

Contract No.: CM3015

Bid No.: NC21-003

CONTRACT FOR ALTERNATIVE PAVING METHODS

THIS CONTRACT entered into this 12th day of July, 2021, by and between the **BOARD OF COUNTY COMMISSIONERS OF NASSAU COUNTY, FLORIDA**, a political subdivision of the State of Florida, hereinafter referred to as the "County", and **ASPHALT PAVING SYSTEMS, INC.** located at 9021 Wire Road, Zephyrhills, Florida 33540, hereinafter referred to as the "Vendor".

WHEREAS, the County received sealed bids for Alternative Paving Methods, Bid No. NC21-003, on March 25, 2021 at 10:00 a.m.; and

WHEREAS, the Road Department determined that the Vendor was the lowest, most responsive and responsible bidder for the bid items set forth in the *Response Price Sheet*, a copy of which is attached hereto as Attachment "B" and made a part hereof; and

NOW, THEREFORE, in consideration of the terms and conditions herein set forth, the County and the Vendor agree as follows:

SECTION 1. Description of Services and/or Materials to be Provided

The County does hereby retain the Vendor to provide Alternative Paving Methods as directed by the County and as further described in the *Technical Specifications/Scope of Work* and all applicable issued addenda attached hereto as Attachment "A" and made a part hereof. All services and materials shall conform to the current FDOT Standard Specifications for Road and Bridge Construction and FDOT Roadway and Traffic Design Standards Index. This Contract standing alone does not authorize the performance of any work or require the County to place any orders for work. Any order for work shall be in the form of a Work Authorization issued by the County. Upon approval of each Work Authorization, the County shall issue a written Notice to Proceed (NTP) and the Vendor shall commence the work detailed in the Work Authorization in accordance with the date specified in the NTP.

SECTION 2. Receiving/Payment/Invoicing

No payment will be made for services and/or materials without proper County authorization and approval. The County shall pay the Vendor within forty-five (45) calendar days of receipt and acceptance of invoice by the Road Department, pursuant to and in accordance with the promulgations set forth by the State of Florida's Prompt Payment Act. (Florida Statutes Section 218.70). The Vendor shall also submit a copy of all invoices submitted to the Road Department for payment to invoices@nassaucountyfl.com. Payment shall not be made until

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services and/or materials have been received, inspected and accepted by the County in the quantity and/or quality ordered. Payment will be accomplished by submission of an invoice, with the Contract number referenced thereon. Payment in advance of receipt of services and/or materials by the County cannot be made.

The invoice submitted shall be in sufficient detail as to item, quantity and price in order for the County to verify compliance with the awarded bid.

SECTION 3. Acceptance of Services and/or Materials

Receipt of services and/or materials shall not constitute acceptance. Final acceptance and authorization of payment shall be given only after a thorough inspection indicates that the services and/or materials meet bid specifications and conditions. Should the quantity and/or quality differ in any respect from specifications, payment will be withheld until such time as the Vendor takes necessary corrective action. If the proposed corrective action is not acceptable to the County, the County Manager's Office may authorize the recipient to refuse final acceptance of the quantity and/or quality received. Should a representative of the County agree to accept the services and/or materials on condition that the Vendor will correct their performance within a stipulated time period, then payment will be withheld until said corrections are made.

SECTION 4. Firm Prices

Prices for services and/or materials covered in the specifications of this Contract shall remain firm for the period of this Contract; net delivered to the ordering agency, **F.O.B. DESTINATION**. No additional fees or charges shall be accepted.

SECTION 5. Fund Availability

This Contract is deemed effective only to the extent that appropriations are available. Pursuant to Florida Statutes all appropriations lapse at the end of the Fiscal Year. Multi-year awards may be adequately funded but the County reserves the right not to appropriate for an ongoing procurement if it is deemed in its best interest.

SECTION 6. Permits/Licenses/Fees

Any permits, licenses or fees required for the services and/or materials will be the responsibility of the Vendor unless otherwise stated.

SECTION 7. Taxes

The County is tax exempt. As such, the County will not pay any Federal Excise or State of Florida Sales Tax. The Vendor will refrain from including taxes in any billing.

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SECTION 8. Laws Governing this Contract

This Contract shall be consistent with, and be governed by, the Ordinances of Nassau County, the whole laws and rules of the State of Florida, both procedural and substantive, and applicable federal statutes, rules and regulations. Any and all litigation arising under this Contract shall be brought in Nassau County, Florida. Any mediation, pursuant to litigation, shall occur in Nassau County, Florida.

SECTION 9. Changes

The County reserves the right to order, in writing, changes in the work within the scope of the Contract, such as change in quantity or delivery schedule. The Vendor has the right to request an equitable price adjustment in cases where changes to the Contract under the authority of this clause result in increased costs to the Vendor.

SECTION 10. Modifications

In addition to modifications made under the changes clause, this Contract may be modified within the scope of the Contract upon the written and mutual consent of both parties, and approval by appropriate legal authority in the County.

SECTION 11. Assignment & Subcontracting

The Vendor will not be permitted to assign its Contract with the County, or to subcontract any of the work requirements to be performed without obtaining prior written approval by the County.

SECTION 12. Severability

If any section, subsection, sentence, clause, phrase, or portion of this Contract is, for any reason, held invalid, unconstitutional, or unenforceable by any Court of Competent Jurisdiction, such portion shall be deemed as a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions thereof.

SECTION 13. Termination for Default

The performance of the Contract may be terminated by the County in accordance with this clause, in whole or in part, in writing, whenever the County shall determine that the Vendor has failed to meet the requirements as outlined in this Contract.

SECTION 14. Termination for Convenience

The County reserves the right to terminate the Contract in whole or part by giving the Vendor written notice at least thirty (30) days prior to the effective date of the termination. Upon

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receipt of written notice of termination from the County, the Vendor shall only provide those services and/or materials specifically approved or directed by the County. All other rights and duties of the parties under the Contract shall continue during such notice period, and the County shall continue to be responsible to the Vendor for the payment of any obligations to the extent such responsibility has not been excused by breach or default of the Vendor.

SECTION 15. Force Majeure

Neither party of this Contract shall be liable to the other for any cost or damages if the failure to perform the Contract arises out of causes beyond the control and without the fault or negligence of the parties. Such causes may include, but are not restricted to, acts of nature, fires, quarantine restriction, strikes and freight embargoes. In all cases, the failure to perform must be totally beyond the control and without any fault or negligence of the party.

SECTION 16. Access and Audits

The Vendor shall maintain adequate records to justify all charges, expenses, and costs incurred in providing the services and materials for at least three (3) years after completion of this Contract. The County and the Clerk of Courts shall have access to such books, records, and documents as required in this Section for the purpose of inspection or audit during normal business hours, at the County's or the Clerk's cost, upon five (5) days' written notice.

SECTION 17. Vendor Responsibilities

The Vendor will provide the services and materials agreed upon in a timely and professional manner in accordance with specifications.

SECTION 18. Public Emergencies

The Vendor shall agree before, during, and after a public emergency, disaster, hurricane, tornado, flood, or other acts of nature that the County shall require a "First Priority" for services and materials. It is vital and imperative that the majority of citizens are protected from any emergency situation that threatens public health and safety, as determined by the County. The Vendor agrees to sell all materials to and perform all services for the County or governmental entities on a "First Priority" basis. The County expects to pay a fair and reasonable price for all services and materials rendered or contracted in the event of a disaster, emergency, hurricane, tornado or other acts of nature.

SECTION 19. Period of Contract/Option to Extend or Renew

This Contract shall begin on the date of execution and terminate September 30, 2023. The performance period of this Contract may be extended upon mutual written agreement between the

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Vendor and the County with no change in terms or conditions for two (2) additional one (1) year periods. Any extensions shall be signed and approved by both parties sixty (60) days prior to expiration. Any Contract or amendment to the Contract shall be subject to fund availability and mutual written agreement between the County and the Vendor.

SECTION 20. Probationary Period

The first ninety (90) days of this Contract are to be considered a “probationary” period. At the County’s election, this Contract may be terminated, based on the performance of the Vendor, and a new award be granted without another formal bid.

SECTION 21. Supervision

The Vendor shall act as an independent vendor and not as an employee of the County. The County shall not exercise any supervision or control over the Vendor’s employees performing services under this Contract. Such employees shall be accountable not to the County, but solely to the Vendor, who in turn is responsible to the County.

SECTION 22. Indemnification and Insurance

The Vendor shall indemnify and hold harmless the County and its agents and employees from and against all claims, damages, losses and expenses, including attorney’s fees, arising out of or resulting from the performance of this Contract, provided that any such claims, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to loss to or destruction of tangible property, including loss of use resulting therefrom; and is caused in whole or in part by any negligent or willful act or omission of the Vendor and/or Sub-vendor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable.

In any and all claims against the County or any of its agents or employees, by any employee of the Vendor, any Sub-vendor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Vendor or any Sub-vendor under Workers’ Compensation acts, disability benefit acts, or other employee benefits act.

The Vendor shall, and at its sole expense, agree to maintain in full force and effect at all times during the life of this Contract, insurance coverage’s, limits, including endorsements, as described in the *Certificate of Liability Insurance*, a copy of which is attached hereto as Exhibit “1” and made a part hereof. The requirements contained herein, as well as the County’s review or

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acceptance of insurance maintained by the Vendor is not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by the Vendor under the Contract.

SECTION 23. Dispute Resolution

The County may utilize this section, at their discretion, as to disputes regarding Contract interpretation. The County may send a written communication to the Vendor by email, overnight mail, UPS, FedEx, or certified mail. The written notification shall set forth the County’s interpretation of the Contract. A response shall be provided in the same manner prior to the initial meeting with the County Manager. This initial meeting shall take place no more than twenty (20) days from the written notification of the dispute addressed to the Vendor. The Vendor should have a representative, at the meeting that can render a decision on behalf of the Vendor.

If there is no satisfactory resolution as to the interpretation of the contract, the dispute may be submitted to mediation in accordance with mediation rules as established by the Florida Supreme Court. Mediators shall be chosen by the County and the cost of mediation shall be borne by the Vendor. The Vendor shall not stop work during the pendency of mediation or dispute resolution.

SECTION 24. E-Verify System

Effective January 1, 2021, Contractors, shall register with and use the E-Verify System in order to verify the work authorization status of all newly hired employees. Contractor shall register for and utilize the U.S. Department of Homeland Security’s E-Verify System to verify the employment eligibility of:

1. All persons employed by Contractor to perform employment duties within Florida during the term of the Agreement; and
2. All persons (including subvendors/subconsultants/subcontractors) assigned by Contractor to perform work pursuant to the Agreement with Owner. Contractor acknowledges and agrees that registration and use of the U.S. Department of Homeland Security’s E-Verify System during the term of the Agreement is a condition of the Agreement with Owner; and
3. Contractor shall comply with the provisions of Section 448.095, Florida Statutes, “Employment Eligibility”, as amended from time to time. This includes, but is not limited to, registration and utilization of the E-Verify System to verify the work authorization status of all newly hired employees. Contractor shall also execute an affidavit attesting that Contractor does not employ, contract with, or subcontract with, an unauthorized alien. Contractor shall maintain a

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copy of such affidavit for the duration of the Agreement; and

4. Contractor shall also require all subcontractors to execute an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. Contractor shall maintain a copy of such affidavit for the duration of the Agreement.

5. If Owner has a good faith belief that a person or entity with which it is contracting has knowingly violated §448.09(1), Florida Statutes, the Agreement shall be terminated.

6. If Owner has a good faith belief that a subcontractor knowingly violated §448.095(2), but Contractor otherwise complied with §448.095(2), Florida Statutes, shall promptly notify Contractor and order Contractor to immediately terminate the contract with the subcontractor.

7. A contract terminated under subparagraph a) or b) is not a breach of contract and may not be considered as such.

8. Any challenge to termination under this provision must be filed in the Circuit Court no later than twenty (20) calendar days after the date of termination.

9. If the contract is terminated for a violation of the Statute by Contractor, Contractor may not be awarded a public contract for a period of one (1) year after the date of termination.

SECTION 25. Public Records

The County is a public agency subject to Chapter 119, Florida Statutes. IF THE VENDOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE VENDOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT (904) 530-6010, RECORDS@NASSAUCOUNTYFL.COM, 96135 NASSAU PLACE, YULEE, FLORIDA 32097. Under this agreement, to the extent that the Vendor is providing services to the County, and pursuant to section 119.0701, Florida Statutes, the Vendor shall:

a. Keep and maintain public records required by the public agency to perform the service.

b. Upon request from the public agency's custodian of public records, provide the public agency with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

c. Ensure that public records that are exempt or confidential and exempt from public

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records disclosure requirements are not disclosed except as authorized by law for the duration of the Contract term and following completion of the Contract if the Vendor does not transfer the records to the public agency.

d. Upon completion of the Contract, transfer, at no cost, to the public agency all public records in possession of the Vendor or keep and maintain public records required by the public agency to perform the service. If the Vendor transfers all public records to the public agency upon completion of the Contract, the Vendor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Vendor keeps and maintains public records upon completion of the Contract, the Vendor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the public agency, upon request from the public agency's custodian of public records, in a format that is compatible with the information technology systems of the public agency.

SECTION 26. Request for Records; Noncompliance

A request to inspect or copy public records relating to a public agency's contract for materials must be made directly to the public agency. If the public agency does not possess the requested records, the public agency shall immediately notify the Vendor of the request, and the Vendor must provide the records to the public agency or allow the records to be inspected or copied within a reasonable time.

If a Vendor does not comply with the public agency's request for records, the public agency shall enforce the Contract provisions in accordance with the Contract.

A Vendor who fails to provide the public records to the public agency within a reasonable time may be subject to penalties under §119.10, Florida Statutes.

SECTION 27. Civil Action

If a civil action is filed against the Vendor to compel production of public records relating to the Contract, the Court shall assess and award against the Vendor the reasonable costs of enforcement, including reasonable attorney fees if:

- (a) The Court determines that the Vendor unlawfully refused to comply with the public records request within a reasonable time; and
- (b) At least eight (8) business days before filing the action, the plaintiff provided written notice of the public records request, including a statement that the Vendor has not complied with the request, the public agency and to the Vendor.

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A notice complies with subparagraph (b), if it is sent to the public agency's custodian of public records and to the Vendor at the Vendor's address listed on its Contract with the public agency or to the Vendor's registered agent. Such notices must be sent by common carrier delivery service or by registered, Global Express Guaranteed, or certified mail, with postage or shipping paid by the sender and with evidence of delivery, which may be in an electronic format.

A Vendor who complies with a public records request within eight (8) business days after the notice is sent is not liable for the reasonable costs of enforcement.

SECTION 28. Disclosure of Litigation, Investigations, Arbitration or Administrative Decisions

The Vendor, during the term of this Contract, or any extension, has a continual duty to properly disclose to the County Attorney, in writing, upon occurrence, all civil or criminal litigation, arbitration, mediation, or administrative proceeding involving the Vendor. If the existence of the proceeding causes the County concerns that the Vendor's ability or willingness to perform this contract is jeopardized, the Vendor may be required to provide the County with reasonable written assurance to demonstrate the Vendor can perform the terms and conditions of the Contract.

SECTION 29. Entire Agreement

The written terms and provisions of this Contract shall supersede all prior verbal statements of any official or other representative of the County. Such statements shall not be effective or be construed as entering into, or forming a part of, or altering in any manner whatsoever, this Contract or Contract Documents.

IN WITNESS WHEREOF, the parties have executed this Contract which shall be deemed an original on this day and year first above written.

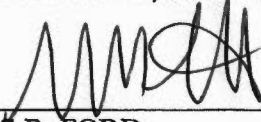
[SIGNATURES CONTAINED ON NEXT PAGE]

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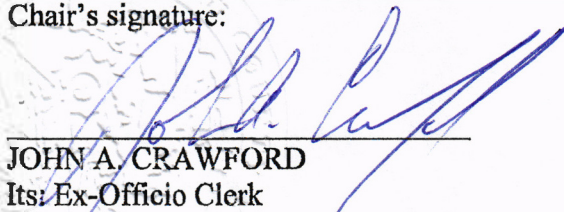
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**BOARD OF COUNTY COMMISSIONERS
NASSAU COUNTY, FLORIDA**



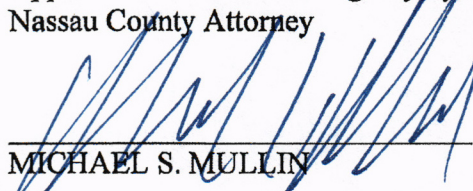
THOMAS R. FORD
Its: Chairman

Attest as to authenticity of the
Chair's signature:



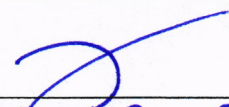
JOHN A. CRAWFORD
Its: Ex-Officio Clerk

Approved as to form and legality by the
Nassau County Attorney

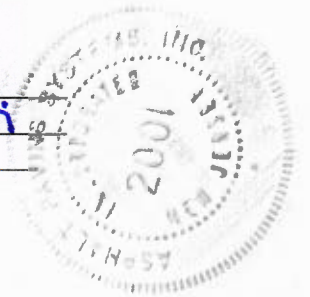


MICHAEL S. MULLIN

Asphalt Paving Systems, Inc.

By: 

Its: President



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ATTACHMENT "A"
TECHNICAL SPECIFICATIONS/SCOPE OF WORK

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.

Description: Chip Seal is a pavement 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 Contract will run from execution through September 30, 2023 with two (2) optional 1-year extensions.

Qualifications:

All contractors and their subcontractors shall be FDOT prequalified in the work classes of drainage, flexible paving, grading, and hot plant-mixed bitum. courses. Subcontractors must be approved by the County and a subcontractor may not assign or subcontract without prior approval from the County. Bidders must submit with the bid a minimum of five (5) Chip Seal project references from a City or County in the State of Florida that have been completed within the past three years. Bidders may be required to submit detailed information regarding the staff that they propose for this project. The Contractor shall be capable of meeting all the requirements of this specification at the time of the bid. The Contractor shall have in their possession, in the State of Florida at the time of bidding, two (2) or more aggregate spreaders and two (2) distributors as described in the equipment section of the specification. Staff shall have the option to inspect the Contractor's equipment and if found deficient, it shall be the basis for rejection of Contractor's bid.

Materials:

Aggregates: Crushed granite conforming to FDOT specifications section 901, table 1 for #89, #78 or #67 gradation for coarse aggregates except as modified herein. The aggregate shall be washed granite obtained from a source approved by the owner. Sampling and testing of aggregate shall be the responsibility of the contractor. Copies of test results from the aggregate supplier shall be furnished to the owner prior to the start of the surface treatment.

All aggregate, #89, #78 and #67 shall be treated prior to application with Emulsified Asphalt Grade CSS-1H at the rate of .4% to .8% residual asphalt. All aggregate, clean broken stone, shall be pre-coated with an asphaltic material prior to the oil and chip process. All of the stone shall have 100% total coverage. A pugmill shall be used to pre-coat the stone. Stone having less than 100% total coverage shall not be used. The emulsified asphalt grade CSS-1H shall coat the entire surface of all of the aggregate. The pre-coating process is to take place at a location that is approved by the County. The County shall approve the pre-coated aggregate before the seal coat process begins.

All costs for the pre-coating and placement of aggregate shall be included in the cost of the items surface treatment CRS-2P and asphaltic pre-coated cover material, clean broken stone.

Payment shall not be made for the surface treatment/pre-coated cover material, clean broken stone unless a representative of the County is present to observe the pre-coating process.

Liquid bituminous material for surface treatment: CRS-2P liquid bituminous material conforming to AASHTO M 316-99. When CRS-2P is specified apply the following modifications:

- a.) Distill the CRS-2P at 400°F for 20 min. and
- b.) Provide Polymer-Modified Cationic Emulsified Asphalt, CRS-2P produced by using polymer modified base asphalt only. The emulsion shall be pumpable and suitable for application through a distributor truck.

The Cationic mixing grade shall be homogenous and of high quality. The material shall be prepared from straight-run Venezuelan Asphalt of high ductility and shall contain a rubber hydrocarbon additive derived from latex in addition to carefully controlled amounts of selected diluents to promote work ability and minimize stripping. Additives that enhance pavement performance are subject to approval by the County. The polymer material shall be co-milled into the asphalt or added to the emulsifier solution prior to the emulsification process. The amount of polymer modifier shall not be less than 3.0% polymer solids based on the asphalt content (by weight) and will be certified by the emulsified asphalt supplier.

Cationic Asphalt Emulsion

Material Designation		
Test on Emulsion:	Minimum	Maximum
Viscosity, Saybolt Furol, 77 degrees F (25 C), s	---	---
Viscosity, Saybolt, 122 degrees F (50 C), s	100	400
Demulsibility, 35ml, 0.8 percent DSS, %	70	-
Sieve Test, %	-	0.1
Storage Stability	-	1
Residue by Distillation, 350°F max, %	65	---
Oil distillate, % by volume of emulsion	---	0.5
Residue Test, ASTM D 244 Low Temp	Minimum	Maximum
Penetration, 77°F, 100gr, 5 sec	70	150
Elastic Recovery, ASTM D 6084, method B, 77°F, 5 cm/min, %	50	-
Softening Point, °F	125	-
Solubility in Trichloroethylene, %	97.0	-

Material Samples:

The County will require the Contractor to sample and test each load of emulsion prior to delivery. The Contractor will also provide a sample of the emulsion, on site, prior to commencing work. The County will require the Contractor to provide sample containers and a local Independent testing laboratory with no affiliation to the emulsion supplier for the analyzing of emulsion. The Contractor will be responsible for the cost of the testing. The County reserves the right to test any shipment of emulsion that is believed to be of substandard. All samples shall be shipped and stored in clean airtight sealed wide mouth jars or bottles made of plastic.

Equipment:**Distributor:**

The liquid bituminous material shall be applied with a truck mounted, pressure distributor that has been calibrated within the previous twelve (12) months, for transverse and longitudinal application rate. The distributor shall be equipped, maintained and operated so that the bituminous material can be applied at controlled temperatures and rates from .035 to 1.5 gallons per square yard. The distributor shall be capable of applying bituminous material of variable widths up to sixteen (16) feet. The distributor shall uniformly apply the bituminous material to the specified rate with a maximum allowed variation of 0.015 gallons per square yard. Distributor equipment shall include tachometer, accurate volume measuring device, a calibrated tank and a thermometer for measuring the temperature of the tank's contents. Distributors shall be equipped with a heating device, asphalt pump and full circulating spray bars adjustable laterally and vertically. Distributors and transport trailers shall be equipped with a sampling valve. Distributor trucks shall be of the pressure type with insulated tanks. The use of gravity distributors will not be permitted. The valves shall be operated by levers so that one or all valves may be quickly opened or closed in one operation. The valves which control the flow from nozzles shall act positively so as to provide a uniform unbroken spread of bituminous material on the surface. The distributor shall be equipped with devices and charts to provide for accurate and rapid determination and control of the amount of bituminous material being applied and with a bitumeter of the auxiliary wheel type registering speed in feet per minute, and trip and total distance in feet. Two distributor trucks will be required on all projects.

Aggregate Spreader:

The aggregate spreader shall be a self-propelled unit capable of uniformly spreading the aggregate at the required rate on a minimum width of six (6") inches wider than the width of the lane to be treated. The spreader shall be calibrated within the previous twelve (12) months for transverse and longitudinal application. The spreader shall be capable of extending to a width of 22 feet. The spreader shall be equipped with a computer-controlled aggregate/chip spreader in order to ensure the appropriate aggregate coverage at varying speeds, unless approved otherwise by Engineer.

Rollers:

The contractor shall use one, ten (10) ton steel wheeled roller and two, eight (8) to twelve (12) ton self-propelled pneumatic tire rollers with oscillating wheels and low pressure, smooth tires. Maintain the inflation of the tires such that in no two tires the air pressure varies more than 5 psi. The rollers will be equipped with an operating water system and coco pads. A sufficient number of rollers and a sufficient number of passes shall be used to ensure cover aggregate is properly rolled.

Self-Propelled Rotary Power Broom:

The self-propelled rotary broom shall be designed, equipped, maintained and operated so the pavement surface can be swept clean. The broom shall have an adjustment to control the downward pressure.

Additional equipment:

Additional equipment will be needed to complete the operations required by this technical provision. All equipment necessary for the successful completion of projects governed by this technical provision shall be included in the unit costs associated herein. Availability of quality assurance devices (such as a 10' straight edge) shall be the responsibility of the Contractor.

Experience:

All contractors and their subcontractors shall be FDOT prequalified in the work classes of drainage, flexible paving, grading, and hot plant-mixed bitum. courses. Bidders must submit with the bid a minimum of five (5) Chip Seal project references from a City or County in the State of Florida that have been completed within the past three years. Bidders may be required to submit detailed information regarding the staff that they propose for this project. The Contractor shall be capable of meeting all the requirements of this specification at the time of the bid. The Contractor shall have in their possession, in the State of Florida at the time of bidding, two (2) or more aggregate spreaders and two (2) distributors as described in the equipment section of the specification. Staff shall have the option to inspect the Contractor's equipment and if found deficient, it shall be the basis for rejection of Contractor's bid.

Construction:**Layout:**

The Contractor will be responsible for the string lining and lay out of the roadway prior to paving.

Weather and Seasonal limitations:

The surface treatment shall not be applied to a wet surface or when rain is occurring or the threat of rain is present immediately before placement. The surface treatment shall not be applied when the temperature is less than 50 degrees Fahrenheit in the shade. When applying emulsions, the temperature of the surface shall be a minimum of 55°F, and no more than 140°F.

Preparation of Surface:

The chip seal material shall be placed on a firm unyielding prepared roadway. The Contractor shall be responsible for clipping back shoulders and removing overburden or any other vegetation or debris to ensure that the road is free of organic and deleterious material. The contractor will be responsible for blowing or sweeping the road immediately ahead of the chip seal operation to make sure the road is free of loose aggregate and other debris.

Application of bituminous material:

Liquid bituminous material shall be applied by means of a pressure type distributor in a uniform, continuous spread over the section to be treated. The distributor shall be moving forward at the proper speed when the liquid is discharged onto the pavement to provide an even and consistent application at the rate prescribed. If any areas are deficient the operation shall be stopped and corrected immediately. The liquid shall not be applied more than two hundred (200') feet in advance of the aggregate spreader when the ambient air temperature is above 75 degrees or one hundred (100') feet if the air temperature is below 75 degrees.

1. **Single Chip Seal:** Application of the liquid bituminous material shall be applied at a rate of .38 -.45 gallons per square yard depending on the composition of the existing roadbed, surface texture and the size of the aggregate in use.
2. **Double Chip Seal:** The second application of liquid bituminous material shall be applied at a rate of .38 - .42 gallons per square yard depending upon the size of the first layer of aggregate that the liquid is sprayed upon and the size of the aggregate being placed over the first application of surface treatment.
3. **Triple Chip Seal:** The third application of liquid bituminous material shall be applied at a rate of .32 - .38 gallons per square yard depending upon the size of the first two layers of aggregate that the liquid is sprayed upon and the size of the aggregate being placed over the first and second

applications of surface treatment.

Application of cover Aggregate:

Immediately following the spray application of the liquid bituminous material, cover aggregate shall be spread over the liquid material at a rate of 18 – 30 lbs. square yard depending upon the type of road base and/or the size of the existing aggregate that is being resurfaced.

Rolling:

Immediately following the first application of the cover material, roll the entire surface with a pneumatic roller, followed immediately with the steel drum roller. Cover the entire surface one time with the steel drum roller. Then, roll the cover material again with the pneumatic roller. Continue rolling as long as necessary to ensure thorough keying of the cover aggregate into the liquid bituminous material. Eliminate the steel drum when rolling the second application of cover aggregate. Apply the second application of liquid and cover material the same day as the first application, as far as it is practicable and consistent with the setting of the liquid bituminous material.

Sweeping:

After rolling of the first application of cover aggregate, lightly broom the loose aggregate in a manner not to dislodge the aggregate embedded in the liquid. Sweep loose material from roadbed. Following second application again broom loose aggregate from the roadbed prior to the application of the fog seal. If temperatures exceed 85 degrees, it may be necessary to wait 24 hours before sweeping the first application of chip seal.

Fog Seal:

Upon direction from the engineer, fog seal is to be applied as a separate pay item. When surface treatment has set, a fog seal is to be applied at a rate of .1 to .15 gallons per square yard to the entire surface treatment. The liquid for fog seal shall be a cationic mixing type emulsion diluted forty (40%) percent with water. If sanding is needed, the fog seal shall be lightly sanded at a rate of plus or minus two (2) pounds per square yard by means of a mechanical spreader.

General Performance:

Provide completed pavement which performs to the satisfaction of the engineer without bleeding, rutting, shoving, raveling, stripping, or showing other types of pavement distress or unsatisfactory performance.

Traffic Control:

The **Contractor** shall furnish all necessary traffic control, barricades, signs and flagmen, to ensure the safety of the traveling public and to all working personnel. Traffic shall not travel on fresh mix until rolling and blotting has been completed. The Contractor shall submit an M.O.T plan indicating all facets of traffic control for the project area. The MOT plan must be approved in writing by the County prior to commencing any work. All traffic control shall be in accordance with the FDOT Roadway Design Standards, most current edition and TP-102. M.O.T. and associated devices shall be checked daily and periodically throughout the project for compliance; and where adjustments or corrections are needed, prompt revisions shall be made.

Method of Measurement:

If a pay item is listed on the Bid Form for work required in this Technical Provision, the quantity to be paid shall be as specified in the Bid Form including all items of work described herein. Any item necessary for Chip Seal, and not specifically listed in another item in the Bid Form, shall be included in this item. Should the contractor be directed to place Fog Seal as a secondary application to Chip Seal, it shall be measured separately as listed in the Technical Provision for Fog Seal

Basis of Payment:

The quantities to be paid for under this Technical Provision shall be included in the Square Yard price for Chip Seal (Single application), Chip Seal (Double application) or Chip Seal (Triple application) as listed in the Bid Form. The Unit price includes all items listed in the contract, including all General Conditions, Special Conditions and Technical Provisions pertaining to Chip Seal, including all items of work described herein. No additional payment will be provided for any item necessary for the completion of this contract as detailed in the specifications, except that at the direction of the County, Fog Seal shall be applied and paid separately as listed in the Technical Provision for Fog Seal.

Cape Seal will be the combined price per SY of a Single Chip Seal and a Double Micro-surface.

Cape Seal Applications:

4. For Cape Seal applications a Single Chip Seal with #89 stone (treated with CSS-1H) aggregate will be applied to the roadway. After sweeping the single chip seal in 24 to 48 hours a double micro-surface 30-34 lbs./SY will be applied in one lift. (See Micro-surfacing Specifications and warranty)

**ATTACHMENT "B"
RESPONSE PRICE SHEET**

#	DESCRIPTION	UNITS	UNIT COST
1	MOBILIZATION/DEMOBILIZATION	EA	\$7,500.00
2	MAINTENANCE OF TRAFFIC	PCT	2%
3	SINGLE APPLICATION CHIP SEAL	SY	\$3.20
4	DOUBLE APPLICATION CHIP SEAL	SY	\$4.30
5	TRIPLE APPLICATION CHIP SEAL	SY	\$5.45
6	EMULSION (PRIME FOR BASE-INCLUDING SAND)	GAL	\$3.05
7	EMULSION FOR FOG SEAL (APPLICATION RATE .18-.22 GAL/SY)	GAL	\$3.00
8	CHIP SEAL DRIVEWAYS (HANDWORK TO EDGE OF RIGHT-OF-WAY)	EA	\$300.00
9	CAPE SEAL APPLICATION	SY	\$6.80

