

# INVITATION TO BID



**Roadway Surfacing, Reconstruction, and Preservation  
Public Works/Road and Bridge**

**BID NO.: 20-062**

**Due Date: Wednesday, September 2, 2020  
Due Time: 3:00 P.M.**

A **MANDATORY PRE-BID CONFERENCE** will be held through **Zoom** (<https://us04web.zoom.us/j/73523699157?pwd=M041OFBCV0ErZHIZYIY3c0RTTnZOQT09> Meeting ID 517 737 9373 Password: 4BtGiw), on **Wednesday, August 12, 2020 at 10:00 A.M.**

**ST. LUCIE COUNTY BOARD OF COUNTY COMMISSIONERS**

**PURCHASING DEPARTMENT  
2300 Virginia Avenue  
Fort Pierce, FL. 34982-5652  
Ph (772) 462-1700  
Fax (772) 462-1704**

**BOARD OF COUNTY COMMISSIONERS ST. LUCIE COUNTY,  
FLORIDA**

**CALL FOR BIDS**

Sealed bids will be received at the Purchasing Department, 2300 Virginia Avenue, Fort Pierce, FL 34982, until **3:00 P.M.** local time on **Wednesday, September 2, 2020**, for the following:

**BID NUMBER: 20-062**  
**Roadway Surfacing, Reconstruction, and Preservation**  
**Public Works/ Road & Bridge Division**

Bid documents may be obtained via download from [www.DemandStar.com](http://www.DemandStar.com) or by contacting the Office of the Purchasing Department at 2300 Virginia Avenue, Fort Pierce, Florida, 34982, (772) 462-1700.

Bids may be mailed or hand delivered to the St Lucie County Purchasing Department, 2300 Virginia Avenue, 2<sup>nd</sup> Floor Rm. 228, Fort Pierce, FL 34982. Any bids received after the above stated time shall be returned to the bidder unopened.

A **MANDATORY PRE-BID CONFERENCE** will be held through Zoom (<https://us04web.zoom.us/j/73523699157?pwd=M041OFBCV0ErZHIZYIY3c0RTTnZOQT09> Meeting ID 517 737 9373 Password: 4BtGiw), on **Wednesday, August 12, 2020 at 10:00 A.M.**

The Board of County Commissioners reserves the right to waive any informalities or minor irregularities; reject any and all bids/proposals which are incomplete, conditional, obscure, or which contain additions not allowed for; accept or reject any proposal in whole or in part with or without cause; and accept the proposal which best serves the County.

For Bids, RFP's, Bid Results and other information visit the St. Lucie County Purchasing Web Site at <http://www.co.st-lucie.fl.us>

St. Lucie County is an Equal Opportunity/Affirmative Action Employer.

Board of County Commissioners  
St. Lucie County, Florida  
By: Desiree Cimino, Purchasing Manager

Publish: Sunday, August 2, 2020

**ST. LUCIE COUNTY  
BOARD OF COUNTY COMMISSIONERS  
BIDDER'S CHECK LIST**

**BIDS MAY NOT BE CONSIDERED** if the following documents and/or attachments are not completely filled out and submitted with your bid.

**Before sending in your bid, please make sure you have completed all of the following:**

- \_\_\_ Enclose three (3) COMPLETE sets of the Bid package (one marked original and two marked copy). Include all handwritten sections, plus three (3) sets of any descriptive literature, brochures and/or supporting data. Please make and retain a separate copy of this bid package for your records.
  
- \_\_\_ Bid Form, must be complete and have a manual signature (original signature) preferably signed in blue ink.
  
- \_\_\_ Include proof of proper licensing as stated in bid documents.
  
- \_\_\_ Return bid in an envelope with the bid number and name of bid printed on the front of the envelope. If Fed-Ex or UPS, be sure to include the bid number on the Air Bill. The bid must be in a separate sealed envelope inside the carrier's envelope.
  
- \_\_\_ Acknowledge in the bid any and all addendums issued and manually sign each addendum sheet and submit it with your bid. Please note: Although we will attempt to notify you of the addendum, it is the sole responsibility of the bidder to ensure it is received.
  
- \_\_\_ Attachments A, B, C and D, must be completed and returned with the bid.
  
- \_\_\_ Provide three (3) references on the Reference Form provided in Attachment "B", preferably Governmental. Include name, address and phone number for similar work done in past year.
  
- \_\_\_ Erasures or other descriptive literature, brochures and/or data must be initialed by the person signing the bid.
  
- \_\_\_ If you desire a copy of the bid tabulation, include a **self-addressed, stamped envelope** for bid tabulation to be mailed back to you.

**PLEASE INITIAL AND RETURN WITH BID FORM**

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## INSTRUCTIONS TO BIDDERS

**1. SUBMISSION OF BIDS:**

All bids shall be submitted in a sealed envelope. The **BID NUMBER, TITLE, AND OPENING DATE AND TIME** shall be clearly displayed on the sealed envelope next to the Bidder's name and address. The delivery of said bid to the Purchasing Department prior to the specified opening date and time is solely and strictly the responsibility of the bidder. Any bid received in the Purchasing Department after the specified date and time will not be accepted.

- 2.** If the bid is to be delivered by Fed-X, UPS or other such carrier be sure to include the bid number on the Air Bill. The bid must be in a separate sealed envelope inside the carrier's envelope. If a carrier's package is opened and the bid is not in a separate envelope, it will be resealed and reopened at the designated date and time.

**3. EXECUTION OF BID:**

Bid must include a manual signature of an authorized representative in the space provided. All bids must be completed in pen and ink or type written. No erasures are permitted. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it. The person signing the bid must initial corrections. Any illegible entries, pencil bids or corrections not initialed will not be tabulated.

**4. BID OPENING:**

Bid opening shall be public on the date and time specified in the Bid package. Bid must be submitted on forms provided by the County. No other forms will be accepted. Telephone, telegraph, and faxed bids will not be considered. No bid may be modified after opening. No bid may be withdrawn after opening for a period of sixty (60) days unless otherwise specified.

**5. BID TABULATIONS:**

Any bidder wishing to receive a copy of the bid tabulations is required to enclose a stamped, self-addressed envelope with bid response.

**6. NO BID:**

If not submitting a bid, please respond by returning one copy of the form, marking it "NO-BID", and kindly explain the reason. A "No Bid" may be faxed to 772-462-1704.

**7. CLARIFICATION/CORRECTION OF BID ENTRY:**

The County of St. Lucie reserves the right to allow for the clarification of questionable entries and for the correction of typographical and mathematical errors.

**8. INTERPRETATION:**

Any questions concerning conditions and specification shall be directed to the Purchasing Department. All questions shall be in writing and received by the Purchasing Department at least **10** working days prior to the bid opening. Those interpretations, which may affect the eventual outcome of this bid, will be furnished, as a written addendum, to all prospective bidders. No interpretation shall be considered binding unless provided in writing by St. Lucie County.

**All questions to be faxed or e-mailed to:** Desiree Cimino at 772-462-1704 or [ciminod@stlucieco.org](mailto:ciminod@stlucieco.org) .

**9. EEO STATEMENT:**

St. Lucie County believes in equal opportunity practices, which conform to both the spirit and letter of all laws against discrimination and is committed to non-discrimination because of race, creed, color, sex, age, or national origin.

**10. PRICING:**

Firm prices shall be bid and include FOB DESTINATION, all packing, handling, shipping charges and delivery to any point within the County of St. Lucie to a secure area of inside delivery. Pricing shall also include delivery when required. The obligations of St. Lucie County under this award are subject to the availability of funds lawfully appropriated for the purpose by the State of Florida and/or the Board of County Commissioners.

**11. ADDITIONAL TERMS & CONDITIONS:**

The County of St. Lucie reserves the right to reject bids containing any additional terms and conditions not specifically requested in the original conditions and specifications. Any exceptions that the bidder has to the terms and conditions of the bid documents and/or the terms and conditions of the draft contract shall submit the exceptions in writing to the Purchasing Division ten (10) days prior to the bid opening. These exceptions shall be either approved or disapproved in the form of an addendum and will be made available to all bidders prior to bid opening. Any exceptions not received ten (10) days prior to the bid opening will not be considered.

**12. PROTEST OF SPECIFICATIONS OR REQUIREMENTS:**

Any protest concerning bid or request for proposal specifications or requirements must be made within seventy-two (72) hours from the time the aggrieved person knew or should have known of the facts giving rise to the protest, in any case, at least twenty-four (24) hours prior to the bid opening. Failure to timely protest bid specifications or requirements constitutes a waiver of the ability to protest specifications or requirements.

**13. DISCOUNTS:**

All discounts EXCEPT THOSE FOR PROMPT PAYMENT shall be considered in determining the lowest net cost for bid evaluation purposes.

**14. TAXES:**

The County of St. Lucie is exempt from all sales, use, and like taxes.

**15. MEETS SPECIFICATIONS:**

All equipment and accessories furnished under these specifications shall be the latest model and shall be of good quality, workmanship and material. Delivery specifications shall be strictly adhered to.

**16. SILENCE OF SPECIFICATIONS:**

The apparent silence of the specifications and any supplemental specifications as to any details or the omission from same of any detailed description concerning any point shall be regarded as meaning that only the best commercial practices are to prevail and that only materials of first quality and correct type, size, and design are to be used. All workmanship is to be first quality. All interpretations of this specification shall be made upon the basis of this statement.

**17. LEGAL REQUIREMENTS:**

Federal, State, County, and local laws, ordinances, rules and regulations that in any manner affect the items covered herein apply. Lack of knowledge by the bidder will in no way be a cause for relief from responsibility.

**18. ASSIGNMENT:**

Any purchase order issued pursuant to this bid and the monies which may become due hereunder are not assignable except with the prior written approval of the Purchasing Director.

**19. LIABILITY:**

The bidder shall indemnify and hold harmless the County of St. Lucie, its officers, agents, and employees against any claims by third parties arising out of the acts or omissions of the supplier.

**20. PATENTS AND ROYALTIES:**

The bidder, without exception, shall indemnify and hold harmless the County of St. Lucie, its officers, agents and its employees from liability of any nature of kind, including cost and expenses for or on account of any copyrighted, patented, or un patented invention, process, or article manufactured or used in the performance of the contract, including its use by the County of St. Lucie. If the bidder uses any design, device, or materials covered by letters, patent, copyright, it is mutually agreed and understood without exception that the bid price shall include all royalties or cost arising from the use of such design, device, or materials in any involved in the work.

**21. SAFETY WARRANTY:**

The selling dealer, distributor, supplier, and manufacturer shall be responsible for having complied with all Federal, State and local standards, regulations, and laws concerning the equipment specified and the use thereof, applicable and effective on the date of manufacture including safety and environmental standards as apply to both private industry and governmental agencies.

**22. WARRANTY:**

The bidder agrees that, unless otherwise specified, the supplies and/or services furnished under this bid shall be covered by the most favorable commercial warranty the bidder gives to any customer for comparable quantities of such supplies and/or services and that the rights and remedies provided herein are in addition to and do not limit any rights afforded to the County of St. Lucie by any other provision of this bid.

**23. PAYMENT:**

Payment will be made by the County according to the contract.

**24. DISPUTES:**

In case of any doubt or difference of opinion as to the items furnished hereunder, the decision of the County shall be final and binding on both parties.

**25. DEFINITIONS:**

ST. LUCIE COUNTY - The term ST. LUCIE COUNTY herein refers to the County of St. Lucie, Florida and its duly authorized representatives.

BIDDER - The term BIDDER used herein refers to the dealer/manufacturer/business organization submitting a bid to the County in response to this invitation.

VENDOR - The term VENDOR used herein refers to any dealer/manufacturer/business organization that will be awarded a contract pursuant to the terms conditions and quotations of the bid.

**26. CONFLICT OF INTEREST:**

The award hereunder is subject to provisions of State Statutes and County Ordinance. All bidders must disclose with their bid the name of any officer, director or agent who is also an employee of St.

Lucie County. Further, all bidders must disclose the name of any County employee who owns directly or indirectly any interest in the bidder's firm or any of its branches.

**27. ADDENDA TO THE BID:**

St. Lucie County reserves the right to amend this bid or request additional clarifying information from any or all bidders prior to determination of award. Any changes to this bid will be made available for all prospective bidders to receive. **Although we will attempt to notify you of all addenda, it is the sole responsibility of the bidder to ensure it is received.**

**28. AWARD AND CONTRACT:**

The successful bidder, will, within fifteen (15) calendar days after written notice of award, enter into a written contract with the Board of County Commissioners in accordance with the accepted bid. Contract term will be two-years with three one-year renewals. The County reserves the right to award multiple contracts if deemed to be in the best interest of the County.

**29. PUBLIC ENTITY CRIMES:**

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to the County, may not submit a bid on a contract to the County for the construction or repair of a public building or public work, may not submit bids on leases of real property to the County, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with the County, and may not transact business with the County in excess of \$10,000.00 for a period of 36 months from the date of being placed on the convicted vendor list.

The County will not intentionally award publicly-funded contracts to any contractor who knowingly employs unauthorized alien workers, constituting a violation of the employment provisions contained in 8 U.S.C. Section 1324a(e) [Section 274A(e) of the Immigration and Nationality Act ("INA")]. The County shall consider the employment by any contractor of unauthorized aliens a violation of Section 274A(e) of the INA. Such violation by the Recipient of the employment provisions contained in Section 274A(e) of the INA shall be grounds for unilateral cancellation of this Agreement by the County.

**30. NOTICE TO SELLER TO DELIVER:**

No delivery shall become due or be acceptable without a written order or shipping instruction by the County unless otherwise provided in the Contract. Such order will contain the quantity, time of delivery and other pertinent data. However, on items urgently required the Seller may be given telephone notice to be confirmed by an order in writing.

**31. MODIFICATIONS:**

All changes to purchase orders shall be by issuance of a change order. Any modifications or changes to any contract entered into as a result of this bid must be by written amendment with the same formality and of equal dignity to the initiation of any such change.

**32. OCCUPATIONAL LICENSE:**

No person shall engage in or manage any Business Profession or Occupation in St. Lucie County for which an occupation license tax is required unless a County License shall have been procured from the Tax Collector for St. Lucie County.

**33. PURCHASING AGREEMENTS WITH OTHER GOVERNMENTAL AGENCIES:**



This bid may be expanded to include other governmental agencies. Each political entity will be responsible for execution of its own requirements with the awarded vendor.

**34. BOND AND INSURANCE REQUIREMENTS:**

Bonds must be issued by a Bonding Company with a Best Insurance Guide's rating of "A-" or better and must be licensed or authorized to do business in the State of Florida. Certificates of insurance, Public Construction Bonds and/or Maintenance Bonds must be received by the applicable County office prior to actual commencement of the project. All certificates of insurance shall list the county as Additional Insured and reference the specific project. Please note that where applicable the following bond and insurance requirements supersede those set forth in the sample contract.

**BONDS**

- A. **No**                    **5% Bid Security**
- B. **Yes**                    **\$5,000.00 Performance Bond**  
**(Cash or Certified Cashier's Check due from awarded vendor)\*\***

**\*\*Contractor's Cash Performance Bond:**

The Contractor's Cash Performance Bond will be held by St. Lucie County for the entire term of the contract. Should the Contractor fail to honor his obligations and the term and conditions set forth in the contract, contractor thereby will forfeit the entire performance bond. Additionally, if the Contractor is declared to be in default by St. Lucie County, the contractor will thereby forfeit the entire performance bond.

**INSURANCE**

- A. **Yes**                    **Worker's Compensation**
  - \$1,000,000 by accident - each accident
  - \$1,000,000 by disease - each employee
  - \$1,000,000 by disease - policy limit
- B. **Yes**                    **Commercial General Liability**
  - \$1,000,000 per occurrence
  - \$2,000,000 per job aggregate
- C. **Yes**                    **Commercial Auto Liability**
  - Combined Single Limit, Bodily Injury/Property Damage
  - \$1,000,000**
- D. **No**                    **Builder's Risk** (all risks for the total construction cost of the project)
- E. **No**                    **Professional Liability** \$1,000,000 aggregate
- F. **No**                    **Other** \_\_\_\_\_

35. The County of St. Lucie reserves the right to reject any or all bids, to waive informalities, and to accept all or any part of any bid as may be deemed to be in the best interest of the county.

36. LOCAL PREFERENCE:

In accordance with the St. Lucie County Local Preference Ordinance No. 09-005, a preference will be given to bidders who have a fixed office or distribution point located in and having a street address within St. Lucie, Indian River or Martin County for at least one year immediately prior to the issuance of the request for competitive bids or request for proposals by the County. The fixed office or distribution point must be staffed. Post office boxes are not verifiable and shall not be used for the purpose of establishing a physical address and who hold a valid Local Business Tax Receipt (Occupational License) issued by the County that authorizes the bidder to provide the goods and services to be purchased.

Preference in purchase of commodities and services by means of competitive bid. Under any such applicable solicitation, bidders/proposers desiring to receive local preference will be invited and required to affirmatively state and provide documentation as set forth in the solicitation in support of their status as a local business. Any bidder who fails to submit sufficient documentation with their bid offer shall not be granted local preference consideration for the purposes of that specific contract award. Except where federal or state law, or any other funding source, mandates to the contrary, St. Lucie County and its agencies and instrumentalities, will give preference to local businesses in the following manner:

Competitive bid (local price match option). Each formal competitive bid solicitation (i.e. sealed bids) shall clearly identify how the price order of the bids received will be evaluated and determined. When a qualified and responsive, non-local business submits the lowest bid, and the bid submitted by one or more qualified and responsive local businesses is within five percent of the price submitted by the non-local business, then the local business with the apparent lowest bid offer (i.e. the lowest local bidder) shall have the opportunity to submit an offer to match the price(s) offered by the overall lowest, qualified and responsive non-local bidder. In such instances, staff shall first verify if the lowest non-local bidder and the lowest local bidder are in fact qualified and responsive bidders. Next, the Purchasing Division shall determine if the lowest local bidder meets the requirements of 287.07, Florida Statutes. If the lowest local bidder meets the requirements of 287.07, Florida Statutes, the Purchasing Division shall invite the lowest local bidder in writing to submit a matching offer to the Purchasing Division, which shall be submitted in writing to the Purchasing Division within five business days thereafter. If the lowest local bidder submits a written offer that does not match the lowest bid from the non-local bidder tendered previously, the next lowest, fully qualified local bidder will be given the opportunity to match if they are within five percent. This cycle shall be repeated until there are no remaining local bidders within five percent, and then award shall be made to the non-local bidder. If the lowest local bidder does not respond, declines or is unable to match the lowest non-local bid price(s), then award will be made to the lowest overall qualified and responsive bidder. If the lowest local bidder does not meet the requirement of Section 287.07, Florida Statutes, and the lowest non-local bidder does, the lowest local bidder will be disqualified and the next lowest bidder will be considered if they are within five percent, award will be made to the bidder that meets the requirements of the referenced state law. In the event a local bidder is awarded a contract pursuant to this section, all requests for change orders increasing the cost of the project must be approved by the Board of County Commissioners.



**Certification Statement  
Local Vendor Preference**

I certify that my company meets all of the following qualifications to be eligible for the local vendor Preference:

- (1) That my company has a fixed office or distribution point located in and having a street address Within St. Lucie, Indian River or Martin County for at least one year prior to the issuance of the Request for competitive bids or request for proposals by St. Lucie County; and
- (2) That my company holds any business license required by the St. Lucie County for at least one year.
- (3) That my company is principal offeror who is single offeror; a business which is the prime contractor And not a subcontractor; or a partner or joint venturer submitting an offer in conjunction with other businesses.
- (4) Attached is a copy of my St. Lucie, Indian River or Martin County Occupational License.

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Business License Number: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Owner's Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

Notary Public for the State of \_\_\_\_\_ My Commission Expires \_\_\_\_\_

Notary Public Signature \_\_\_\_\_ Printed Name: \_\_\_\_\_

**VENDOR DO NOT COMPLETE**

To be verified with the Occupational Licensing Department and completed by an authorized Representative from St. Lucie County Purchasing Division:

Vendor Certified by: \_\_\_\_\_ Date: \_\_\_\_\_  
*(Authorized Signature)*

**To be approved as a local bidder and receive bid preference on an eligible local project, this certification and a copy of your local business license must be submitted with your bonafide Bid/RFP package.**

**BID No. 20-062**

**Roadway Surfacing, Reconstruction, and Preservation**

**1.0 SCOPE**

The Specifications consist of preparation and surfacing various County roads and final cleanup, associated appurtenances, and other related work.

The County will offer a two (2) year contract with three (3) one-year renewal options.

**PRICING**

The successful bidder shall furnish and apply product at the unit price indicated on the bid unit price form for the applicable distance to any location within St. Lucie County.

**PLANS**

There are no separate plans for this project. Sketches may accompany each individual project that may result from this bid.

**2.0 BID UNIT PRICE SCHEDULE**

All items in Group A must be bid in order to be considered responsive. Group B and Group C may be awarded to one or more contractors based on the best interest of the County.

<b>Group A - General (Required)</b>			
Item	Description	Unit	Unit Price
<b>Mobilization</b>			
101-1A	Work Order Total \$0.00 - \$50,000	LS	
101-1B	Work Order Total \$50,001 - \$100,000	LS	
101-1C	Work Order Total \$100,001 - \$500,000	LS	
101-1D	Work Order Total Over \$500,000	LS	
<b>Maintenance of Traffic</b>			
102-1A	Standard FDOT 600 Series MOT for Lane Closure	DA	
<b>Miscellaneous</b>			
104-13-1	Silt Fence Type III	LF	
110-7-1A	Mailbox (Remove and Replace)	EA	
339-1	Miscellaneous Asphalt	TN	
570-1	Performance Turf	SY	
577-70A	Shoulder Rework	SY	
918-331	Bituminous Patching Material	CF	
<b>ADA Standards</b>			
520-1-11	Concrete Curb & Gutter, Variable Height, Type F	LF	
522-2	Concrete Sidewalk & Driveways, 6"	SY	
527-2	Detectable Warnings	SF	
<b>Painted Pavement Markings</b>			
710-11-121	Standard, White, Solid 6"	LF	

710-11-122	Standard, White, Solid 8"	LF	
710-11-123	Standard, White, Solid 12"	LF	
710-11-124	Standard, White, Solid 18"	LF	
710-11-125	Standard, White, Solid 24"	LF	
Item	Description	Unit	Unit Price
710-11-131	Standard, White Skip 6"	LF	
710-11-141	Standard, White, Dotted/Guideline 6-10 Gap, 6"	LF	
710-11-16	Standard, White, Message	EA	
710-11-17	Standard, White, Arrows	EA	
710-11-18	Standard, White, Yield Line	LF	
710-11-221	Standard, Yellow, Solid 6"	LF	
710-11-222	Standard, Yellow, Solid 8"	LF	
710-11-223	Standard, Yellow, Solid 12"	LF	
710-11-224	Standard, Yellow, Solid 18"	LF	
710-11-225	Standard, Yellow, Solid 24"	LF	
710-11-231	Standard, Yellow, Skip 6"	LF	
710-11-241	Standard, Yellow, Dotted/Guideline 6-10 Gap, 6"	LF	

<b>Group B – Resurfacing/ Reconstruction</b>			
Item	Description	Unit	Unit Price
<b>Milling 0 to 2,500 Square Yards</b>			
327-70-1A	1" Average Depth	SY	
327-70-5A	2" Average Depth	SY	
327-70-4A	Variable Depths over 2"	SY	
<b>Milling 2,501 to 10,000 Square Yards</b>			
327-70-1B	1" Average Depth	SY	
327-70-5B	2" Average Depth	SY	
327-70-4B	Variable Depths over 2"	SY	
<b>Milling 10,001 to 20,000 Square Yards</b>			
327-70-1C	1" Average Depth	SY	
327-70-5C	2" Average Depth	SY	
327-70-4C	Variable Depths over 2"	SY	
<b>Milling over 20,001 Square Yards</b>			
327-70-1D	1" Average Depth	SY	
327-70-5D	2" Average Depth	SY	
327-70-4D	Variable Depths over 2"	SY	
<b>Asphalt Types from 0 to 2,500 Square Yards</b>			
334-1-131A	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	
334-1-132A	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1"	SY	
334-1-133A	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134A	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Asphalt Types from 2,501 to 10,000 Square Yards</b>			

334-1-131B	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	
334-1-132B	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1"	SY	
334-1-133B	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134B	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Asphalt Types from 10,001 to 20,000 Square Yards</b>			
334-1-131C	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	
334-1-132C	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1"	SY	
334-1-133C	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134C	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Asphalt Types over 20,001 Square Yards</b>			
334-1-131D	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	
334-1-132D	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1"	SY	
334-1-133D	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134D	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Full Depth Reclamation (FDR and Cold-in-Place (CIP) Recycling</b>			
120-1A	Excavation for Widening or Unsuitable Material	CY	
905-324-3	Cement - Cement Treatment	TN	
905-324-4	Asphaltic Emulsion - Emulsion Treated Base	GAL	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling from 0 to 2,500 Square Yards</b>			
905-324-1A	Pulverization (FDR)	SY	
905-324-2A	Recycling Bituminous Paving (CIP)	SY	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling from 2,501 to 10,000 Square Yards</b>			
905-324-1B	Pulverization (FDR)	SY	
905-324-2B	Recycling Bituminous Paving (CIP)	SY	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling 10,001 to 25,000 Square Yards</b>			
905-324-1C	Pulverization (FDR)	SY	
905-324-2C	Recycling Bituminous Paving (CIP)	SY	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling over 25,001 Square Yards</b>			
905-324-1D	Pulverization (FDR)	SY	
905-324-2D	Recycling Bituminous Paving (CIP)	SY	

<b>Group C - Preservation/ Restoration</b>			
Item	Description	Unit	Unit Price
<b>Pavement Preservation</b>			
335-3A	Reclamite or Equivalent Pavement Rejuvenation	SY	
335-4A	Fog Seal	SY	
350-99A	Crack Sealing	GAL	
<b>Micro-Surfacing</b>			
917-335-1A	Single Application 0 to 15,000 Square Yards	SY	
917-335-1B	Single Application over 15,001 Square Yards	SY	
917-335-1C	Double Application 0 to 15,000 Square Yards	SY	

Item	Description	Unit	Unit Price
917-335-1D	Double Application over 15,001 Square Yards	SY	
917-335-1E	Rut Filling	TN	
	<b>Chip Seal</b>		
917-335-2A	Single Application 0 to 15,000 Square Yards	SY	
917-335-2B	Single Application over 15,001 Square Yards	SY	
917-335-2C	Double Application 0 to 15,000 Square Yards	SY	
917-335-2D	Double Application over 15,001 Square Yards	SY	
917-335-2E	Variable Depths over 2" 0 to 15,000 Square Yards	SY	
917-335-2F	Variable Depths over 2" over 15,001 Square Yards	SY	

**BID UNIT PRICE SCHEDULE**

All bid items shall include all costs for furnishing to the owner all materials, equipment and supplies, permits and for all costs incurred in providing all work shown on the **Roadway Surfacing, Reconstruction, and Preservation** project outlined in the contract specifications for the construction.

NOTE: This bid is on a unit price basis. The total estimated amount is for bid comparison purposes only. The contractor should field verify the actual site conditions prior to time of bidding and before submitting the bid proposal. The contractor should read the special conditions and the requirements for insurance before submitting a bid proposal. The contractor should verify the quantities to be included in the construction contract. The contractor shall furnish St. Lucie County with a \$5,000.00 Cash Performance Bond. The Cash Performance Bond shall continue in effect for one duration of the contract as guarantee against construction defects. Density testing shall be at the expense of St. Lucie County, except for failing tests, which shall be charged to the contractor.

Date \_\_\_\_\_

Bidder \_\_\_\_\_  
*(Company Name)*

By \_\_\_\_\_  
*(Signature)*

By \_\_\_\_\_  
*(Printed Name)*

Title \_\_\_\_\_

Mailing Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Office Number \_\_\_\_\_

### 3.0 SPECIFICATIONS

#### **BID ITEMS:**

The governing specifications for this project are the most current revision of the State of Florida Department of Transportation Standard Specifications for Road and Bridge Construction, the FDOT Roadway and Traffic Design Standards, and the 2010 ADA (Americans with Disabilities Act) Standards for Accessible Design.

The following information is in addition to the specifications previously referenced.

#### **101-1A-D Mobilization/Demobilization:**

The work specified in this section consists of the preparatory work and operations in mobilizing for beginning work on the project, including, but not limited to, those operations necessary for the movement of personnel, equipment, supplies and incidentals to the project site, and for the establishment of temporary offices, buildings, safety equipment and first aid supplies, sanitary and other facilities, as required by these Specifications, the special provisions, and State and local laws and regulations. The CONTRACTOR will be responsible for providing the OWNER with a detailed and narrated preconstruction video (with an index identifying stationing) of the site prior to the start of construction. All costs for bonds, permits and any required insurance, and any other pre-construction expense necessary for the start of the work, as well the cost of the removal of the above items, shall be also be included in this Section. This item also includes any costs related to obtaining an NPDES permit if necessary.

At the pre-construction meeting, the CONTRACTOR shall submit a tentative work schedule as well as a list of subcontractors and emergency contact people and phone numbers.

**The project superintendent shall provide the ENGINEER with a cellular phone number for 24-hour access at the preconstruction meeting. It will be incumbent upon the CONTRACTOR to answer all calls, or respond to any missed call within thirty (30) minutes.**

The basis of payment for **Mobilization/Demobilization** shall be paid as per LUMP SUM.

101-1A Work Order Total \$0 - \$50,000  
101-1B Work Order Total \$50,001 - \$100,000  
101-1C Work Order Total \$100,001 - \$500,000  
101-1D Work Order Total Over \$500,000

#### **102-1A Maintenance of Traffic:**

The bid price for this item shall include, but not be limited to, the requirements of Section 102 Maintenance of Traffic of the Standard Specifications. The maintenance of traffic for this project shall be in accordance with the applicable FDOT index numbers (600 Series) and these documents: The Manual on Uniform Traffic Control Devices for Streets and Highways, U.S. Department of Transportation, and FHWA. These documents shall be followed in the design,



application, installation, maintenance and removal. It shall include, but not be limited to all traffic control devices, warning devices, barriers, temporary reflective markers, temporary pavement markings, dust control, and all other items necessary to protect the public and workers from hazards within the project limits. Maintenance of Traffic items needed in addition to lane closures will be a pass-through charge and not subject to markup by the contractor.

At the Pre-Construction Meeting, the CONTRACTOR shall submit a detailed Maintenance of Traffic plan depicting the necessary traffic control devices for the specified detour route. This plan shall include the approval of any state or city agency owning or maintaining the roads to be utilized as a detour route. The CONTRACTOR shall provide access to driveways at all times.

- Any road closure requests must be APPROVED by the St. Lucie County Engineer a minimum of 2 weeks prior to implementation.
- The CONTRACTOR shall provide access to driveways at all times.
- The CONTRACTOR shall allow access for trash and postal services.
- The CONTRACTOR shall allow access for all emergency vehicles and school buses.

The basis of payment for **Maintenance of Traffic** shall be paid as per DAY.

**110-7-1A Mailboxes:**

When removal and reinstallation of mailboxes is required to facilitate the work, permit each owner to remove the existing mailbox. Reinstall the mailboxes in accordance with the Standard Plans. The quantity to be paid for will be the number of mailboxes acceptably removed and reinstalled.

The basis of payment for **Mailboxes** shall be paid as per EACH.

**120-1A Excavation for Widening or Unsuitable Material:**

Excavate and construct embankments as required for the roadway, ditches, channel changes and borrow material. Use suitable excavated material or authorized borrow to prepare subgrades and foundations. Construct embankments in accordance with Standard Plans, Index 120-001. Compact and dress excavated areas and embankments.

Meet the requirements of Section 110 for excavation of material for clearing and grubbing and Section 125 for excavation and backfilling of structures and pipe.

The basis of payment for **Excavation for Widening or Unsuitable Materials** shall be paid as per CUBIC YARD.

**305-1 Crack Sealing**

Clean and seal joints and cracks in asphalt concrete roadway surfaces using the Cut and Seal method or the Crack Fill method.

Each Bidder shall include in their bid the material that the Bidder proposes to utilize for this application.

The basis of payment for **Crack Seal** shall be paid as per GALLON.

**327-70-1A-D Milling of Existing Asphalt Pavement, 1” Average Depth:**

Remove existing asphalt concrete pavement by milling to improve the rideability and cross slope of the finished pavement, to lower the finished grade adjacent to existing curb before resurfacing, or to completely remove existing pavement.

Milled material will be delivered to St. Lucie County Road & Bridge Division. St. Lucie County Road & Bridge Division will specify a location for the contractor to deliver milled material.

The basis of payment for **Milling Existing Asphalt Pavement, 1” Average Depth** shall be paid as per SQUARE YARD.

- 327-70-1A Milling 0 to 2,500 Square Yards
- 327-70-1B Milling 2,501 to 10,000 Square Yards
- 327-70-1C Milling 10,001 to 20,000 Square Yards
- 327-70-1D Milling over 20,001 Square Yards

**327-70-4A-D Milling of Existing Asphalt Pavement, Variable Depths over 2”:**

Remove existing asphalt concrete pavement by milling to improve the rideability and cross slope of the finished pavement, to lower the finished grade adjacent to existing curb before resurfacing, or to completely remove existing pavement.

Milled material is to be delivered to St. Lucie County Road & Bridge Division.

The basis of payment for **Milling Existing Asphalt Pavement, 1” Average Depth** shall be paid as per SQUARE YARD.

- 327-70-4A Milling 0 to 2,500 Square Yards
- 327-70-4B Milling 2,501 to 10,000 Square Yards
- 327-70-4C Milling 10,001 to 20,000 Square Yards
- 327-70-4D Milling over 20,001 Square Yards

**327-70-5A-D Milling of Existing Asphalt Pavement, 2” Average Depth:**

Remove existing asphalt concrete pavement by milling to improve the rideability and cross slope of the finished pavement, to lower the finished grade adjacent to existing curb before resurfacing, or to completely remove existing pavement.

Milled material is to be delivered to St. Lucie County Road & Bridge Division.

The basis of payment for **Milling Existing Asphalt Pavement, 2” Average Depth** shall be paid as per SQUARE YARD.

- 327-70-2A Milling 0 to 2,500 Square Yards
- 327-70-2B Milling 2,501 to 10,000 Square Yards
- 327-70-2C Milling 10,001 to 20,000 Square Yards
- 327-70-2D Milling over 20,001 Square Yards

**334-1-131A-D Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1”:**

Construct a Superpave Asphalt Concrete pavement with the type of mixture specified in the Contract Documents, or when offered as alternates, as selected. Superpave mixes are identified as Type SP-9.5, Type SP-12.5 or Type SP-19.0.

Obtain Superpave Asphalt Concrete from a plant that is currently on the Department’s Production Facility Listing. Producers seeking inclusion on the list shall meet the requirements of Section 105. Producers must meet the requirements of Section 320 for plant and equipment and the general construction requirements of Section 330.

The basis of payment for **Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1”** shall be paid as per SQUARE YARD.

334-1-131A Asphalt 0 to 2,500 Square Yards

334-1-131B Asphalt 2,501 to 10,000 Square Yards

334-1-131C Asphalt 10,001 to 20,000 Square Yards

334-1-131D Asphalt over 20,001 Square Yards

**334-1-132A-D Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1”:**

Construct a Superpave Asphalt Concrete pavement with the type of mixture specified in the Contract Documents, or when offered as alternates, as selected. Superpave mixes are identified as Type SP-9.5, Type SP-12.5 or Type SP-19.0.

Obtain Superpave Asphalt Concrete from a plant that is currently on the Department’s Production Facility Listing. Producers seeking inclusion on the list shall meet the requirements of Section 105. Producers must meet the requirements of Section 320 for plant and equipment and the general construction requirements of Section 330.

The basis of payment for **Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1”** shall be paid as per SQUARE YARD.

334-1-132A Asphalt 0 to 2,500 Square Yards

334-1-132B Asphalt 2,501 to 10,000 Square Yards

334-1-132C Asphalt 10,001 to 20,000 Square Yards

334-1-132D Asphalt over 20,001 Square Yards

**334-1-133A-D Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2”:**

Construct a Superpave Asphalt Concrete pavement with the type of mixture specified in the Contract Documents, or when offered as alternates, as selected. Superpave mixes are identified as Type SP-9.5, Type SP-12.5 or Type SP-19.0.

Obtain Superpave Asphalt Concrete from a plant that is currently on the Department’s Production Facility Listing. Producers seeking inclusion on the list shall meet the requirements of Section 105. Producers must meet the requirements of Section 320 for plant and equipment and the general construction requirements of Section 330.

The basis of payment for **Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2”** shall be paid as per SQUARE YARD.

- 334-1-133A Asphalt 0 to 2,500 Square Yards
- 334-1-133B Asphalt 2,501 to 10,000 Square Yards
- 334-1-133C Asphalt 10,001 to 20,000 Square Yards
- 334-1-133D Asphalt over 20,001 Square Yards

**334-1-134A-D Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1”:**

Construct a Superpave Asphalt Concrete pavement with the type of mixture specified in the Contract Documents, or when offered as alternates, as selected. Superpave mixes are identified as Type SP-9.5, Type SP-12.5 or Type SP-19.0.

Obtain Superpave Asphalt Concrete from a plant that is currently on the Department’s Production Facility Listing. Producers seeking inclusion on the list shall meet the requirements of Section 105. Producers must meet the requirements of Section 320 for plant and equipment and the general construction requirements of Section 330.

The basis of payment for **Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1”** shall be paid as per SQUARE YARD.

- 334-1-134A Asphalt 0 to 2,500 Square Yards
- 334-1-134B Asphalt 2,501 to 10,000 Square Yards
- 334-1-134C Asphalt 10,001 to 20,000 Square Yards
- 334-1-134D Asphalt over 20,001 Square Yards

**335-3A Asphalt Rejuvenation:**

The work specified in this section shall consist of furnishing all labor, material, and equipment necessary to perform all operations for the application of an asphalt rejuvenating agent to asphaltic concrete surface courses.

The rejuvenation of surface courses shall be accomplished by spray application of a maltene based cationic rejuvenating agent composed of petroleum oils and resins emulsified with water. All work shall be in accordance with the specifications, the applicable drawings, and subject to the terms and conditions of this contract.

Each Bidder shall include in their bid the asphalt rejuvenating agent that the Bidder proposes to utilize for this application.

The basis of payment for **Asphalt Rejuvenation** shall be paid as per SQUARE YARD.

**335-4A Fog Seal:**

The work consists of applying a bituminous fog seal to an existing pavement surface or to a newly constructed chip seal surface.

Each Bidder shall include in their bid the Fog Seal that the Bidder proposes to utilize for this application.

The basis of payment for **Fog Seal** shall be paid as per SQUARE YARD.

**570-1A-B Performance Turf:**

Establish a growing, healthy turf over all disturbed areas. Maintain performance turf areas until final acceptance of all Contract work in accordance with Section 5-11 and the establishment requirements of 570-4 have been met.

The basis of payment for Performance Turf shall be paid as per SQUARE YARD.

**905-324-1A-C Full Depth Reclamation (FDR):**

This work shall consist of the preparation of a stabilized base course composed of a mixture of the existing bituminous concrete pavement, existing base course material, emulsified asphalt, Portland cement and other additives per the mix design. The manufacturing of the stabilized base course shall be accomplished by in-place pulverizing and blending of the existing pavement and base materials, and the introduction of asphalt emulsion, cement, and additives if called for in the Special Conditions or design mix formula. The process which results in a stabilized base course shall be accomplished in accordance with these specifications and conform to the lines and grades established by the engineer.

Existing asphalt pavement shall be pulverized by a method that does not damage the material below the plan depth as shown on the appropriate roadway section or as specified by the design as approved by the County. Any additional Geotechnical services requested by the County will be a pass-through charge and not subject to markup by the contractor.

The basis of payment for **Full Depth Reclamation** shall be paid as per SQUARE YARD.

905-324-1A 0 to 2,500 Square Yards

905-324-1B 2,501 to 10,000 Square Yards

905-324-1C 10,001 to 20,000 Square Yards

905-324-1D over 20,001 Square Yards

**905-324-2A-C Cold-In-Place Recycled Pavement (CIP):**

The work specified in this Technical Provision consists of the in-place construction of a Cold Recycled Bituminous Base Course, using either reclaimed asphalt pavement (RAP) material and/or reclaimed aggregate material (RAM), combined with virgin aggregates and/or bituminous material. It is the intent of this contract to recycle 100% of the existing asphalt pavement and a predetermined portion of the base, as necessary to ensure that the completed recycled base course will be of a consistent material and thickness throughout, including, but not limited to, all existing asphalt pavement and base adjacent to all concrete curbing, storm sewer inlets, manholes, sanitary sewer manholes, and all utility valve boxes. The existing asphalt pavement and base in the above-described locations must be included in the recycling process in order to construct a bituminous base course with a uniform thickness throughout 100% of the proposed area. The intent of this contract is to utilize the specified process which is clearly defined within this specification. Therefore, Full Depth Reclamation or any variation of Full Depth Reclamation will not be accepted. Any additional Geotechnical services requested by the County will be a pass-through charge and not subject to markup by the contractor.

The basis of payment for **Cold-In-Place Recycled Pavement** shall be paid as per SQUARE YARD.

905-324-2A 0 to 2,500 Square Yards

905-324-2B 2,501 to 10,000 Square Yards

905-324-2C 10,000 to 25,000 Square Yards

905-324-2C over 25,001 Square Yards

**905-324-3 Cement – Cement Treatment:**

When a blend of asphalt emulsion and Portland cement is specified the Portland cement shall be type I or II and conform to the latest standard requirements of ASTM C150 and AASHTO M85. When cement is added with the emulsion no more than 2.5% shall be used on the project, unless approved by the Engineer.

The basis of payment for **Cement – Cement Treatment** shall be paid as per TON.

**905-324-4 Asphaltic Emulsion – Emulsion Treated Base:**

When the mix design calls for stabilization with asphalt emulsion, utilize CSS-1h or CMS-2h, meeting the requirements of AASHTO M 208-01 (2009) and approved by the State Materials Office prior to use..

The basis of payment for **Asphaltic Emulsion – Emulsion Treated Base** shall be paid as per GALLON.

**917-335-1A-E Micro-Surfacing:**

Construct a micro surfacing pavement with a mixture of polymer-modified emulsified asphalt, mineral aggregate, mineral filler, water, and other additives, properly proportioned, mixed and spread on a paved surface.

The mix shall, after curing and initial traffic consolidation, resist compaction throughout the entire design tolerance range of asphalt binder content and thickness to be encountered. The end product shall maintain a skid-resistant surface throughout the service life of the micro surfacing.

The mix shall be a quick-traffic system that will be able to accept straight rolling traffic one hour after application.

The basis of payment for **Micro-Surfacing** shall be paid as per SQUARE YARDS.

917-335-1A Single Application, 0 to 15,000 Square Yards

917-335-1B Single Application over 15,001 Square Yards

917-335-1C Double Application, 0 to 15,000 Square Yards

917-335-1D Double Application over 15,001 Square Yards

**917-335-1E Rut Filling:**

Fill ruts with a mixture of polymer-modified emulsified asphalt, mineral aggregate, mineral filler, water, and other additives, properly proportioned, and mixed.

The mix shall be capable of being spread in variable thickness cross-sections (wedged, ruts, scratch courses and surfaces) which, after curing and initial traffic

consolidation, resists compaction throughout the entire design tolerance range of asphalt binder content and variable thickness to be encountered. The end product shall maintain a skid-resistant surface in variable thick sections throughout the service life of the micro surfacing.

The mix shall be a quick-traffic system that will be able to accept straight rolling traffic one hour after application.

The basis of payment for **Rut Filling** shall be paid as per TON.

#### **920-335-1A-F Chip Seal**

The work specified in this section consists of furnishing and applying a single, double or triple application of bituminous surface treatment on a paved roadway or on a prepared road base, compacted to the lines, grades, and thickness established by the County and in substantial conformance with the limits established by the owner.

Chip Seal is a surface treatment option that combines a layer of polymer modified liquid asphalt emulsion placed on a prepared base with a layer of aggregate spread and compacted while the asphalt is still liquid.

The basis of payment for Chip Seal shall be paid as per SQUARE YARDS.

- 920-335-1A Single Application, 0 to 15,000 Square Yards
- 920-335-1B Single Application, over 15,001 Square Yards
- 920-335-1C Double Application, 0 to 15,000 Square Yards
- 920-335-1D Double Application, over 15,001 to Square Yards
- 920-335-1E Variable Depths over 2", 0 to 15,000 Square Yards
- 920-335-1F Variable Depths over 2", over 15,001 Square Yards

## **4.0 SUPPLEMENTAL CONDITIONS**

### **WORK SCHEDULES AND OVERTIME**

The Contractor shall attend a Pre-Construction meeting. Two (2) weeks prior to scheduling a Pre-Construction meeting, the Contractor shall submit, for approval, a work schedule listing the order of the streets and estimated duration of work to be completed on each street, along with maintenance of traffic plans for each street demonstrating how he intends to progress with construction within the contract limits.

No work shall be done between the hours of 3:30 P.M. and 7:00 A.M., nor on Saturday, Sunday, or legal holidays observed by St. Lucie County, in any case without the written approval or permission of the Project Manager. The normal work shift for County Inspectors shall begin at 7:00 A.M. and end at 3:30 P.M. Monday through Friday. Any work performed before or after the normal work shift, or on Saturday, Sunday, or legal holidays shall be considered overtime and shall be paid for by the Contractor. If permission is obtained from the County's Project Manager to work between 3:30 P.M. and 7:00 A.M., the Contractor shall bear all expenses for inspection. Such overtime inspection expenses will be recovered by deductions from periodic partial payments.

The Contractor will be issued a formal Notice to Proceed at or shortly after the Pre-Construction Meeting. The Contractor shall proceed with work at the specified job location

within 10 calendar days of receipt of the written Notice to Proceed and Purchase Order. After the initial notification, the Contractor shall provide service in accordance with the approved work schedule. After commencing work, the work shall continue without any interruptions until completion.

The Contractor must give the Project Manager a minimum of twenty-four (24) hours written notice of any paving operation, listing the date, time, and road location the Contractor will begin a surfacing operation. Should the Contractor fail to give such notice, and a County Representative not be present at the site during the paving operation, **NO** payment will be made for the material placed until and unless the Contractor can produce proof, to the Project Manager's satisfaction, of the amount of material claimed to have been placed. Any such claim shall be made, in writing, within fourteen (14) calendar days of the placement of the material. Any such claim made after fourteen (14) calendar days will not be allowed and no payment will be made for the disputed material under the claim.

**SCHEDULING OF WORK** – The Contractor shall supply a work schedule to be approved by the Project Manager. The County shall review and approve the schedule submitted and reserves the right to demand reasonable changes or adjustments or to reject the entire proposed schedule. Surfacing projects that do not start within 7 calendar days of the agreed upon scheduled date shall be assessed liquidated damages of \$700.00, and thereafter \$100.00, per calendar day in addition to any liquidated damages incurred for not completing the surfacing project on time.

The Contractor shall make every effort to stay on schedule and shall complete all routine work during the scheduled calendar week and within approved scheduled time. Failure to complete the surfacing project within the approved scheduled days shall result in liquidated damages being applied to the surfacing project invoice of \$100.00 per calendar day. Time extensions may be granted for extenuating circumstances, at the sole discretion of the County. A rain day, upon request, shall be granted for each day rain exceeds 1" and an additional day for each additional 1" of rain. Rainfall will be determined by the nearest South Florida Water Management District gauges at [www.sfwmd.gov/weather-radar/rainfall-historical/daily](http://www.sfwmd.gov/weather-radar/rainfall-historical/daily).

The Project Manager will determine if work not done on schedule constitutes a deficiency.

#### **CONSTRUCTION SITE SIGNAGE**

The Contractor shall comply with the requirements of the Manual on Traffic Control Devices, U.S. Department of Transportation, and Federal Highway Administration. These requirements include, but not limited to, advanced and construction zone signage, flagging operations and methods, lane closures, etc. In addition the Contractor shall maintain an "UNEVEN PAVEMENT", at each approach to the resurfacing area. This sign(s) shall remain in place at all times until to final wearing surface is complete and the temporary traffic stripe is placed. It shall be the responsibility of the Contractor to insure all necessary and required signs are in place prior to starting the operations, maintained during the operations, and removed at the completion of the operations.

#### **TRAFFIC FLOW**

The Contractor shall maintain a clear, well defined method of traffic control at all times while performing the work, and shall be consistent with current requirements as



established in FDOT standard indexes 600-651. The Contractor will not be allowed to block pedestrian walkways, park benches, or impede the flow vehicular traffic in any manner.

All Chip Seal and Asphalt operations and general safety of the work area shall be the responsibility of the Contractor. Securing the work area each day shall include ensuring a maximum pavement drop-off of 1 inch at the end of pavement laid and the absence of dangerous or loose material posing a hazard to pedestrian or vehicular traffic.

### **CONTRACTOR RESPONSIBILITIES**

The Contractor certifies, by submission of his bid, that the Contractor will perform the services agreed upon in a timely and professional manner in accordance with currently accepted professional standards.

All construction shall be in compliance with the Florida Department of Transportation Standard Specifications for Road and Bridge Construction, Latest Edition, and any supplements thereto and NCHRP Synthesis 342 Chip Seal Best Practices.

### **MANHOLES AND VALVE BOXES**

Manholes, and valve boxes shall be covered with an approved material during the operation and shall be removed immediately after the street has been chip sealed and fog sealed. The Contractor is responsible for locating all exposed manholes and valve boxes prior to chip sealing.

### **WEATHER LIMITATIONS**

The Chip Seal shall not be applied when the pavement is moist, threat of rain showers, or other environmental factors which could affect the performance of the Chip Seal construction.

### **UNSATISFACTORY WORK**

The Contractor shall correct unsatisfactory work within twenty-four (24) hours of notification by the County.

### **PROTECTION OF PROPERTY**

At all times, the Contractor shall guard from damage or loss to property of the County, and shall replace or repair any loss or damage unless such damage is caused by the County or other contractors. The County may withhold payment, or make such deductions as it might deem necessary, to insure reimbursement for loss or damage to property through negligence of the Contractor or the Contractor's agents.

### **DAMAGE TO COUNTY PROPERTY**

Care is to be taken at all times to prevent damage to facilities or structures on site, both public and private, including but not limited to, signage, lighting, benches, private and public fencing, sidewalks, curbing, culverts, inlet and outlet structures. Any existing damage is to be reported immediately to the County. Damage attributed to the Contractor or their agents due to wrongful or negligent acts will be repaired and deducted from payment due to the Contractor.

### **REGULATIONS**

The Contractor shall conform to all Federal, State and County regulations during the performance of the agreement. Any fines levied due to inadequacies or failure to comply with any and all requirements shall be the sole responsibility of the Contractor. Any person found not in conformance with any laws, statutes, rules or regulations will not be allowed on the job site. Continued violations by a Contractor shall constitute cause for immediate termination of the agreement.

#### **CONTRACTOR EXPERIENCE**

The Contractor shall have a minimum of three years' experience in the placement of Bituminous Asphaltic materials.

#### **PROJECT MANAGER**

The Contractor shall keep during the term of this Contract a competent Project Manager and any necessary assistants, all of which shall be satisfactory to the Owner's Project Manager. The Contractor, as soon as practicable after the award of the Contract, but prior to the issuance of the Notice-to-Proceed, shall furnish in writing to the Owner's Project Manager the name and qualifications of the Project Manager who will be in charge of the project, along with the Project Manager's contact information. The Owner's Project Manager may reply within fourteen (14) days to the Contractor in writing stating whether he/she has objection to the proposed Project Manager or requires additional time for review. The failure of the Owner's Project Manager to make objection to the Contractor's Project Manager within the fourteen days (14) of receipt shall constitute an acceptance of such Project Manager.

The parties shall direct all matters arising in connection with the performance of this Contract, other than invoices and notices, to the attention of the Project Managers for attempted resolution or action. Except as otherwise provided for in the Contract, the Project Managers shall be responsible for overall resolution or action. The Project Managers shall be responsible for overall coordination and oversight relating to the performance of this Contract. The Project Manager, however, has no authority to approve or execute Change Order Work.

The Contractor shall not use a Project Manager to whom the Owner has made reasonable and timely objection. The Contractor shall not change their Project Manager without the Owner's consent.

The Owner's Project Manager shall be able to reach the Contractor's Project Manager at their cell phone/direct connect number at all hours (24/7). The Contractor shall give sufficient superintendence to the work using his best skill and attention.

At any time, the Owner's Project Manager, with or without cause, may request that the Contractor replace any individual with an individual acceptable to the Owner.

**ATTACHMENT A**  
**EQUIPMENT LIST**

Bidders must include a list of all equipment either owned or leased by the bidder that will be utilized for the services listed in this bid document.

1. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
2. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
3. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
4. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
5. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
6. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
7. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
8. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
9. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
10. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
11. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
12. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
13. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
14. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
15. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
16. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
17. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
18. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
19. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
20. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
21. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
22. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
23. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
24. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
25. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
26. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
27. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
28. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
29. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_
30. \_\_\_\_\_ : Own \_\_\_\_\_ Leased: \_\_\_\_\_

**Company name:** \_\_\_\_\_

**\*\*Completed Form must be submitted with bid proposal\*\***

## ATTACHMENT B

### REFERENCES

Contractor shall furnish the names, addresses, and telephone numbers of a minimum of three (3) firms or government organizations for which the Contractor is currently furnishing, or has furnished, similar services.

<b>Company/Gov Name:</b>	
<b>Address:</b>	
<b>Contact Person/ Job Title:</b>	
<b>Telephone Number:</b>	
<b>E-mail Address:</b>	
<b>Company/Gov Name:</b>	
<b>Address:</b>	
<b>Contact Person/ Job Title:</b>	
<b>Telephone Number:</b>	
<b>E-mail Address:</b>	
<b>Company/Gov Name:</b>	
<b>Address:</b>	
<b>Contact Person/ Job Title:</b>	
<b>Telephone Number:</b>	
<b>E-mail Address:</b>	

**This form must be completed and returned with bid submittal.**

**ATTACHMENT C**

**BIDDER'S QUALIFICATIONS STATEMENT**

**BID No. 20-062**

**Roadway Surfacing, Reconstruction, and Preservation**

THE UNDERSIGNED GUARANTEES THE TRUTH AND ACCURACY OF ALL STATEMENTS AND ANSWERS HEREIN CONTAINED:

**BIDDER'S GENERAL INFORMATION:**

Bidder shall furnish the following information. Failure to comply with this requirement will render Bid non-responsive and may cause its rejection. Additional sheets shall be attached as required.

1. Bidder's Name, Principal Address, Phone and Fax Number:

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2. Number of years as a Contractor in this type of work: \_\_\_\_\_

3. Names and titles of all officers, partners or individuals doing business under trade name:

_____	_____
_____	_____
_____	_____

4. The business is a: Sole Proprietorship  Partnership  Corporation

5. Name, address, and telephone number of surety company and agent who will provide the required bonds on this contract:

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6. What is the last contract of this nature that you have completed?

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7. Have you ever failed to complete work awarded to you? If so, when, where and why?

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8. Have you personally inspected the proposed WORK and do you have a complete plan for its performance?

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9. List three SIGNIFICANT CONTRACTS completed within the past five years.

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10. List ALL CURRENT CONTRACTS.

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The BIDDER acknowledges and understands that the information contained in response to this Qualification's Statement shall be relied upon by COUNTY in awarding the contract and such information is warranted by BIDDER to be true. The discovery of any omission or misstatement that materially affects the BIDDER'S qualifications to perform under the contract shall cause the COUNTY to reject the Bid, and if after the award, to cancel and terminate the award and/or contract.

The BIDDER also acknowledges that all information listed above may be checked by the COUNTY and authorizes all entities or persons listed above to answer any and all questions. BIDDER hereby indemnifies the COUNTY and persons or entities listed above and hold them harmless from any claim arising from such authorization or the exercise thereof, including the dissemination of information requested above.

By \_\_\_\_\_  
(Signature)

Date \_\_\_\_\_

**This form must be completed and returned with bid submittal.**

**ATTACHMENT D**

**VENDOR AFFIDAVIT REGARDING SCRUTINIZED COMPANY LIST**

Pursuant to § 287.135, Florida Statutes, a company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with St. Lucie County for goods or services if at the time of bidding or submitting a proposal for a new contract or renewal of an existing contract, the company: (1) is on the Scrutinized Companies that Boycott Israel List, created pursuant to § 215.4725, Florida Statutes, or is engaged in a boycott of Israel; (2) is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to § 215.473, Florida Statutes; or (3) is engaged in business operations in Cuba or Syria.

If the bidder or contractor is found to have falsified the attached affidavit, the Board of County Commissioners of St. Lucie County may terminate the contract or reject the bid.

STATE OF FLORIDA

COUNTY OF \_\_\_\_\_

BEFORE ME, the undersigned authority, personally appeared

\_\_\_\_\_, who, being by me first duly sworn, made the following statement:

1. The Business address of (name of bidder or contractor) is: \_\_\_\_\_

2. My relationship to \_\_\_\_\_(name of bidder or contractor) is \_\_\_\_\_(relationship such as sole proprietor, partner, president, vice president).

3. I understand that “Boycott of Israel” has the same meaning as defined in § 215.4725, Florida Statutes, and means refusing to deal, terminating business activities, or taking other actions to limit commercial relations with Israel, or persons or entities doing business in Israel or in Israeli-controlled territories, in a discriminatory manner. A statement by a company that it is participating in a boycott of Israel, or that it has initiated a boycott in response to a request for a boycott of Israel or in compliance with, or in furtherance of, calls for a boycott of Israel, may be considered by the State Board of Administration to be evidence that a company is participating in a boycott of Israel. The term does not include restrictive trade practices or boycotts fostered or imposed by foreign countries against Israel.

4. I understand that “business operations” means, for purposes specifically related to Cuba or Syria, engaging in commerce in any form in Cuba or Syria, including, but not limited to, acquiring, developing, maintaining, owning, selling, possessing, leasing, or operating equipment, facilities, personnel, products, services, personal property, real property, military equipment, or any other apparatus of business or commerce.

5. \_\_\_\_\_ (name of the bidder or contractor) is not on the Scrutinized Companies that Boycott Israel List, created pursuant to § 215.4725, Florida Statutes, or is engaged in a boycott of Israel.

6. \_\_\_\_\_ (name of the bidder or contractor) is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to § 215.473, Florida Statutes.

7. \_\_\_\_\_ (name of the bidder or contractor) is not engaged in business operations in Cuba or Syria.

\_\_\_\_\_  
Signature

Sworn to and subscribed before me in the state and county first mentioned above on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Notary Public

My commission expires:



**\*\*This form must be filled out, notarized and submitted with bid proposal. \*\***





**ADDENDUM No. 1**

**BID No. 20-062  
Roadway Surfacing, Reconstruction, and Preservation**

August 25, 2020

To: All Prospective Bidders:

The following changes, additions, clarifications, and deletions amend the Bid Documents of the above captioned Project, and shall become an integral part of the Contract Documents. Please note the contents herein and affix same to the documents you have on hand. Indicate on the Bid Form that this Addendum has been received.

**ATTACHMENTS:**

Questions/Answers  
Revised Specifications  
Revised Bid Form

Please sign and return by e-mail to [ciminod@stlucieco.org](mailto:ciminod@stlucieco.org) or fax to (772) 462-1704.

Name of Firm: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## Questions received for Bid No. 20-062 Roadway Surfacing, Reconstruction & Preservation

Question 1      The County's last two contracts required bidders to bid every item. Will the County reconsider requiring bidders to bid every item in group B and C? Items in both groups are dependent on each other, for instance:

-Full Depth Reclamation/Cold In-place Recycling require hot mix asphalt to be paved on top- is the County prepared to have one contractor perform the FDR/CIR and another do the paving? Scheduling between two different contractors brings about many challenges. Not having the base course paved in a timely manner leads to deformations and pot holes in the base. This can lead to overages in the asphalt and a lot of finger pointing. By having one contractor oversee the project from start to finish these issues can be eliminated.

- Micro Surfacing and Chip Seal are required for Cape Seal. Is the county prepared to have one contractor do the Chip Seal and another do the Micro Surfacing? Scheduling would also be an issue between contractors with both of these processes if cape seal was used. Leaving chip seal under covered for too long can lead to premature ravel, unnecessary complaints, and a poor finished product. Only using one contractor would ensure both processes are completed in a timely manner resulting in a better finished product for the county.

**Answer 1      The County will allow bidders to bid specific items in groups B and C. The award will be based on the major items of work for each group and failing to provide pricing for each item in the group may affect the review and award.**

Question 2      Awarding to multiple contractors is problematic and will make things convoluted for the contractors and the county. Would the County please reconsider making bidders bid all items in each group and awarding the contract to the lowest responsive bidder?

It is no different than requiring every bidder to bid every item in group A. No company would self perform all of the items in Group A but one contractor would be in charge of the projects where items in that group were used.

**Answer 2      The County reserves the right to award a single contract or multiple contracts whichever serves the County's interests.**

Question 3 Specifications- on the virtual Pre-Bid meeting it was stated that FDOT specs would be followed.

For group C is the county planning on following the FPPC specs listed on FDOT's website? This would include specs for: Reclamite, Fog Seal, Crack Seal, Micro Surfacing, and Chip Seal.

**Answer 3 In the absence of FDOT approved specifications; FHWA Section 400 of the FHWA Standard Specifications for Construction of Roads & Bridges on Federal Highway Projects will apply to items in Group C. These specifications can be accessed through the following link:**

**<https://highways.dot.gov/sites/fhwa.dot.gov/files/docs/federal-lands/specs/12851/fp14.pdf#page=219>**

**The Bidder is required to provide the specification for the rejuvenating agent that is proposed for use under Item 335-3A.**

Question 4 For Group B there is currently no FDR or CIR spec on the FDOT website. They are revising the FDR spec (it's not on the website) and they have not adopted a CIR spec yet. The specification is critical for these items as it outlines the testing required for the mix design, onsite testing/QC and post testing requirements. Which ensures the County is getting a quality product. Would the County supply a detailed specification for FDR and CIR?

**Answer 4 In the absence of FDOT approved specifications, FHWA Section 300 of the FHWA Standard Specifications for Construction of Roads & Bridges on Federal Highway Projects will apply to Full-Depth Reclamation and Cold-in-Place Recycling. These specifications can be accessed through the following link:**

**<https://highways.dot.gov/sites/fhwa.dot.gov/files/docs/federal-lands/specs/12851/fp14.pdf#page=219>**

Question 5 Attachment B- References- Does the bidder have to supply references for each item its bidding in group B and C? Do these references have to be in the State of Florida with a City or County?

**Answer 5 The references provided by the bidder should be representative of the general work types for which bids are submitted.**

**The references should be for work done within the State of Florida. Work done for government agencies within the state are preferred to work done for private businesses. All references will be accepted.**

Question 6 Is the performance turf bahia?

**Answer 6 Performance Turf is to match existing turf in adjacent area.**

Question 7 SP-9.5 asphalt paving list @ 2" depth, has to be 2 lifts (maximum depth 1.5" per lift)

**Answer 7 When SP9.5 HMA is specified it will be placed in two lifts.**

Question 8 SP-12.5 asphalt paving cannot be laid @ 1" (minimum 1.5" lift)?

**Answer 8 SP 12.5 HMA will be specified for resurfacing projects requiring 2" or more only. Items 334-1-132A-D Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1" will be removed from the bid. (See revised pages 12, 13, 14, 15, & 19)**

Question 9 Will Delta Mist™ Penetrating Asphalt Spray Rejuvenator Seal be approved as an equivalent for Reclamite? (Manufacturers Certification attached)

**Answer 9 Delta Mist will be accepted as equivalent to Reclamite for Pay Item #335-3A Reclamite or Equivalent Pavement Rejuvenation.**

Construct a Superpave Asphalt Concrete pavement with the type of mixture specified in the Contract Documents, or when offered as alternates, as selected. Superpave mixes are identified as Type SP-9.5, Type SP-12.5 or Type SP-19.0.

Obtain Superpave Asphalt Concrete from a plant that is currently on the Department's Production Facility Listing. Producers seeking inclusion on the list shall meet the requirements of Section 105. Producers must meet the requirements of Section 320 for plant and equipment and the general construction requirements of Section 330.

The basis of payment for **Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"** shall be paid as per SQUARE YARD.

334-1-131A Asphalt 0 to 2,500 Square Yards

334-1-131B Asphalt 2,501 to 10,000 Square Yards

334-1-131C Asphalt 10,001 to 20,000 Square Yards

334-1-131D Asphalt over 20,001 Square Yards

**~~334-1-132A-D Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1"~~**

~~Construct a Superpave Asphalt Concrete pavement with the type of mixture specified in the Contract Documents, or when offered as alternates, as selected. Superpave mixes are identified as Type SP-9.5, Type SP-12.5 or Type SP-19.0.~~

~~Obtain Superpave Asphalt Concrete from a plant that is currently on the Department's Production Facility Listing. Producers seeking inclusion on the list shall meet the requirements of Section 105. Producers must meet the requirements of Section 320 for plant and equipment and the general construction requirements of Section 330.~~

~~The basis of payment for **Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1"** shall be paid as per SQUARE YARD.~~

~~334-1-132A Asphalt 0 to 2,500 Square Yards~~

~~334-1-132B Asphalt 2,501 to 10,000 Square Yards~~

~~334-1-132C Asphalt 10,001 to 20,000 Square Yards~~

~~334-1-132D Asphalt over 20,001 Square Yards~~

**334-1-133A-D Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"**

Construct a Superpave Asphalt Concrete pavement with the type of mixture specified in the Contract Documents, or when offered as alternates, as selected. Superpave mixes are identified as Type SP-9.5, Type SP-12.5 or Type SP-19.0.

Obtain Superpave Asphalt Concrete from a plant that is currently on the Department's Production Facility Listing. Producers seeking inclusion on the list shall meet the requirements of Section 105. Producers must meet the requirements of Section 320 for plant and equipment and the general construction requirements of Section 330.

The basis of payment for **Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"** shall be paid as per SQUARE YARD.

334-1-133A Asphalt 0 to 2,500 Square Yards

**BID No. 20-062**

**Roadway Surfacing, Reconstruction, and Preservation**

**1.0 SCOPE**

The Specifications consist of preparation and surfacing various County roads and final cleanup, associated appurtenances, and other related work.

The County will offer a two (2) year contract with three (3) one-year renewal options.

**PRICING**

The successful bidder shall furnish and apply product at the unit price indicated on the bid unit price form for the applicable distance to any location within St. Lucie County.

**PLANS**

There are no separate plans for this project. Sketches may accompany each individual project that may result from this bid.

**2.0 BID UNIT PRICE SCHEDULE**

All items in Group A must be bid in order to be considered responsive. Group B and Group C may be awarded to one or more contractors based on the best interest of the County.

<b>Group A - General (Required)</b>			
Item	Description	Unit	Unit Price
<b>Mobilization</b>			
101-1A	Work Order Total \$0.00 - \$50,000	LS	
101-1B	Work Order Total \$50,001 - \$100,000	LS	
101-1C	Work Order Total \$100,001 - \$500,000	LS	
101-1D	Work Order Total Over \$500,000	LS	
<b>Maintenance of Traffic</b>			
102-1A	Standard FDOT 600 Series MOT for Lane Closure	DA	
<b>Miscellaneous</b>			
104-13-1	Silt Fence Type III	LF	
110-7-1A	Mailbox (Remove and Replace)	EA	
339-1	Miscellaneous Asphalt	TN	
570-1	Performance Turf	SY	
577-70A	Shoulder Rework	SY	
918-331	Bituminous Patching Material	CF	
<b>ADA Standards</b>			
520-1-11	Concrete Curb & Gutter, Variable Height, Type F	LF	
522-2	Concrete Sidewalk & Driveways, 6"	SY	
527-2	Detectable Warnings	SF	
<b>Painted Pavement Markings</b>			
710-11-121	Standard, White, Solid 6"	LF	

710-11-122	Standard, White, Solid 8"	LF	
710-11-123	Standard, White, Solid 12"	LF	
710-11-124	Standard, White, Solid 18"	LF	
710-11-125	Standard, White, Solid 24"	LF	
Item	Description	Unit	Unit Price
710-11-131	Standard, White Skip 6"	LF	
710-11-141	Standard, White, Dotted/Guideline 6-10 Gap, 6"	LF	
710-11-16	Standard, White, Message	EA	
710-11-17	Standard, White, Arrows	EA	
710-11-18	Standard, White, Yield Line	LF	
710-11-221	Standard, Yellow, Solid 6"	LF	
710-11-222	Standard, Yellow, Solid 8"	LF	
710-11-223	Standard, Yellow, Solid 12"	LF	
710-11-224	Standard, Yellow, Solid 18"	LF	
710-11-225	Standard, Yellow, Solid 24"	LF	
710-11-231	Standard, Yellow, Skip 6"	LF	
710-11-241	Standard, Yellow, Dotted/Guideline 6-10 Gap, 6"	LF	

<b>Group B – Resurfacing/ Reconstruction</b>			
Item	Description	Unit	Unit Price
<b>Milling 0 to 2,500 Square Yards</b>			
327-70-1A	1" Average Depth	SY	
327-70-5A	2" Average Depth	SY	
327-70-4A	Variable Depths over 2"	SY	
<b>Milling 2,501 to 10,000 Square Yards</b>			
327-70-1B	1" Average Depth	SY	
327-70-5B	2" Average Depth	SY	
327-70-4B	Variable Depths over 2"	SY	
<b>Milling 10,001 to 20,000 Square Yards</b>			
327-70-1C	1" Average Depth	SY	
327-70-5C	2" Average Depth	SY	
327-70-4C	Variable Depths over 2"	SY	
<b>Milling over 20,001 Square Yards</b>			
327-70-1D	1" Average Depth	SY	
327-70-5D	2" Average Depth	SY	
327-70-4D	Variable Depths over 2"	SY	
<b>Asphalt Types from 0 to 2,500 Square Yards</b>			
334-1-131A	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	
334-1-133A	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134A	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Asphalt Types from 2,501 to 10,000 Square Yards</b>			
334-1-131B	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	

334-1-133B	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134B	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Asphalt Types from 10,001 to 20,000 Square Yards</b>			
334-1-131C	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	
334-1-132C	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1"	SY	
334-1-133C	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134C	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Asphalt Types over 20,001 Square Yards</b>			
334-1-131D	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	
334-1-132D	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 1"	SY	
334-1-133D	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134D	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Full Depth Reclamation (FDR and Cold-in-Place (CIP) Recycling</b>			
120-1A	Excavation for Widening or Unsuitable Material	CY	
905-324-3	Cement - Cement Treatment	TN	
905-324-4	Asphaltic Emulsion - Emulsion Treated Base	GAL	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling from 0 to 2,500 Square Yards</b>			
905-324-1A	Pulverization (FDR)	SY	
905-324-2A	Recycling Bituminous Paving (CIP)	SY	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling from 2,501 to 10,000 Square Yards</b>			
905-324-1B	Pulverization (FDR)	SY	
905-324-2B	Recycling Bituminous Paving (CIP)	SY	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling 10,001 to 25,000 Square Yards</b>			
905-324-1C	Pulverization (FDR)	SY	
905-324-2C	Recycling Bituminous Paving (CIP)	SY	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling over 25,001 Square Yards</b>			
905-324-1D	Pulverization (FDR)	SY	
905-324-2D	Recycling Bituminous Paving (CIP)	SY	

<b>Group C - Preservation/ Restoration</b>			
Item	Description	Unit	Unit Price
<b>Pavement Preservation</b>			
335-3A	Reclamite or Equivalent Pavement Rejuvenation	SY	
335-4A	Fog Seal	SY	
350-99A	Crack Sealing	GAL	
<b>Micro-Surfacing</b>			
917-335-1A	Single Application 0 to 15,000 Square Yards	SY	
917-335-1B	Single Application over 15,001 Square Yards	SY	
917-335-1C	Double Application 0 to 15,000 Square Yards	SY	
Item	Description	Unit	Unit Price
917-335-1D	Double Application over 15,001 Square Yards	SY	



917-335-1E	Rut Filling	TN	
	<b>Chip Seal</b>		
917-335-2A	Single Application 0 to 15,000 Square Yards	SY	
917-335-2B	Single Application over 15,001 Square Yards	SY	
917-335-2C	Double Application 0 to 15,000 Square Yards	SY	
917-335-2D	Double Application over 15,001 Square Yards	SY	
917-335-2E	Variable Depths over 2" 0 to 15,000 Square Yards	SY	
917-335-2F	Variable Depths over 2" over 15,001 Square Yards	SY	

**BID UNIT PRICE SCHEDULE**

All bid items shall include all costs for furnishing to the owner all materials, equipment and supplies, permits and for all costs incurred in providing all work shown on the **Roadway Surfacing, Reconstruction, and Preservation** project outlined in the contract specifications for the construction.

NOTE: This bid is on a unit price basis. The total estimated amount is for bid comparison purposes only. The contractor should field verify the actual site conditions prior to time of bidding and before submitting the bid proposal. The contractor should read the special conditions and the requirements for insurance before submitting a bid proposal. The contractor should verify the quantities to be included in the construction contract. The contractor shall furnish St. Lucie County with a \$5,000.00 Cash Performance Bond. The Cash Performance Bond shall continue in effect for one duration of the contract as guarantee against construction defects. Density testing shall be at the expense of St. Lucie County, except for failing tests, which shall be charged to the contractor.

I have attached the required 5% Bid Security to this Bid.

Date \_\_\_\_\_

Bidder \_\_\_\_\_  
*(Company Name)*

By \_\_\_\_\_  
*(Signature)*

By \_\_\_\_\_  
*(Printed Name)*

Title \_\_\_\_\_

Mailing Address \_\_\_\_\_

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

Office Number \_\_\_\_\_

Fax Number \_\_\_\_\_

# Manufacturers Certification *for*

## Delta Mist™ Penetrating Asphalt Spray Rejuvenator Seal

This Manufacturers Certification contains a compilation of independent laboratory test results conducted by NCAT, (National Center for Asphalt Technology at Auburn University), as accredited by the American Association of State Highway Transportation Officials (AASHTO) Materials Reference Laboratory (AMRL).

FAA P-632 specification for bituminous pavement rejuvenation is the current governing standard by which penetrating asphalt pavement rejuvenation product applied to previously placed hot mix asphalt (HMA) , is proven to perform on the ability to decrease the viscosity of the binder material, to reduce the rate of loss of fines and to retard crack propagation without causing an unacceptable reduction in the fiction characteristics (skid resistance) of the pavement section. A full copy of the independent report (s) is available upon request.

**Table 1. Pavement Three (3) Years or Less in Age**

Property of Recovered Binder <sup>2</sup>	Requirement	Test Method
Absolute Viscosity <sub>60°C</sub> , P	≥ 25% Decrease <sup>2</sup>	ASTMD2171
Complex Modulus <sub>60°C</sub> , G*		AASHTO T315
Viscosity <sub>60°C</sub> , $\eta = G^* / \omega$ Pa·s		
Phase Angle <sub>60°C</sub> , $\delta$ , °	Report	

**Table 2. Pavement More than Three (3) Years in Age**

Property of Recovered Binder <sup>2</sup>	Requirement	Test Method
Absolute Viscosity <sub>60°C</sub> , P	≥ 40% Decrease <sup>2</sup>	ASTMD2171
Complex Modulus <sub>60°C</sub> , G*, kPa		AASHTO T315
Viscosity <sub>60°C</sub> , $\eta^* = G^* / \omega$ Pa·s		
Phase Angle <sub>60°C</sub> , $\delta$ , °	Report	

# Delta Mist™ Penetrating Asphalt Spray Rejuvenator Seal

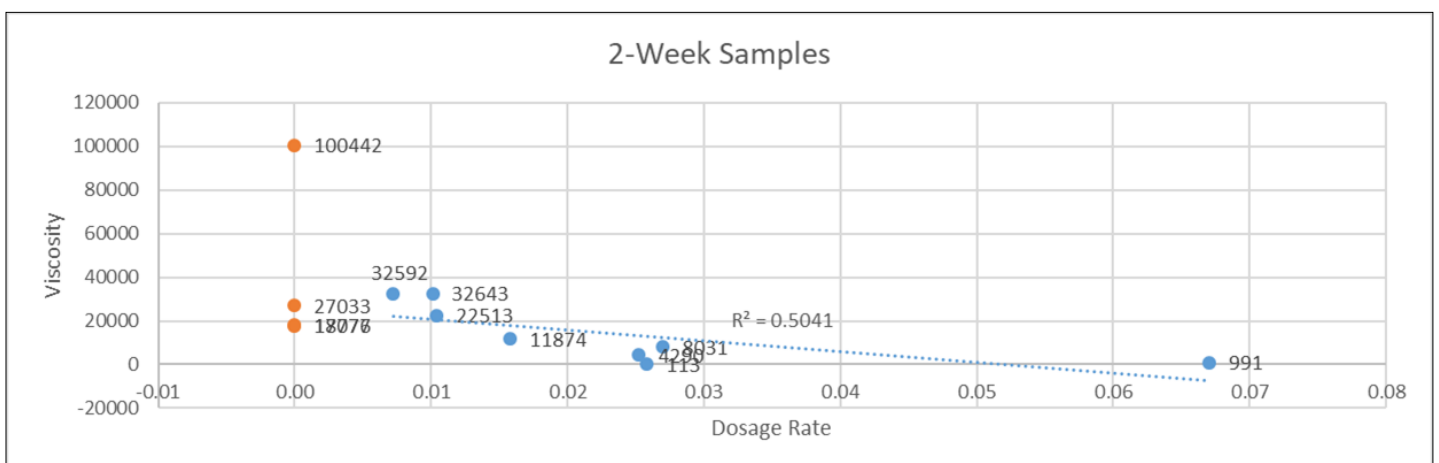
Source: NCAT off-track testing facility  
April 2018 on a 6 year old Mississippi DOT  
dense graded 4.75 mm surface mix design.

NCAT test procedures for Delta Mist™ include a  
binder study for viscosity reduction and recovery.

Friction testing and skid analysis for sections listed  
below are tested and analyzed per most current  
standards utilizing;

Dynamic Friction Tester (DFT) ASTM E1911  
AASHTO Pavement Friction Requirements compliant

@60°C								
Two-week Cores	Section	Material	Rate, g/yd <sup>2</sup>	G*, kPa	Phase Angle, °	Complex Visc, mPaS	Abs Viscosity, PaS	Corr Rate
	3	10.0%	0.072	99.94	65.5	1.01E+07	32592	0.0072
	4	10.0%	0.101	88.93	66.2	5.17E+06	32643	0.0101
	5	20.0%	0.052	85.87	66.6	8.56E+06	22513	0.0104
	6	20.0%	0.079	51.56	68.4	5.17E+06	11874	0.0158
	7	20.0%	0.126	24.50	71.9	2.46E+06	4290	0.0252
	11	20.0%	0.129	0.12	82.8	1.01E+05	113	0.0258
	1	100.0%	0.027	39.75	67.3	3.97E+06	8031	0.0270
	2	100.0%	0.067	7.63	74.0	7.63E+05	991	0.0670
		North Control #1	NA	125.50	63.6	1.28E+07	100442	0.0000
		South Control #1	NA	72.75	67.3	7.28E+06	17776	0.0000
		North Control #2	NA	75.15	65.4	7.54E+06	18077	0.0000
		South Control #2	NA	84.42	65.5	8.57E+06	27033	0.0000



A full copy of the independent report (s) is available upon request.

Source: NCAT off-track testing facility  
April 2018 on a 6 year old Mississippi DOT  
dense graded 4.75 mm surface mix design.

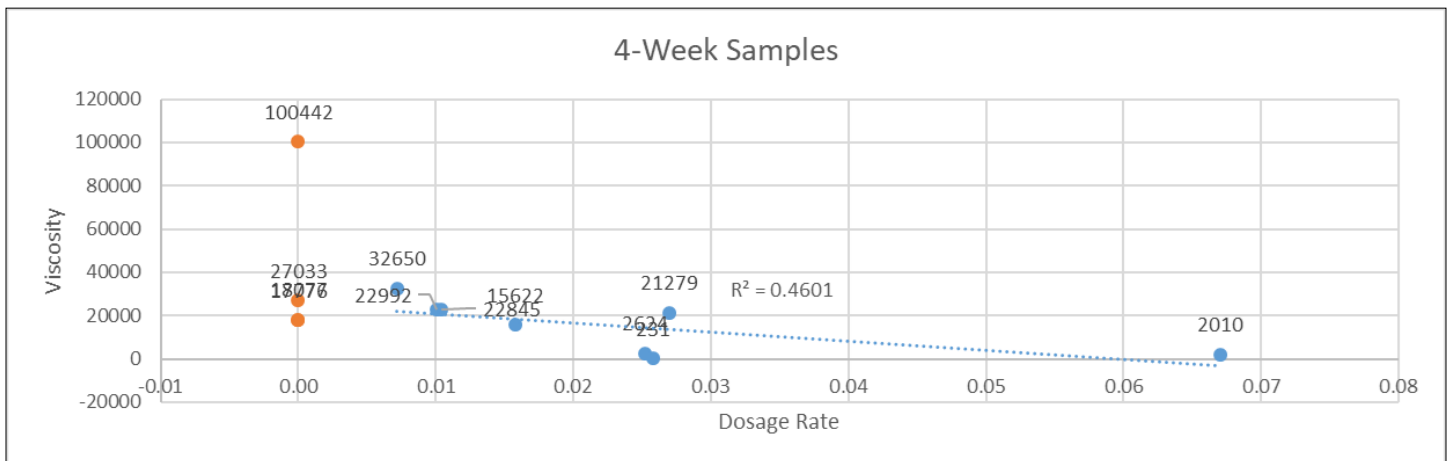
NCAT test procedures for Delta Mist™ include a  
binder study for viscosity reduction and recovery.

Friction testing and skid analysis for sections listed  
below are tested and analyzed per most current  
standards utilizing;

Dynamic Friction Tester (DFT) ASTM E1911

AASHTO Pavement Friction Requirements compliant

Four-week Cores	Section	Material	Rate, g/yd <sup>2</sup>	G*, kPa	Phase Angle, °	Complex Visc, mPaS	Abs Viscosity, PaS	Corr Rate
	3	10.0%	0.072	97.70	65.6	9.87E+06	32650	0.0072
	4	10.0%	0.101	91.07	66.4	9.18E+06	22992	0.0101
	5	20.0%	0.052	95.15	66.0	9.50E+06	22845	0.0104
	6	20.0%	0.079	66.94	67.6	6.72E+06	15622	0.0158
	7	20.0%	0.126	31.12	71.6	3.12E+06	2624	0.0252
	11	20.0%	0.129	1.01	83.1	1.01E+05	231	0.0258
	1	100.0%	0.027	64.32	66.6	6.43E+06	21279	0.0270
	2	100.0%	0.067	11.65	72.6	1.16E+06	2010	0.0670
		North Control #1	NA	125.50	63.6	1.28E+07	100442	0.0000
		South Control #1	NA	72.75	67.3	7.28E+06	17776	0.0000
		North Control #2	NA	75.15	65.4	7.54E+06	18077	0.0000
		South Control #2	NA	84.42	65.5	8.57E+06	27033	0.0000



A full copy of the independent report (s) is available upon request.



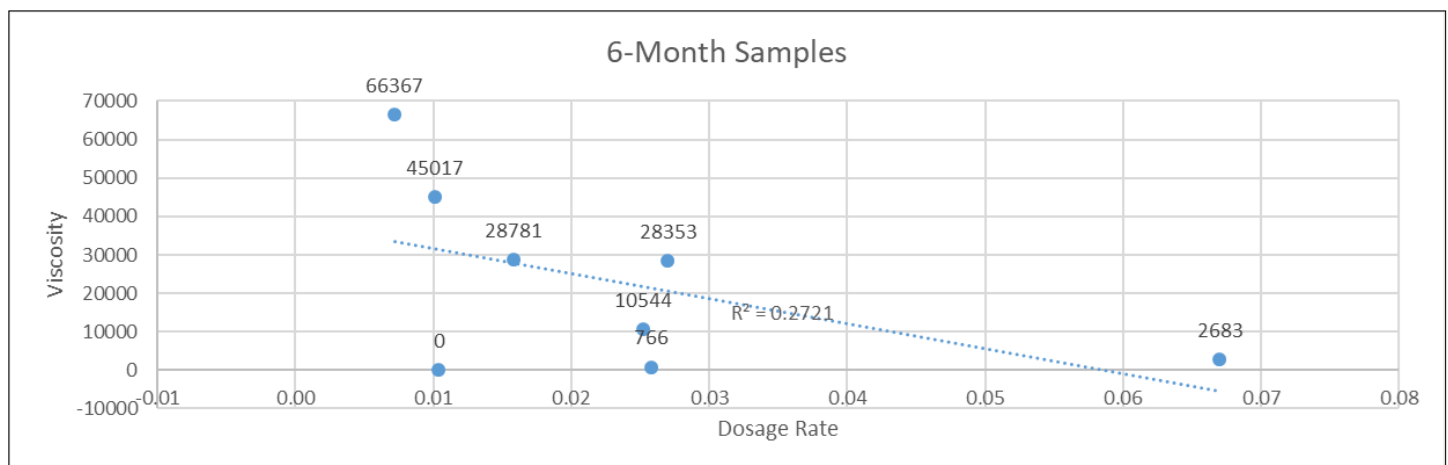
Source: NCAT off-track testing facility  
April 2018 on a 6 year old Mississippi DOT  
dense graded 4.75 mm surface mix design.

NCAT test procedures for Delta Mist™ include a  
binder study for viscosity reduction and recovery.

Friction testing and skid analysis for sections listed  
below are tested and analyzed per most current  
standards utilizing;

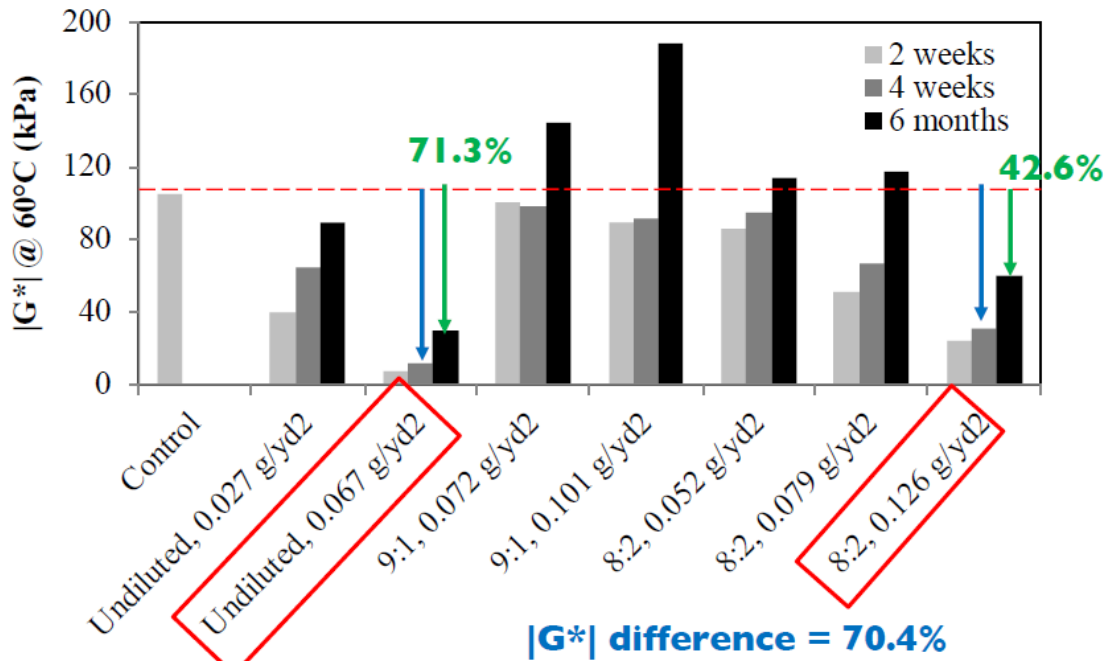
Dynamic Friction Tester (DFT) ASTM E1911  
AASHTO Pavement Friction Requirements compliant

Six-Month Cores	Section	Material	Rate, g/yd <sup>2</sup>	G*, kPa	Phase Angle, °	Complex Visc, mPaS	Abs Viscosity, PaS	Corr Rate
	3	10.0%	0.072	143.92	62.5	1.44E+07	66367	0.0072
	4	10.0%	0.101	187.77	63.3	1.90E+07	45017	0.0101
	5	20.0%	0.052	113.50	63.1	1.14E+07	not enough	0.0104
	6	20.0%	0.079	117.50	63.2	1.17E+07	28781	0.0158
	7	20.0%	0.126	60.30	66.6	6.03E+06	10544	0.0252
	11	20.0%	0.129	5.92	73.5	5.92E+05	766	0.0258
	1	100.0%	0.027	89.50	62.7	8.99E+06	28353	0.0270
	2	100.0%	0.067	30.17	64.9	3.02E+06	2683	0.0670



A full copy of the independent report (s) is available upon request.

## Complex Modulus ( $|G^*|$ ) @ 60°C, 10 rad/sec (kPa)



**$|G^*|$  difference = 88.9%**

**$|G^*|$  difference = 70.4%**

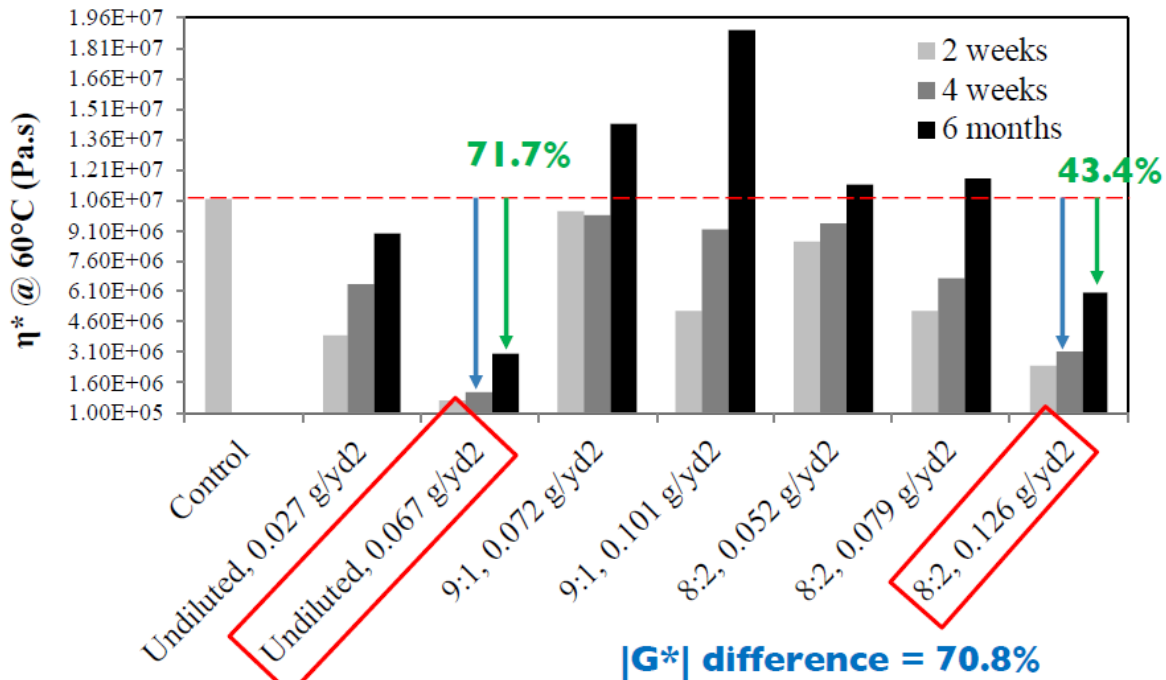
### FAA P-632 Procedure

For pavement more than 3 years in age, 30-45 days after application of rejuvenation product →  $|G^*|$  @ 60°C must have % decrease  $\geq 40\%$

Source: NCAT off-track testing facility  
April 2018 on a 6 year old Mississippi DOT  
dense graded 4.75 mm surface mix design.

A full copy of the independent report (s) is available upon request.

## Complex Viscosity @ 60°C (Pa.s) $\eta^* = |G^*|/\omega$



**|G\*| difference = 89.1%**

### FAA P-632 Procedure

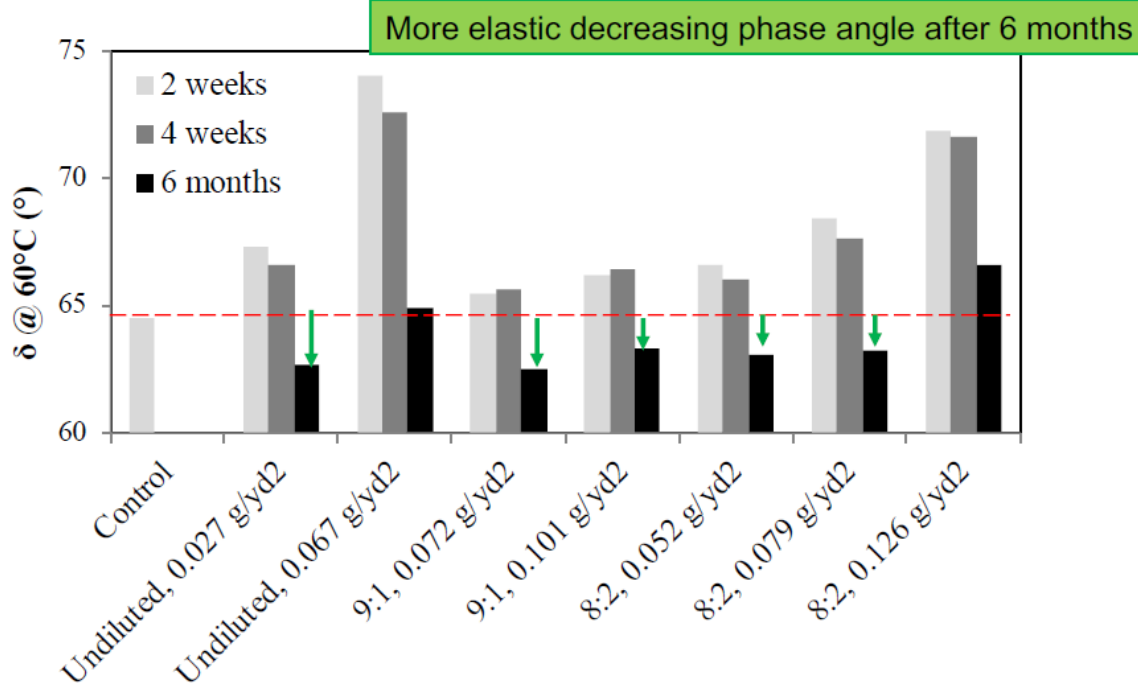
For pavement more than 3 years in age, 30-45 days after application of rejuvenation product →  $\eta^*$  @ 60°C must have % decrease **≥ 40%**



Source: NCAT off-track testing facility  
April 2018 on a 6 year old Mississippi DOT  
dense graded 4.75 mm surface mix design.

A full copy of the independent report (s) is available upon request.

## Phase Angle @ 60°C (°)



### FAA P-632 (Bituminous Pavement Rejuvenation) Procedure

No limit required.

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Source: NCAT off-track testing facility  
April 2018 on a 6 year old Mississippi DOT  
dense graded 4.75 mm surface mix design.

A full copy of the independent report (s) is available upon request.



Source: NCAT off-track testing facility  
April 2018 on a 6 year old Mississippi DOT  
dense graded 4.75 mm surface mix design.

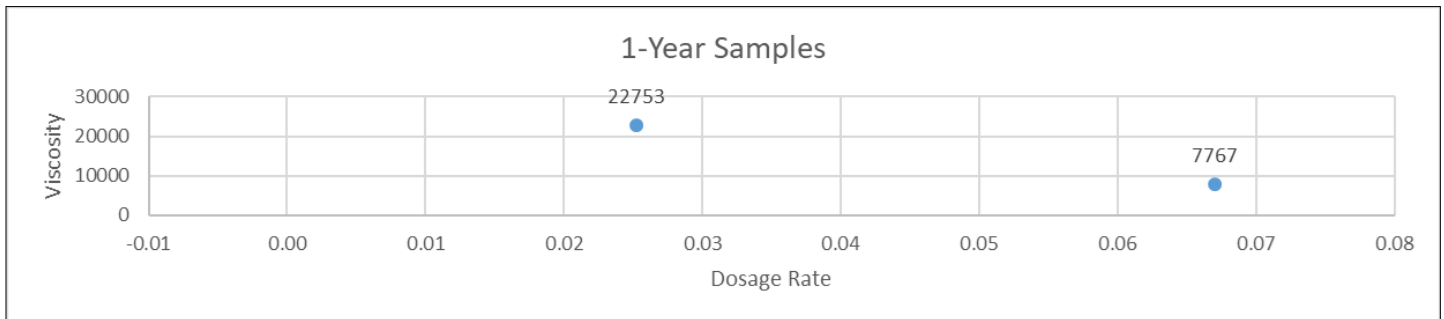
NCAT test procedures for Delta Mist™ include a binder study  
for viscosity reduction and recovery.

Friction testing and skid analysis for sections listed below  
are tested and analyzed per most current standards utilizing;

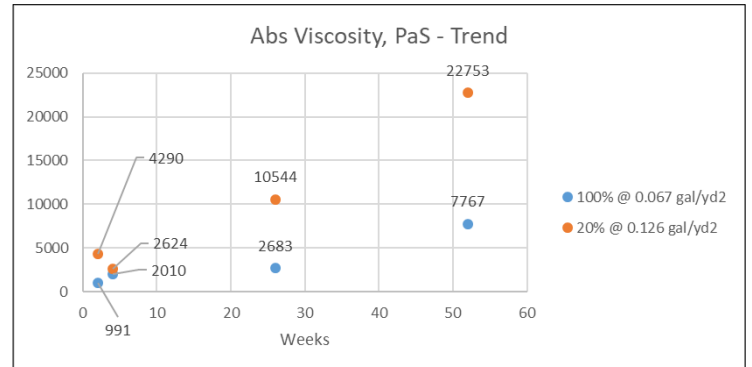
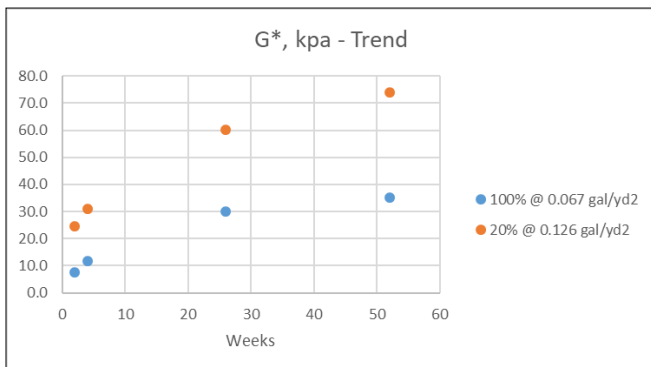
Dynamic Friction Tester (DFT) ASTM E1911

ASHTO Pavement Friction Requirements compliant

One-Year Cores	Section	Material	Rate, g/yd <sup>2</sup>	G*, kPa	Phase Angle, °	Complex Visc, mPaS	Abs Viscosity, PaS	Corr Rate
	2	100.0%	0.067	35.15	63.1	3.52E+06	7767	0.0670
	7	20.0%	0.126	73.88	66.2	7.39E+06	22753	0.0252



Trend	Section	Weeks	G*, kPa	Phase Angle, °	Complex Visc, mPaS	Abs Viscosity, PaS
Two Week	2	2	7.6	74	7.63E+05	991
Four Week	2	4	11.7	72.6	1.16E+06	2010
Six Months	2	26	30.2	64.9	3.02E+06	2683
Twelve Months	2	52	35.2	63.1	3.52E+06	7767
Two Week	7	2	24.5	71.9	2.46E+06	4290
Four Week	7	4	31.1	71.6	3.12E+06	2624
Six Months	7	26	60.3	66.6	6.03E+06	10544
Twelve Months	7	52	73.9	66.2	7.39E+06	22753



A full copy of the independent report (s) is available upon request.

Source: NCAT off-track testing facility  
April 2018 on a 6 year old Mississippi DOT  
dense graded 4.75 mm surface mix design.

NCAT test procedures for Delta Mist™ include a binder study  
for viscosity reduction and recovery.

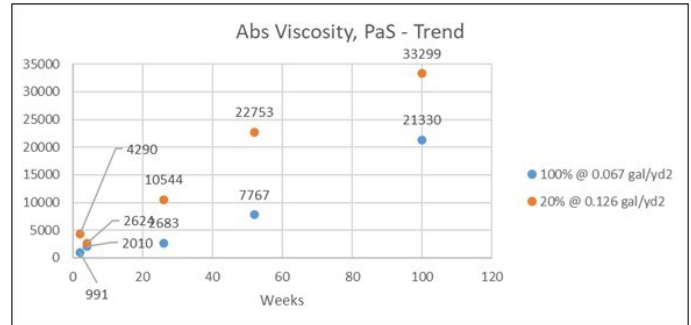
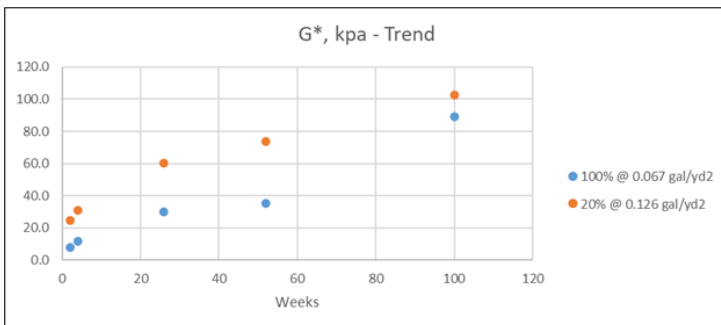
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Dynamic Friction Tester (DFT) ASTM E1911

ASHTO Pavement Friction Requirements compliant

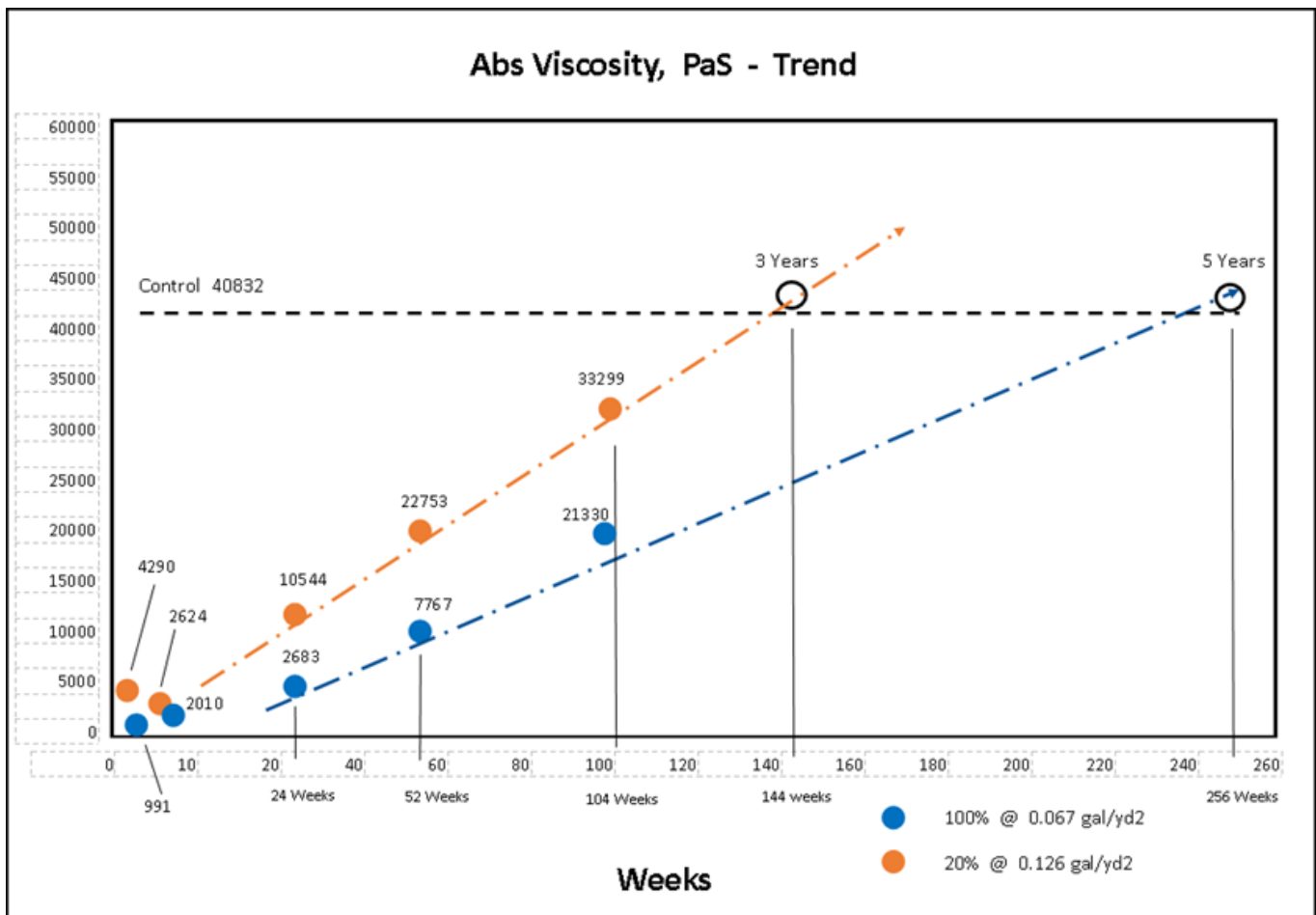
Two-Year Cores	Section	Material	Rate, g/yd <sup>2</sup>	G*, kPa	Phase Angle, °	Complex Visc, mPaS	Abs Viscosity, PaS	Corr Rate
	2	100.0%	0.067	89.08	57.6	8.91E+06	21330	0.0670
	7	20.0%	0.126	102.50	62.7	1.03E+07	33299	0.0252

Trend	Section	Weeks	G*, kPa	Phase Angle, °	Complex Visc, mPaS	Abs Viscosity, PaS
Two Week	2	2	7.6	74	7.63E+05	991
Four Week	2	4	11.7	72.6	1.16E+06	2010
Six Months	2	26	30.2	64.9	3.02E+06	2683
Twelve Months	2	52	35.2	63.1	3.52E+06	7767
Twenty-four Months	2	100	89.1	57.6	8.91E+06	21330
Two Week	7	2	24.5	71.9	2.46E+06	4290
Four Week	7	4	31.1	71.6	3.12E+06	2624
Six Months	7	26	60.3	66.6	6.03E+06	10544
Twelve Months	7	52	73.9	66.2	7.39E+06	22753
Twenty-four Months	7	100	102.5	62.7	1.03E+07	33299



A full copy of the independent report (s) is available upon request.

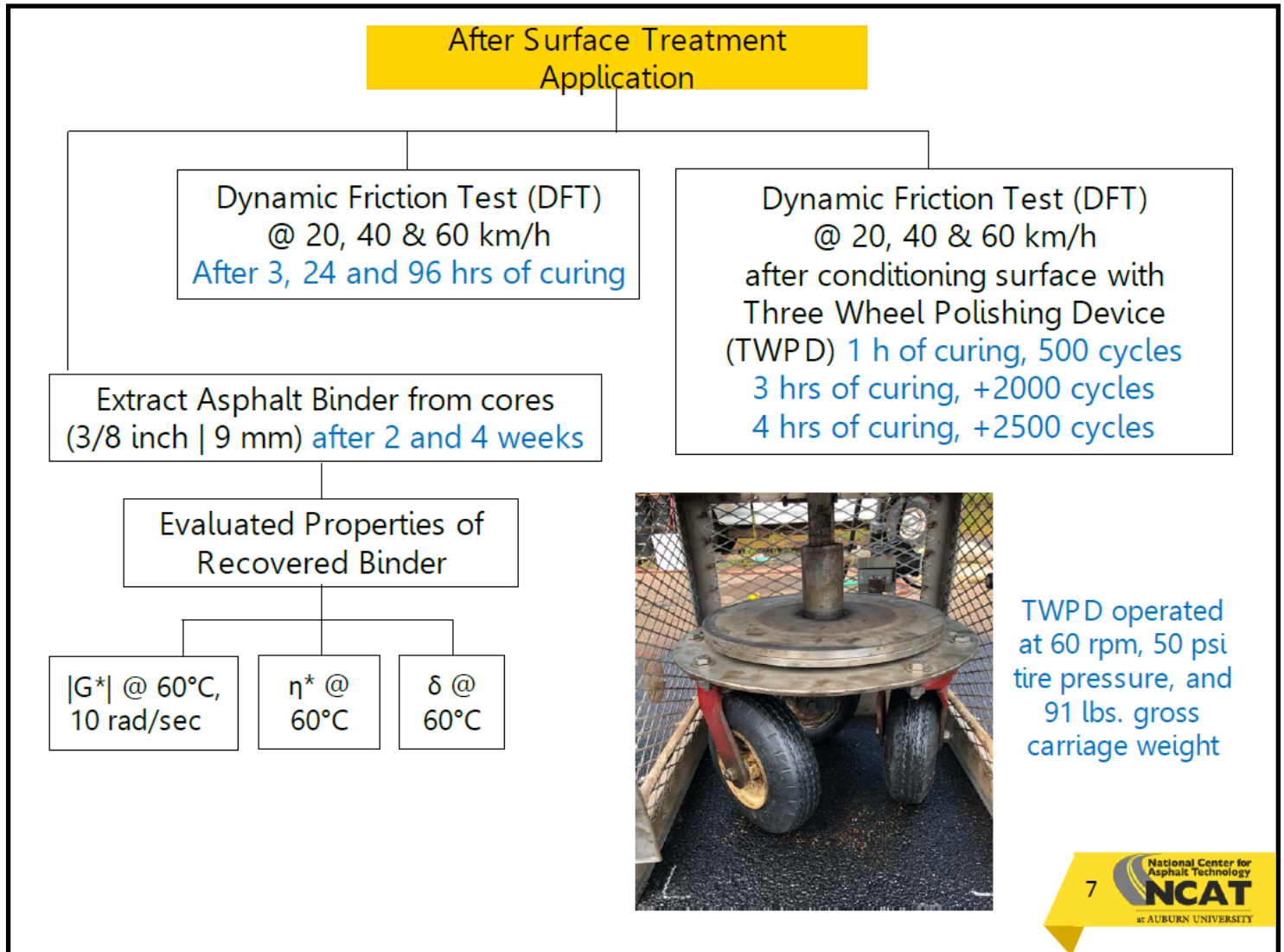
Graph below illustrates the projected duration of time between the initial application of Delta Mist™ rejuvenator and a second application of Delta Mist™ rejuvenator. Viscosity will slowly increase back during the binder recovery period to that it was prior to the initial treatment. There are no limits to multiple re-applications of Delta Mist™ penetrating asphalt rejuvenator for continued pavement life extension.



Graph illustrates viscosities from NCAT binder testing on the off-track facility, April 2018 on a 6 year old Mississippi DOT dense graded 4.75 mm surface mix design.



# Skid Analysis / Friction Testing Evaluation Method

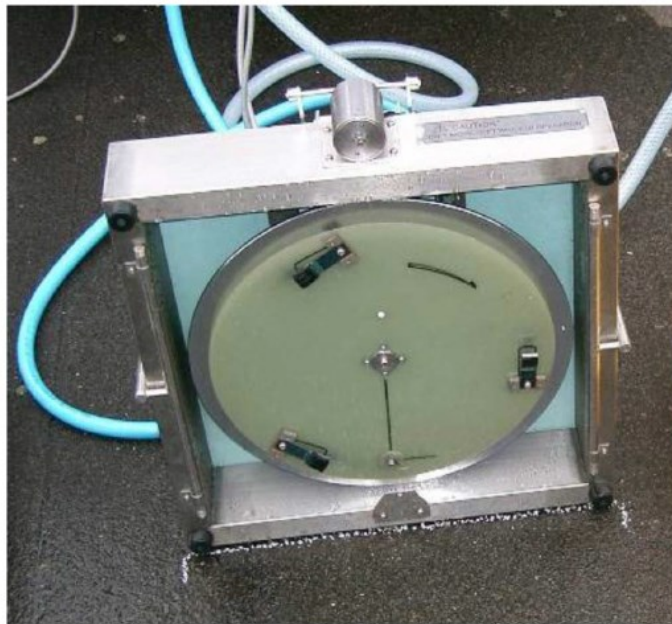


Source: Surface treatment selection process (09/2018) for Tennessee (S4) & Mississippi (S3) sections on the test track for the 2018 Pavement Preservation Study.

## Skid Analysis / Friction Testing Evaluation Method

### Dynamic Friction (DF) Tester

Horizontal spinning disk fitted with 3 spring loaded rubber sliders which contact the paved surface as the disk rotational speed decreases due to the friction generated between the sliders and the paved surface. A water supply unit delivers water to the paved surface being tested. The torque generated by the slider forces measured during the spin down is then used to calculate the friction as a function of speed.



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National Center for  
Asphalt Technology  
**NCAT**  
at AUBURN UNIVERSITY

Source: Surface treatment selection process (09/2018) for Tennessee (S4) & Mississippi (S3) sections on the test track for the 2018 Pavement Preservation Study.

A full copy of the independent report (s) is available upon request.

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## Friction Testing On-track Pavement Preservation Study 2018



### Materials – Section S3, Mississippi DOT

- Mix of sand and gravel, 25% RAP, constructed in 2012
- Asphalt content = 6.8% (PG 67-22 neat)

<i>Surface Treatment</i>	<i>Composition</i>	<i>Product Use by Manufacturer Recommendation</i>	<i>Application Rate</i>	<i>Residual</i>	<i>Dilution Rate</i>	<i>Residual Application Rate</i>
S3-A	N/A	Age-regenerating surface treatment	0.07 gal/yd <sup>2</sup>	20%	2:1	0.014 gal/yd <sup>2</sup>
S3-B	Plant-based rejuvenator	Topical rejuvenating seal	0.10 gal/yd <sup>2</sup>	20%	Undiluted	0.020 gal/yd <sup>2</sup>

Source: MnRoad/NCAT Partnership 2019 Fall Meeting for Tennessee (S4) & Mississippi (S3) sections on the test track for the 2018 Pavement Preservation Study.



## Friction Testing On-track Pavement Preservation Study 2018

### Section S3, Mississippi DOT



**S3-A application**



**S3-B application**

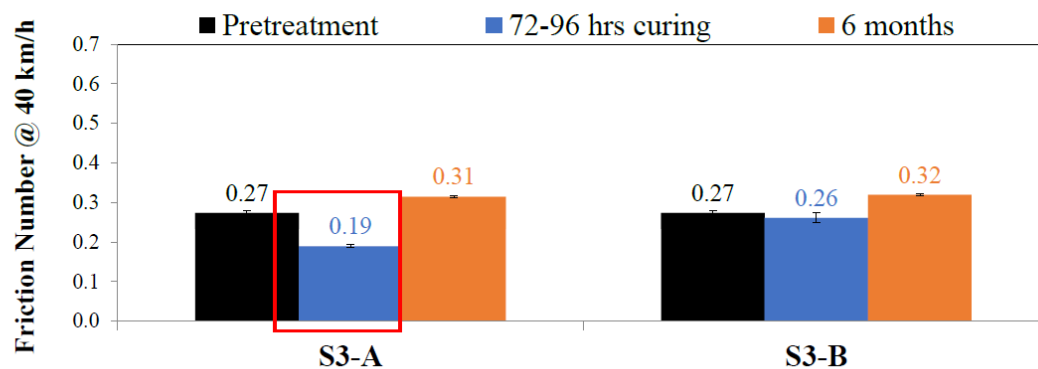
Source: MnRoad/NCAT Partnership 2019 Fall Meeting for Tennessee (S4) & Mississippi (S3) sections on the test track for the 2018 Pavement Preservation Study.

A full copy of the independent report (s) is available upon request.

## Friction Testing On-track Pavement Preservation Study 2018

### Dynamic Friction (DF) S3, Mississippi DOT

- Between 24-96h, friction value should be similar of pavement surface prior to treatment
  - **Decrease** in friction was observed for **S3-A**
- Long term friction evaluation should indicate no adverse effect with time
  - **Increase** in friction was observed for both **S3-A** and **S3-B**



Source: MnRoad/NCAT Partnership 2019 Fall Meeting for Tennessee (S4) & Mississippi (S3) sections on the test track for the 2018 Pavement Preservation Study.

### **S3-A** *Competitive Product*

### **S3-B** *Competitive Product*

**Delta Mist™** penetrating asphalt spray rejuvenator most critical short term (72-96 hours curing) showed virtually **NO decrease** in friction value.

A full copy of the independent report (s) is available upon request.

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## Friction Testing On-track Pavement Preservation Study 2018



### Materials – Section S4, Tennessee DOT

- Mix of sand and limestone, 15% F-RAP, constructed in 2015
- Asphalt content = 6.2% (PG 67-22 neat)

<i>Surface Treatment</i>	<i>Composition</i>	<i>Product Use by Manufacturer Recommendation</i>	<i>Application Rate</i>	<i>Residual</i>	<i>Dilution Rate</i>	<i>Residual Application Rate</i>
S4-A	Polymer-modified asphalt base	Rejuvenating fog seal	0.08 gal/yd <sup>2</sup>	30%	Undiluted	0.024 gal/yd <sup>2</sup>
S4-B	Maltene-based from naphthenic crude base	Asphalt pavement rejuvenator	0.08 gal/yd <sup>2</sup>	50%	1:1	0.040 gal/yd <sup>2</sup>

Source: MnRoad/NCAT Partnership 2019 Fall Meeting for Tennessee (S4) & Mississippi (S3) sections on the test track for the 2018 Pavement Preservation Study.

## Friction Testing On-track Pavement Preservation Study 2018

### Section S4, Tennessee DOT



**S4-A application**



**S4-B application**

Source: MnRoad/NCAT Partnership 2019 Fall Meeting for Tennessee (S4) & Mississippi (S3) sections on the test track for the 2018 Pavement Preservation Study.

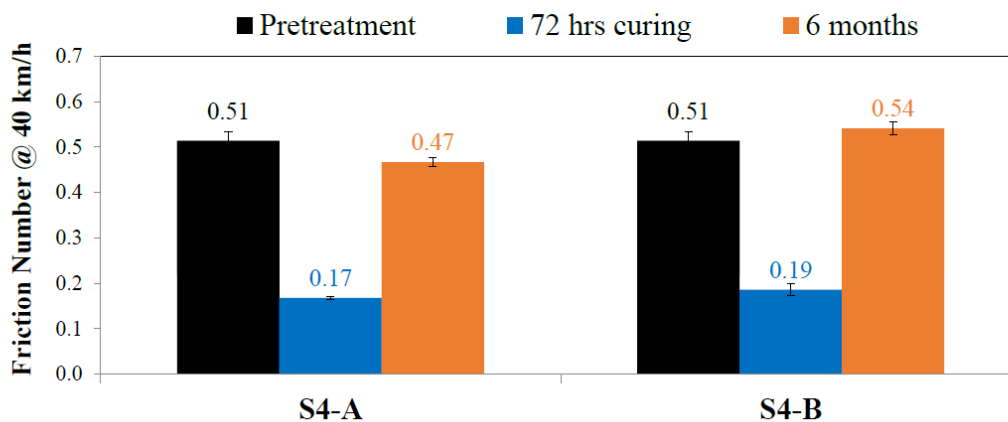
A full copy of the independent report (s) is available upon request.

## Friction Testing On-track Pavement Preservation Study 2018



### Dynamic Friction (DF) S4, Tennessee DOT

- After 72 h of treatment application, a significant **decrease in friction** was observed for **S4-A** and
- After 6 months of treatment application, **higher friction value** of pavement surface was observed for section treated with **S4-B**



Source: MnRoad/NCAT Partnership 2019 Fall Meeting for Tennessee (S4) & Mississippi (S3) sections on the test track for the 2018 Pavement Preservation Study.

### S4-A *Competitive Product*

Polymer-modified Asphalt

Significant **decrease in friction** in the most critical short term (72-96 hours curing)

### S4-B *Competitive Product*

Maltene Based from naphthenic crude base

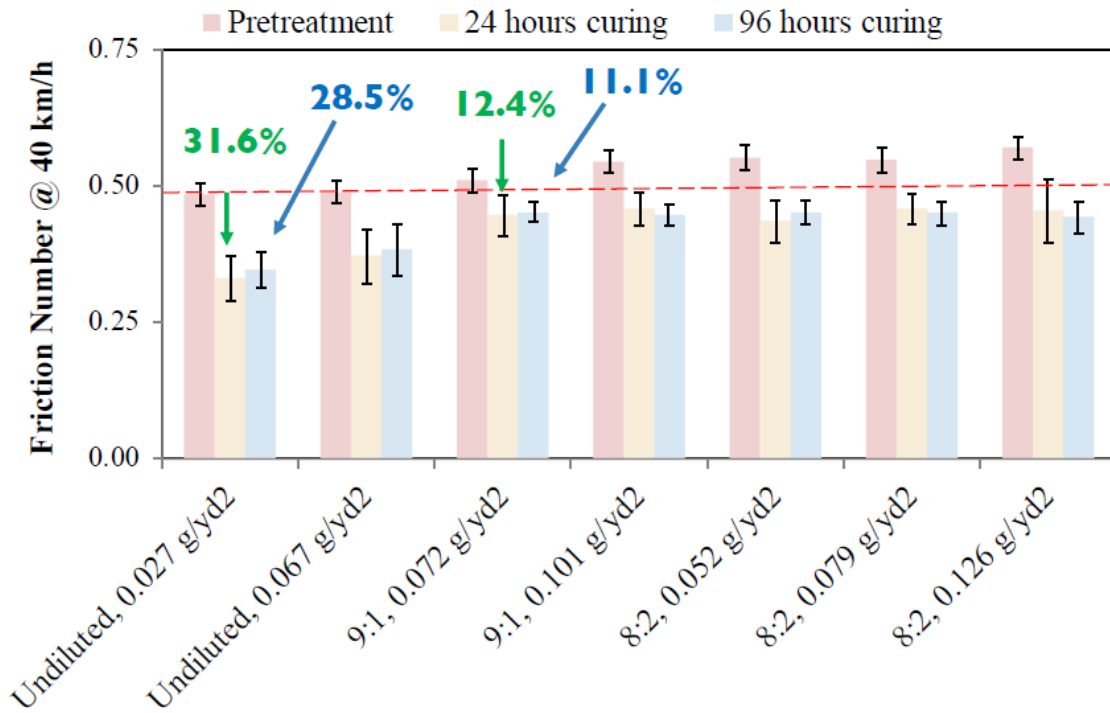
Significant **decrease in friction** in the most critical short term (72-96 hours curing)

A full copy of the independent report (s) is available upon request.

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## Skid Analysis / Friction Testing



After 24 hrs: decrease in friction between 12.4%–31.6%

After 96 hrs: decrease in friction between 11.1%–28.5%

### FAA P-632 Procedure

Results between 24 and 96 hours indicate friction is increasing at a rate to obtain similar friction value of the pavement surface prior to application.



Source: NCAT off-track testing facility  
April 2018 on a 6 year old Mississippi DOT  
dense graded 4.75 mm surface mix design.

A full copy of the independent report (s) is available upon request.



at AUBURN UNIVERSITY

**Project:** Collaborative Aggregate  
**Date:** 5/20/2020  
**Sample ID:** Delta Mist Penetration Evaluation

	Penetration @ 25C, dmm
Untreated Sample	24
Treated Sample*	33
Percent Difference	38

\*Delta Mist applied at approximately 0.126gallons/yd<sup>2</sup>

**Tested by:** Pamela Turner



May 20, 2020

**Re: Verification of Delta S Penetrometer and Viscosity Results for Recovered RAS Binder from 2015 Minnesota Study**

To whom it may concern:

This letter is provided to confirm that testing has been completed on recovered binder dosed with Delta S, and the resulting viscosity and penetrometer reductions exceed the required minimum values as laid out in section 2.(1) of the Bexar County Specification for Asphalt Rejuvenator. This testing was completed by Recovery Technology Solutions (RTS), Minnesota in 2015.

**Penetrometer:**

- a. 100% recovered RAS binder: 14.9 mm
- b. Recovered RAS binder, dosed with Delta S: 25.5 mm

**Viscosity (cP @ 300°F):**

- a. 100% recovered RAS binder: 37,057
- b. Recovered RAS binder, dosed with Delta S: 15,730

Best regards,



**Joe Pont | CEO  
WBI**



**John Warner | President and CTO  
WBI**





at AUBURN UNIVERSITY  
277 Technology Parkway  
Auburn, Alabama 36830

May 28, 2019

Dr. Jay Bianchini, Chief Operating Officer  
Mr. Steve Wallace, Vice President of Sales  
Collaborative Aggregates, LLC.  
100 Research Drive  
Wilmington, MA 01887

Re: Retroreflectivity on the NCAT Pavement Test Track

Dear Dr. Bianchini and Mr. Wallace,

This letter is written to document results from the surface measurements made on the NCAT Pavement Test Track on May 6<sup>th</sup>, 2019.

Retroreflectivity was measured on Mississippi DOT's (MDOT) surface rejuvenation pavement test section (section S3). This pavement was originally constructed in the 2012 research cycle and, at the time of testing, had over 22 million equivalent single-axle loads (ESALs) applied. The study aims to evaluate the effectiveness of a surface-applied rejuvenator product developed by Collaborative Aggregates known commercially as Delta Mist. An application of Delta Mist was made in Track section S3B in November of 2018.

#### **Method**

Each test section is 150 feet in length, however for this study, section S3 was sub-divided into two sub-sections to accommodate two materials, resulting in two 75-foot sub-sections. Due to the shortened nature of the testable area, five measurements were made on each 10-foot centerline stripe. Measurements were recorded using a RoadVista Stripemaster 2 Touch Retroreflectometer. Section S3B contained one partial stripe and one full-length stripe. Two measurements were possible on the partial stripe and five on the full-length stripe.

#### **Results and Discussion**

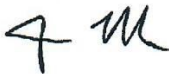
A 2016 Supplemental Notice of Proposed Amendment (SNPA) to the 2009 Manual for Uniform Traffic Control Devices (MUTCD) established new minimum thresholds for retroreflectivity on longitudinal pavement markings. This documents states that retroreflectivity shall be maintained "at or above 50 mcd/m<sup>2</sup>/lx for roadways with statutory or posted speed limits of 35 mph or greater" and "at or above 100 mcd/m<sup>2</sup>/lx for "roadways with statutory or posted speed limits of 70 mph or greater." All the measured retroreflectivity values exceeded these minimum thresholds. On average, the test section showed a value of 279 mcd/m<sup>2</sup>/lx. The results for each test location are shown in Table 1.

Table 1: Retroreflectivity

Section	Stripe	Test Location and Retroreflectivity, mcd/m <sup>2</sup> /lx				
		1	2	3	4	5
S03B	Full	275	314	248	304	245
S03B	Partial	289	277			

If additional information is required regarding retroreflectivity measurements on Delta Mist treated Track section S3B, please don't hesitate to let us know.

Sincerely,



Mr. Jason Nelson  
 NCAT Test Track Manager





**ADDENDUM No. 2**

**BID No. 20-062  
Roadway Surfacing, Reconstruction, and Preservation**

August 26, 2020

To: All Prospective Bidders:

The following changes, additions, clarifications, and deletions amend the Bid Documents of the above captioned Project, and shall become an integral part of the Contract Documents. Please note the contents herein and affix same to the documents you have on hand. Indicate on the Bid Form that this Addendum has been received.

**ATTACHMENTS:**

Questions/Answers  
Revised Bid Form

Please sign and return by e-mail to [ciminod@stlucieco.org](mailto:ciminod@stlucieco.org) or fax to (772) 462-1704.

Name of Firm: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## Questions received on Bid No. 20-062

Q1: Can the County clarify the intention to award to multiple contractors based on each pavement preservation treatment independently? Should each bidder submit bids on the treatments they perform with the exception of Schedule A where we should submit a bid for all items, even though other than MOT and Mobilization most other items would not be part of some of the pavement preservation treatments?

**A1: The County has not determined whether the contract will be awarded to a single contractor or multiple contractors. The contract or contracts awarded will be based on the bids that best serve the interests of the County. The bidders must bid items in Groups B and C with the understanding that they may be awarded to a single contractor or individually.**

Q2: For the three one year contract renewals, will the County be utilizing the FDOT Bituminous price index to allow for inflation in construction materials, or other methods to compensate for increased costs associated with their contracts?

**A2: Any determination on allowances for inflation will be negotiated at the time of renewal.**

Q3: Will individual award of each pavement preservation treatment be based on the specific treatment item not Schedule A since each treatment may not utilize most or any of the bid items on Schedule A?

**A: The items in Group A will not be the primary focus of the review but will be considered when awarding the contract(s).**

Q4: In the technical specifications language, the specifications for each treatment reference specifications from FDOT, (FPPC specifications). Can you provide the link to ensure no confusion exists? Our understanding is that the intended specifications are found here: <https://www.fdot.gov/programmanagement/Implemented/LAP/FPPC/Default.shtm>

**A4: The FPPC specifications identified on FDOT's website under Program Management – Local Agency are intended for the items in Group C with the exception of any materials proposed as equivalent to Item 335-3A Reclamite or Equivalent Pavement Rejuvenation must meet FAA Specification P-632. The specification can be downloaded via the following link: [https://www.faa.gov/airports/engineering/construction\\_standards/](https://www.faa.gov/airports/engineering/construction_standards/) under Part 8 Surface Treatments.**

Q5: Under the Pavement Preservation treatments Group C there are no quantities listed. In order to provide the County with the best price, can a quantity schedule be used as listed for the other groups in the Pavement Preservation Treatments?

**A5: Items 335-3A, 335-4A, and 350-99A are to be bid as shown on the Bid Form.**

Q6: Must a contractor bid all items in a Group C in order to be responsive or only those items they perform?

**A6: In Groups B and C the contractor will not be considered unresponsive for declining to bid individual items. This applies to Group B and C only.**

Q7: Two of the 1" SP-12.5 line items were not remove from the new bid form, items 334-1132C and 334-1-132D. Will these be corrected and a new bid form released?

**A7: Yes, see revised Bid Form (Pages 12, 13, 14 & 15 of Bid Documents attached)**

**BID No. 20-062**

**Roadway Surfacing, Reconstruction, and Preservation**

**1.0 SCOPE**

The Specifications consist of preparation and surfacing various County roads and final cleanup, associated appurtenances, and other related work.

The County will offer a two (2) year contract with three (3) one-year renewal options.

**PRICING**

The successful bidder shall furnish and apply product at the unit price indicated on the bid unit price form for the applicable distance to any location within St. Lucie County.

**PLANS**

There are no separate plans for this project. Sketches may accompany each individual project that may result from this bid.

**2.0 BID UNIT PRICE SCHEDULE**

All items in Group A must be bid in order to be considered responsive. Group B and Group C may be awarded to one or more contractors based on the best interest of the County.

<b>Group A - General (Required)</b>			
Item	Description	Unit	Unit Price
<b>Mobilization</b>			
101-1A	Work Order Total \$0.00 - \$50,000	LS	
101-1B	Work Order Total \$50,001 - \$100,000	LS	
101-1C	Work Order Total \$100,001 - \$500,000	LS	
101-1D	Work Order Total Over \$500,000	LS	
<b>Maintenance of Traffic</b>			
102-1A	Standard FDOT 600 Series MOT for Lane Closure	DA	
<b>Miscellaneous</b>			
104-13-1	Silt Fence Type III	LF	
110-7-1A	Mailbox (Remove and Replace)	EA	
339-1	Miscellaneous Asphalt	TN	
570-1	Performance Turf	SY	
577-70A	Shoulder Rework	SY	
918-331	Bituminous Patching Material	CF	
<b>ADA Standards</b>			
520-1-11	Concrete Curb & Gutter, Variable Height, Type F	LF	
522-2	Concrete Sidewalk & Driveways, 6"	SY	
527-2	Detectable Warnings	SF	
<b>Painted Pavement Markings</b>			
710-11-121	Standard, White, Solid 6"	LF	

710-11-122	Standard, White, Solid 8"	LF	
710-11-123	Standard, White, Solid 12"	LF	
710-11-124	Standard, White, Solid 18"	LF	
710-11-125	Standard, White, Solid 24"	LF	
Item	Description	Unit	Unit Price
710-11-131	Standard, White Skip 6"	LF	
710-11-141	Standard, White, Dotted/Guideline 6-10 Gap, 6"	LF	
710-11-16	Standard, White, Message	EA	
710-11-17	Standard, White, Arrows	EA	
710-11-18	Standard, White, Yield Line	LF	
710-11-221	Standard, Yellow, Solid 6"	LF	
710-11-222	Standard, Yellow, Solid 8"	LF	
710-11-223	Standard, Yellow, Solid 12"	LF	
710-11-224	Standard, Yellow, Solid 18"	LF	
710-11-225	Standard, Yellow, Solid 24"	LF	
710-11-231	Standard, Yellow, Skip 6"	LF	
710-11-241	Standard, Yellow, Dotted/Guideline 6-10 Gap, 6"	LF	

<b>Group B – Resurfacing/ Reconstruction</b>			
Item	Description	Unit	Unit Price
<b>Milling 0 to 2,500 Square Yards</b>			
327-70-1A	1" Average Depth	SY	
327-70-5A	2" Average Depth	SY	
327-70-4A	Variable Depths over 2"	SY	
<b>Milling 2,501 to 10,000 Square Yards</b>			
327-70-1B	1" Average Depth	SY	
327-70-5B	2" Average Depth	SY	
327-70-4B	Variable Depths over 2"	SY	
<b>Milling 10,001 to 20,000 Square Yards</b>			
327-70-1C	1" Average Depth	SY	
327-70-5C	2" Average Depth	SY	
327-70-4C	Variable Depths over 2"	SY	
<b>Milling over 20,001 Square Yards</b>			
327-70-1D	1" Average Depth	SY	
327-70-5D	2" Average Depth	SY	
327-70-4D	Variable Depths over 2"	SY	
<b>Asphalt Types from 0 to 2,500 Square Yards</b>			
334-1-131A	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	
334-1-133A	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134A	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Asphalt Types from 2,501 to 10,000 Square Yards</b>			
334-1-131B	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	

334-1-133B	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134B	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Asphalt Types from 10,001 to 20,000 Square Yards</b>			
334-1-131C	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	
334-1-133C	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134C	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Asphalt Types over 20,001 Square Yards</b>			
334-1-131D	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 1"	SY	
334-1-133D	Superpave Asphaltic Concrete (Traffic C, SP 9.5), 2"	SY	
334-1-134D	Superpave Asphaltic Concrete (Traffic C, SP 12.5), 2"	SY	
<b>Full Depth Reclamation (FDR and Cold-in-Place (CIP) Recycling</b>			
120-1A	Excavation for Widening or Unsuitable Material	CY	
905-324-3	Cement - Cement Treatment	TN	
905-324-4	Asphaltic Emulsion - Emulsion Treated Base	GAL	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling from 0 to 2,500 Square Yards</b>			
905-324-1A	Pulverization (FDR)	SY	
905-324-2A	Recycling Bituminous Paving (CIP)	SY	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling from 2,501 to 10,000 Square Yards</b>			
905-324-1B	Pulverization (FDR)	SY	
905-324-2B	Recycling Bituminous Paving (CIP)	SY	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling 10,001 to 25,000 Square Yards</b>			
905-324-1C	Pulverization (FDR)	SY	
905-324-2C	Recycling Bituminous Paving (CIP)	SY	
<b>Full Depth Reclamation (FDR) and Cold-in-Place (CIP) Recycling over 25,001 Square Yards</b>			
905-324-1D	Pulverization (FDR)	SY	
905-324-2D	Recycling Bituminous Paving (CIP)	SY	

<b>Group C - Preservation/ Restoration</b>			
Item	Description	Unit	Unit Price
<b>Pavement Preservation</b>			
335-3A	Reclamite or Equivalent Pavement Rejuvenation	SY	
335-4A	Fog Seal	SY	
350-99A	Crack Sealing	GAL	
<b>Micro-Surfacing</b>			
917-335-1A	Single Application 0 to 15,000 Square Yards	SY	
917-335-1B	Single Application over 15,001 Square Yards	SY	
917-335-1C	Double Application 0 to 15,000 Square Yards	SY	
Item	Description	Unit	Unit Price
917-335-1D	Double Application over 15,001 Square Yards	SY	
917-335-1E	Rut Filling	TN	
<b>Chip Seal</b>			

917-335-2A	Single Application 0 to 15,000 Square Yards	SY	
917-335-2B	Single Application over 15,001 Square Yards	SY	
917-335-2C	Double Application 0 to 15,000 Square Yards	SY	
917-335-2D	Double Application over 15,001 Square Yards	SY	
917-335-2E	Variable Depths over 2" 0 to 15,000 Square Yards	SY	
917-335-2F	Variable Depths over 2" over 15,001 Square Yards	SY	

**BID UNIT PRICE SCHEDULE**

All bid items shall include all costs for furnishing to the owner all materials, equipment and supplies, permits and for all costs incurred in providing all work shown on the **Roadway Surfacing, Reconstruction, and Preservation** project outlined in the contract specifications for the construction.

NOTE: This bid is on a unit price basis. The total estimated amount is for bid comparison purposes only. The contractor should field verify the actual site conditions prior to time of bidding and before submitting the bid proposal. The contractor should read the special conditions and the requirements for insurance before submitting a bid proposal. The contractor should verify the quantities to be included in the construction contract. The contractor shall furnish St. Lucie County with a \$5,000.00 Cash Performance Bond. The Cash Performance Bond shall continue in effect for one duration of the contract as guarantee against construction defects. Density testing shall be at the expense of St. Lucie County, except for failing tests, which shall be charged to the contractor.

I have attached the required 5% Bid Security to this Bid.

Date \_\_\_\_\_

Bidder \_\_\_\_\_  
*(Company Name)*

By \_\_\_\_\_  
*(Signature)*

By \_\_\_\_\_  
*(Printed Name)*

Title \_\_\_\_\_

Mailing Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Office Number \_\_\_\_\_

Fax Number \_\_\_\_\_

**3.0 SPECIFICATIONS**



**ADDENDUM No. 3**

**BID No. 20-062  
Roadway Surfacing, Reconstruction, and Preservation**

August 27, 2020

To: All Prospective Bidders:

The following changes, additions, clarifications, and deletions amend the Bid Documents of the above captioned Project, and shall become an integral part of the Contract Documents. Please note the contents herein and affix same to the documents you have on hand. Indicate on the Bid Form that this Addendum has been received.

**CLARIFICATION:**

**5% Bid Bond is not required for Bid No. 20-062.**

Please sign and return by e-mail to [ciminod@stlucieco.org](mailto:ciminod@stlucieco.org) or fax to (772) 462-1704.

Name of Firm: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_





**ADDENDUM No. 4**

**BID No. 20-062  
Roadway Surfacing, Reconstruction, and Preservation**

August 31, 2020

To: All Prospective Bidders:

The following changes, additions, clarifications, and deletions amend the Bid Documents of the above captioned Project, and shall become an integral part of the Contract Documents. Please note the contents herein and affix same to the documents you have on hand. Indicate on the Bid Form that this Addendum has been received.

**QUESTION/ANSWER:**

**Q1:** In items 917-335-2E and 917-335-2F, it calls for a variable depths over 2", While there is no real way to specifically control thickness. Emulsion is applied at a specified rate then a specified aggregate size is applied at a prescribed poundage per SY, to increase thickness more layers could applied with 3 layers being the most I've ever seen. Please, specify.

**A1: Items 917-335-2E and 917-335-2F are intended to address applications where additional layers may be required in order to match existing grade. The intent is to allow applications that exceed the thickness of a double chip seal but do not require the full thickness of an additional layer of chip seal.**

Please sign and return by e-mail to [ciminod@stlucieco.org](mailto:ciminod@stlucieco.org) or fax to (772) 462-1704.

Name of Firm: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## Roadway Surfacing, Reconstruction and Preservation

Awarded

### Bid Details

<b>Agency Name</b>	St. Lucie County - Purchasing Department
<b>Bid Writer</b>	<a href="#">Desiree Cimino</a>
<b>Bid ID</b>	BID-20-062-0-2020/DC
<b>Bid Type</b>	BID - Invitation to Bid
<b>Broadcast Date</b>	08/02/2020 4:00 AM Eastern
<b>Fiscal Year</b>	2020
<b>Due</b>	09/02/2020 3:00 PM Eastern
<b>Bid Status Text</b>	10/20 to: Asphalt Paving systems, Inc. All bid items in Groups A,B, C (Except item 335-3A) & Pavement Technologies, Inc. Bid Item 335-3A including required Bid Group A, General bid items

### Scope of Work

None

### Documents

[Download all documents](#)

Filename	Type	Date Modified	Status
<a href="#">Bid No. 20-062 Noti...</a>	Notice of Intent	10/14/2020	Complete
<a href="#">20-062 Bid Tab</a>	Bid Tabulation Sheet	09/08/2020	Complete
<a href="#">Bid No. 20-062 Adde...</a>	Addendum	08/31/2020	Complete
<a href="#">Bid No. 20-062 Adde...</a>	Addendum	08/27/2020	Complete
<a href="#">Bid No. 20-062 Adde...</a>	Addendum	08/26/2020	Complete
<a href="#">Bid No. 20-062 Adde...</a>	Addendum	08/25/2020	Complete
<a href="#">20-062 Sign in sheet</a>	Sign-in Sheet	08/12/2020	Complete
<a href="#">Bid No. 20-062 Road...</a>	Bid Document / Specifications	07/30/2020	Complete

### Distribution Info

<b>Bid Bond</b>	N/A
<b>Plan (blueprint)</b>	None
<b>eBidding</b>	No
<b>Distributed By</b>	DemandStar
<b>Distribution Method</b>	Download and Mail
<b>Distribution Options</b>	Bid has no blueprints associated with it

## Publications

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Fort Pierce Tribune 8/2/2020

[View Legal Ad](#)

## Pre-Bid Conference

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MANDATORY A MANDATORY PRE BID CONFERENCE will be held through Zoom (<https://us04web.zoom.us/j/73523699157?pwd=M041OFBCV0ErZHlZYlY3c0RTTnZOQT09>

Meeting ID 517 737 9373 Password: 4BtGiw), on Wednesday, August 12, 2020 at 10:00 A.M.

## Statistics

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<b>Planholders</b>	There are 27 Planholders for this bid.
<b>Filtered</b>	No
<b>Broadcast List</b>	366 Suppliers have been notified <a href="#">Export</a>
<b>Post-Bid Viewers</b>	There are 19 Post-Bid viewers
<b>Supplemental Suppliers</b>	0 Supplemental Suppliers

## Commodity Code

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[\[022-913-27\]](#) Construction, Highway and Road

[\[022-913-50\]](#) Construction, Streets, Major and Residential, Including Reconstruction

[\[022-913-71\]](#) Maintenance and Repair, Highway and Roads, Including Removal of Asphalt, Concrete, Bitumens, etc.

[\[022-913-95\]](#) Paving and Resurfacing, Highway and Road

[\[022-913-96\]](#) Paving and Resurfacing, Streets, Major and Residential