

BID # 16-15

College Center - EXTERIOR DOOR REPLACEMENT

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

**Daniel J. Fuchs
Associate Director, Buildings and Systems
(732) 906-4670
Fax (732) 906-4199**

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SECTION C - TECHNICAL SPECIFICATIONS

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1. SCOPE OF WORK

The purpose of these specifications is the completion of a contract. This work will be performed at the main Middlesex County College campus in Edison, New Jersey, at the College Center building.

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 as follows:

- a. Remove and dispose of exterior doors and hardware **only**, at entrance No's 28A & 29A (see drawing SECOND FLOOR PLAN A-3) and Entrance 1A (see drawing FIRST FLOOR PLAN A-2). All entrances are located at the College Center building.
- b. Prepare all openings. Clean concrete and patch where existing closer pots were located. The new entrance doors will replace the old pairs, in the same exact locations. The existing door jambs are to remain. The contractor shall field measure and confirm the opening size for each entrance.
- c. Install 3 new sets of doors as described in Entrance 29A and 28A (exterior) and 2 new sets in Vestibule B113A (exterior).

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.

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

- CAMPUS SITE PLAN**
- COLLEGE CENTER- FIRST FLOOR PLAN A-2**
- COLLEGE CENTER- SECOND FLOOR PLAN A-3**

2. MATERIALS

The materials used under this contract shall be as specified on the drawings and in the specifications, be of a quality acceptable to the College and meet applicable codes.

The basis of design for the materials to be used are as follows:

Manufacturer listed below or equal.

REBCO Incorporated

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Paterson, NJ
1-800-777-0787

2.1. DOOR DESIGN

- a. SUPER STRENGTH SERIES "S" - Narrow Stile Door – Standard door thickness of 1-3/4" with 2" vertical stiles, 2-3/4" top horizontal rail and 10" bottom horizontal rail.
- b. Configurations: All pairs of doors shall swing out.
- c. Materials:
Sections shall be extruded 6063-T5 aluminum alloy and temper suitable for special anodic finishing. Tubular portions of door stiles and rails shall be a nominal .125" thickness and glazing molding shall be .050" in thickness. Material dimensions are subject to normal aluminum extrusion tolerances.

2.2. WORKMANSHIP –

Doors shall be completely factory assembled, mortised for hardware and prepped for glass required. Corners of doors shall be accurately joined and fitted with a flush hairline joint. Doors shall be of triple reinforced construction having reinforced anchor blocks, coin punched, interlocked into the top and bottom rails, bolted to the stiles and secured in place with dome lock washers, then welded at the top and underside of each corner. The weld shall thoroughly penetrate the material and produce a complete fusion of metal between stiles and rails. All welding shall be on unexposed surfaces to prevent pitting, discoloration, weld halo or other surface imperfections. No mechanical joints will be permitted. Glazing of doors shall be of E.P.D.M. or of vinyl type gasket. No screws shall be needed to secure glazing stops in place. Lock stiles for pairs of door shall be two-piece with adjustable nosing and rubber grommets for ease of adjustment. Meeting stiles at pairs of doors shall each have adjustable two piece nosing and stile, one of which shall have two continuous weather piles for maximum weathering between doors. Doors shall be equipped with top rail adjustment screws for minor field adjustments after installation. All fasteners for push and pull hardware shall be stainless steel. Butt hinges shall be full mortise, non-ferrous ball bearing hinges.

2.3 PERFORMANCE

Entrance units shall meet the following performance criteria: (Testing procedures and certified test results are to be provided with bid).

Air Infiltration:

For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 6.24 psf for single doors and 1.57 psf for pairs of doors. A single 3'0" x 7'0" entrance door and frame shall not exceed 0.05 cfm per linear foot of perimeter crack. A pair of 6'0" x 7'0" entrance doors and frame shall not exceed 1.0 cfm per linear foot of perimeter crack. Blade gasket strip in an aluminum extrusion shall be applied to the exterior surface of the bottom rail with exposed fasteners necessary to meet the specified performance test results.

Structural Uniform Load Test:

Single doors: 90 psf

Pair of doors: 60 psf

Forced Entry Resistance: 300 lbs. inward and outward without failure.

2.4 FINISH

All exposed surfaces including the edges of stiles shall be finished. Finishes of doors will be dark bronze anodized.

2.5 GLAZING MATERIAL:

Glass shall be ¼ inch safety glass in accordance with ANSI Z97.1.

Glass is to be tinted Bronze in color.

2.6 HARDWARE

Hardware for aluminum entrance doors shall be furnished and installed by the door manufacturer and shall include the following items: Push-Pull Hardware, panic bars, Security Deadlock with Cylinders, Flush Bolts, Continuous Hinges, Thresholds, and Overhead Surface Closer.

- a. Locking/Unlocking arrangement to be a mortise key cylinder operated hook lock mounted on the exterior of the active door. **Lock Cylinder is to accept Schlage model 1246 core to be provided by the College.**
- b. Weather Stripping to be along the perimeter all door panels to reduce energy loss. Standard weather stripping includes the following:
 1. Adjustable nylon sweep in the bottom of sliding door(s)

2. Double pile weather stripping on the strike rail of sliding door(s)
3. Single pile weather stripping at the following locations: Head and jambs.
 - c. Hinges are to be continuous type. Full mortise # 64-384FM (bronze)
 - d. Push/pulls are to be Offset wire type #64-108. (bronze)
 - e. Panic exit device Dor-O-Matic CVR # 1990 w. IC cylinder, dogging type concealed vertical rods (bronze)
 - f. LCN closers 4040XP Cush door w/ drop plate. (bronze)
 - g. Threshold shall be #62-057-P, 6 inches wide. (Aluminum finish)

3. INSTALLATION/EXECUTION

- a. All installation work shall be done in accordance with the manufacturer's specifications and recommendations. Installers must be factory trained in installation of the doors specified herein.
- b. Remove existing doors, thresholds and closers. Dispose of properly off Campus.
- c. Supply MCC with recycling receipts at end of project.
- d. The building must be secured at the end of each day and locked overnight throughout the removal / installation period. **Only one area can be worked on at a time. Work on an area must be totally completed before starting on the other area.**
- e. Contractor shall provide temporary barriers (interior and exterior) for the duration of installation. Barriers shall block personnel access to the entrance/exit/work area and redirect traffic to alternate entrance/exit via signage.
- f. The alignment of the transom shall match the existing jambs.
- g. All other materials required for a complete installation.
- h. Contractor shall be responsible to caulk and seal joints, corners, and openings which may result in air penetration or water leakage.

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 and, 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.

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.

6. TIME CONSTRAINTS

If the Board of Trustees of Middlesex County College has approved an award 10 days prior to August 5, 2015, the contractor shall complete the work between September 21, 2015 and October 2, 2015. If the Board has not approved the award by 10 days prior to August 5, 2015, 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 8:00 am to 4:30 pm, Monday through Friday. If additional work hours are required, they shall be included in the contractor's bid price and 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.

8. WARRANTY

All materials and workmanship shall be replaced at no cost for a period of two years from the date of final payment unless noted otherwise.

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9. **ADDITIONAL INFORMATION**

Additional information may be obtained from the following individuals:

Facility/specifications: Daniel Fuchs, Associate Director
Facilities Management
732-906-4670
732-906-4199 Fax
dfuchs@middlesexcc.edu

Proposal: David Fricke
Director, Purchasing & Inventory
732-906-2519
732-906-4236 Fax
DFricke@MiddlesexCC.edu

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