such apparent low bidder to obtain a contract price within the budgeted amount. Such negotiations may include changes in the scope of work and other bid requirements. Baldwin County reserves the right to reject any or all bids, to waive informalities.

Baldwin County
Sherri M. Arp
Purchasing Manager

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B. GENERAL INSTRUCTIONS, TERMS, AND CONDITIONS

1. Bids Submission

- a. These instructions will bind Bidders to terms and conditions herein set forth, except as specifically stated otherwise in special contract terms with any individual bid. These instructions are to be considered an integral part of the bid.
- b. The Submittal Checklist must be reviewed and the Bidder is to comply with the order of the submittal of documents.
- c. **One (1) bound complete copy and one (1) clearly marked “Original” of the bid documents must be submitted typewritten or printed in ink. All bids must be filled out legibly with all changes or corrections must be initialed by the person signing the bid. The bid must be manually signed.**
- d. The person, firm or corporation submitting the bid must submit it in a sealed envelope/parcel on or before the date and time stated in this document. The name of the Bidder must be shown in the upper left corner of the bid envelope and the words “BID Response” in the lower left corner.

The envelope shall be mailed or delivered to:

**BALDWIN COUNTY BOARD OF COMMISSIONERS
121 N WILKINSON ST., STE 314
MILLEDGEVILLE, GA 31061
BID # 15-4210-01
PUBLIC WORKS RESURFACING PROJECTS
Opening: 11:00 AM, APRIL 20, 2015**

- e. Bids may be submitted by mail, common carrier or delivered in person. Fax or electronic bids are not acceptable. It shall be the duty of each Bidder to ensure that their bid is delivered within the time and at the place prescribed in this document. Bids received prior to the time fixed in this bid document will be securely kept unopened. A date/time stamp will be affixed to the envelope/package immediately upon its arrival to the Baldwin County Board of Commissioners Office. Any bid received at the office designated in this document after the exact time and date specified, will not be considered. If a late bid is received via carrier, it will be marked “late bid” and will not be opened. If a late bid is hand delivered, it will be returned unopened to the presenter.
- f. At the date and time specified for the opening of the bid, the bid shall be publicly opened and read aloud for the information of Bidders and others present.
- g. If descriptive literature is attached to the bid, your firm’s name must be on all sheets submitted.
- h. Each bid submitted shall be deemed to have been made with full knowledge of all terms, conditions, and requirements contained in this Bid request. The failure or omission of any Bidder to examine any form, instrument or document shall in no way relieve any Bidder from obligations in respect to the bid submittal or the compliance of the terms, conditions and requirements of the bid.
- i. Individual contractors shall provide their Social Security number and proprietorships; partnerships and corporations shall provide their Federal Employer Identification number on page one of this bid documents and provide a completed W9 form to be submitted with the bid.
- j. The authorized representative whose signature will appear on the bid submitted certifies that the Bidder has carefully examined the instructions of this bid and the terms and specifications applicable to and made a part of this bid. The Bidder further certifies that the prices shown on

the Bid Price Submittal Form is in accordance with the conditions, terms and specifications of the bid and that any exception taken thereto may disqualify the bid.

- k. Bids shall be made on the enclosed form if a form is provided.
- l. Any documentation submitted with or in support of a bid or bid shall become subject to public inspection under the Georgia Open Records Act. Labeling such information “Confidential”, “Proprietary”, or in any other manner shall not protect this material from public inspection upon request. All records become subject to public inspection only after award of the contract or purchase order.

2. Preparation of Bids

- a. Negligence on the part of the Bidder in preparing the bid confers no right for withdrawal or modification in any way after the deadline for the bid opening.
- b. Unit price must be shown on the Bid Cost Submittal Form in this document. All bids should be tabulated, totaled and checked for accuracy. The unit price will prevail in case of errors.
- c. All product, equipment, article or material must be new and unused or current production. No reconditioned or used item(s) will be accepted except as specifically requested herein. Units that are classified as prototype or discontinued models are not acceptable.
- d. Samples of items, when required, must be submitted within the time specified and unless otherwise specified by the County, at no expense to the County. Unless otherwise specified, samples will be returned at the Bidder’s request and expense if items are not destroyed by testing.
- e. Full identification of each item bid upon, including brand name, model, catalog number, etc., must be furnished to identify exactly what the Bidder is offering. Whenever an article or material is defined by describing a proprietary product or by using the name of a manufacturer, the term “or equal” if not inserted shall be implied. The specified article or material shall be understood as indicating the type, function, minimum standard of design, efficiency and quality desired and shall not be construed as to exclude other manufactured products of comparable quality, design and efficiency. In the event that any equivalent version is proposed, prospective Bidders are herewith advised that precise, adequate, and documented evidence of equivalency in performance, stability, and operational efficiency should be submitted with the bid for further consideration. Final determination of equivalency will be determined by Baldwin County.

3. Clarification and Communication to County Concerning Bid

- a. From time to time, the Purchasing Department may have to release written changes to a solicitation. These formal written changes are called addendum or if multiple, Addenda. Although Baldwin County will take reasonable steps to ensure that known perspective Bidders have all applicable addenda, **it is the ultimate responsibility of the Bidder to ensure that they have all applicable addenda prior to the bid/bid submission. Therefore, we encourage all Bidders to frequently review the County’s web site: www.baldwincountyga.com . All addenda forms must be signed and submitted with the bid.** Failure to respond to any addenda or requests for clarification, even after the bid opening, may result in a non-responsive bid.
- b. The successful firm’s bid and all addenda will become a part of the agreement resulting from this document.
- c. Bidders seeking an award of a Baldwin County contract **shall not** initiate or continue any verbal or written communication regarding a solicitation with any County officer, elected official, employee or other County representative without permission of the Purchasing Department between the date of the issuance of the solicitation and the date of the final contract award by the Board of Commissioners. Violations will be reviewed by the Purchasing Director.

If determined that such communication has compromised the competitive process, the offer submitted by the individual, firm or business shall be disqualified from consideration for award. **EXCEPTION** to the above would be emailing request for clarification and/or questions to the Purchasing Department: sarp@baldwincountyga.com

4. **Pre-Bid Conference**

The Pre-Bid Conference or any other information session (if indicated in the schedule of events) will be held at the offices referred to in the “Schedule of Events” of this bid. Unless indicated otherwise, attendance is not mandatory; although suppliers are strongly encouraged to attend. However, in the event the conference has been identified as mandatory, then a representative of the supplier must attend the conference in its entirety to be considered eligible for contract award.

5. **Rejection and Withdrawal of Bids**

- a. Withdrawal of bid due to errors, the supplier has up to forty-eight (48) hours to notify the Purchasing Department of an obvious clerical error made in calculation of bid in order to withdraw a bid after bid opening. Withdrawal of bid for this reason must be done in writing within the forty-eight hour period.
- b. The County will make a recommendation of the bid/bid to the Board of Commissioners within 60 days from date of the opening.
- c. The County may reject all or part of the bid/bid within 60 days of bid opening.

6. **Bid and Contract Documents**

- a. A bid executed by an attorney or agent on behalf of the Bidder shall be accompanied by an authenticated copy of the Power of Attorney or other evidence of authority to act on behalf of the Bidder.
Corporation: If the Bidder is a corporation, the Corporate Certificate (Attachment C) must be completed. This certificate must be executed under the corporate seal by a duly authorized officer of the corporation. If the Bidder is a corporation, the bid must be submitted in the name of the Corporation, not simply the corporation’s trade name. In addition, the Bidder must indicate the corporate title of the individual signing the bid.
Partnership: If the Bidder is a partnership, all partners must sign the bid with a letter of a partnership certification statement (Attachment C) on company letterhead that they are all the partners. If all the partners do not sign the bid, then the names of all those except limited partners must be furnished on the bid and evidence of the authority of the signer(s) to execute the bid on behalf of the partnership.
- b. The contract documents consist of this Agreement, Specifications and Addenda issued prior to execution of this Agreement, other documents listed in this Agreement and Modifications issued after execution of this Agreement. These form the Contract and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated Agreement between the parties hereto and supersedes prior negotiations, representation or agreements, either written or oral.
- c. Contract Term – The time period of the agreement, if any is formed from this bid, will be determined after the review and evaluation of the Time Line Schedules submitted by the successful Consultant.

7. **Exceptions and Omissions**

If exceptions are taken to any portion of these specifications, such exception must accompany the bid and must be in writing. If any feature normally included in a complete job of this nature is omitted from these specifications, it too must be so stated in writing and be included with the bid.

8. Alterations of Solicitation and Associated Documents

Alterations of County documents are strictly prohibited and will result in automatic disqualification of the Bidder's solicitation response. If there are "exceptions" or comments to any of the solicitation requirements or other language, then the Bidder may make notes to those areas, but may not materially alter any document language.

9. Cost Incurred by Vendors

All expenses involved with the preparation and submission of the bid to the Baldwin County Board of Commissioners, or any work performed in connection therewith is the responsibility of the vendor(s).

10. Codes, Permits, Fees, Licenses and Law

- a. All permits, fees, arrangements for inspections, licenses, and costs incurred for the same shall be the sole responsibility of the successful Bidder. All materials, labor and construction must comply with all applicable rules and regulations of local, state and/or national codes, laws and ordinances of all authorities having jurisdiction over the project, shall apply to the contract throughout and will be deemed to be included in the contract the same as though herein written out in full.
- b. **Effective July 1, 2008:** All General Contractors must have a current valid license from the State Licensing Board for Residential and General Contractors, unless specifically exempted from holding such license pursuant to Georgia law, O.C.G.A. Section 43-41-17.
- c. State Law regarding Worker Verification requires that all who enter into a contract for the physical performance of services with the County must satisfy O.C.G.A. §13-10-91 and Rule 300-10-1-.02, in all manner, and such are conditions of the contract. By submitting a bid to the County contractor agrees that in the event the contractor employs or contracts with any subcontractor(s) in connection with the covered contract, the contractor will secure from the subcontractor(s) such subcontractor(s) indication of the employee-number category applicable to the subcontractor, as well as attestation(s) from such subcontractor(s) that they are in compliance. Such attestation(s) shall be maintained and may be inspected by the County at any time. An affidavit of such compliance included with the bid, must be signed by the contractor, and will become part of the contract.

11. Safety

All vendors and subcontractors performing services are required and shall comply with all Occupational Safety and Health Administration (OSHA), State and County Safety and Occupational Health Standards and any other applicable rules and regulations. Also, all contractors and subcontractors shall be held responsible for the safety of their employees and any unsafe acts or conditions that may cause injury or damage to any persons or property within and around the work site area under this Contract.

12. Design, Standards and Practices

Design, strength, quality of materials and workmanship must conform to the highest standards of engineering practices and/or professional services.

13. Statement of Warranty

A Statement of Warranty should include all applicable manufacturers' warranty and/or the Contractor's warranty in regards to **LABOR WILL BE 5 YEARS** workmanship. This statement shall include the terms, conditions and the period of warranty coverage. Any exclusion(s) must be clearly stated.

14. Non-collusion

By submitting a bid in response to this solicitation, the Bidder represents that in the preparation and submission of this bid, said Bidder did not either directly or indirectly, enter into any combination or arrangement with any person, Bidder, Corporation or enter into any agreement, participate in any collusion, or otherwise take any action in the restraint of free, competitive bidding in violation of the Sherman Act (15 U.S.C. Section I or Section 59.1-9.1 through 59.1-9.17 or Sections 59.1 – 68.6 through 59.68.8). Collusion and fraud in bid preparation shall be reported to the State of Georgia Attorney General and the United States Justice Department.

15. Nondiscrimination

Notwithstanding any other provision of this Agreement, during the performance of this Agreement Contractor, for itself, its heirs, personal representatives, successors in interest and assigns, as part of the consideration of this Agreement does hereby covenant and agree, as a covenant running with the land, that:

- a. No person on the grounds of race, color, religion, sex or national origin shall be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination;
- b. In the production of the vehicle(s), and the furnishing of services therein or thereon, no person on the grounds of race, color, religion, sex or national origin shall be excluded from participation in, or denied the benefits of, such activities, or otherwise be subjected to discrimination.

16. Drug Free Workplace Certification

By signing the Supply Service Contract form, the Contractor certifies that the provisions of Code Sections 50-24-1 through 50-24-6 of the Official Code of Georgia Annotated, relating to the “Drug-free Workplace Act”, have been complied with in full. The undersigned further certifies that:

- a. A drug-free workplace will be provided for the Contractor’s employees during performance of the contract; and
- b. Each Contractor who hires a subcontractor to work in a drug-free work place shall secure from that subcontractor the following written certification:
“As part of the subcontracting agreement with (Contractor’s name), (Subcontractor’s name) certifies to the Contractor that a drug-free workplace will be provided for the subcontractor’s employees during the performance of this Contract pursuant to Paragraph (7) of Sub-section (b) of Code Section 50-24-3”.
- c. The Contractor further certifies that he will not engage in the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana during the performance of the Contract.
- d. Contractor may be suspended, terminated, or debarred if it is determined that:
 - (1) The Contractor has made false certification hereinabove; or
 - (2) The Contractor has violated such certification by failure to carry out the requirements of the Official Code of Georgia Section 50-24-3.

17. Georgia Security and Immigration Compliance Act

Pursuant to the Georgia Security and Immigration Compliance Act of 2006, the successful Contractor understands and agrees that compliance with the requirements of O.C.G.A.13-10-91 and Georgia Department of Labor Rule 300-10-02 are conditions of this bid and contract document. The Contractor further agrees that such compliance shall be attested by the Contractor and any of his Subcontractors by execution of the appropriate Affidavit and Agreement which will be included and become a part of the Agreement between Baldwin County and the successful Contractor.

18. Systematic Alien Verification for Entitlements (SAVE) Program

Since a contract has been deemed a “public benefit,” the contractor or other party to the contract must be run through the federal Systematic Alien Verification for Entitlements (SAVE) Program. This program requires that local government verify the legal status of non-U.S. citizens who apply for certain benefits. The contractor must execute a SAVE affidavit attesting that either he or she is a U.S. citizen or legally qualified to receive the benefit. If the contractor is not a U.S. citizen, then the local government has to run that contractor through the SAVE system. Only non-U.S. citizens can be processed through the SAVE program.

19. Delivery and F.O.B. Destination

- a. All prices shall include shipping and delivery cost to our destination; F.O.B., Baldwin County, Georgia, unless otherwise requested. The Bidder shall handle all material procurement, storage and delivery to project site. Unless otherwise specified in this specification, Bidder shall supply all materials required. The County will grant no allowance for boxing, crating or delivery unless specifically provided for in this bid. The Bidder shall retain title for the risk of transportation, including the filing for loss or damages.
- b. The County desires delivery of the product(s) or service(s) as specified at the earliest possible time after the date of award. Unreasonable delivery may be cause for disqualifying a bid. Each firm shall state a definite delivery time and avoid using general terms such as "ASAP" or approximately so many days.

20. Discounts

Cash discounts for early payment (i.e. 2%-10) or Net 30 terms should be shown separately, even if terms are Net.

21. County’s Tax Exemption

Baldwin County is exempt from Federal Excise Tax or Georgia Sales Tax with regard to goods and services purchased directly by Baldwin County. Exemption certificates furnished upon request.

22. Award of Contract

- a. Baldwin County desires to complete the award process in a timely manner. Baldwin County reserves the right to reject or accept any or all bid/bids, whole or any parts hereof, by item or group of items, by section or geographic area, or make multiple awards and be the final approval of bid(s) selection which would be the most advantageous to the County with price and other factors considered. Baldwin County may elect to waive any technicalities. The bid will be awarded to the lowest responsive, responsible or highest scored Bidder(s), if awarded. The bid specifications and results will be available on the County’s web site: www.baldwincountyga.com
- b. Baldwin County reserves the right to reject any bid if the evidence submitted by or investigation of, the Bidder fails to satisfy the County that the Bidder is properly qualified to carry out the obligations of the Contract. If the successful Bidder defaults on their bid, an award may be made to the next low responsive and responsible Bidder.
Responsibility - The determination of the Bidder’s responsibility will be made by the County based on whether the Bidder meets the following minimum standard requirements:
 - Maintains a physical location presence and permanent place of business.
 - Has the appropriate and adequate technical experience required.
 - Has adequate personnel and equipment to perform the work expeditiously
 - Able to comply with the required or proposed delivery and installation schedule.

- Has a satisfactory record of performance.
- The ability of Bidder to provide future maintenance and service for the use of the contract under consideration.
- Has adequate financial means to meet obligations incidental to the work.
- Such other factors as appear to be pertinent to either the bid or the contract.

Responsiveness - The determination of the Bidder's responsiveness will be made by the County based on a consideration of whether the Bidder has submitted complete bid documents meeting bid requirements without irregularities, excisions, special conditions, or alternatives bids for any item unless specifically requested in the bid solicitation.

- c. Baldwin County is subject to making records available for disclosure after the Board of Commissioners approval of the recommendation. The award shall be made by the Board of Commissioners of Baldwin County. No claim shall be made by the selected Consultant 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 the bid. The total of the awarded contract shall not exceed the available funds allocated for the bid project.

23. Local Vendor Privilege *NOT ON PUBLIC WORKS PROJECTS*****

24. County Direction of Project Site and Monitoring of Work

- a. The Contractor may have a Project Coordinator, but the project site shall remain under the control of Baldwin County. The Contractor shall provide and make available an appointee to Baldwin County for project coordination and supervision of Bidder installation personnel. Coordination consist of meeting with the Baldwin County representatives to review the project; on site walk throughout of installation area(s) before the installation begins; review installation procedures; review installation progress and to handle any problems during installation until project completion.
- b. The successful Bidder will promptly correct all work rejected by the County as faulty, defective, or failing to conform to the Minimum Specifications and/or to consensus standards adopted by both government and industry governing the repairs, whether observed before or after substantial completion of the work, and whether or not fabricated, installed, or completed. The successful Bidder will bear all costs of correcting such rejected work.
- c. The Contractor shall insure all trash generated by work performed shall be removed from the site and properly disposed as each work operation is completed in a given area. Additionally, the Contractor shall ensure all disturbances to the area where the Contractor performed work are restored to the same condition prior to start of the project. If an inspection reveals that the Contractor fails to clean up after work has been performed. The County will notify the Contractor of the discrepancy and the Contractor will have twenty-four (24) hours to make the correction. Should the Contractor still fails to clean the area, the County reserves the right to make other arrangements to have the area cleaned and the County shall deduct the cost from the Contractor's invoice.
- d. No one except authorized employees of the Contractor is allowed on the premises of Baldwin County facilities. Contractor employees are not to be accompanied in their work area by acquaintances, family members, assistants, or any other person unless said person is an authorized employee of the Contractor.
- e. All information disclosed by Baldwin County to the successful Contractor for the purpose of the work to be done or information that comes to the attention of the successful Contractor during the course of performing such work is to be kept strictly confidential.

25. Indemnification

- a. The vendor that is selected as the contractor shall, at its own expense, protect, defend, indemnify, save and hold harmless Baldwin County and its elected and appointed officers, employees, servants and agents from all claims, damages, lawsuits, costs and expenses including, but not limited to, all costs from administrative proceedings, court costs and attorney fees that Baldwin County and its elected and appointed officers, employees, servants and agents may incur as a result of the acts, omissions or negligence of the contractor or its employees, servants, agents or subcontractors that may arise out of the agreement.
- b. The contractor's indemnification responsibility under this section shall include the sum of damages, costs and expenses which are in excess of the sum of damages, costs and expenses which are paid out in behalf of or reimbursed to the County, its officers, employees, servants and agents by the insurance coverage obtained and/or maintained by the contractor.

26. Controlling Law, Venue

Any dispute arising as a result of this bid and/or an Agreement which was created from the terms, conditions and specifications of this document or their interpretation, litigation shall only be entered into and shall be performed in Baldwin County, Georgia. This Agreement shall be governed by the applicable laws of the County of Baldwin and the State of Georgia. Any dispute arising out of the agreement, this bid solicitation, its interpretations, or its performance shall be litigated only in the County of Baldwin Judicial Courts.

27. Contractor as Independent Contractor

In conducting its business hereunder, Contractor acts as an independent contractor and not as an employee or agent of County. The selection, retention, assignment, direction and payment of Contractor's employees shall be the sole responsibility of Contractor.

28. Assignment

The Agreement, in whole or any part hereof, created by the award to the successful contractor shall not be sold, not be assigned or transferred by Contractor by process or operation of law or in any other manner whatsoever, including intra-corporate transfers or reorganizations between or among a subsidiary of Contractor, or with a business entity which is merged or consolidated with Contractor or which purchases a majority or controlling interest in the ownership or assets of Contractor without the prior written consent of Baldwin County.

29. Performance of Contract

- a. Baldwin County reserves the right to enforce the Contractor's performance of this Agreement in any manner prescribed by law or deemed to be in the best interest of the County in the event of breach or default or resulting contract award. It will be understood that time is of the essence in the Bidder's performance.
- b. The successful Contractor shall execute the entire work described in the Contract Documents, except to the extent specifically indicated in the Contract documents to be the responsibility of others.
- c. The Contractor accepts the relationship of trust and confidence established by the award of this bid solicitation. The Contractor covenants with the County to utilize the Contractor's best skill, efforts and judgment in furthering the interest of the County; to furnish efficient business administration and supervision; to make best efforts to furnish at all times an adequate supply of workers and materials; and to perform the work in the best way and most expeditious and economical manner consistent with the interest of the County,
- d. All purchases for goods or services are subject to the availability of funds for this particular purpose.

30. **Default and Termination**

a. **Termination by Contractor**

The agreement resulting from this bid shall be subject to termination by Contractor in the event of any one or more of the following events: The default by County in the performance of any of the terms, covenants or conditions of this Agreement, and the failure of County to remedy, or undertake to remedy such default, for a period of thirty (30) days after receipt of notice from Contractor to remedy the same.

b. **Termination by County**

The agreement resulting from this bid shall be subject to termination by the County at any time in the opinion of the County; the contractor fails to carry out the contract provisions of any one or more of the following events:

- (1) The default by Contractor in the performance of any of the terms, covenants or conditions of the Agreement, and the failure of Contractor to remedy, or undertake to remedy with sufficient forces and to the County's reasonable satisfaction, the County shall provide the vendor with notice of any conditions which violate or endanger the performance of the Agreement. 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 Agreement without further notice to the Contractor and order the Contractor to stop work immediately and vacate the premises, to cancel ordered products and/or services with no expense to the County.
- (2) Contractor files a voluntary petition in bankruptcy, including a reorganization plan, makes a general or other assignment for the benefit of creditors, is adjudicated as bankrupt or if a receiver is appointed for the benefit of creditors, is adjudicated as bankrupt or if a receiver is appointed for the property or affairs of Contractor and such receivership is not vacated within thirty (30) days after the appointment of such receiver.
- (3) Contractors' failure to conduct services according to the approved bid specifications.
- (4) Contractors' failure to keep, perform, or observe any other term or condition of this Agreement.
- (5) Contractor's performance of the contract is unreasonably delayed.
- (6) Should the successful Bidder fail to provide the commodities or services when ordered, and in accordance with the General Terms and Conditions, specifications and any other requirements contained herein are not met, the County reserves the right to purchase commodities or services covered by this contract elsewhere if available from an alternate source.
- (7) The Contractor agrees by its bid submission that the County's decision is final and valid.

c. **Force Majeure**

Neither party shall be held to be in breach of the Agreement resulting from this bid, because of any failure to perform any of its obligations hereunder if said failure is due to any act of God, fire, flood, accident, strike, riot, insurrection, war, or any other cause over which that party has no control. Such party shall give notice and full particulars of such Force Majeure in writing to the other party within a reasonable time after occurrence of the event and the obligation of the party giving such notice shall endeavor to remove or overcome such inability with all reasonable dispatch.

d. **Waiver**

The waiver of any breach, violation or default in or with respect to the performance or observance of the covenants and conditions contained herein shall not be taken to constitute a waiver any subsequent breach, violation or default in or with respect to the same or any other covenant or condition hereof.

31. Invoices

Invoices and/or statements should not be faxed but originals must be mailed directly to:

Baldwin County Board of Commissioners
121 N Wilkinson St., Ste 314
Milledgeville, GA 31061

The following information must appear on all invoices submitted:

- Name and address of successful Bidder;
- Detailed breakdown of all charges for the services or products delivered stating any applicable period of time;
- Baldwin County's Purchase Order Number and Bid Package number;
- Invoices shall be based upon actual services rendered, actual work performance and/or products delivered.

32. Payment

Payment shall be tendered to the successful Bidder upon acceptance and approval by the County for satisfactory compliance with the general terms, conditions and specifications of the bid; by completed services; verification of delivery of products; assurance that the product/service performs as specified and warranted; and receipt of a valid invoice.

BALDWIN COUNTY RESERVES THE RIGHT TO RETAIN TEN PERCENT (10 %) OF THE PROJECT COST UNTIL FINAL INSPECTION AND ACCEPTANCE OF THE WORK IS PERFORMED BY COUNTY.

SECTION II – SPECIFICATIONS

EXHIBIT A

BALDWIN COUNTY PUBLIC WORKS RESURFACING BID TABULATION SHEETS (4 PAGES) – COMPLETE, SIGN AND SUBMIT

EXHIBIT B

SPECIAL PROVISIONS FOR COUNTY ROAD MAINTENANCE CONTRACTS TRAFFIC CONTROL (1 PAGE)

EXHIBIT C

**GA DEPARTMENT OF TRANSPORTATION SECTION 402
HOT MIX RECYCLED ASPHALTIC CONCRETE (5 PAGES)**

EXHIBIT D

**GA DEPARTMENT OF TRANSPORTATION SECTION 424
BITUMINOUS SURFACE TREATMENT (4 PAGES)**

EXHIBIT E

**GA DEPARTMENT OF TRANSPORTATION SECTION 407
ASPHALT-JOINT AND CRACK SEALING (1 PAGE)**

EXHIBIT F

**GA DEPARTMENT OF TRANSPORTATION SECTION 413
BITUMINOUS TACK COAT (3 PAGES)**

EXHIBIT G

**GA DEPARTMENT OF TRANSPORTATION SECTION 652
PAINTING TRAFFIC STRIP (4 PAGES)**

EXHIBIT H

**GA DEPARTMENT OF TRANSPORTATION SECTION 653
THERMOPLASTIC TRAFFIC STRIPES (9 PAGES)**

EXHIBIT I

**GA DEPARTMENT OF TRANSPORTATION SECTION 611
RELAYING, RECONSTRUCTING, OR ADJUSTING TO GRADE OF
MISCELLANEOUS ROADWAY STRUCTURES (3 PAGES)**

EXHIBIT A.

SECTION II

BID TABULATION SHEETS FOR VARIOUS ROAD RESURFACING PROJECTS IN BALDWIN COUNTY GEORGIA

SHILOH ROAD SW (FROM HARRISBURG ROAD TO DEAD END): Length 860 ft, Width 21 ft (2006 sy)				UNIT PRICE:	LINE ITEM TOTAL:
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:	
Overlay	402-3100	135.0	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy	
Patching	402-1802	50	TONS	Recycled asphalt incl bitum matl and H lime	
Bitum Tack Coat	413-1000	80	GAL	0.04 Gal/SY	
Striping	652-2501	0.16	L. MILE	Solid Traffic Stripe, 5 in White	
Striping	652-2502	0.16	L. MILE	Solid Traffic Stripe, 5 in Yellow	
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White	
Manhole	611-8050	1	EA	Adjust Manhole Frame to Grade	
TOTAL:					
Additional Comments:					

HONEYUCKLE ROAD NW (FROM HWY 212 TO LOOP): Length 4382 ft, Width 20 ft (9739 sy)				UNIT PRICE:	LINE ITEM TOTAL:
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:	
Overlay	402-3100	657	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy	
Patching	402-1802	250	TONS	Recycled asphalt incl bitum matl and H lime	
Surface Treatment	424-6089	9739	SY	Double Surface Trtmnt, Stone size 7 and 89, GP 1 or 2	
Bitum Tack Coat	413-1000	390	GAL	0.04 Gal/SY	
Striping	652-2501	0.83	L. MILE	Solid Traffic Stripe, 5 in White	
Striping	652-2502	0.83	L. MILE	Solid Traffic Stripe, 5 in Yellow	
Striping	653-1704	20	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White	
TOTAL:					
Additional Comments:					

DAISY TRAIL NW (FROM FORTE DRIVE TO CUL-DE-SAC): Length 1345 ft, Width 21 ft (3138 sy)				UNIT PRICE:	LINE ITEM TOTAL:
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:	
Overlay	402-3100	212	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy	
Cul-de-sac	402-3100	18	TONS	9.5 mm recycled asphalt superpave @ 165 lbs/sy	
Leveling	402-1812	59	TONS	Recycled asphalt incl bitum matl and H lime @ 35 lbs/sy	
Bitum Tack Coat	413-1000	134	GAL	0.04 Gal/SY	
Striping	652-2501	0.25	L. MILE	Solid Traffic Stripe, 5 in White	
Striping	652-2502	0.25	L. MILE	Solid Traffic Stripe, 5 in Yellow	
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White	
TOTAL:					
Additional Comments: County will do patching.					

MAMIE HARRIS ROAD NE (FROM DUNLAP ROAD TO DEAD END): Length 650 ft, Width 20 ft (1444 sy)					UNIT PRICE:	LINE ITEM TOTAL:
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:		
Overlay	402-3100	98	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy		
Patching	402-1802	20	TONS	Recycled asphalt incl bitum matl and H lime		
Leveling	402-1812	59	TONS	Recycled asphalt incl bitum matl and H lime @ 35 lbs/sy		
Bitum Tack Coat	413-1000	58	GAL	0.04 Gal/SY		
Striping	652-2501	0.12	L. MILE	Solid Traffic Stripe, 5 in White		
Striping	652-2502	0.12	L. MILE	Solid Traffic Stripe, 5 in Yellow		
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White		
TOTAL:						
Additional Comments:						

NATURE CREEK CIRCLE SW (FROM NATURE CREEK TRAIL TO CUL-DE-SAC): Length 140 ft, Width 24 ft (373 sy)					UNIT PRICE:	LINE ITEM TOTAL:
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:		
Overlay	402-3100	25	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy		
Cul-de-sac	402-3100	46	TONS	9.5 mm recycled asphalt superpave @ 165 lbs/sy		
Bitum Tack Coat	413-1000	37	GAL	0.04 Gal/SY		
Striping	652-2501	0.042	L. MILE	Solid Traffic Stripe, 5 in White		
Striping	652-2502	0.042	L. MILE	Solid Traffic Stripe, 5 in Yellow		
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White		
TOTAL:						
Additional Comments: County will do patching.						

SANFORD DRIVE NE (FROM SINCLAIR MARINA ROAD TO DEAD END): Length 505 ft, Width 12 ft (673 sy)					UNIT PRICE:	LINE ITEM TOTAL:
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:		
Overlay	402-3100	46	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy		
Bitum Tack Coat	413-1000	27	GAL	0.04 Gal/SY		
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White		
TOTAL:						
Additional Comments: County will do patching.						

YOUNGBLOOD ROAD SE (FROM VINSON HWY TO 0.5 MILES): Length 2640 ft, Width 22 ft (6453 sy)					UNIT PRICE:	LINE ITEM TOTAL:
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:		
Overlay	402-3100	436	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy		
Patching	402-1802	175	TONS	Recycled asphalt incl bitum matl and H lime		
Bitum Tack Coat	413-1000	258	GAL	0.04 Gal/SY		
Striping	652-2501	0.5	L. MILE	Solid Traffic Stripe, 5 in White		
Striping	652-2502	0.5	L. MILE	Solid Traffic Stripe, 5 in Yellow		
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White		
TOTAL:						
Additional Comments:						

DEEPSTEP ROAD NE (FROM HWY 24 TO COUNTY LINE): Length 22,970 ft, Width 22 ft (56,149 sy)				
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:
Patching	402-1802	500	TONS	Recycled asphalt incl bitum matl and H lime
Crack Sealing	407-0010	100000	LF	Asphalt-Rubber Joint and Crack Seal
Chip Sealing	424-5089	56149	SY	Single Surface Trtmnt, Stone Size 89, GP 1 or 2
Striping	652-2501	0.44	L. MILE	Solid Traffic Stripe, 5 in White
Striping	652-2502	0.44	L. MILE	Solid Traffic Stripe, 5 in Yellow
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White
TOTAL:				

Additional Comments:

CLEMENTS COVE NE (FROM SINCLAIR MARINA ROAD TO LOOP): Length 500 ft, Width 12 ft (667 sy)				
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:
Overlay	402-3100	45	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy
Bitum Tack Coat	413-1000	27	GAL	0.04 Gal/SY
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White
TOTAL:				

Additional Comments: County will do patching.

THOMAS STREET SE (FROM HARDWICK STREET TO DEAD END): Length 800 ft, Width 20 ft (1778 sy)				
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:
Overlay	402-3100	120	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy
Leveling	402-1812	30	TONS	Recycled asphalt incl bitum matl and H lime @ 35 lbs/sy
Bitum Tack Coat	413-1000	72	GAL	0.04 Gal/SY
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White
Water Valve	611-8140	1	EA	Adjust Valve Box to Grade
Manhole	611-8050	1	EA	Adjust Manhole Frame to Grade
TOTAL:				

Additional Comments: County will do patching.

BAYWOOD COURT SW (FROM BAYWOOD DRIVE TO CUL-DE-SAC): Length 130 ft, Width 22 ft (318 sy)				
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:
Overlay	402-3100	22	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy
Cul-de-sac	402-3100	18	TONS	9.5 mm recycled asphalt superpave @ 165 lbs/sy
Leveling	402-1812	30	TONS	Recycled asphalt incl bitum matl and H lime @ 35 lbs/sy
Bitum Tack Coat	413-1000	22	GAL	0.04 Gal/SY
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White
Manhole	611-8050	1	EA	Adjust Manhole Frame to Grade
TOTAL:				

Additional Comments: County will do patching.

OLD MONTGOMERYVILLE ROAD NE (FROM HWY 441 N TO 300FT): Length 300 ft, Width 27 ft (900 sy)						
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:	UNIT PRICE:	LINE ITEM TOTAL:
Overlay	402-3100	74	TONS	9.5 mm recycled asphalt superpave @ 165 lbs/sy		
Leveling	402-1812	16	TONS	Recycled asphalt incl bitum matl and H lime @ 35 lbs/sy		
Bitum Tack Coat	413-1000	36	GAL	0.04 Gal/SY		
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White		
TOTAL:						
Additional Comments: County will do patching.						

OLD MONTGOMERYVILLE ROAD NE (300FT TO DEAD END): Length 720 ft, Width 14 ft (1120 sy)						
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:	UNIT PRICE:	LINE ITEM TOTAL:
Overlay	402-3100	76	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy		
Leveling	402-1812	20	TONS	Recycled asphalt incl bitum matl and H lime @ 35 lbs/sy		
Bitum Tack Coat	413-1000	45	GAL	0.04 Gal/SY		
TOTAL:						
Additional Comments: County will do patching.						

DZIRKALIS CIRCLE SW (FROM IRWINTON ROAD TO CUL-DE-SAC): Length 185 ft, Width 18 ft (370 sy)						
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:	UNIT PRICE:	LINE ITEM TOTAL:
Overlay	402-3100	25	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy		
Cul-de-sac	402-3100	18	TONS	9.5 mm recycled asphalt superpave @ 165 lbs/sy		
Leveling	402-1812	7	TONS	Recycled asphalt incl bitum matl and H lime @ 35 lbs/sy		
Bitum Tack Coat	413-1000	15	GAL	0.04 Gal/SY		
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White		
Manhole	611-8050	1	EA	Adjust Manhole Frame to Grade		
TOTAL:						
Additional Comments: County will do patching.						

BLOODWORTH STREET SE (FROM THOMASFIELD ROAD TO LOOP): Length 950 ft, Width 14 ft (1478 sy)						
TREATMENT:	ITEM #:	QUANTITY:	UNITS:	NOTES:	UNIT PRICE:	LINE ITEM TOTAL:
Overlay	402-3100	100	TONS	9.5 mm recycled asphalt superpave @ 135 lbs/sy		
Leveling	402-1812	26	TONS	Recycled asphalt incl bitum matl and H lime @ 35 lbs/sy		
Bitum Tack Coat	413-1000	59	GAL	0.04 Gal/SY		
Striping	653-1704	10	L. FOOT	Thermoplastic Solid Traffic Stripe, 24 in White		
TOTAL:						
Additional Comments: County will do patching.						

GRAND TOTAL:

SECTION II
EXHIBIT B

SPECIAL PROVISIONS FOR BALDWIN COUNTY ROAD MAINTENANCE CONTRACTS

BID DATE _____

TRAFFIC CONTROL

The contractor is responsible for controlling traffic during the entire project. Traffic control is not to be paid separately, but to be included in the Unit Price.

At a minimum, a traffic regulator (flagger) will be required at each end of the work zone to control approaching traffic. In addition, a flagger will be required at all side roads within the work zone which intersect the roadway to be resurfaced. All flaggers within the work zone shall be wearing high visibility safety clothing.

All flaggers within the work zone shall be equipped with a two-way radio and have the ability to communicate with all other flaggers within the zone with this two-way radio.

Signing for construction shall also be included in the Unit Price bid. At a minimum signing for each location/work zone shall meet the requirements of the FHWA Manual on Uniform Traffic Control Devices, Part 6.

Section 402—Hot Mix Recycled Asphaltic Concrete

402.1 General Description

This work includes producing and placing hot mix recycled asphaltic concrete that incorporates reclaimed asphalt pavement (RAP), reclaimed asphalt shingles (RAS), virgin aggregate, hydrated lime, and neat asphalt cement.

402.1.01 Definitions

General Provisions 101 through 150.

402.1.02 Related References

A. Standard Specifications

Section 400—Hot Mix Asphaltic Concrete Construction

Section 800—Coarse Aggregate

Section 828—Hot Mix Asphaltic Concrete Mixtures

B. Referenced Documents

Guidelines for RAP Stockpile Approval

402.1.03 Submittals

A. Certified Weight Tickets

Notify the Engineer before removing RAP from a stockpile that belongs to the Department. Submit to the Engineer the certified weight tickets of materials removed from the stockpile.

B. Affidavit

Submit to the laboratory an affidavit stating the sources of stockpiled materials to be used on a State project. Include the following information in the letter:

- State project number
- Location from which the material was removed
- Approximate removal dates
- Mix types removed and the estimated quantity of each type in the stockpiles
- Other available information about the stockpiled material such as percentage of local sand in the RAP

Obtain specific approval from the laboratory to use RAP or RAS stockpiles.

Adhere to Guidelines for RAP Stockpile Approval.

402.2 Materials

A. RAP Material Composition

Use RAP materials from any of the following:

- Existing roadway
- Contractor's RAP stockpile that has been approved by the Department
- Department stockpile

NOTE: The location of Department RAP material stockpiles will be given on the Plans.

Section 402—Hot Mix Recycled Asphaltic Concrete

Do not use RAP materials that contain alluvial gravel or local sand in any mixture placed on interstate projects except for mixtures used in shoulder construction. When used in shoulder construction, limit RAP containing local sand or alluvial gravel so that the sand or gravel contributes no more than 20% of the total aggregate portion of the mix.

1. RAP Percentage

For non-interstate projects, limit the percentage of RAP allowed in recycled mixes so that the overall amount of alluvial gravel does not exceed 5 percent of the total mix. The percentage of alluvial gravel, local sand, and Group I material in the RAP will be determined through petrographic analysis or available records.

RAP furnished to the Contractor but not used in the work remains the Contractor's property.

RAP used in the recycled mixtures for mainline or ramps (if applicable) may make up from 0 to 40 percent of the mixture depending on the amount of RAP available, the production facilities, and whether the mixture meets the requirements in [Section 828](#).

The maximum ratio of RAP material to the recycled mixture is 40 percent for continuous mix type plants and 25 percent for batch type plants.

2. Process RAP Material

Process RAP material to be used in the recycled mixture so that 100 percent will pass the 2 in (50 mm) sieve. Additional crushing and sizing may be required if the RAP aggregate exceeds the maximum sieve size for the mix type as shown in [Section 828](#). Obtain representative materials from the RAP stockpile for the mix design.

B. RAS Material

RAS materials are produced as a by-product of manufacturing roofing shingles and/or discarded shingle scrap from the reroofing of buildings.

1. Limit the amount of RAS material used in the recycled mixture to no greater than 5 percent of the total mixture weight.
2. Shred the RAS material before incorporating it into the mix to ensure that 100 percent of the shredded pieces are less than 1/2 in (12.5 mm) in any dimension.
3. Remove all foreign materials such as paper, roofing nails, wood, or metal flashing.
4. Provide test results for Bulk Sample Analysis, known as Polarized Light Microscopy, if post-consumer shingles are used to certify the RAS material is free of asbestos. Test stockpiles at the rate of one test per 1000 tons (megagrams) prior to processing.

Other than as specifically stated in this Subsection, ensure that RAS material is used according to the same requirements as described for RAP material.

C. Asphaltic Concrete Removed from an Existing Roadway

Asphaltic concrete removed from an existing roadway becomes the Contractor's property unless specified otherwise on the Plans. RAP material retained by the Department is designated on the Plans, and the RAP shall be stockpiled at the location specified on the Plans.

D. Local Sand and Group I Material in RAP

Use of local sand in recycled mixes is restricted as stipulated in [Section 828](#) for the Project. However, RAP which contains local sand may be used in surface and intermediate layers of non-interstate projects so long as the RAP percentage used does not contribute more than 5% local sand to the total aggregate portion of the mix. The amount of local sand in the RAP material shall be considered when determining the percentage of local sand in the total mix.

Where Pay Items specify that Group II only aggregate is to be used, RAP which consists primarily of Group II aggregate, but contains some Group I aggregate, shall be limited such that the Group I aggregate makes up no more than 5% of the total aggregate portion of the mix. When a Blend I mix is specified, any Group I materials in the RAP will be considered when determining the Group I portion allowed in the total mix as specified in [Subsection 828.2.A.2](#).

Section 402—Hot Mix Recycled Asphaltic Concrete

E. Asphalt Cement

Using laboratory evaluations, the Department will determine the asphalt cement grade to be used in the recycled mixture. The asphalt cement shall meet the requirements of Section 820.

When the asphalt cement is blended with asphalt cement recovered from the RAP material and after tests on residue from thin film oven tests, the asphalt cement shall have a viscosity of 6,000 to 16,000 poises (600 to 1600 Pa) or as approved by the Engineer. Recover asphalt cement from the recycled mixture to verify that the specified viscosity is being met.

If the Engineer determines during construction that the selected asphalt cement grade is not performing satisfactorily, the Department may change the asphalt cement grade in the mixture, with no change in the Contract Unit Price.

F. Recycled Mixture

The recycled mixture shall be a homogenous mixture of RAP or RAS material, virgin aggregate, hydrated lime, and neat asphalt cement. Ensure that the mixture conforms to an approved mixture design outlined in Section 828.

402.2.01 Delivery, Storage, and Handling

Separate the stockpiles by Project sources and by Group I and Group II aggregate types. Erect a sign on each stockpile to identify the source(s).

If RAP material from different project sources becomes intermixed in a stockpile, only use those materials when approved by the laboratory.

The Department may reject by visual inspection stockpiles that are not clean and free of foreign materials.

402.3 Construction Requirements

402.3.01 Personnel

General Provisions 101 through 150.

402.3.02 Equipment

A. Hot Mix Plant

Use a hot mix plant for the recycling process with necessary modifications approved by the Engineer to process recycled material. Design, equip, and operate the plant so that the proportioning, heating, and mixing yields a uniform final mixture within the job mix formula tolerances.

B. Cold Feed Bin

Proportion the RAP or RAS material using a separate cold feed bin. Ensure that the material meets the size requirements in Subsection 402.2, "Materials." The ratio of the RAP or RAS to virgin aggregate shall be controlled gravimetrically.

C. Electronic Belt Weighing Devices

Use electronic belt weighing devices to monitor the flow of RAP or RAS and the flow of virgin aggregate. For batch-type plants, the RAP or RAS portion of the mix may be weighed in a weigh hopper before incorporating it into the pugmill.

D. Feeders and Conveyors

Equip plants with an interlocking system of feeders and conveyors that synchronize the RAP or RAS material flow with the virgin aggregate flow. Ensure that the electronic controls track the flow rates indicated by the belt weighing devices and develop the signal to automatically maintain the desired ratio at varying production rates. Design the RAP or RAS feeder bins, conveyor system, and auxiliary bins (if used) to prevent RAP material from segregating and sticking.

Section 402—Hot Mix Recycled Asphaltic Concrete

402.3.03 Preparation

General Provisions 101 through 150.

402.3.04 Fabrication

General Provisions 101 through 150.

402.3.05 Construction

Follow the requirements in Section 400 for hot mix recycled asphaltic concrete production and placement, materials, equipment, and acceptance plans except as noted or modified in this Specification.

402.3.06 Quality Acceptance

The Department may require additional quality control tests to determine the RAP stockpile consistency and the RAP aggregate quality. In this case, conduct at least three extraction/gradation tests from each individual source. Ensure that aggregate meets the quality standards in [Section 800](#).

402.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

402.4 Measurement

Recycled asphaltic concrete mixture, complete in place and accepted, is measured in tons (megagrams). The weight is determined by recorded weights if an approved recording device is used. Or, the weight is determined by weighing each loaded vehicle on an approved motor truck scale as the material is hauled to the roadway.

402.4.01 Limits

General Provisions 101 through 150.

402.5 Payment

The work performed and the materials furnished as described in this Specification will be paid for at the Contract Unit Price per ton (megagram). Payment is full compensation for providing materials, hauling and necessary crushing, processing, placing, rolling and finishing the recycled mixture, and providing labor, tools, equipment, and incidentals necessary to complete the work, including hauling and stockpiling RAP or RAS material.

Payment will be made under:

Item No. 402	Recycled asphaltic concrete type, group-blend, including bituminous materials	Per ton (megagram)
Item No. 402	Recycled asphaltic concrete type, group-blend, including bituminous materials and hydrated lime	Per ton (megagram)
Item No. 402	Recycled asphaltic concrete type, group-blend, including polymer-modified bituminous materials and hydrated lime	Per ton (megagram)
Item No. 402	_____ in (mm) recycled asphaltic concrete type, group-blend, including bituminous materials	Per square yard (meter)
Item No. 402	_____ in (mm) recycled asphaltic concrete type, group-blend, including bituminous materials and hydrated lime	Per square yard (meter)
Item No. 402	_____ in (mm) recycled asphaltic concrete type, group-blend, including polymer-modified bituminous materials and hydrated lime	Per square yard (meter)
Item No. 402	Recycled asphaltic concrete patching including bituminous materials	Per ton (megagram)
Item No. 402	Recycled asphaltic concrete patching including bituminous materials and hydrated lime	Per ton (megagram)

Section 402—Hot Mix Recycled Asphaltic Concrete

Item No. 402	Recycled asphaltic concrete leveling including bituminous materials	Per ton (megagram)
Item No. 402	Recycled asphaltic concrete leveling including bituminous materials and hydrated lime	Per ton (megagram)

402.5.01 Adjustments

General Provisions 101 through 150.

SECTION GDOT 424 - BITUMINOUS SURFACE TREATMENT

The work of **Bituminous Surface Treatment** shall be done in compliance with the “Standard Specification for Road and Bridge Construction” 2001 edition, Section 424, published by the Georgia Department of Transportation.

Special Provision: - The following exceptions to GADOT Section 424 Specifications are made:

Materials

Bituminous Material

Use a latex-modified cationic asphalt emulsion, Grade CRS-2L that meets the requirements of Subsection 824.2.02 below. **Source of bituminous material shall be Seaco, Inc. or other approved supplier. Notify the Engineer and provide samples of material for testing at least 10 days prior to ordering the bituminous material.**

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

SPECIAL PROVISION

Section 824 - Cationic Asphalt Emulsion

Delete Subsection 824.1.01.B and substitute the following:

A. Referenced Documents

AASHTO T 49
 AASHTO T 51
 AASHTO T 53
 AASHTO T 59
 AASHTO T 72
 AASHTO T 301
 AASHTO T 302-99
 ASTM D 5546 – 01
 QPL 65
 GDT-135

Add the following:

824.2.02 Latex-Modified Cationic Asphalt Emulsion**A. Requirements**

1. Latex Rubber Additive (LRA)
 - a. Ensure the LRA is natural latex or an un-vulcanized styrene-butadiene rubber in an emulsified latex form.
 - b. Ensure that the LRA comes from an approved source listed in the Department’s current QPL 65 for use in cationic asphalt emulsion.
2. Latex-Modified Cationic Asphalt Emulsion

- a. Use PG58-22 as the base asphalt.
- b. Add the LRA in the necessary proportions to result in a minimum of 3% polymer by weight of the asphalt residue.
- c. Co-mill the LRA and asphalt cement while manufacturing the emulsified asphalt to produce a homogeneous mixture.
- d. Ensure the latex-modified cationic asphalt emulsion, when undisturbed for 24 hours, shows no separation of emulsion and LRA and no color striations, but has a uniform color throughout.
- e. Use a latex-modified cationic asphalt emulsion that meets the requirements in Table 2.

Table 2 – Requirements for Latex-Modified Cationic Asphalt Emulsion

Type Tests	Rapid Setting	
	CRS-2L	
Tests on Emulsion	Min	Max
Viscosity, Saybolt Furol @ 122 °F (50 °C), sec.	100	400
Storage stability, 24 hours, percent		1
Settlement, 5 days, percent		5
Demulsibility, 35 ml, 0.8% dioctyl sodium sulfosuccinate, percent	40	
Particle charge test	Positive	
Sieve test, percent		0.10
Residue by distillation, percent ¹	65	
Tests on Emulsion Residue	Min	Max
Penetration @ 77 °F (25 °C), 100g, 5 sec., (dmm)	70	150
Ductility, @ 77 °F (25 °C), 5 cm/min., (cm)	125	
Elastic recovery @ 50°F (10 °C), percent ²	55	
Ring & ball softening point, °F	125	
Solubility in toluene by centrifuge, percent	97.5	
Polymer solids content, percent	3.0	
1. AASHTO T-59 modified to include a maximum temperature of 400°F ± 10°F (204°C ± 5°C) to be held for a period of 15 minutes. 2. GDT-135, Residue by evaporation.		

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

Test as follows:

Test	Method
Penetration of bituminous materials	AASHTO T 49
Ductility	AASHTO T 51
Softening point of bitumen	AASHTO T 53
Testing emulsified asphalts	AASHTO T 59

Viscosity	AASHTO T 72
Elastic recovery	AASHTO T 301
Polymer content of polymer-modified emulsions	AASHTO T 302-99
Solubility of asphalt binders in toluene by centrifuge	ASTM D 5546 – 01
Residue by evaporation of latex-modified asphalt emulsions	GDT-135

D. Materials Warranty

General Provisions 101 through 150.

Aggregates

Use **Class A, Group II** crushed stone meeting the requirements of Subsection 800.2.01 for bituminous surface treatment construction, except as noted below. Stone shall be dry and dust free.

The size of aggregates used in the surface treatment for roads:

Single Surface Treatment-Use Stalite 5/16” Roadway Material

Double Surface Treatment-Use #7 Aggregate 1st Application and #89 Aggregate for 2nd Application Stone

Steel-Wheeled Rollers

Use self-propelled, tandem-type steel-wheeled rollers. The rollers shall weigh from 3 to 8 tons (3 to 7 Mg). Ensure that the roller weights within these limits can properly seat the aggregate without fracturing the aggregate particles. Equip the roller drums with scrapers to prevent pick up of material. Combination rollers with pneumatic-tired wheels that can be alternated with a steel drum are permitted as a substitute for steel-wheeled rollers

Pneumatic-Tired Rollers

Use self-propelled, two axles, pneumatic-tired rollers with smooth-tread rubber tires aligned such that gaps between the tires on one axle are covered by the tires of the other axle. Equip the roller tires with scrapers and scrubbers to prevent pick up of material. Ensure that all tires are of the same size and ply rating and inflated to a minimum of 60 psi (415 kPa). Maintain tire pressure such that the difference in pressure between any two tires does not exceed 5 psi (35 kPa). Provide ballast as directed by the Engineer.

Observing Seasonal and Weather Limitations

Apply bituminous surface treatment only between April 15 and October 15 and only when:

- Ambient temperature has not been less than 50°F (10°C) for 48 hours immediately prior to application.
- No forecast of ambient temperatures less than 50°F (10°C) for 48 hours immediately following application.
- Ambient temperature and road surface temperature is at least 60°F (16°C) and stable at the time of application.

When the relative humidity exceeds 80%, the ambient temperature exceeds 95°F (35°C), the pavement surface temperature exceeds 125°F (52°F), or the weather is windy or overcast, application of bituminous surface treatment will be at the discretion of the Engineer.

Apply Latex-Modified Emulsion (CRS-2L) at temperatures between 140 °F – 180 °F (60 °C – 82 °C).

Rolling

Observe the following guidelines for rolling bituminous surface treatment:

1. Synchronize the speed of the distributor and aggregate spreader with that of the rolling operation.
2. Use a minimum of two (2) individual rollers, one of which must be a pneumatic-tired roller meeting the requirements of Subsection 424.3.02.E.
3. If a steel-wheeled roller will fracture the aggregate, use pneumatic-tired rollers only.
4. Begin rolling within one minute after spreading the aggregate.
5. Operate rollers at speeds not exceeding 5 mph.
6. Proceed in a longitudinal direction, beginning at the outside edge of the aggregate application.
7. A roller pass is defined as one trip in a single direction.
8. Overlap each roller pass by approximately 1/2 the roller width.
9. Provide a minimum of six (6) roller passes for each layer of aggregate to properly embed the aggregate particles.

Brooming

Use a revolving broom as necessary, supplemented by hand brooming, to remove or redistribute excess stone. Sweep the completed surface treatment within the first three hours of the next available workday following placement. Take care not to unseat bonded stone when sweeping.

Controlling Traffic

Do not allow traffic on the surface treatment until the bituminous material has cured sufficiently to ensure that the aggregate will not be loosened, dislodged, or whipped off by slow moving traffic.

Control traffic to speeds not exceeding 25 mph for a minimum of two hours after application of the seal stone and until the Engineer permits the road to be opened to normal traffic speeds.

Use of pilot vehicles may be utilized to control traffic speeds.

Measurement and Payment:

Measurement and payment of **Single Surface Trtmt, Stalite 5/16", W/Latex Mod Emul CRS-2L, Double Surface Trtmt, Stn Size 7 & 89, GP 2 Only, W/Latex Mod Emul CRS-2L** shall be measured for payment as established by the Project Manager on the basis of square yards as measured prior to coverage of failed areas. Any additional treated area outside of the designated areas will not be considered for payment.

Item No. 424 Single Surface Trtmt, Stalite 5/16 In, W/Latex Mod Emul CRS-2L.....SY
Item No. 424 Double Surface Trtmt, Stn Size 7 & 89, GP 2 Only, W/Latex Mod Emul CRS-2L.....SY

SECTION GDOT 407 - ASPHALT RUBBER JOINT AND CRACK SEAL

The work of **Asphalt Rubber Joint and Crack Seal** shall be done in compliance with the "Standard Specification for Road and Bridge Construction" 2001 edition, Section 424, published by the Georgia Department of Transportation. Additionally, any cracks to be filled shall first be cleaned with compressed air and when cold temperature and damp conditions are present a hot compressed air lance. When debris, asphalt fines, dirt or grass is lodged in the crack, a power driven wire brush with compressed air may be required. The material shall be placed into and over a cleaned crack and shaped with a 2 inch cup or 3-4 inch squeegee leaving a 2 inch to 4 inch band configuration.

Typically all cracks 1/16 inch and wider shall be sealed. Exceptions to this shall be cracks within severe alligatored and block crack areas where the square foot area within the block crack is 1 to 1.5 sq. ft., depending on the severity of the cracked area. The project manager or his representative may, on a street by street basis, vary this minimum crack width as street type, usage and other planned maintenance activities on a roadway may dictate.

Measurement and Payment:

Measurement and payment for **Asphalt Rubber Joint and Crack Seal, TP M** will be measured for payment on the basis of **pounds** as installed per specifications. Quantities shall be maintained by the contractor and reported to the Project Manager on a road by road and daily basis.

Payment shall be full compensation for furnishing all materials and performing the work of satisfactorily sealing joints and cracks in accordance with specification.

Item No. 407 Asphalt Rubber Joint and Crack Seal, TP M.....LB

Section 413—Bituminous Tack Coat

413.1 General Description

This work includes furnishing and applying a bituminous tack coat on a prepared road surface including cleaning the road surface.

413.1.01 Definitions

General Provisions 101 through 150.

413.1.02 Related References

A. Standard Specifications

Section 109—Measurement and Payment

Section 400—Hot Mix Asphaltic Concrete Construction

Section 424—Bituminous Surface Treatment

Section 427—Emulsified Asphalt Slurry Seal

Section 820—Asphalt Cement

Section 824—Cationic Asphalt Emulsion

B. Referenced Documents

General Provisions 101 through 150.

413.1.03 Submittals

General Provisions 101 through 150.

413.2 Materials

Ensure that materials meet the following Specifications:

Material	Section
Asphalt cement, performance grade PG 58-22, PG 64-22, or PG 67-22	<u>820.2.01</u>
Cationic emulsified asphalt CRS-2h or CRS-3	<u>824.2.01</u>

Asphalt cement of performance grade PG 58-22, PG 64-22 or PG 67-22 is used for bituminous tack coat in work performed in Section 400. Use cationic emulsified asphalt as a special application material only if directed by the Engineer.

The Department may change the grade or type of bituminous materials without a change in the Contract Unit Price if the Engineer determines that the grade or type selected is not performing satisfactorily.

413.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

413.3 Construction Requirements

413.3.01 Personnel

General Provisions 101 through 150.

413.3.02 Equipment

Provide equipment in good repair, including the following units that meet the requirements of Subsection 424.3.02, Equipment.

- Power broom and blower
- Pressure distributor

413.3.03 Preparation

General Provisions 101 through 150.

Section 413—Bituminous Tack Coat

413.3.04 Fabrication

General Provisions 101 through 150.

413.3.05 Construction

A. Seasonal and Weather Limitation

Do not apply tack coat if the existing surface is wet or frozen. Do not place emulsified asphalt if the air temperature in the shade is less than 40 °F (4 °C).

B. Application

Coat the entire areas to be paved with the tack coat unless directed otherwise by the Engineer. Apply tack coat with distributor spray bars instead of hand hoses, except in small areas that are inaccessible to spray bars.

C. Temperature of Material

Apply bituminous materials within the temperature ranges specified below.

Bituminous Materials	Temperature of Application °F (°C)
Asphalt cement	350 - 400 (175 - 205)
CRS-2h	140 - 180 (60 - 80)
CRS-3	140 - 180 (60 - 80)

D. Cleaning

Immediately before applying the tack coat, clean the entire area free of loose dirt, clay, and other foreign materials.

E. Application Rate

The Engineer will determine the application rate of the bituminous tack coat.

F. Limitations and Areas Coated

Apply only enough tack coat to the prepared road surface that can be covered with the new pavement course the same working day the tack coat is applied.

G. Maintenance and Protection

After applying the tack coat material, allow it to break until it is tacky enough to receive the surface course. Do not allow traffic on the tack.

413.3.06 Quality Acceptance

General Provisions 101 through 150.

413.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

413.4 Measurement

Bituminous materials for tack coat applied and accepted are measured as outlined in Subsection 109.02, "Measurement of Bituminous Materials."

Diluting emulsified tack coat is not ordinarily allowed except when used underneath slurry seal. The composition of diluted emulsified tack coat defined in Subsection 427.3.05, "Construction" is measured by the gallon (liter) of diluted mix.

413.4.01 Limits

General Provisions 101 through 150.

413.5 Payment

The accepted volume of bituminous material will be paid for at the Contract Unit Price per gallon (liter) for bituminous tack coat of the type and grade approved by the Engineer, complete in place. Payment is full compensation for preparing, cleaning, furnishing, hauling, applying material, and providing incidentals to complete the work.

Payment will be made under:

Section 413—Bituminous Tack Coat

Item No. 413	Bituminous tack coat	Per gallon (liter)
Item No. 413	Diluted emulsified asphalt tack coat	Per gallon (liter)

413.5.01 Adjustments

General Provisions 101 through 150.

Section 652—Painting Traffic Stripe

652.1 General Description

This work includes furnishing and applying reflectorized traffic line paint according to the Plans and these Specifications. This Item also includes applying words and symbols according to Plan details, Specifications, and the current Manual on Uniform Traffic Control Devices.

652.1.01 Definitions

Painted Stripes: Solid or broken (skip) lines. The location and color are designated on the Plans.

Skip Traffic Stripes: Painted segments between unpainted gaps as specified on the Plans. The location and color are designated on the Plans.

652.1.02 Related References

A. Standard Specifications

Section 656—Removal of Pavement Markings

Section 870—Paint

B. Referenced Documents

QPL 46

AASHTO M 247

652.1.03 Submittals

General Provisions 101 through 150.

652.2 Materials

Ensure that materials for painting traffic stripe, words, and symbols meet the following requirements:

Material	Section
Traffic Line Paint 5A and 5B	<u>870.2.02.A.2</u> and <u>870.2.02.A.3</u>
Glass Beads for Use in Luminous Traffic Lines	AASHTO M 247 Type 1*

*In addition, meet the following requirements for glass beads:

- Maximum quantity of angular particles is less than 1% by weight
- Maximum quantity of particles with milkiness, scoring, or scratching is less than 2% by weight
- Glass beads do not impart any noticeable hue to the paint film
- Glass beads conforming to the following alternate gradation may be used provided that all other requirements of AASHTO M 247 and this Specification are met.

Alternate Gradation	
Sieve Size	Percent Passing
No. 16 (1.190 mm)	99 - 100
No. 20 (0.850 mm)	75 - 95
No. 30 (0.600 mm)	55 - 85
No. 50 (0.300 mm)	10 - 35
No. 100 (0.150 mm)	0 - 5

652.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

Section 652—Painting Traffic Stripe

652.3 Construction Requirements

652.3.01 Personnel

General Provisions 101 through 150.

652.3.02 Equipment

A. Traveling Traffic Stripe Painter

Use a traffic stripe painter that can travel at a predetermined speed both uphill and downhill, applying paint uniformly. Ensure that the painter feeds paint under pressure through nozzles spraying directly onto the pavement.

Use a paint machine equipped with the following:

1. Three adjacent spray nozzles capable of simultaneously applying separate stripes, either solid or skip, in any pattern.
2. Nozzles equipped with the following:
 - Cutoff valves for automatically applying broken or skip lines
 - A mechanical bead dispenser that operates simultaneously with the spray nozzle to uniformly distribute beads at the specified rate
 - Line-guides consisting of metallic shrouds or air blasts
3. Tanks with mechanical agitators
4. Small, portable applicators or other special equipment as needed

B. Hand Painting Equipment

Use brushes, templates, and guides when hand painting.

C. Cleaning Equipment

Use brushes, brooms, scrapers, grinders, high-pressure water jets, or air blasters to remove dirt, dust, grease, oil, and other foreign matter from painting surfaces without damaging the underlying pavement.

652.3.03 Preparation

Locate approved paint manufacturers on [QPL 46](#).

Before starting each day's work, thoroughly clean paint machine tanks, connections, and spray nozzles, using the appropriate solvent.

Thoroughly mix traffic stripe paint in the shipping container before putting it into machine tanks.

Before painting, thoroughly clean pavement surfaces of dust, dirt, grease, oil, and all other foreign matter.

652.3.04 Fabrication

General Provisions 101 through 150.

652.3.05 Construction

A. Alignment

Ensure that the traffic stripe is the specified length, width, and placement. On sections where no previously applied markings are present, ensure accurate stripe location by establishing control points at spaced intervals. The Engineer will approve control points.

B. Application

Apply traffic stripe paint by machine. If areas or markings are not adaptable to machine application, use hand equipment.

1. Application Rate

All work will be subject to application rate checks for both paint and beads.

Apply 5 in (125 mm) wide traffic stripe at the following minimum rates:

- a. Solid Traffic Stripe Paint: At least 25 gal/mile (58.8 L/km)
- b. Skip Traffic Stripe Paint: At least 6.3 gal/mile (14.8 L/km)

NOTE: Change minimum rate proportionately for varying stripe widths.

Section 652—Painting Traffic Stripe

2. Thickness

Maintain a 15 mils (0.38 mm) minimum wet film thickness for all painted areas.

3. Do not apply paint to areas of pavement when:

- The surface is moist or covered with foreign matter.
- Air temperature in the shade is below 40 °F (5 °C)
- Wind causes dust to land on prepared areas or blows paint and beads around during application.

4. Apply a layer of glass beads immediately after laying the paint. Apply beads at a minimum rate of 6 lbs to each gallon (700 grams to each liter) of paint.

C. Protective Measures

Protect newly applied paint as follows:

1. Traffic

Control and protect traffic with warning and directional signs during painting. Set up warning signs before beginning each operation and place signs well ahead of the painting equipment. When necessary, use a pilot car to protect both the traffic and the painting operation.

2. Fresh Paint

Protect the freshly painted stripe using cones or drums. Repair stripe damage or pavement smudges caused by traffic according to Subsection 652.3.06.

D. Appearance and Tolerance of Variance

Continually deviating from stated dimensions is cause for stopping the work and removing the nonconforming stripe. (See Section 656.) Adhere to the following measurements:

1. Width

Do not lay stripe less than the specified width. Do not lay stripe more than 1/2 in (13 mm) over the specified width.

2. Length

Ensure that the 10 ft (3 m) painted skip stripe and the 30 ft (10 m) gap between painted segments vary no more than ± 1 ft (300 mm) each.

3. Alignment

- a. Ensure that the stripe does not deviate from the intended alignment by more than 1 in (25 mm) on tangents or curves of 1 degree or less.
- b. Ensure that the stripe does not deviate by more than 2 in (50 mm) on curves exceeding 1 degree.

652.3.06 Quality Acceptance

Ensure that stripes and segments of stripes are clean-cut and uniform. Markings that do not appear uniform or satisfactory, either during the day or night, or do not meet Specifications, will be corrected at the Contractor's expense. Work will be subject to application rate checks for both paint and beads.

The following will be accepted:

- Sections of painted stripe, words, and symbols that have dried so that paint will not be picked up or marred by vehicle tires
- Sections placed according to the Plans and Specifications

The Contractor will be relieved of responsibility for maintenance on accepted sections.

A. Correction of Alignment

When correcting a deviation that exceeds the permissible tolerance in alignment, do the following:

1. Remove the affected portion of stripe, plus an additional 25 ft (8 m) in each direction.
2. Paint a new stripe according to these Specifications.

Remove the stripe according to Section 656.

Section 652—Painting Traffic Stripe

B. Removal of Excess Paint

Remove misted, dripped, or spattered paint to the Engineer's satisfaction. Do not damage the underlying pavement during removal.

Refer to the applicable portions of Section 656.

652.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

652.4 Measurement

When traffic stripe is paid for by the square yard (meter), the number of square yards (meters) painted is measured and the space between stripes is included in the overall measurement.

Linear measurements are made on the painted surface by an electronic measuring device attached to a vehicle. On curves, chord measurements, not exceeding 100 linear feet (30 linear meters), are used.

Traffic stripe and markings, complete in place, are measured and accepted for payment as follows:

A. Solid Traffic Stripe

Solid traffic stripe is measured by the linear foot (meter), linear mile (kilometer), or square yard (meter). Breaks or omissions in solid lines or stripes at street or road intersections are not measured.

B. Skip Traffic Stripe

Skip traffic stripe is measured by the gross linear foot (meter) or gross linear mile (kilometer). Unpainted spaces between the stripes are included in the overall measurements if the Plan ratio of 1 to 3 remains uninterrupted. Measurement begins and ends on a stripe.

C. Pavement Markings

Markings are words and symbols completed according to Plan dimensions. Markings are measured by the unit.

652.4.01 Limits

General Provisions 101 through 150.

652.5 Payment

Payment will be full compensation for the work under this Section, including the following:

- Cleaning and preparing surfaces
- Furnishing materials, including paints, beads, and thinners
- Applying, curing, and protecting paints
- Protecting traffic, including providing and placing necessary warning signs
- Furnishing tools, machines, and other equipment necessary to complete the Item

Payment will be made under:

Item No. 652	Solid traffic stripe, _____ in (mm), (<u>color</u>)	Per linear mile (kilometer)
Item No. 652	Skip traffic stripe, _____ in (mm), (<u>color</u>)	Per gross linear mile (kilometer)
Item No. 652	Solid traffic stripe, _____ in (mm), (<u>color</u>)	Per linear mile (kilometer)
Item No. 652	Skip traffic stripe, _____ in (mm), (<u>color</u>)	Per gross linear foot (meter)
Item No. 652	Pavement markings, words, and symbols, (<u>color</u>)	Per each
Item No. 652	Traffic stripe, _____ in (mm), (<u>color</u>)	Per square yard (meter)

652.5.01 Adjustments

General Provisions 101 through 150.

Section 653—Thermoplastic Traffic Stripe

653.1 General Description

This work includes furnishing and applying thermoplastic reflectorized pavement marking compound. Ensure that markings conform to Plan details and locations, these Specifications, and the Manual on Uniform Traffic Control Devices.

Thermoplastic traffic stripe consists of solid or broken (skip) lines, words, and symbols according to Plan color, type, and location.

653.1.01 Definitions

Thermoplastic Marking Compound: A compound extruded or mechanically sprayed on the pavement that cools to pavement temperature. When combined with glass spheres it produces a reflectorized pavement marking.

Short Lines: Crosswalks, stop bars, arrows, symbols, and crosshatching. Extrude short lines rather than spraying them on. Unless otherwise specified, spray all other lines.

653.1.02 Related References

A. Standard Specifications

Section 652—Painting Traffic Stripe

B. Referenced Documents

QPL 46

Federal Test Method Standard 141, Method 4252

ASTM D 1155

ASTM D 620

ASTM D 570

ASTM D 256

ASTM D 2240

ASTM E 28

ASTM 121

653.1.03 Submittals

Ensure that the producers of the thermoplastic compound and glass spheres furnish to the Department copies of certified test reports showing results of all tests specified in this Section. Also ensure that producers certify that the materials meet the other requirements of this Section by submitting copies of certification at the time of sampling. Final Acceptance, however, will be based on satisfactory test results from samples obtained by the Department before delivery.

653.2 Materials

A. General Characteristics of Thermoplastic

1. Deterioration

Use thermoplastic material with the following characteristics:

- a. Does not deteriorate upon contact with:
 - Pavement materials
 - Petroleum droppings from traffic
 - Chemicals, such as sodium chloride or calcium chloride, used to prevent formation of ice on roadways or streets
- b. Does not scorch, discolor, or deteriorate if kept at the manufacturer's recommended application temperature, or at least 375 °F (190 °C), for up to 4 hours.
- c. Has a temperature versus viscosity characteristic that remains constant from batch to batch through four re-heatings.

Section 653—Thermoplastic Traffic Stripe

2. Fumes

Use material that in the plastic state does not give off fumes that are toxic or harmful to persons or property.

B. Detailed Characteristics of Thermoplastic

1. Material Composition

Use material binder with the following characteristics:

- A mixture of synthetic resins, with at least one resin that is solid at room temperature, and high boiling point plasticizers
- A total binder content of 18 percent to 35 percent by weight
- A pigmented binder that is well-dispersed and free of dirt, foreign objects, or ingredients that cause bleeding, staining, or discoloration

The binder shall be Type A—alkyd. Ensure that at least 33% of the binder composition or at least 8% by weight of the entire material formulation is a maleic-modified glycerol ester of resin. Ensure that the finished thermoplastic pavement marking material is not adversely altered by contact with oily pavement materials or by contact from oil dropping onto the pavement surface from traffic.

Ensure that the filler has the following characteristics:

- White calcium carbonate or equivalent
- Compressive strength of 5,000 psi (34.5 MPa)

2. Suitability for Markings

Use thermoplastic material that is especially compounded for traffic markings and has the following characteristics:

- Prevents markings from smearing or spreading under normal traffic conditions at temperatures below 120 °F (49 °C)
- Gives a uniform cross section, with pigment evenly dispersed throughout the material
- Has a uniform material density and character throughout its thickness
- Allows the stripe to maintain its original dimensions and placement
- Ensures that the exposed surface is free from tack and is not slippery when wet
- Does not lift from the pavement in freezing weather
- Has cold ductility properties that permit normal movement with the road surface without chipping or cracking

3. Drying Time

When applied at a temperature range of 400 °F to 425 °F (204 °C – 218 °C) and a thickness of 1/8 in. to 3/16 in. (3 mm to 5 mm), the material shall set to bear traffic in a maximum of 2 minutes when the air temperature is 50 °F ± 3 °F (10 °C ± 2 °C) and shall set to bear traffic in a maximum of 10 minutes when the air temperature is 90 °F ± 3 °F (32 °C ± 2 °C).

4. Reflectorization

Ensure that during manufacturing, reflectorizing glass spheres were mixed into the compound to the following specifications:

- At least 16 percent by weight using glass spheres with a minimum refractive index of 1.65
- At least 25 percent by weight using glass spheres with a minimum refractive index of 1.50

C. Physical Requirements of Thermoplastic

1. Color

Confirm the color of thermoplastic as follows:

- a. White thermoplastic material contains at least 8 percent by weight titanium dioxide that meets the requirements of ASTM D 476, Type II, Rutile. The white thermoplastic material shall be pure white and free from dirt or tint.

The material, when compared to the magnesium oxide standard using a standard color spectrophotometer according to ASTM D 4960, shall meet the following:

Scale	Definition	Magnesium Oxide Standard	Sample
Rd	Reflectance	100	75 min.

Section 653—Thermoplastic Traffic Stripe

a	Redness-Greenness	0	-5 to + 5
b	Yellowness-Blueness	0	-10 to + 10

Compare yellow material to match Federal Test Standard Number 595, Color 13538.

2. Color Retention

Use thermoplastic stripe tested for color retention as follows:

- a. Test specimens prepared from samples submitted according to ASTM D 620 by the Department Inspector.
- b. Use an ultraviolet light source as specified in the test procedure, or use a 275 watt sunlamp with a built-in reflector.
- c. Ensure that after 100 hours of exposure to the light source, the test specimens show no color change when compared to an unexposed specimen.

3. Water Absorption

Ensure that materials have no more than 0.5 percent by weight of retained water when tested by ASTM D 570, procedure (a).

4. Softening Point

Ensure that materials have a softening point of at least 175 °F (79 °C) as determined by ASTM E 28.

5. Specific Gravity

Ensure that the specific gravity of the thermoplastic compound at 77 °F (25 °C) is between 1.9 to 2.5.

6. Impact Resistance

Use material with an impact resistance of at least 10 in-lbs at 77 °F (1.13 N·m at 25 °C), tested as follows:

- a. Heat for 4 hours at 400 °F (204 °C).
- b. Cast into bars of 1 in² (625 mm²) cross sectional area, 3 in (75 mm) long.
- c. Place with 1 in (25 mm) extending above the vise in a cantilever beam (Izod type) tester using the 25 in-lbs (2.82 N·m) scale. This instrument is described in ASTM D 256.

7. Indentation Resistance

Measure the hardness by a Shore Durometer, Type A2, as described in ASTM D 2240. Maintain the temperature of the Durometer, 4.4 lb. (2 kg) load and the specimen at 115 °F (45 °C). Apply the Durometer and 4.4 lb. (2 kg) load to the specimen and the reading shall be between 50 to 75 units, after 15 seconds.

8. Low Temperature Stress Resistance

- a. Furnish sample test blocks as follows:
 - 1) Coat the samples using the same method as the planned installation of the compound.
 - 2) Coat the samples with at least 32 in² (206 mm²) of the compound.
- b. Have the samples tested as follows:
 - 1) Immerse a sample in cold water for one hour.
 - 2) Immediately place the sample in a freezer chest or other insulated cold compartment and maintain at a temperature of -20 °F (-29 °C) for 24 hours.
 - 3) After 24 hours, remove the sample and bring it to normal room temperature.

Following the test, confirm that the sample does not crack, flake, or fail to adhere to the substrate.

9. Reheating

Ensure that the compound does not break down, deteriorate, scorch, or discolor if held for 6 hours at the plastic temperature of 425 °F (218 °C); or if reheated up to the plastic temperature 4 times.

10. Abrasion Resistance

Have the material tested for abrasion resistance as follows:

- a. Ensure that the maximum loss of the material does not exceed 0.4 grams when subjected to 200 revolutions on a Taber Abraser at 77 °F (25 °C), using H-22 Calibrade wheels that are weighted to 500 grams.
- b. Keep the wearing surface wet with distilled water throughout the test.

Section 653—Thermoplastic Traffic Stripe

c. Prepare the panel by forming a representative lot of material at a thickness of 0.125 in. (3.18 mm) on a 4 in (100 mm) square steel plate with a thickness of 0.050 ± 0.001 in ($1.27 \text{ mm} \pm 0.03 \text{ mm}$), on which a primer has been previously applied.

11. Yellowness Index

The white thermoplastic material shall not exceed a yellowness index of 0.12 according to AASHTO T 250.

12. Flowability

After heating the thermoplastic material for 240 ± 5 minutes at $425 \text{ }^\circ\text{F} \pm 3 \text{ }^\circ\text{F}$ ($218 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$) and testing the flowability, ensure that the white thermoplastic has a maximum of 21 percent residue according to AASHTO T 250.

13. Flowability-Extended Heating

After heating the thermoplastic material for 8.0 ± 0.5 hours at $425 \text{ }^\circ\text{F} \pm 3 \text{ }^\circ\text{F}$ ($218 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$), while stirring the last 6 hours and testing for flowability, ensure that the thermoplastic has a maximum percent residue of 28 according to AASHTO T 250.

14. Storage Life

The material shall meet the requirements of this specification for 1 year. Ensure that the thermoplastic melts uniformly with no evidence of skins or unmelted particles during the 1-year period.

D. Physical Requirements of Glass Spheres

1. Premixed Glass Spheres

Ensure that the compound has been manufactured with glass spheres in the proportion specified in Subsection 653.2.B.4, "Reflectorization." The glass spheres contained in the material shall meet the following requirements:

- a. Index of Refraction. Determine the index of refraction of the premixed glass spheres by the liquid immersion method at $77 \text{ }^\circ\text{F}$ ($25 \text{ }^\circ\text{C}$).
- b. Roundness. Ensure that the minimum percentages of premixed glass spheres are true spheres according to the following table:

Percent of Premixed Glass Spheres That are True Spheres (when tested according to ASTM D 1155)		
Minimum Index of Refraction	Percent of Overall Beads	Percent of Beads Retained on any Sieve
1.65	At least 75%	At least 70%
1.50	At least 70%	At least 60%

- c. Imperfections. Ensure that no more than 5 percent of the spheres show air inclusions, bubbles, lap lines, chill wrinkles, or other imperfections when viewed through a 60-power microscope in the refractive index liquid.
- d. Foreign Matter. Ensure that the quantity of foreign matter does not exceed 1 percent.
- e. Gradation. Have the beads tested using ASTM: D 1214 to ensure they have the following gradations:

U.S. Sieve Standard Sieve Size	Percent Passing
No. 16 (1.18 mm)	100
No. 30 (600 μm^*)	60 to 90
No. 50 (300 μm)	15 to 40
No. 80 (180 μm)	0 to 10
No. 100 (150 μm)	0 to 5
* μ = micro meter	

- f. Chemical Resistance. Use material manufactured with glass spheres that withstand immersion in water and acids without corroding or etching, and withstand sulfides without darkening or decomposing. Have the chemical resistance tested by placing a 3 g to 5 g sample in each of three glass beakers or porcelain dishes and immersing as follows:

- Cover the first with distilled water.

Section 653—Thermoplastic Traffic Stripe

- Cover the second with a 3N solution of sulfuric acid.
- Cover the third with a solution of 50 percent sodium sulfide, 48 percent distilled water, and 2 percent Aerosol 1B or similar wetting agent.

Ensure that after one hour no darkening, hazing, or other evidence of instability is evident when examined microscopically.

2. Drop-On Glass Spheres

Ensure that these spheres meet the requirements of Subsection 652.2.

E. Requirements of Sealing Primer

Place the particular type of two-part epoxy binder-sealer at the application rate as recommended in writing by the thermoplastic material manufacturer.

653.2.01 Delivery, Storage, and Handling

Use material delivered in 50 lb (22.7 kg) unit cardboard containers or bags strong enough for normal handling during shipment and on-the-job transportation without loss of material.

Ensure that each unit container is clearly marked to indicate the following:

- Color of the material
- Process batch number or similar manufacturer's identification
- Manufacturer's name
- Address of the plant
- Date of manufacture

653.3 Construction Requirements

653.3.01 Personnel

General Provisions 101 through 150.

653.3.02 Equipment

Depending on the marking required, use hand equipment or truck-mounted application units on roadway installations.

A. Spray Application Machine

Ensure that each spray application machine is equipped with the following features:

- Parts continuously mix and agitate the material.
- Truck-mounted units for lane, edge, and center lines can operate at a minimum of 5 mph (8 kph) while installing striping.
- Conveying parts between the main material reservoir and the shaping die or gun prevent accumulation and clogging.
- Parts that contact the material are easily accessible and exposable for cleaning and maintenance.
- Mixing and conveying parts, including the shaping die or gun, maintain the material at the plastic temperature with heat transfer oil or electrical element controlled heat. Do not use an external source of direct heat.
- Parts provide continuously uniform stripe dimensions.
- Applicator cleanly and squarely cuts off stripe ends and applies skip lines. Do not use pans, aprons, or similar appliances that the die overruns.
- Parts produce varying widths of traffic markings.
- Applicator is mobile and maneuverable enough to follow straight lines and make normal curves in a true arc.

B. Automatic Bead Dispenser

Apply glass spheres to the surface of the completed stripe using a dispenser attached to the striping machine to automatically dispense the beads instantaneously upon the installed line. Synchronize the glass sphere dispenser cutoff with the automatic cutoff of the thermoplastic material.

Section 653—Thermoplastic Traffic Stripe

C. Special Kettles

Use special kettles for melting and heating the thermoplastic material. Kettles equipped with automatic thermostatic control devices provide positive temperature control and prevent overheating. Ensure that the applicator and kettles are equipped and arranged according to the requirements of the National Fire Underwriters.

D. Hand Equipment

Use hand equipment for projects with small quantities of lane lines, edge lines, and center lines, or for conditions that require the equipment. Use hand equipment approved by the Engineer.

Ensure that hand equipment can hold 150 lbs (68 kg) of molten material and is maneuverable to install crosswalks, arrows, legends, lane, edge, and center lines.

E. Auxiliary Vehicles

Supply the necessary auxiliary vehicles for the operation.

653.3.03 Preparation

General Provisions 101 through 150.

653.3.04 Fabrication

General Provisions 101 through 150.

653.3.05 Construction

A. General Application

Thoroughly clean pavement areas to be striped. Use hand brooms, rotary brooms, air blasts, scrapers, or other approved methods that leave the pavement surface clean and undamaged. Take care to remove all vegetation and road film from the striping area. All new Portland Cement Concrete pavement surfaces shall be mechanically wire brushed or abrasive cleaned to remove all laitance and curing compound before being striped.

Lay stripe with continuous uniform dimensions.

Apply the type of stripe at each location according to the Plans, using one of the following methods:

- Spray techniques
- Extrusion methods wherein one side of the shaping die is the pavement, and the other three sides are contained by or are part of the suitable equipment to heat and control the flow of material.

1. Temperature

Apply thermoplastic traffic stripe only when the pavement temperature in the shade is above 40 °F (4 °C).

To ensure optimum adhesion, install the thermoplastic material in a melted state at the manufacturer's recommended temperature but not at less than 375 °F (190 °C).

2. Moisture

Do not apply when the surface is moist. When directed by the Engineer, perform a moisture test on the Portland cement concrete pavement surface. Perform the test as follows:

- a. Place approximately 1 yd² (1m²) of roofing felt on the pavement surface.
- b. Pour approximately 1/2 gallon (2 L) of molten thermoplastic onto the roofing felt.
- c. After 2 minutes, lift the roofing felt and inspect to see if moisture is present on the pavement surface or underside of the roofing felt.
- d. If moisture is present, do not proceed with the striping operation until the surface has dried sufficiently to be moisture free.

3. Binder-Sealer

To ensure optimum adhesion, apply a binder-sealer material before installing the thermoplastic in each of the following cases:

- Extruded thermoplastic
- Where directed by the Engineer for sprayed thermoplastic
- Old asphaltic concrete pavements with exposed aggregates

Section 653—Thermoplastic Traffic Stripe

- Portland cement concrete pavements as directed by the Engineer

Ensure that the binder-sealer material forms a continuous film that mechanically adheres to the pavement and dries rapidly. Use a binder-sealer currently in use and recommended by the thermoplastic material manufacturer according to QPL 46.

To ensure optimum adhesion, apply a two-part epoxy binder-sealer on all Portland cement concrete pavements for either sprayed or extruded thermoplastic material.

Apply the epoxy binder-sealer immediately in advance of, but concurrent with, the application of the thermoplastic material. Apply in a continuous film over the pavement surface.

4. Bonding to Old Stripe

The old stripe may be renewed by overlaying with new material. Ensure the new material bonds to the old line without splitting or cracking.

5. Offset from Construction Joints

Off-set longitudinal lines at least 2 in (50 mm) from construction joints of Portland cement concrete pavements.

6. Crosswalks, Stop Bars, and Symbols

Make crosswalks, stop bars, and symbols at least 3/32 in (2.4 mm) thick at the edges and no more than 3/16 in (4.8 mm) thick at the center.

7. Film Thickness

a. Maintain the following minimum average film thicknesses on all open graded asphalt concrete friction courses:

- 0.120 in (3.0 mm)* for lane lines
- 0.090 in (2.3 mm)* for edge lines
- 0.150 in (3.8 mm)* for gore area lines

b. Maintain the following minimum average film thicknesses on all other pavement types:

- 0.090 in (2.3 mm)* for lane lines
- 0.060 in (1.5 mm)* for edge lines
- 0.120 in (3.0 mm)* for gore area lines

(See below for ‘*’ reference.)

Compute the minimums by the amount of material used each day, as follows:

(For 5 in wide stripe)	
* Average Film Thickness (in) =	$[(\text{lbs used}) \div (\text{total linear feet})] \times 0.236$
(For 125 mm wide stripe)	
*Average Film Thickness (mm) =	$[(\text{kg used}) \div (\text{total linear meters})] \times 4.0$
(For 10 in wide stripe)	
* Average Film Thickness (in) =	$[(\text{lbs used}) \div (\text{total linear feet})] \times 0.118$
(For 250 mm wide stripe)	
* Average Film Thickness (mm) =	$[(\text{kg used}) \div (\text{total linear meters})] \times 2.0$

8. Glass Spheres

- Apply glass spheres to installed stripe surface at a minimum rate of 14 lbs of spheres to each 100 square feet ((700 g/m²) of thermoplastic material.
- Apply the glass sphere top-coating with a pressure-type gun specifically designed for applying glass spheres that will embed at least one-half of the sphere’s diameter into the thermoplastic immediately after the material has been applied to the pavement.

B. Removing Existing Stripe

Remove existing stripe according to Section 656.

Remove 100 percent of existing traffic stripe from:

Section 653—Thermoplastic Traffic Stripe

- Portland cement concrete pavement where the new stripe will be placed at the same location as the existing marking
- Pavement where the new stripe will be placed at a different location from the existing markings

C. Tolerance and Appearance

No traffic stripe shall be less than the specified width and shall not exceed the specified width by more than 1/2 in (13mm). The length of the 10 ft (3 m) segment for skip stripe and the 30 ft (9 m) gap between segments may vary plus or minus 1 ft (300 mm). The alignment of the stripe shall not deviate from the intended alignment by more than 1 in (25 mm) on tangents and on curves up to and including 1 degree (radius of 1745 m or greater). On curves exceeding 1 degree (radius less than 1745 m), the alignment of the stripe shall not deviate from the intended alignment by more than 2 in (50 mm).

Stop work when deviation exceeds the above dimensions, and remove the nonconforming stripe.

653.3.06 Quality Acceptance

Segments of the thermoplastic traffic stripe that have been placed according to the Plans and Specifications may be accepted 30 days after the required work is complete in that segment.

If thermoplastic traffic stripe fails to meet Plan details or Specifications or deviates from stated dimensions, correct it at no additional cost to the Department. If removal of pavement markings is necessary, perform it according to Section 656 and place it according to this Specification. No additional payment will be made for removal and replacement of unsatisfactory striping.

653.3.07 Contractor Warranty and Maintenance

After segments are accepted, the Contractor will be relieved of maintenance on those segments.

653.4 Measurement

When stripe will be paid for by the square yard (meter), the actual number of square yards (meters) painted will be measured. The space between the stripes will be included in the overall measurement.

Linear measurements may be made by electronic measuring devices attached to a vehicle.

Thermoplastic traffic stripe, complete in place and accepted, is measured as follows:

A. Solid Traffic Stripe

Stripe is measured by the linear foot (meter), linear mile (kilometer), or square yard (meter). Breaks or omissions in solid lines or stripes at street or road intersections are not measured for payment.

B. Skip Traffic Stripe

Skip stripe is measured by the gross linear mile (kilometer) as specified. The unpainted space between the painted stripes is included in the overall measurement if the Plan ratio of one to three (10 ft [3 m] segment and 30 ft [9 m] gap or other patterns as designated on the Plans) remains uninterrupted. Measurement begins and ends on a stripe.

C. Words and Symbols

Each word or symbol complete according to Plan dimensions is measured by the Unit.

653.4.01 Limits

General Provisions 101 through 150.

653.5 Payment

Payment is full compensation for the Work under this section, including:

- Cleaning and preparing surfaces
- Furnishing all materials
- Applying, curing, and protecting stripe
- Protecting traffic, including providing necessary warning signs
- Furnishing tools, machines, and other equipment necessary to complete the Item

Section 653—Thermoplastic Traffic Stripe

Measurement and payment for removing pavement markings will be according to Section 656 when shown in the Proposal as a payment Item. Otherwise, removal will not be paid for separately, but will be included in the payment for other Work under this section.

Payment will be made under:

Item No. 653	Thermoplastic solid traffic stripe, __ in (mm), (color)	Per linear foot (meter)
Item No. 653	Thermoplastic solid traffic stripe, __ in (mm), (color)	Per linear mile (kilometer)
Item No. 653	Thermoplastic skip traffic stripe, __ in (mm), (color)	Per gross linear foot (meter)
Item No. 653	Thermoplastic skip traffic stripe, __ in (mm), (color)	Per gross linear mile (kilometer)
Item No. 653	Thermoplastic pavement markings, words, and symbols (color), type _____	Per each
Item No. 653	Thermoplastic traffic stripe	Per square yard (meter)

653.5.01 Adjustments

General Provisions 101 through 150.

Section 611—Relaying, Reconstructing, or Adjusting to Grade of Miscellaneous Roadway Structures

611.1 General Description

This work includes relaying, reconstructing, resetting, adjusting to grade, capping minor structures, resetting guard rail, or adjusting other miscellaneous roadway structures as specified in the Proposal or on the Plans.

611.1.01 Definitions

General Provisions 101 through 150.

611.1.02 Related References

A. Standard Specifications

Section 610—Removal of Miscellaneous Roadway Items

Section 641—Guard Rail

Section 668—Miscellaneous Drainage Structures

Section 854—Castings and Forgings

B. Referenced Documents

General Provisions 101 through 150.

611.1.03 Submittals

General Provisions 101 through 150.

611.2 Materials

Most materials for the work in this Specification are salvaged from the removal of existing structures. The Engineer will determine the suitability of the salvaged material for use.

Use other materials to complete the structure, such as mortar, sand-cement grout, sand for sand cushion, bituminous filler, brick, and other materials that meet the requirements of the applicable Specifications for such materials for use in new structures of the same character and type.

611.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

611.3 Construction Requirements

611.3.01 Personnel

General Provisions 101 through 150.

611.3.02 Equipment

General Provisions 101 through 150.

611.3.03 Preparation

General Provisions 101 through 150.

611.3.04 Fabrication

General Provisions 101 through 150.

Section 611—Relaying, Reconstructing, or Adjusting to Grade of Miscellaneous Roadway Structures

611.3.05 Construction

A. Miscellaneous Roadway Items

Follow these procedures to construct miscellaneous roadway items:

1. Remove existing structures to be rebuilt according to Section 610.
2. Clean the material salvaged for use in the rebuilt structure and stockpile it in convenient places. Protect it from damage until it is used.
3. Dispose of the portions of structures not suitable for reuse as provided in Section 610. Replace them with suitable new material.
4. Relay or rebuild the structures according to the Specifications for new structures of the same type.
5. Adjust to the required grade miscellaneous structures specified in the Proposal or on the Plans by raising or lowering the upper portion of the fixture, including sleeve extensions, adjustable manhole rings, gaskets, mastic, mortar, masonry, and other material.
6. Furnish materials such as mortar, sand-cement grout, sand cushion, bituminous filler, brick, castings, and other materials to excavate, trench, prepare earth foundation, backfill, and other work necessary to complete the Item.

B. Capping an Existing Structure

When capping an existing structure requires removing adjacent existing pavement, sidewalk, curb, gutter, or other improvement not otherwise affected by the work, follow these guidelines:

1. Remove the improvements to expose only the portion of the structure to be modified.
2. Replace the removed improvements to the Engineer's satisfaction without additional compensation.
3. Remove enough existing masonry to lower the top elevation to a point not less than the thickness of the cap plus 3 ft (1 m) below subgrade elevation, unless otherwise indicated.
4. Cap the remaining portion of the structure with a fitted reinforced concrete cover constructed to the general details shown on the Plans.

Grates, rings, plates, covers, hoods, or other castings or fittings removed while capping and not re-used become the property of the Department unless otherwise indicated on the Plans.

C. Resetting Guard Rail

When resetting the guard rail is specified in the Proposal:

1. Reset guard rail removed according to Section 610 where the Plan indicates and to the required post spacing.
2. Furnish materials, including additional hardware, offset blocks, and posts.
3. Replace posts that do not conform to the Plans.
4. Follow the applicable provisions of Section 641.

D. Raising Manholes

When raising manholes:

1. Adjustments may be made by using adjustable extension rings that do not require removing the existing manhole frame.
2. Ensure that the extension device locks to the existing frame and permits height and diameter adjustment. The adjustable extension ring to be used shall have the Engineer's prior approval.
3. Choose an extension ring compatible with the existing casting and cover. Ensure that the adjustment range conforms to the finished pavement surface.
 - a. Use an adjustable extension ring made of materials that meet the requirements of Subsection 854.2.01 or are manufactured from ASTM A 36/A 36M steel and approved by the Office of Materials and Research.

Section 611—Relaying, Reconstructing, or Adjusting to Grade of Miscellaneous Roadway Structures

- b. Ensure that the extension ring and cover are machine ground to reduce contact irregularity. Ensure that the grates are rattleproof.
- c. Obtain the Engineer's approval for the type of adjustable extension ring used.

E. Replacing Fences

Replace fences removed under Section 610 in kind, using the removed materials as far as possible. Unless the Plans provide for new fence at the particular location, include new materials required in the Bid Price for resetting fence.

611.3.06 Quality Acceptance

General Provisions 101 through 150.

611.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

611.4 Measurement

Relaying, reconstructing, or adjusting to grade, capping minor structures, resetting guard rail, or adjusting other miscellaneous roadway structures is measured to determine the unit or units of each type completed and accepted.

Manhole tops to be raised or lowered 2 ft (600 mm) or less are considered "Adjust to Grade."

Manhole tops to be raised between 2 ft (600 mm) and 6 ft (1.8 m), or tops to be lowered more than 2 ft (600 mm), are considered "Reconstruct Manhole" and are paid as shown in Subsection 611.5, "Payment."

Remove manholes to be raised more than 6 ft (1.8 m) as clearing and grubbing, and construct a new manhole in its place according to Section 668.

611.4.01 Limits

General Provisions 101 through 150.

611.5 Payment

Relaying, reconstructing, resetting, adjusting to grade, capping minor structures, resetting guard rail, or adjusting other miscellaneous roadway structures will be paid for at the Contract Unit price. Payment is full compensation for relaying, resetting, reconstructing, or adjusting to grade the structures as specified in this Specification.

Excavation and backfill necessary for capping is considered incidental to the Item and is not paid for separately.

Tapping a new pipeline into an existing structure is not considered reconstruction of the existing structure.

Payment will be made under:

Item No. 611	Relay	Per unit shown in Proposal
Item No. 611	Reconstruct	Per unit shown in Proposal
Item No. 611	Reset	Per unit shown in Proposal
Item No. 611	Adjust to grade	Per unit shown in Proposal
Item No. 611	Cap minor structures	Per unit shown in Proposal

611.5.01 Adjustments

General Provisions 101 through 150.

SECTION III – ATTACHMENTS/FORMS

ATTACHMENT A

CONTRACTOR'S LICENSE CERTIFICATIONS

CONTRACTORS'S NAME: _____

CONTRACTOR'S LICENSE NUMBER: _____

UTILITY CONTRATOR'S LICENSE NUMBER: _____

EXPIRATION DATE OF LICENSE: _____

I certify that the above information is true and correct and that the classification noted is applicable.

Signed _____

Printed _____

Date: _____

SECTION III – ATTACHMENTS/FORMS

ATTACHMENT B

INSURANCE REQUIREMENTS

CONTRACTOR INSURANCE REQUIREMENTS

Contractor's Insurance Provisions: During the life of the contract and for such additional time as may be required, the contractor will provide, pay for, and maintain in full force and effect the insurance outlined here for coverage at not less than the prescribed minimum limits of liability, covering the contractor's activities, those of any and all subcontractors, or anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.

Certificate of Insurance: Before starting work, the contractor will give the owner a certificate of insurance completed by a duly authorized representative of their insurer certifying that at least the minimum coverage's required here are in effect and specifying that the liability coverage's are written on an occurrence form and that the coverage's will be cancelled, nonrenewed, or materially changes by endorsement or through issuance of other policy(ies) of insurance without 60 days advance written notice to:

**BALDWIN COUNTY BD OF COMMISSIONERS
121 N WILKINSON ST., STE 314
MILLEDGEVILLE, GA 31061**

Failure of the owner to demand such certificate or other evidence of full compliance with these insurance requirements or failure of the owner to identify a deficiency from evidence provided will not be construed as a waiver of the contractor's obligation to maintain such insurance.

The acceptance of delivery by the owner of any certificate of insurance evidencing the required coverages and limits does not constitute approval or agreement by the owner that the insurance requirements have been met or that the insurance policies shown in the certificates of insurance are in compliance with the requirements.

If the contractor fails to maintain the insurance as set forth here, the owner will have the right, but not the obligation, to purchase said insurance at the contractor's expense. Alternately, the contractor's failure to maintain the required insurance may result in termination of this contract at owner's option.

Insurance Primary: All coverage required of the contractor will be primary over any insurance or self-insurance program carried by the owner.

No Reduction or Limit of Obligation: By requiring insurance, the owner does not represent that coverage and limits will necessarily be adequate to protect the contractor. Insurance affected or procured by the contractor will not be reduce or limit the contractor's contractual obligation to indemnify and defend the owner for claims or suits which result from or are connected with the performance of this contract.

Duration of Coverage: All required coverage will be maintained without interruption during the entire term of this contract and following final acceptance of the property by the owner.

Subcontractors's Insurance: The contractor will cause each sub-contractor employed by contractor to purchase and maintain insurance of the types specified below. When requested by the owner, the contractor will furnish copies of certificates of insurance evidencing coverage for each subcontractor.

Insurance Limits and Coverage: To the extent applicable, the amounts and types of insurance will conform to the minimum terms, conditions, and coverages of Insurance Service Office (ISO) policies, forms, and endorsements.

If the contractor has any self-insured retentions, or deductible under any of the following minimum required coverages, the contractor must identify on the certificate of insurance the nature and amount of such self-insured retentions or deductible and provide satisfactory evidence of financial responsibility for such obligations. All self-insured retentions or deductible will be the contractor's sole responsibility.

Commercial General Liability: The contractor will maintain commercial general liability insurance covering all operations by or on behalf of the contractor on an occurrence basis against claims for personal injury (including bodily injury and death) and property damage (including loss of use). Such insurance will have these minimum limits and coverages:

Minimum Limits: \$1,000,000 each occurrence
 \$2,000,000 general aggregate with dedicated limits per project site
 \$2,000,000 products and completed operations aggregate

Worker's Compensation: The contractor will maintain workers' compensation and employer's liability insurance.

Minimum limits: Workers' compensation – statutory limit
 Employer's liability:
 \$1,000,000 bodily injury for each accident
 \$1,000,000 bodily injury by disease for each employee
 \$1,000,000 bodily injury disease aggregate

SECTION III – ATTACHMENTS/FORMS

ATTACHMENT C

CORPORATE CERTIFICATE

Corporations

I, _____, certify that I am the _____ (title) of the Corporation named as Contractor in the forgoing Bid; that _____, who signed said Bid on behalf of the Contractor 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 _____.

(Printed Name)

(Signature)

(Corporate Seal must be affixed above)

Partnership or other entities:

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

This _____ day of _____, 20 _____.

(Printed Name)

(Signature)

(NOTE: It is necessary to attach to the bid submittal, a letter on company letterhead and dated on or after the date of this certificate stating 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).

SECTION III – ATTACHMENTS/FORMS

ATTACHMENT D

BID AUTHORIZATION AFFIDAVIT

STATE OF GEORGIA
COUNTY OF BALDWIN

BEFORE ME, the undersigned authority a Notary Public in and for the State of _____, on this day personally appeared _____ who, after having first been duly sworn, upon oath did depose and say; that the forgoing bid submitted by _____ hereafter called "Bidder" is duly authorized agent of said company and that the person signing said bid has been duly authorized to execute the same. Bidder affirms that they are duly authorized to execute this Agreement, that this company, corporation, firm, partnership or individual has not prepared this bid in collusion with any other Bidder, and that the contents of this bid as to prices, terms or conditions of said bid have not been communicated by the undersigned nor by any employee or agent to any other person engaged in this type of business prior to the official opening of this bid.

The undersigned certifies that the bid prices contained in this bid have been carefully checked and are submitted as correct and final and if bid is accepted, agrees to furnish the articles and/or services listed and offered in this document at the prices and terms stated, subject to the conditions and specifications of this Request for Bid.

Bidder Information:

(Company)

(Signature)

(Address)

(Printed Name)

(City, State, Zip)

(Title)

SWORN TO AND SUBSCRIBED BEFORE ME THIS _____ day of _____ 2012

Notary Public in and for the State of _____

(Seal)

(FAILURE TO SIGN THIS SECTION SHALL DISQUALIFY YOUR RESPONSE)

SECTION III – ATTACHMENTS/FORMS

ATTACHMENT E

NON-CONFLICT OF INTEREST

By submitting an offer in response to this solicitation, the Firm represents that in the preparation and submission of this proposal, said Firm did not either directly or indirectly, enter into any combination or arrangement with any person, Proposer, Corporation or enter into any agreement, participate in any collusion, or otherwise take any action in the restraint of free, competitive bidding in violation of the Sherman Act (15 U.S.C. Section I or Section 59.1-9.1 through 59.1-9.17 or Sections 59.1 – 68.6 through 59.68.8). Collusion and fraud in proposal preparation shall be reported to the State of Georgia Attorney General and the United States Justice Department.

_____ (Officer of Firm) certifies that to the best of our knowledge, no circumstances exist which shall cause a conflict of interest in performing services for Baldwin County, and that no company or person other than bona fide employees working solely for our firm has been employed or retained to solicit or secure an agreement resulting from this request for proposal.

Signature: _____

Type Name: _____

Title: _____

Firm Address: _____

SECTION III – ATTACHMENTS/FORMS

ATTACHMENT F

BIDDER'S QUALIFICATION SHEET

Page 1 of 2

COMPANY NAME: _____

NAME _____ TITLE _____

ADDRESS _____ CITY _____ ST _____ ZIP _____

PHONE _____ FAX _____ E-MAIL _____

1. Number of years experience Bidder has providing products/services as per specifications. _____
2. Name and address of government agencies/companies in the past five (5) years that you have provided products/services as per specifications. Indicate date/year of contracts and person to contact for reference. Bidder must complete all information below.
3. Number of employees specifically hired by Bidder to provide product(s) and/or services as specified in this document. Supervisory _____ Laborers _____ Other _____
4. Please list four (4) references of current customers who can verify the quality of service your firm provides. Each bidder is required that 2 of the (4) references must be on prior **Asphalt Overlay Projects**. The County prefers customers of similar size and scope of work to this bid.

REFERENCE ONE

Government/Company Name _____

Address _____

Contact Person and Title _____

Phone _____ Fax _____

Contract Period _____ Scope of Work _____

REFERENCE TWO

Government/Company Name _____

Address _____

Contact Person and Title _____

Phone _____ Fax _____

Contract Period _____ Scope of Work _____

SECTION III – ATTACHMENTS/FORMS
ATTACHMENT F

BIDDER'S QUALIFICATION SHEET
Page 2 of 2

REFERENCE THREE

Government/Company Name _____

Address _____

Contact Person and Title _____

Phone _____ Fax _____

Contract Period _____ Scope of Work _____

REFERENCE FOUR

Government/Company Name _____

Address _____

Contact Person and Title _____

Phone _____ Fax _____

Contract Period _____ Scope of Work _____

Information of Person who prepared this form:

Printed Name

Title

Signature

Date

SECTION III – ATTACHMENTS/FORMS

ATTACHMENT H

**GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT
AFFIDAVIT AND AGREEMENT**

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of the Baldwin County Board of Commissioners has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization/ E-Verify User Identification Number

Date of Authorization

Name of Contractor

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, ____, 2015 in _____ (city), _____ (state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____, 2015.

NOTARY PUBLIC

My Commission Expires:

SECTION III – ATTACHMENTS/FORMS

ATTACHMENT I

SAVE AFFIDAVIT

REQUIRED FOR LOCAL GOVERNMENT THAT MUST BE EXECUTED BY ANYONE ENTERING INTO A CONTRACT WITH A LOCAL GOVERNMENT

STATE OF GEORGIA
BALDWIN COUNTY

By executing this affidavit under oath, as an applicant for a Baldwin County, Georgia contract as referenced in O.C.G.A. § 50-36-1 and the August 1, 2010, "Report of the Attorney General on Public Benefits," I am stating the following with respect to my ability to enter into a contract with Baldwin County:

[Name of natural person applying on behalf of individual, business, corporation, partnership or other private entity]

As a representative of: _____
(Name of the business, corporation, partnership, or other private entity)

- 1) _____ I am a United States citizen
- OR**
- 2) _____ I am a legal permanent resident 18 years of age or older or I am an otherwise qualified alien or non-immigrant under the Federal Immigration and Nationality Act 18 years of age or older and lawfully present in the United States.*

In making the above representation under oath, I understand that any person who knowingly and willfully makes a false, fictitious, or fraudulent statement or representation in an affidavit shall be guilty of a violation of O.C.G.A. § 16-10-20.

This ____ day of _____, 20 ____.

Signature of Applicant: _____

Printed Name: _____

SUBSCRIBED AND SWORN
BEFORE ME ON THIS THE
____ DAY OF _____, 20__

Notary Public
My Commission Expires:

***Note:** O.C.G.A. § 50-36-1(e)(2) requires that aliens under the federal Immigration and Nationality Act, Title 8 U.S.C., as amended, provide their alien registration number. Because legal permanent residents are included in the federal definition of "alien," legal permanent residents must also provide their alien registration number. Qualified aliens that do not have an alien registration number may supply another identifying number below:

Alien Registration number for non-citizens: * _____

SECTION III – ATTACHMENTS/FORMS

ATTACHMENT J

PROPOSAL

Baldwin County Georgia
2015 Public Works Resurfacing Projects

Place: Baldwin County Courthouse, Milledgeville, Georgia

Date: April 20, 2015

Time: 11:00 am

Proposal of _____ (hereinafter called “Bidder”) a corporation organized and existing under the laws of the State of _____ a partnership, or an individual doing business as _____.

To: Baldwin County Board of Commissioners
Baldwin County Courthouse, Suite 314
Milledgeville, Georgia (hereinafter called “Owners”)

Ladies and/or Gentlemen,

The bidder, in compliance with your invitation for Bids and having examined the plans and specifications with related contract documents and the site of the work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of the materials and labor, hereby proposes to furnish all labor, materials, and supplies and to construct the project in accordance with the contract documents, with in the time set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the contract documents of which this proposal is a part.

The bidder agrees to commence work on or before _____, 2015 and to fully complete the work by _____, 2015 as stipulated in the specifications.

The bidder further agrees to pay as liquidated damages, the sum of \$250.00 for each consecutive calendar day beyond the completion date.

Bidder assumes the responsibility to download all addenda published on the Baldwin County website prior to submittal of his Bid, and accepts that failure to acknowledge receipt of each and every addendum individually as grounds for finding the Bid non-responsive. Bidder hereby acknowledges receipt of the following addenda:

The unit and lump sum prices shown shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

Bidder agrees that this bid shall be good and may not be withdrawn for a period of 90 days after the scheduled closing time for receiving bids.

The bidder understands that the Owners reserve the right to reject any or all bids and to waive any informalities in the bidding.

The bidder understands the quantities mentioned are approximate only and are subject to either increase or decrease and hereby propose to perform any increased or decreased quantities of work or extra work on the basis provided in the specifications.

The bidder understands that the Owner reserves the right to reduce this project by as much as 25% through the reduction of line item quantities. This option may be exercised to bring the project cost within the Owner's budget.

The bidder hereby agrees to commence work under this contract with adequate forces and equipment on the date specified and to fully complete the work by the date specified.

The bidder further agrees that, in case of failure on his part to execute the contract agreement and bonds within fifteen (15) days after notification of award of the contract, the Bid Bond or Certified Check accompanying his bond and the monies payable thereon, shall be paid into the funds of the owner as liquidated damages for such failure, otherwise, the check or bid bond accompanying this proposal shall be returned to the Bidder according to the general provisions.

Attached hereto is a bid bond or certified check _____ for the sum of _____ Dollars (\$ _____) according to the conditions of the general provisions.

Bidder

Seal (if bid is by Corp)

By

Title

SECTION III – ATTACHMENTS/FORMS

ATTACHMENT K

CONTRACT

BID NUMBER FY15-4210-01	COMMODITY PUBLIC WK RESURFACING PROJECTS	BID CLOSING DATE/TIME April 20, 2015 11:00 A.M.
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ISSUE DATE	DEPARTMENT PUBLIC WORKS	CONTRACT ADMINISTRATOR Department Designee
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It is understood and agreed that this bid constitutes an offer, which when accepted in writing by the Baldwin County Board of Commissioners, Baldwin County, Georgia, and subject to the terms and conditions of such acceptance, will constitute a valid and binding contract between the undersigned and Baldwin County, Georgia.

It is understood and agreed that we have read the County's specifications shown or referenced herein and this bid is made in accordance with the provisions of such specifications. By our written signature on this bid, we guarantee and certify that all items included in this bid meet or exceed any and all such County specifications. We further agree, if awarded a contract, to deliver goods and services which meet or exceed the specifications.

NAME AND ADDRESS OF FIRM:	Telephone No.:	_____
_____	Fax No.:	_____
_____	E-mail:	_____
_____	Federal Identification No.:	_____
_____	State of Georgia Reg. No.	_____
		(If applicable)

CHECK ONE: INDIVIDUAL _____ PARTNERSHIP _____ CORPORATION _____

State in which incorporated _____

(Vendor) Legally Authorized Signature _____	Date _____	(Impress Corporate Seal Here)
_____ Print Name and Title		

ACCEPTANCE AGREEMENT – Baldwin County, Georgia (This is not an order)

CONTRACT NUMBER: _____ DATE: _____

Accepted as to Items (s) Indicated: _____

_____ Chairman, Board of Commissioners	_____ Date
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