

BID #16-45

REPAIR OF SELECTED CAMPUS CURBLINES and STORM SEWERS

OWNER

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

PREPARED BY

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SECTION C - TECHNICAL SPECIFICATIONS

TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
1.	Scope of Work .....	C-3-6
2.	Materials, Installation / Execution.....	C-6-9
3.	Miscellaneous .....	C-9
4.	Compliance .....	C-10
5.	Site cleanup .....	C-11
6.	Time Constraints .....	C-11
7.	Work Hours .....	C-11
8.	Additional Information .....	C-12

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## **1. SCOPE OF WORK**

The purpose of these specifications is the completion of a walkway and roadway repair contract. This work will be performed on the main Middlesex County College (MCC) campus in Edison, New Jersey.

The contractor shall provide all of the necessary labor, materials, tools and equipment required to complete the work described on the drawings and in these specifications.

Work required under this contract shall be performed at six (6) separate areas on Campus. These areas are identified on the Campus Site Plan.(separate sheet)

**A. AREA:** Storm Sewer Rebuild & Replace **Grate & Frame** to Comply with NJ Storm water regulations:

Cut remove and replace, perimeter asphalt approximately 12" around perimeter(saw cut)surface course around rim of storm sewer approximately 28" x 54" Remove, rebuild all walls surrounding existing storm sewer (approximately 14" deep)and replace top grate & grate housing 21 ¾" x 47 ¾" with a "NJ Bike Safe" replacement grate according to NJ Storm water guidelines.



**B. AREA:** Replace Top Curb Piece: Replace with "NJ Storm Water" Curb Piece 6" (height) the curb piece length 49 ½"



**C. AREA:** Remove and replace damaged curb area lower entrance parking lot#1. Approximate size 12'. Saw cut blacktop and replace existing section with minimum of 4" amount of blacktop and tack coat joints.



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**D. AREA:** Top portion Curb line Parking Lot#2/College Drive East. Remove 20' linear feet of deteriorated concrete curb and replace with new concrete curb. Saw cut blacktop 12' along roadside and replace with 4" blacktop, tack coat to all existing surface.



**E. AREA:** Parkside Drive & Parking Lot #1: Remove 85' linear feet of deteriorated concrete curb and replace with new concrete curb. Replace EXISTING Handicapped Curb-cut (same size). Saw cut & restore 12" blacktop along roadside tack coat joints and install (arrow) ADA tile by cutting into existing blacktop and installing a concrete pad to accept the cast-in-place ADA tile.. Seal & secure tile to ensure no trip hazard.



ADA DETECTABLE WARNING TILES

Where applicable, new walkways shall have ADA compliant ramps incorporated including a **"Detectable Warning Tile"**. The tile is to be a "Tactical System" Armor-Tile™ unit by Engineered Plastics, Inc., 300 International Drive, Suite 100, Williamsville, NY 14221 (800)-682-2525 [www.armor-tile.com](http://www.armor-tile.com) or equal. Color of tile (Dark Grey #36118) to be approved by College.. Contractor to provide color sample before installation for approval.

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**F.AREA** Parking Lot #1"B" (adjacent to Mill Road):

Remove existing concrete curb sections approximately 27' and replace. Restore blacktop along parking lot, saw cut along blacktop 12" remove and replace with a minimum of 4" blacktop, tack coat all joints.



**2. MATERIALS & INSTALLATION**

The following standard specifications, as outlines, shall be considered as being part of these specifications and shall govern the construction of this project except where otherwise modified:

Standard Specifications for Road and Bridge Construction of State of New Jersey, Sections 200 to 900, 1989 edition.

- a. Wherever the terms "Department" or "Commissioner" are used in the Standard Specification, the Contractor shall construe such term to mean the Owner.
- b. Wherever Section numbers are listed, they refer to the Standard Specifications unless otherwise specified.

COMPLETE PAVEMENT REPLACEMENT (Excavation, compaction, aggregate base, stabilized base course, surface course)  
The locations, to be completely removed and replaced with asphalt paving are to have the surface course and the bituminous base course removed to the soil, have the soil compacted, and have dense graded aggregate, stabilized base course, and bituminous surface course installed in accordance with these specifications.

Pavement replacement shall include the cutting, excavation, removal and replacement of pavement in accordance with the type and thickness specified and shall be constructed to match the existing grades.

All replacement or repair of roadways and paving shall conform to Township, County or State ordinances and applicable requirements of the Standard Specifications.

At any location where curbing is removed, the adjacent paving is to be saw-cut and repaired to match the surrounding surfaces.

BITUMINOUS CONCRETE SURFACE COURSE, TACK COAT AND PRIME COAT

This work shall consist of the construction of a surface course of bituminous concrete. The bituminous concrete surface course shall be I-5 mix in accordance with Section 404.02.

The construction shall be in accordance with Sections 404.12 through 404.19. Traffic will not be allowed on newly finished surfaces prior to their completion.

The thickness of the surface course shall be a minimum of 2". The actual thickness will be determined by the requirement to match the existing adjacent elevations.

A Prime Coat and a Tack Coat shall be applied in accordance with Section 404.13. Materials to be asphaltic oil grade MC-30.

TOPSOIL, SEED AND FERTILIZER:

Place topsoil at a minimum of 4" over all disturbed areas that are not to be paved including surface restoration along the sides of paving areas. The topsoil shall be clean and free of roots, stones, clay, or any other undesirable material. It shall consist of at least 5% organic matter, conform to a PH acidity range of 5.0 to 7.0, and have similar soil characteristics to those found on the site. The contractor shall have the top soil tested to determine its characteristics. The test results shall be submitted to the College for approval prior to delivery.

Topsoil shall be spread evenly and the area is to be compacted or rolled with a 200# roller so as to produce a compact soil condition. Topsoil shall not be spread in a frozen or muddy condition. The finished surface shall conform to the existing lawn areas and be free from hollows, inequalities, or other extraneous matter.

Fertilizer, equivalent to a starter type shall be applied at a rate of 44# per 10,000 sq. ft. It shall be evenly spread and raked in uniformly. Ground limestone shall be evenly distributed in an amount related to the PH and worked lightly into the top 3" of soil.

Lawn areas are to be seeded at the rate of 5# per 1,000 sq. ft., sown in a uniform application method and lightly raked into the surface.

Lawn seed shall consist of two or more superior varieties of tall type fescue of at least 60%, one variety of Kentucky bluegrass of at least 10%, and 30% of a superior perennial ryegrass, Pennfine, or equivalent. The turf seed label shall be submitted for approval by the College prior to seeding.

All seeded areas shall be mulched immediately after seeding with either weed free straw, salt hay, or wood fiber. Apply at the rate of 2 tons per acre and anchor using a liquid mulch binder.

Adequate protection shall be provided at all times for lawns areas against trespassing and damage of any kind after completion of the work.

## CATCH BASINS

Stormwater catch basin "Curb-Opening Inlets" to be replaced must meet the requirements of New Jersey Administrative Code (N.J.A.C.) 7:8. Basin grates to be replaced shall meet NJDOT "Bicycle Safe" grate specifications (Chapter 2.4 of NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines. High impact 24" x 24" plastic storm water catch basins may be installed in grass areas where basin is not to be located over an existing concrete storm water pipe. These catch basins / grates shall be Part No. 2400 and 2412 as manufactured by NDS, Inc., 851 North Harvard Ave. Lindsay, CA 93247, 1-800-726-1994, [www.ndspro.com](http://www.ndspro.com), with connection fittings, or equal.

### 3. MISCELLANEOUS

- a. Please note that the College will be in full operational status during construction. Extra caution must be taken regarding safety. All walkway and roadway 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.
- d. The contractor will be required to restore any lawn area disturbed or damaged.

#### 4. COMPLIANCE

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 contractor's identification badge. It is expected that all contractor employees will conduct themselves in a professional manner.

Prior to performing any excavation work, the contractor shall call for a utility markout AND notify the College. Public utilities will be marked out by the appropriate utility and MCC personnel will mark out the College utilities.

The College Campus in Edison, New Jersey is located on a section of the Former Raritan Arsenal (FRA) which operated from 1918 through 1963. The Army Corps of Engineers (ACE) has completed investigations and remediation activities related to unexploded ordnance (UXO) materials on the Campus. While there are no known UXOs at this time, there remains a possibility that they can be discovered when excavating on Campus. The ACE has provided an information safety sheet which advises anyone excavating on the FRA to practice the "3R's". They are **Recognize, Retreat and Report**. If any material is discovered that appears to be ordnance, the contractor shall immediately stop work, leave the area, call 911, and notify the College. A procedure has been established for emergency responders and military personnel to safely address such a situation.

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.

Unless otherwise specified, all work is to be done in accordance with the NJDOT Standard Specifications for Road and Bridge Construction, 1989.

**5. SITE CLEANUP**

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.

The contractor is to remove all trash, excavated materials, and other waste off site and disposed of it in accordance with current regulations. Provide the college with weight tickets for any materials that can be recycled. 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.

**6. TIME CONSTRAINTS**

If the Board of Trustees of Middlesex County College has approved an award at least 10 days prior to May 19, 2016, the contractor shall begin work as soon as Notice of Award is received from the College. All work must be completed by June 30, 2016. If the Board has not approved the award by at least 10 days prior to May 19, 2016, then the College will advise the contractor of an alternate start date.

**7. WORK HOURS**

All work is to be performed during normal work hours 7:00 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.

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

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**8. ADDITIONAL INFORMATION**

Additional information may be obtained from the following individuals:

Facility/Specifications:

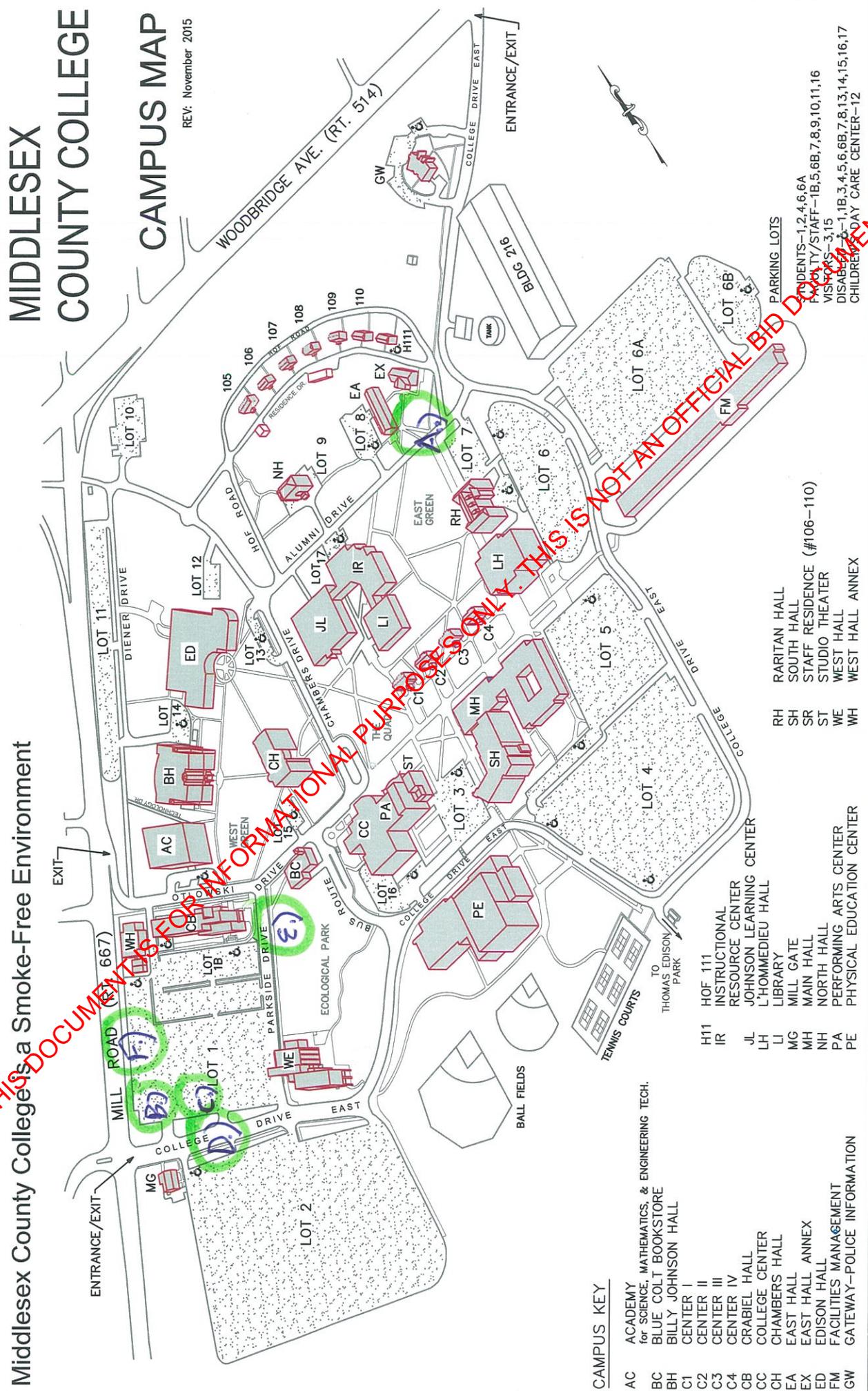
Ronald M. Balint  
Associate Director Buildings & Grounds  
732-906-4171  
732-906-4199 Fax  
E mail:  
Rbalint@middlesexcc.edu

Proposal:

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

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# Curbline / Sewer Repairs : May 2016



## MIDDLESEX COUNTY COLLEGE CAMPUS MAP

REV. November 2015

Middlesex County College is a Smoke-Free Environment

### CAMPUS KEY

- AC ACADEMY for SCIENCE, MATHEMATICS, & ENGINEERING TECH.
- BC BLUE COLT BOOKSTORE
- BH BILLY JOHNSON HALL
- C1 CENTER I
- C2 CENTER II
- C3 CENTER III
- C4 CENTER IV
- CB CRABIEL HALL
- CC COLLEGE CENTER
- CH CHAMBERS HALL
- EA EAST HALL
- EX EAST HALL ANNEX
- ED EDISON HALL
- FM FACILITIES MANAGEMENT
- GW GATEWAY-POLICE INFORMATION

- H11 HOF 111
- IR INSTRUCTIONAL RESOURCE CENTER
- JL JOHNSON LEARNING CENTER
- LH L'HOMMEDIEU HALL
- LI LIBRARY
- MG MILL GATE
- MH MAIN HALL
- NH NORTH HALL
- PA PERFORMING ARTS CENTER
- PE PHYSICAL EDUCATION CENTER

- RH RARITAN HALL
- SH SOUTH HALL
- SR STAFF RESIDENCE (#106-110)
- ST STUDIO THEATER
- WE WEST HALL
- WH WEST HALL ANNEX

- PARKING LOTS
- STUDENTS-1,2,4,6,6A
- FACULTY/STAFF-1B,5,6B,7,8,9,10,11,16
- VISITORS-3,15
- DISABLED-1,1B,3,4,5,6,6B,7,8,13,14,15,16,17
- CHILDREN-DAY CARE CENTER-12

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