

BID #20-1

PARKING LOT ASPHALT PAVEMENT CRACK FILLING -2019

SECTION "C" TECHNICAL SPECIFICATIONS

OWNER

Board of Trustees
Middlesex County College
2600 Woodbridge Avenue
P.O. Box 3050
Edison, New Jersey 08818-3050

PREPARED BY

Randolph R. Larate
Director, Facilities Engineering
(732) 906-7780
(732) 906-4199 Fax

January 30, 2019

NOTE: THIS DOCUMENT IS FOR INFORMATIONAL PURPOSES ONLY. THIS IS NOT AN OFFICIAL BID DOCUMENT.

SECTION C - TECHNICAL SPECIFICATIONS

TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
1.	Scope of Work	C-3
2.	Materials, Installation / Execution.....	C-4
3.	Compliance	C-6
4.	Site Clean-up	C-6
5.	Time Constraints	C-6
6.	Work Hours	C-7
7.	Warranty	C-7
8.	Additional Information	C-7

NOTE: THIS DOCUMENT IS FOR INFORMATIONAL PURPOSES ONLY. THIS IS NOT AN OFFICIAL BID DOCUMENT.

1. **SCOPE OF WORK**

- 1-1 The purpose of these specifications is the completion of an asphalt crack filling contract. This work will be performed on the main Middlesex County College (MCC) Campus in Edison, New Jersey.
- 1-2 The contractor shall provide all of the necessary labor, materials, tools and equipment required to complete the work described on the drawing and in these specifications.
- 1-3 Work required under this contract shall potentially be performed at six (6) parking lots on Campus. A total of up to 25,000 linear feet of asphalt cracks shall be filled. The location of cracks to be filled will be as directed by the Engineer. The Parking Lots involved are Lot #5, Lot #6A, Lot #7, Lot #8, Lot #10 and Lot #16. These areas are identified on the Campus Site Plan.
- 1-4 At least one week prior to crack filling, but not more than two weeks, MCC personnel will treat any vegetation in cracks with a herbicide.
- 1-5 Payment for crack sealing will be based on the actual linear footage of crack sealed regardless of depth, width or number of passes required. Payment will be made for the actual linear feet of cracks filled up to the total of 25,000 linear feet at the unit cost bid.
- 1-6 Final payment will not be made until all work is completed and all close-out documents are received.
- 1-7 The contractor shall be required to attend a pre-construction meeting on Campus at a time to be scheduled after the contract is awarded and other job progress meetings as required by the College.

Contract drawings

The following is a list of drawings that are attached and are a part of these specifications and contract:

CAMPUS SITE PLAN AND DIRECTORY
(See shaded areas on drawing)

2. **MATERIALS & INSTALLATION**

- 2-1 Materials used under this contract shall be as listed in the specifications, be of a quality acceptable to the Engineer and meet applicable codes.
- 2-2 The following materials, equipment and procedures shall be considered as being part of these specifications and shall govern the construction of this project:
- a. Cracks to be filled shall be a minimum of ¼" wide to a maximum of 1 ½" wide. Overbanding shall not exceed 3" wide and shall not exceed 1/16" high above the pavement surface.
 - b. Before sealant application, cracks must be cleaned of all extraneous matter using steel wire wheel equipment. Just prior to the sealant application, final cleaning shall be done using high pressure dry, oil free compressed air. The contact faces of the crack shall be dry at the time of material application. If more than one application of sealant material is required to seal the cracks, the following application shall be made immediately after shrinkage of the previously installed material.
 - c. The hot applied crack and joint sealant shall be Crafcoc, Inc. Parking Lot Sealant Type 2 (P/N 34200) or equal. An oil jacketed double boiler type melter shall be used. The sealant material shall be suitable for use in this type melter. Direct heat will not be permitted.
 - d. The melter / applicator unit shall be self-contained double boiler device with the transmittal of heat through heat transfer oil. It must be equipped with an on board automatic heat controlling device to permit the attainment of a predetermined temperature, then, maintain that temperature as long as required. The unit shall also have a means to vigorously and continuously agitate the sealant. The sealant shall be applied to the pavement under pressure supplied by a gear pump with a direct connecting applicator tip. The pump shall have sufficient pressure to dispense the sealant at a rate of at least three gallons per minute. The use of a pour pot will not be permitted. Excess sealing material spilled on the surface of the pavement shall be removed immediately in a manner that will not damage the asphalt surface.

- e. A sealant / finisher, Crafcoc, Inc. DeTack (P/N 34691), or equal, shall be applied on top of the sealant.
- f. All material to be applied shall be done so in accordance with the manufacturer's recommendations / installation instructions.

2-3 MISCELLANEOUS

- a. Please note that the College will be in full operational status during this project. Extra caution must be taken regarding safety. All work shall be done in sections so as to allow for vehicular and pedestrian traffic to pass safely or to detour reasonably and safely without adversely affecting the College's ongoing operations.
- b. An area work schedule shall be submitted to the college in advance and revised as necessary as time and work progresses. The College shall be notified at least 24 hours in advance of scheduled work in designated areas.
- c. The contractor shall provide all necessary traffic cones, barricades, signage, etc. to identify work areas and hazards. The contractor shall also provide appropriate manpower to direct traffic both vehicular and pedestrian. The Middlesex County College Police Department will not provide traffic control services.
- d. The contractor will be required to restore any lawn area disturbed or damaged.
- e. The contractor will be responsible for replacing any line striping and handicap logos in areas covered by the crack filling material with appropriate color paint. The paint used shall be traffic paint by INSL-X or equal. The "Staff Green" color is a custom mix. MCC will provide contractor with color samples or paint identification.
- f. At least one week prior to crack filling, but not more than two weeks, MCC personnel will treat any vegetation in cracks with a herbicide.

3. **COMPLIANCE**

3-1 The Contractor shall comply with all of the College's safety and work rules when performing work at the college. All contractor employees, subcontractors, etc., shall sign-in daily at the Facilities Management Building upon arrival on Campus to be issued a contractors identification badge. It is expected that all contractor employees will conduct themselves in a professional manner.

3-2 Middlesex County College is a smoke-free campus. Smoking is only permitted inside a person's personal vehicle. Smoking is not permitted anywhere else on Campus or in any construction equipment. The College Police will issue summonses with fines to anyone found in violation of this policy.

4. **SITE CLEANUP**

4-1 The work area shall be cleaned on a daily basis. Any items remaining shall be secured and surrounded with safety tape and/or barriers. Any damage caused by the contractor shall be repaired at no cost to the college.

4-2 The contractor is to remove all trash, excavated materials, and other waste off site and disposed of it in accordance with current regulations. The cost for the testing of any materials prior to the removal from the Campus as required by regulatory agencies is the responsibility of the contractor.

5. **TIME CONSTRAINTS**

5-1 If the Board of Trustees of Middlesex County College has approved an award at least 10 days prior to March 29, 2019, the contractor shall begin work as soon as Notice of Award is received but **not before May 24, 2019**. All work must be completed by August 5, 2019. If the Board has not approved the award by at least 10 days prior to March 29, 2019, then the College will advise the contractor of an alternate start date.

6. WORK HOURS

6-1 All work is to be performed during normal work hours 8:00 am to 4:30 pm, Monday through Friday. If additional work hours are required to complete all work in the work period specified, they shall be included in the contractor's bid price. Approval of the College shall be requested by the contractor in writing 48 hours prior to the desired work date.

6-2 The work hours in this Section take precedent over, and will supercede any conflicting references to hours of work elsewhere in these plans and specifications.

7. WARRANTY

7-1 All materials and workmanship shall be guaranteed to be free of defects and deficiencies for a period of one year from the date of final payment. Defects in the work during the one year period will be remedied by the Contractor at no cost to MCC.

8. ADDITIONAL INFORMATION

8-1 Additional information may be obtained from the following individuals:

Facility/Specifications:

Randolph R. Larate
Director, Facilities
Engineering
732-906-7780
732-906-4199 Fax

Proposal:

David Fricke
Director of Purchasing
732-906-2519
732-906-4236 Fax

NOTE: THIS DOCUMENT IS FOR INFORMATIONAL PURPOSES ONLY. THIS IS NOT AN OFFICIAL BID DOCUMENT.

