

**BID ADDENDUM NO. 1**

Date of Addendum: January 17, 2023  
Issued for Bid Date: January 3, 2022  
Client Name: Eastchester Union Free School District  
Project Name: 2022 Capital Bond Project, Phase 2  
SED Project No.: Waverly School: 66-03-01-03-0-002-011  
Greenvale Elementary School: 66-03-01-03-0-006-015  
Anne Hutchinson Elementary School: 66-03-01-03-0-001-022  
Eastchester Middle / High School: 66-03-01-03-0-003-030 / 66-03-01-03-0-003-029  
MEMASI Project No.: 102-2202  
Contracts: Contract No. 1 – General Construction (GC)  
Contract No. 2 – Mechanical Construction (MC)  
Contract No. 3 – Electrical Construction (EC)  
Contract No. 4 – Window Construction Work (WC)

This Bid Addendum forms part of the Contract Documents and modifies the original Issued for Bid Documents dated January 3, 2023. Where provisions of the following supplementary information differ from those of the original Bid Documents, this Addendum shall govern and take precedence.

**The Bid Documents are modified and clarified as follows:****Addenda to Specifications:**

- 1. Section 000110 TABLE OF CONTENTS**
  - a. Section 004393 – BID SUBMITTAL CHECKLIST added to TOC.
- 2. Section 004116 – BID FORM – GC ADD 1**
  - a. Unit Price GC No.8: Classroom Locksets, added to the spec.
- 3. Section 012200 – GC\_BID ADD 1**
  - a. Unit Price GC No.8: Classroom Locksets, added to the spec.
- 4. Section 085113 – ALUMINUM WINDOWS**
  - a. Specification section in the Project Manual is substituted by the attached Aluminum Window specification.
- 5. Spec Section 087100 – DOOR HARDWARE**
  - a. Delete: 2.09 Lockdown System and Locks.  
All associated work to the lockdown system is removed from the scope of work and a mechanical lockset will be specified.
  - b. The following hardware sets replace the 'Shelter Electromechanical Lock' (# S-01 thru S—02) with:
    - Intruder Function 45H-7IND15H, 626.
- 6. Spec Section 280000 – SECURITY**

# MEMASI

- a. Camera Schedules and Video Surveillance chart after the "END OF SECTION" on page 58 are part of the specification section.

## **Addenda to Drawings:**

- 1. HSMS A202 – Exterior Elevations and H-005.00**
  - a. Drawing 30. Expansion joint abatement and recaulking are part of Window Contract #4.
- 2. MS A901 DOOR SCHEDULE**
  - a. Remove from scope of work the MS NEW DOOR HARDWARE ONLY SCHEDULE
- 3. HS A901 DOOR SCHEDULE AND ELEVATIONS**
  - a. Remove from scope of work the HS NEW DOOR HARDWARE ONLY SCHEDULE
- 4. HS-TY001, MS-TY001, AH-TY001, GR-TY001, WA.-TY001.**
  - a. Delete note #13 on the above referenced drawings. All Shelter locks have been deleted from the scope of work. EC to delete associated Shelter lock repeater and wiring installation.

## **Attachments:**

### **Specifications**

000110 - TABLE OF CONTENTS  
004116 – BID FORM – GC  
004393 – BID SUBMITTAL CHECKLIST  
012200 – UNIT PRICES  
085113 – ALUMINUM WINDOWS  
087100 – DOOR HARDWARE

### **Drawings**

MS A901 – DOOR SCHEDULE  
HS A901 - DOOR SCHEDULE AND ELEVATIONS

### **Responses to RFI's:**

Bertussi Contracting Inc. RFI 001  
Hull Construction and Restoration, Inc. RFI #01  
Arrow Steel Window Corp. RFI #1 and #2.  
All Bright Electric RFI #1

END OF BID ADDENDUM NO. 1

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	AIA A132-2019 Exhibit A Insurance and Bonds
	AIA A232-2019 General Conditions of the Contract for Construction
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	AIA A310-2010 Bid Bond
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	AIA A312-2010 Performance Bond
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END OF SECTION 000110

SECTION 004116 - BID FORM

1.1 BID INFORMATION – **Contract No. 1 – General Construction (GC)**

- A. Bidder: \_\_\_\_\_.
- B. Contract No.: \_\_\_\_\_.
- C. Project Name: Eastchester Union Free School District – 2022 Capital Bond Project, Phase 2
- D. Owner: Eastchester Union Free School District
- E. Architect: MEMASI
- F. Architect Project Number: 102-2202
- G. Construction Manager: Arris Contracting Company, Inc.

1.2 CERTIFICATIONS AND BASE BID

- A. Base Bid Contract: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by MEMASI (Architect) and Architect's consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of:

1. \_\_\_\_\_  
Dollars (\$ \_\_\_\_\_).

1.3 ALLOWANCES

- A. The undersigned Bidder certifies that the Base Bid submission includes the allowances described in the Contract Documents and scheduled in Section 012100 "Allowances".
- B. **Contract No. 1 – General Construction (GC)**
  - 1. Allowance GC-1: contingency allowance of \$50,000.00
  - 2. Allowance GC-2 through GC-8: The undersigned Contractor has included the Allowances (s) as specified in Section 01 2100 in their Base Bid.

1.4 UNIT PRICES

- A. The undersigned Bidder certifies that the Base Bid submission includes the unit prices described in the Contract Documents and scheduled in Section 012200 "Unit Prices".

**B. Contract No. 1 – General Construction (GC)**

1. Unit Price GC No. 1: Abatement of ACM Floor Tile & Mastic (VAT)  
Description: abatement of ACM Floor Tile & mastic (VAT) to be used as an **add or deduct** from base bid quantities ( tented areas)  
  
\_\_\_\_\_ dollars (\$) \_\_\_\_\_) per square foot (SF) of VAT
  
2. Unit Price GC No. 2: Abatement of ACM Fittings/Insulation  
Description: Supply & install all material and labor for abatement of ACM fittings (individual glove bag) or insulation to be used as an **add or deduct** from base bid quantities  
  
\_\_\_\_\_ dollars (\$) \_\_\_\_\_) per linear foot of elbow or insulation
  
3. Unit Price GC No. 3: Abatement of ACM Ceiling using a full containment as per code rule 56  
Description: Supply & install all material and labor for ceiling abatement to be used as an **add or deduct** from base bid quantities  
  
\_\_\_\_\_ dollars (\$) \_\_\_\_\_) per sq ft
  
4. Unit Price GC No. 4: Unsuitable Soil  
Description: Supply & install all material, labor and equipment to remove dispose of unsuitable soil and replace with compacted engineered structural fill  
  
\_\_\_\_\_ dollars (\$) \_\_\_\_\_) per cubic yard
  
5. Unit Price GC No. 5: Trench Rock  
Description: Supply & install all material, labor and equipment to remove dispose of unsuitable soil and replace with compacted engineered structural fill  
  
\_\_\_\_\_ dollars (\$) \_\_\_\_\_) per cubic yard
  
6. Unit Price GC No. 6: LVT Floor Tile  
Description: Supply & install all material and labor for LVT Floor Tile/ adhesive to be used as an **add or deduct** from base bid quantities.  
  
\_\_\_\_\_ dollars (\$) \_\_\_\_\_) per square foot
  
7. Unit Price GC No. 7: Acoustic Ceiling Grid/Tile  
Description: Supply & install all material and labor for Acoustic Ceiling Grid/Tile to be used as an add or deduct from base bid quantities.  
  
\_\_\_\_\_ dollars (\$) \_\_\_\_\_) per square foot
  
8. Unit Price GC No. 8: Classroom Locksets  
Description: Supply & install all material and labor for Standard Classroom Lockset to be used as an **add or deduct** from base bid quantities.  
  
\_\_\_\_\_ dollars (\$) \_\_\_\_\_) ea

1.5 ALTERNATES

A. The undersigned Bidder certifies that the Bid submission includes the alternates described in the Contract Documents and scheduled in Section 012300 "Alternates".

B. **Contract No. 1 – General Construction (GC)**

1. ALTERNATE GC-1: Greenvale Elementary - ADD – Front Entry Exterior Stair replacement. Include all material and labor to remove existing front entrance stairs, replace with new concrete footings / stairs, granite treads/risers and steel handrails, etc.

\_\_\_\_\_

Dollars (\$\_\_\_\_\_).

2. ALTERNATE GC-2: Eastchester Middle School - ADD – Front Parking lot replacement. Include all material and labor to remove existing front parking lot pavement and sub- base. Replace with new fabric, subbase, asphalt striping, concrete ramp and salvaged pavers, etc. (The High School loop work and entrance remains base bid and is not part of this alternate)

3.

\_\_\_\_\_

Dollars (\$\_\_\_\_\_).

1.6 BID SECURITY

A. The undersigned Bidder agrees to execute a contract for this Work in the Base Bid amount above. This bid is accompanied by a Bid Bond in the following amount, constituting five percent (5%) of the Base Bid amount above, drawn by a recognized surety authorized to conduct business in the State of New York and is made payable to Eastchester Union Free School District:

1. \_\_\_\_\_

Dollars (\$\_\_\_\_\_).

B. In the event Owner does not offer Notice of Award within the time limits stated above, Owner will return to the undersigned the bid bond.

C. In all locations sums shall be expressed in both words and figures. In case of discrepancy written word governs.

1.7 TIME OF COMPLETION

A. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Architect and shall fully complete the Work within the timeframe specified by the Owner and Construction Manager.

1.8 ACKNOWLEDGEMENT OF ADDENDA

A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

1. Addendum No. 1, dated \_\_\_\_\_.
2. Addendum No. 2, dated \_\_\_\_\_.
3. Addendum No. 3, dated \_\_\_\_\_.
4. Addendum No. 4, dated \_\_\_\_\_.

1.9 INSURANCE CONFIRMATION

- A. The contractor verifies that they included all of the insurance requirements including the proper limits as required in Division 00 and AIA G232

1.10 BID SUPPLEMENTS

- A. The following supplements are a part of this Bid Form and are attached hereto.
  1. Bid Bond Form (AIA Document A310-2010).

1.11 CONTRACTOR'S LICENSE

- A. The undersigned further states that it is a duly licensed contractor for the type of work proposed in Westchester County, New York, and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.

1.12 SUBMISSION OF BID

- A. Respectfully submitted this \_\_\_\_\_ day of \_\_\_\_\_, 2022.
- B. Submitted By: \_\_\_\_\_ (Name of bidding company).
- C. Authorized Signature: \_\_\_\_\_ (Handwritten signature).
- D. Signed By: \_\_\_\_\_ (Type or print name).
- E. Title: \_\_\_\_\_ (Owner/Partner/President/Vice President).
- F. Witness By: \_\_\_\_\_ (Handwritten signature).
- G. Attest: \_\_\_\_\_ (Handwritten signature).
- H. By: \_\_\_\_\_ (Type or print name).
- I. Title: \_\_\_\_\_ (Corporate Secretary or Assistant Secretary).
- J. Street Address: \_\_\_\_\_.
- K. City, State, Zip: \_\_\_\_\_.
- L. Phone: \_\_\_\_\_.
- M. License No.: \_\_\_\_\_.
- N. Federal ID No.: \_\_\_\_\_ (Affix Corporate Seal Here).

END OF SECTION 004116

SECTION 004393 - BID SUBMITTAL CHECKLIST

1.1 BID INFORMATION

- A. Bidder: \_\_\_\_\_.
- B. Contract No.: \_\_\_\_\_.
- C. Project Name: Eastchester Union Free School District – 2022 Capital Bond Project, Phase 2
- D. Owner: Eastchester Union Free School District
- E. Architect: MEMASI
- F. Architect Project Number: 102-2202
- G. Construction Manager: Arris Contracting Company, Inc.

1.2 BIDDER'S CHECKLIST

- A. In an effort to assist the Bidder in properly completing all documentation required, the following checklist is provided for the Bidder's convenience. The Bidder is solely responsible for verifying compliance with bid submittal requirements.
- B. Attach this completed checklist to the outside of the Submittal envelope.
  - 1. Used the Bid Form provided in the Project Manual.
  - 2. Prepared the Bid Form as required by the Instructions to Bidders, AIA Document A701-2018.
  - 3. Indicated on the Bid Form: Acknowledgement of Addenda.
  - 4. Attached to the Bid Form: Bid Bond, AIA Document A310-2010.
  - 5. Attached to the Bid Form: Procurement Substitution Request Form.
  - 6. Attached to the Bid Form: Bid Submittal Checklist.
  - 7. Attached to the Bid Form: Insurance Certification Form.
  - 8. Attached to the Bid Form: Contractor Statement of Qualifications, AIA Document A305-1986.
  - 9. Attached to the Bid Form: Non-Collusion Affidavit.
  - 10. Attached to the Bid Form: Iran Divestment Act Affidavit.
  - 11. Attached to the Bid Form: Inability to Comply with Iran Divestment Act Affidavit.
  - 12. Attached to the Bid Form: Sexual Harassment Prevention Certification Form
  - 13. Attached to the Bid Form: Corporate Resolutions.
  - 14. Bid envelope shows name and address of the Bidder.
  - 15. Bid envelope shows the Bidder's Contractor's License Number.
  - 16. Bid envelope shows name of Project being bid.
  - 17. Bid envelope shows name of Prime Contract being bid, per the Advertisement for Bids.
  - 18. Bid envelope shows time and day of Bid Opening.
  - 19. Verified that the Bidder can provide executed Performance Bond and Payment Bond.

20. Verified that the Bidder can provide Certificates of Insurance in the amounts indicated.

END OF SECTION 004393

SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This Section specifies the requirements for measurements and records made for payment purposes and describes the item(s) under which payment(s) will be made for the Work performed under this Contract.
- B. All work shown or specified in the Contract Documents shall be performed.
- C. Items not specified to be measured or paid for (for which no specific pay item exists in the Price Schedule) shall be included in an appropriate unit price item or in a lump-sum item.

1.2 MEASUREMENT REQUIREMENTS

- A. All required measurements shall be made by the Contractor with the Architect and Construction Manager.
- B. Any measurements not witnessed by Architect and Construction Manager and which cannot be verified or substantiated will not be approved and payment under the item(s) requiring such measurements will not be made.
- C. Coordinate measurements monthly, for the preparation of periodic pay estimates.
- D. Where payments will be made for removing rock and existing materials, notify Architect so that he may witness the measurements.
  - 1. All materials removed without conforming to the above procedures, which Engineer cannot verify or substantiate, will not be paid for.
  - 2. Maintain complete, neat, clean, and legible field notes for all measured items.
  - 3. Notes shall contain spaces for Contractor's and Architect's signatures plus additional space for comments.
  - 4. An original and a carbon copy shall be made for all notes and one copy shall be turned over to Construction Manager daily.
  - 5. The Construction managers signature shall not be constituted as an acceptance of the work, or the measurements made, but shall mean that he was present when the measurements were made.

1.3 SUBMITTALS

- A. See Section 013300.
- B. Field notes of all measurements for payment purposes delivered to the Construction Manager daily.
- C. Copies of all invoices required for payments out of cash allowance(s).
- D. Monthly Applications for Payment.
- E. Record Drawings showing the locations and quantities of all items measured for payment purposes.

1.4 SCHEDULING

- A. Notify Construction Manager, as far in advance as possible, of the recording of measurements so that they may observe existing conditions, work being performed, and measurements being made.
- B. Allow for and afford Construction Manager ample time, space, and equipment to observe measurements and to verify measurements and elevations.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Provide all labor, materials, facilities, levels, measuring devices and all other equipment and items necessary to properly and accurately perform all measurements for payment purposes.

- B. Payment for certain items not specifically listed in the bid forms but otherwise required by the technical specifications shall be deemed included as part of the General Conditions and the individual unit price and lump sum bid items provided for in the proposal. (material handling, delivery, overhead, profit, etc.)

### PART 3 - EXECUTION

#### 3.1 GENERAL

Perform all measuring required under this Section.

- A. Record all measurements and calculated quantities on the Record Drawings.
- B. No measurement shall be made for work performed within the limits of Lump Sum Items.

#### 3.2 UNIT PRICE SCHEDULE

##### **Contract No. 1 – General Construction (GC)**

Unit Price GC No. 1: Abatement of ACM Floor Tile & Mastic (VAT)

- a. Description : abatement of ACM Floor Tile & mastic ( VAT ) to be used as an add or deduct from base bid quantities ( tented areas)
- b. Unit of Measurement : per square foot (SF) of VAT

Unit Price GC No. 2: Abatement of ACM Fittings/Insulation

- a. Description : Supply & install all material and labor for abatement of ACM fittings ( individual glove bag) or insulation to be used as an add or deduct from base bid quantities
- b. Unit of Measurement : per linear foot of elbow or insulation

Unit Price GC No. 3: Abatement of ACM Ceiling using a full containment as per code rule 56

- a. Description : Supply & install all material and labor for ceiling abatement to be used as an add or deduct from base bid quantities
- b. Unit of Measurement : per square foot

Unit Price GC No. 4: Unsuitable Soil

- a. Description : Supply & install all material, labor and equipment to remove dispose of unsuitable soil and replace with compacted engineered structural fill
- b. Unit of Measurement : per cubic yard in place

Unit Price GC No. 5: Trench Rock

- a. Description : Supply & install all material, labor and equipment to remove trench rock and replace with compacted engineered structural fill.
- b. Unit of Measurement : per cubic yard in place

Unit Price GC No. 6: LVT Floor Tile

- a. Description : Supply & install all material and labor for LVT Floor Tile/ adhesive to be used as an add or deduct from base bid quantities.
- b. Unit of Measurement : per square foot

Unit Price GC No. 7: Acoustic Ceiling Grid/Tile

- a. Description : Supply & install all material and labor for Acoustic Ceiling Grid/Tile to be used as an add or deduct from base bid quantities.
- b. Unit of Measurement : per square foot.

Unit Price GC No. 8: Classroom Locksets

- a. Description : Supply & install all material and labor for Standard Classroom Lockset to be used as an add or deduct from base bid quantities.
- b. Unit of Measurement : each

**Contract No. 2 – Mechanical Construction (MC)**

NONE

**Contract No. 3 – Electrical Construction (EC)**

Unit Price EC No. 1: Access Control Devices

- a. Description : Access Control Devices supply, install & commission to be used as an add or deduct from base bid quantities
- b. Unit of Measurement : each

Unit Price EC No. 2: PA Speaker

- a. Description : PA Speaker supply, install & commission to be used as an add or deduct from base bid quantities
- b. Unit of Measurement : each

Unit Price EC No. 3: Security Camera

- a. Description : Security Camera supply, install & commission to be used as an add or deduct from base bid quantities
- b. Unit of Measurement : each

Unit Price EC No. 4: ¾" EMT/ Cat 6 Security Cabling

- a. Description : ¾" EMT Raceway with Security Cabling supply, install & commission to be used as an add or deduct from base bid quantities
- b. Unit of Measurement : per Linear Foot

Unit Price EC No. 5: 700 Wiremold / Cat 6 Security Cabling

- a. Description : 700 Wiremold with Security Cabling supply, install & commission to be used as an add or deduct from base bid quantities
- b. Unit of Measurement : per Linear Foot

**Contract No. 4 – Window Construction Work (WC)**

Unit Price WC No. 1: Steel Lintel Replacement

- a. Description : abatement of existing lintel assembly with asbestos containing rust inhibitor and waterproofing tar paper behind and replace with new steel lintels per specification to be used as an add or deduct from base bid quantities
- b. Unit of Measurement : per 10 LF lintel each

Unit Price WC No. 2: Masonry Repointing

- a. Description: Provide all material, equipment and labor to remove deteriorated masonry prepare/replace with new repointed mortar as per specification to be used as an add or deduct from base bid quantities
- b. Unit of measurement: per square foot

Unit Price WC No. 3: Brick Replacement

- a. Description: Provide all material, equipment and labor to remove deteriorated masonry brick and replace with new as per masonry details. to be used as an add or deduct from base bid quantities
- b. Unit of measurement: per square foot

Unit Price WC No. 4: Abatement of ACM Caulking using a field fabricated tent enclosure as per code rule 56

- a. Description : Supply & install all material and labor for ACM caulking abatement to be used as an add or deduct from base bid quantities
- b. Unit of Measurement : per linear foot

END OF SECTION 012200

SECTION 085113 - ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes fixed and/or operable aluminum-framed windows for exterior locations.
- B. Related Sections include the following:
  - 1. Division 08 Section "Aluminum-Framed Entrances and Storefronts" for coordinating finish among aluminum fenestration units.
  - 2. Division 08 Section "Glazing" for additional glazing requirements for aluminum windows.

1.3 DESCRIPTION OF WORK

- A. Provide all plant, labor, materials, accessories, equipment, incidentals, scaffolds and supervision necessary to complete window replacement with hardware, exterior trim, components and related work shown and/or specified including but not necessarily limited to the following:
  - 1. Remove existing window assemblies, modify, repair, and recondition existing opening and damaged conditions as required for installation of new windows.
  - 2. Double Hung Windows.
  - 3. Fixed Windows.
  - 4. Removal and reinstallation of window air conditioners exhaust vents, louvers, etc., in insulated aluminum panels.
  - 5. Miscellaneous trim, closures, brake metals, receptors, panning, sills, mullions, mullion covers, and flashing.
  - 6. Remove existing Air Conditioners and re-install thru insulated panels using AC Kits.

1.4 DEFINITIONS

- A. Performance class designations according to AAMA/WDMA/CSA 101/I.S.2/A440-17:
  - 1. AW: Architectural.
- B. Performance grade number according to AAMA/WDMA/CSA 101/I.S.2/A440-17:
  - 1. Design pressure number in pounds force per square foot (pascals) used to determine the structural test pressure and water test pressure.
- C. Structural Test Pressure: For uniform load structural test, is equivalent to 150 percent of the design pressure.

- D. Minimum Test Size: Smallest size permitted for performance class (gateway test size) or as specified elsewhere in this section, whichever is more stringent. Products must be tested at minimum test size or at a size larger than minimum test size to comply with requirements for performance class. Downsized test reports will not be considered acceptable.

#### 1.5 PERFORMANCE REQUIREMENTS

- A. General: Provide aluminum windows capable of complying with performance requirements indicated, based on testing manufacturer's windows that are representative of those specified, and that are of minimum test size indicated below:
  - 1. Double Hung Windows: 60" x 99".
  - 2. Fixed Windows: 60" x 99".
- B. Structural Performance: Provide aluminum windows capable of withstanding the effects of the following loads, based on testing units of the minimum test size specified herein that pass AAMA/WDMA/CSA 101/I.S.2/A440-17, Uniform Load Structural and Uniform Load Deflection Tests:
  - 1. Uniform Load Structural Test: 150 psf (positive and negative) for Double Hung.
  - 2. Uniform Load Deflection Test: 100 psf (positive and negative) for Double Hung.
  
  - 1. Uniform Load Structural Test: 225 psf (positive and negative) Fixed/Transom.
  - 2. Uniform Load Deflection Test: 150 psf (positive and negative) Fixed/Transom.

#### 1.6 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, fabrication methods, dimensions of individual components and profiles, hardware, finishes, and operating instructions for each type of aluminum window indicated.
- B. Shop Drawings: Include plans, elevations, sections, details, hardware, attachments to other work, operational clearances, installation details, and the following:
  - 1. Mullion details, including reinforcement and stiffeners.
  - 2. Joinery details.
  - 3. Weather-stripping details.
  - 4. Thermal-break details.
  - 5. Glazing details.
- C. Samples for Initial Selection: For units with factory-applied color finishes.
  - 1. Include similar samples of hardware and accessories involving color selection.
- D. Maintenance Data: For operable window sash, operating hardware and finishes to include in maintenance manuals.
- E. Warranty: Special warranty specified in this Section.

1.7 QUALITY ASSURANCE

- A. Product Qualifications: In order to confirm that the proposed product(s) conform to the material and performance requirements contained in these specifications, bidders shall include the following with their bid. Failure to comply with these requirements shall cause the bid to automatically be rejected.
1. Bidder's Acknowledgement: Bidders shall include a letter in their bid stating the manufacturer and series (model) number of the product upon which its bid has been based. Changes in product (manufacturer or series) will not be permitted after the bid.
  2. Product Data: Bidders submitting bids based on products other than the Basis of Design product listed in Paragraph 2.1 must also include the following with their bid:
    - a. Comprehensive test reports not more than four years old prepared by a qualified testing agency for each product type being used on the project demonstrating compliance with the air, water and structural requirements outlined herein. Test reports based on the use of downsized test units will not be accepted.
    - b. Thermal simulations prepared by a qualified independent testing agency for each product type being used on the project demonstrating compliance with the thermal transmittance requirements outlined in Paragraph 2.3.
    - c. Full size product details showing all frame and sash details, dimensions, thermal break construction, wall thicknesses and joinery. Details must accurately reflect all glazing and hardware options specified herein.
- B. Product Requirements: For maximum performance, windows for this project must meet both the testing requirements as contained herein and the minimum material requirements specified. Windows that carry the applicable AAMA rating but do not meet the material thicknesses, depths, etc. shall not be acceptable for use on this project.
- C. Installer Qualifications: An installer acceptable to aluminum window manufacturer for installation of units required for this Project.
- D. Source Limitations: Obtain all Aluminum Windows through one source from a single manufacturer.
- E. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum windows and are based on the specific system indicated. Do not modify size and dimensional requirements.
1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.
- F. Fenestration Standard: Comply with AAMA/WDMA/CSA 101/I.S.2/A440-17, "Standard/Specification for Windows, Doors, and Unit Skylights" for definitions and minimum standards of performance, materials, components, accessories, and fabrication. Comply with more stringent requirements if indicated.
- G. Glazing Publications: Comply with published recommendations of glass manufacturers and with GANA's "Glazing Manual" unless more stringent requirements are indicated.
- H. Preinstallation Conference: If requested, conduct conference at project site to review methods and procedures related to aluminum windows including, but not limited to, the following:
1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

2. Review, discuss, and coordinate the interrelationship of aluminum windows with other exterior wall components.
3. Review and discuss the sequence of work required to construct a watertight and weathertight exterior building envelope.
4. Inspect and discuss the condition of substrate and other preparatory work performed by other trades.

#### 1.8 PROJECT CONDITIONS

- A. Field Measurements: For retrofit installations, verify aluminum window openings by field measurements before fabrication and indicate measurements on Shop Drawings.
1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish opening dimensions and proceed with fabricating aluminum windows without field measurements. Coordinate wall construction to ensure that actual opening dimensions correspond to established dimensions.

#### 1.9 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace aluminum windows that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
    - a. Failure to meet performance requirements.
    - b. Structural failures including excessive deflection, water leakage, or air infiltration.
    - c. Faulty operation of movable sash and hardware.
    - d. Deterioration of metals or other materials beyond that which is normal.
    - e. Failure of insulating glass.
  2. Warranty Period:
    - a. Window: Five years from date of Substantial Completion.
    - b. Balances: Class 6, Five years from date of Substantial Completion. Insulated Glazing: Ten years from date of Substantial Completion.
    - d. Painted Metal Finishes:
      - 1) Five years from date of Substantial Completion for AAMA 2603 Baked Enamel Finishes.
      - 2) Fifteen years from date of Substantial Completion for AAMA 2605 Superior Performance Finishes.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Basis-of-Design Product: The basis of design for these specifications is the Series 4700i Double Hung Side Load and Series 7700i Fixed as manufactured by Architectural Window Manufacturing Corporation, Rutherford, New Jersey.

- B. Equivalents: Subject to compliance with all material and performance requirements outlined in these specifications, “or equal” products by other manufacturers will be considered for use subject to review by the Architect. The Architect’s decision regarding equivalency is final.

## 2.2 MATERIALS

- A. Aluminum Extrusions: Alloy and temper recommended by aluminum window manufacturer for strength, corrosion resistance, and application of required finish, but not less than 22,000-psi (150-MPa) ultimate tensile strength, not less than 16,000-psi (110-MPa) minimum yield strength, and not less than 0.080-inch (1.6-mm) thickness at any location for the main frame and sash members, except the frame sill which shall be a minimum of 0.125-inch.
- B.
  - 1. Frame/Sash Depth: 4 ¼” minimum frame depth; 1 ¾” minimum sash depth for Double Hung windows
  - 2. Frame/Sash Depth: 4 ¼” minimum frame depth for Fixed/Transom
- C. Fasteners: Aluminum, nonmagnetic stainless steel, epoxy adhesive, or other materials warranted by manufacturer to be noncorrosive and compatible with aluminum window members, trim, hardware, anchors, and other components.
  - 1. All fasteners must be concealed except where unavoidable for application of hardware.
  - 2. For application of hardware, where required, use non-magnetic stainless steel phillips machine screws.
- D. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions; provide sufficient strength to withstand design pressure indicated.
- E. Compression-Type Weather Stripping: Provide compressible weather stripping designed for permanently resilient sealing under bumper or wiper action and for complete concealment when aluminum window is closed.
  - 1. Weather-Stripping Material: Manufacturer's standard system and materials complying with AAMA/WDMA/CSA 101/I.S.2/A440-17.
- F. Sliding-Type Weather Stripping: Provide woven-pile weather stripping of wool, polypropylene, or nylon pile and resin-impregnated backing fabric. Comply with AAMA 701/702.
  - 1. Weather Seals: Provide weather stripping with integral barrier fin or fins of semirigid, polypropylene sheet or polypropylene-coated material. Comply with AAMA 701/702.
- G. Replaceable Weather Seals: Comply with AAMA 701/702.
- H. Sealant: For sealants required within fabricated windows, provide window manufacturer's standard, permanently elastic, nonshrinking, and nonmigrating type recommended by sealant manufacturer for joint size and movement.

## 2.3 WINDOW

- A. Window Types: Double hung and Fixed/Transom

- B. AAMA/WDMA Performance Requirements: Provide aluminum windows of performance indicated that comply with AAMA/WDMA/CSA 101/I.S.2/A440-17.
  - 1. Performance Class and Grade: AW-PG100.Double Hung
  - 2. Performance Class and Grade: AW-PG150 Fixed
- C. Condensation-Resistance Factor (CRF): Provide aluminum windows tested with insulating glass for thermal performance according to AAMA 1503, showing a minimum CRF of 50.
- D. Thermal Transmittance: Provide aluminum windows with whole-window U-factor and SHGC maximums indicated when simulated in accordance with NFRC 100 and NFRC 200 at a model size of 48" x 72" and glazed with 1" Argon filled sputter coat Low-E (#2) insulated glass using a warm edge spacer.
  - 1. U-Factor: 0.38 Btu/sq. ft. x h x deg F or less for Double Hung
  - 2. SHGC: 0.28.
  - 1. U-Factor: 0.32 Btu/sq. ft. x h x deg F or less for Fixed
  - 2. SHGC: 0.33.
- E. Air Infiltration: Maximum rate not more than indicated when tested according to AAMA/WDMA/CSA 101/I.S.2/A440-17, Air Infiltration Test.
  - 1. Maximum Rate: 0.19 cfm/sq. ft. (5 cu. m/h x sq. m) of area at an inward test pressure of 6.24 lbf/sq. ft. (300 Pa). Double Hung
  - 2. Maximum Rate: 0.01 cfm/sq. ft. (5 cu. m/h x sq. m) of area at an inward test pressure of 6.24 lbf/sq. ft. (300 Pa). for Fixed
- F. Water Resistance: No water leakage as defined in AAMA/WDMA referenced test methods at a water test pressure equaling that indicated, when tested according to AAMA/WDMA 101/I.S.2/NAFS, Water Resistance Test.
  - 1. Test Pressure: 20 percent of positive design pressure, but not more than 15 lbf/sq. ft.
- G. Forced-Entry Resistance: Comply with Performance Grade 10 requirements when tested according to ASTM F 588.
- H. Life-Cycle Testing: Test according to AAMA 910 and comply with AAMA/WDMA/CSA 101/I.S.2/A440-17.
- I. Operating Force and Auxiliary (Durability) Tests: Comply with AAMA/WDMA/CSA 101/I.S.2/A440-17 for operating window types indicated.

## 2.4 INSULATED GLAZING

- A. Construction: All windows shall be factory glazed with hermetically sealed 1" insulating glass units with a dual seal of polyisobutylene and silicone and a desiccant filled spacer. Insulated glass must be set into a continuous bed of two- part structural silicone sealant and held in place with removable extruded aluminum snap-in beads. Wrap around (marine) glazing which requires the removal and disassembling of the sash for re-glazing will not be acceptable. Units must be IGCC certified for a CBA rating level
  - 1. Exterior Glazing:
    - a. Thickness: 1/4"

- b. Tint: Clear
- c. Type: Tempered Glass
- d. Coating: Guardian SuperNeutral 68, Vitro Solarban 60, Viracon VE-2M Low-E (or equal) (#2 Surface)
2. Interior Glazing:
  - a. Thickness: 1/4"
  - b. Tint: Clear; Obscure to be used in Lavatories and Locker Rooms
  - c. Type: Tempered Glass
3. Interspace Content: Argon
4. Spacer Type: Warm Edge

B. Insulated Panels:

1. Overall thickness: 1"
2. Exterior Face: Kynar paint on smooth .032" aluminum- color to be selected from manufacturer's standard.
3. Interior Face: Kynar paint on smooth .032" aluminum- color to be selected from manufacturer's standard.
4. Exterior Substrate: 3/16" corrugated plastic.
5. Interior Substrate: 3/16" corrugated plastic.
6. Core: Polyisocyanurate.

## 2.5 HARDWARE

- A. General: Provide manufacturer's standard hardware fabricated from aluminum, stainless steel, carbon steel complying with AAMA 907, or other corrosion-resistant material compatible with aluminum; designed to smoothly operate, tightly close, and securely lock aluminum windows and sized to accommodate sash or ventilator weight and dimensions. Do not use aluminum in frictional contact with other metals.
- B. Locks and Latches: Designed to allow unobstructed movement of the sash across adjacent sash in direction indicated and operated from the inside only.
- C. Pole Operators: Tubular-shaped anodized aluminum; with rubber-capped lower end and standard push-pull hook at top to match hardware design; of sufficient length to operate window without reaching more than 60 inches (1500 mm) above floor; 1 pole operator and pole hanger per room that has operable window hardware more than 72 inches (1800 mm) above floor.
- D. Double-Hung Windows: Provide the following operating hardware:
  1. Counterbalancing Mechanism: Comply with AAMA 902.
    - a. Sash Balance: Class 6, concealed Ultralift Extreme spring type capable of lifting 80% of sash weight, of size and capacity to hold sash stationary at any open position.
  2. Removable Lift-out Sash: Design windows and provide with hardware to permit removal of sash from inside for cleaning. Units with tilt-in sash will not be acceptable.
  3. Handle: Continuous, integral lift rail on bottom rail of lower sash and pull-down rail on top rail of upper sash.
  4. Lower Sash Lock: Spring-loaded, snap-type white bronze lock on bottom rail of lower sash (two if window is greater than 48" wide).
  5. Upper Sash Lock: Pole-operated snap type white bronze lock on top rail of upper sash. Spring-loaded, snap-type aluminum lock on top rail of upper sash.
  6. Limit Device: Continuous extruded aluminum sash stop limit device with rubber bumper; for each operable sash located at jamb; two per sash. Limit openings to 8".

## 2.6 INSECT SCREENS

- A. General: Design windows and hardware to accommodate screens in a tight-fitting, removable arrangement, with a minimum of exposed fasteners and latches. Locate screens on outside of window. Provide insect screens on all operable sash.
- B. Aluminum Insect Screen Frames: Manufacturer's standard aluminum alloy complying with SMA 1004. Fabricate frames with mitered or coped joints or corner extrusions, concealed fasteners, and removable PVC spline/anchor concealing edge of frame.
  - 1. Extruded-Aluminum Tubular Framing Sections and Cross Braces: Not less than 0.050-inch (1.3-mm) wall thickness.
  - 2. Finish: Match aluminum window members.
- C. Glass-Fiber Mesh Fabric: 18-by-16 (1.0-by-1.1-mm) mesh of PVC-coated, glass-fiber threads; woven and fused to form a fabric mesh resistant to corrosion, shrinkage, stretch, impact damage, and weather deterioration; in the following color. Comply with ASTM D 3656.
  - 1. Mesh Color: Charcoal

## 2.7 FABRICATION

- A. Fabricate aluminum windows in sizes indicated. Include a complete system for assembling components and anchoring windows.
- B. Fabricate aluminum windows that are reglazable without dismantling sash or ventilator framing.
- C. Thermally Improved Construction: Fabricate aluminum windows with an integral, concealed (products with exposed thermal barriers will not be acceptable), low-conductance thermal barrier; located between exterior materials and window members exposed on interior side; in a manner that eliminates direct metal-to-metal contact.
  - 1. All exterior aluminum shall be separated from interior aluminum by a rigid, structural thermal barrier. For purposes of this specification, a structural thermal barrier is defined as a system that shall transfer shear during bending and, therefore, promote composite action between the exterior and interior extrusions.
  - 2. No thermal short circuits shall occur between the exterior and interior.
  - 3. The thermal barrier shall be INSULBAR® or equal and shall consist of two glass reinforced polyamide nylon 6/6 struts mechanically crimped in raceways extruded in the exterior and interior extrusions.
  - 4. Poured and debridged urethane thermal barriers shall not be permitted.
- D. Weather Stripping: Provide full-perimeter weather stripping for each operable sash and ventilator.
- E. Weep Holes: Provide weep holes and internal passages to conduct infiltrating water to exterior.
- F. Mullions: Provide mullions and cover plates as shown, matching window units, complete with anchors for support to structure and installation of window units. Allow for erection tolerances and provide for movement of window units due to thermal expansion and building deflections, as indicated. Provide mullions and cover plates capable of withstanding design loads of window units.

- G. Subframes: Provide subframes with anchors for window units as shown, of Colonial Style Profile and dimensions indicated but not less than 0.093-inch- thick extruded aluminum. Finish to match window units. Provide subframes capable of withstanding design loads of window units.
- H. Factory-Glazed Fabrication: Glaze aluminum windows in the factory where practical and possible for applications indicated. Comply with requirements in Division 08 Section "Glazing" and with AAMA/WDMA/CSA 101/I.S.2/A440-17.
- I. Glazing Stops: Provide snap-on glazing stops coordinated with Division 08 Section "Glazing" and glazing system indicated. Provide glazing stops to match sash and ventilator frames.
- J. Muntins: Where shown on drawings, muntins shall be 3/8" deep profiled extruded aluminum applied to the exterior of 1" deep insulating glass. Roll formed muntins shall not be acceptable. Exterior applied muntins, where applicable, must be pinned to an integral bevel on the frame or sash. Products using applied bevels will not be accepted.

## 2.8 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- C. Exterior of Window:
  - 1. Superior-Performance Organic Finish: AA-C12C40R1x (Chemical Finish: cleaned with inhibited chemicals; Chemical Finish: acid-chromate-fluoride-phosphate conversion coating; Organic Coating: as specified below). Prepare, pretreat, and apply coating to exposed metal surfaces to comply with AAMA 2605 and with coating and resin manufacturer's written instructions.
    - a. Fluoropolymer Two-Coat System: Manufacturer's standard two-coat thermocured system consisting of specially formulated inhibitive primer and fluoropolymer color topcoat containing not less than 70 percent polyvinylidene fluoride resin by weight; complying with AAMA 2605.
    - b. Color: Colonial White. (Note: Exterior color may be different from interior color.)
- D. Interior of Windows: All Schools
  - 1. Baked-Enamel Finish: AA-C12C42R1x (Chemical Finish: cleaned with inhibited chemicals; Chemical Finish: acid-chromate-fluoride-phosphate conversion coating; Organic Coating: as specified below). Apply baked enamel complying with paint manufacturer's written instructions for cleaning, conversion coating, and painting.
    - a. Organic Coating: Thermosetting, modified-acrylic enamel primer/topcoat system complying with AAMA 2603 Organic Coating: Thermosetting, modified-acrylic enamel primer/topcoat system complying with AAMA 2603.
    - b. Color: As selected by Architect from manufacturer's standard non-mica, non-exotic, non-metallic colors. (Note: Exterior color may be different from interior color.)

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate, and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weathertight window installation.
  - 1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.
  - 2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches (76 mm) of opening.
  - 3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.
  - 4. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 INSTALLATION

- A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing windows, hardware, accessories, and other components.
- B. Install windows level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support.
- C. Set sill members in bed of sealant or with gaskets, as indicated, for weathertight construction.
- D. Install windows and components to drain condensation, water penetrating joints, and moisture migrating within windows to the exterior.
- E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

#### 3.3 FACTORY TESTING

- A. One window for each seventy-five manufactured shall be randomly selected by the Owner and Architect to be tested at the manufacturer's facility for air and water infiltration in order to confirm compliance of the project's windows with the performance requirements contained in these specifications. Bidders are to include the cost of transportation, food, and lodging for four representatives of the Owner and/or Architect to witness these tests.

#### 3.4 FIELD QUALITY CONTROL

- A. Testing Agency: If desired, Owner will engage a qualified testing agency to perform tests and inspections and prepare test reports.
  - 1. Testing and inspecting agency will interpret tests and state in each report whether tested work complies with or deviates from requirements.

- B. Testing Services: Testing and inspecting of installed windows shall take place as follows:
  - 1. Testing Methodology: Testing of windows for air infiltration and water resistance shall be performed according to AAMA 502, Test Method A. Field test pressures and allowable limits shall be as factored by AAMA 502 from those minimums required to determine laboratory compliance with the applicable Performance Class and Grade pursuant to AAMA/WDMA/CSA 101/I.S.2/A440-17.
  - 2. Testing Extent: One window as selected by Architect and a qualified independent testing and inspecting agency. Windows shall be tested immediately after installation.
  - 3. Test Reports: Shall be prepared according to AAMA 502.
- C. Remediate noncomplying windows and retest as specified above.
- D. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of remediated doors or additional work with specified requirements.

### 3.5 ADJUSTING, CLEANING, AND PROTECTION

- A. Adjust operating sashes and ventilators, screens, hardware, and accessories for a tight fit at contact points and weather stripping for smooth operation and weathertight closure. Lubricate hardware and moving parts.
- B. Manufacturer shall clean all glass and aluminum prior to shipment.
- C. Protection of newly installed windows and/or final cleaning of glass and aluminum to remove any accumulations that may have occurred during the construction period is to be the responsibility of the General Contractor or Owner.
- D. Comply with manufacturer's written recommendations for final cleaning and maintenance.

### 3.6 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain window operating system.

END OF SECTION 085113

## **SECTION 08 71 00 - DOOR HARDWARE**

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Hardware for wood, aluminum, hollow metal, and [ ] doors.
- B. Hardware for fire-rated doors.
- C. Electrically operated and controlled hardware.
- D. Thresholds.
- E. Smoke and draft control seals.
- F. Weatherstripping and gasketing.

#### **1.02 RELATED REQUIREMENTS**

- A. Section 06 20 00 - Finish Carpentry: Wood door frames.
- B. Section 08 11 13 - Hollow Metal Doors and Frames.
- C. Section 08 11 16 - Aluminum Doors and Frames.
- D. Section 08 12 13 - Hollow Metal Frames.
- E. Section 08 14 16 - Flush Wood Doors.
- F. Section 08 14 23 - Clad Wood Doors.
- G. Section 08 14 33 - Stile and Rail Wood Doors.
- H. Section 08 16 13 - Fiberglass Doors.
- I. Section 08 33 23 - Overhead Coiling Doors: Door hardware, except cylinders.
- J. Section 08 36 13 - Sectional Doors: Door hardware, except cylinders.
- K. Section 08 43 13 - Aluminum-Framed Storefronts: Door hardware, except as noted in section.
- L. Section 28 10 00 - Access Control: Electronic access control devices.

#### **1.03 REFERENCE STANDARDS**

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design 2010.
- B. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen 2019.
- C. DHI (H&S) - Sequence and Format for the Hardware Schedule 2019.
- D. DHI (KSN) - Keying Systems and Nomenclature 2019.
- E. DHI (LOCS) - Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames 2004.
- F. DHI WDHS.3 - Recommended Locations for Architectural Hardware for Flush Wood Doors 1993; also in WDHS-1/WDHS-5 Series, 1996.
- G. ICC (IBC) - International Building Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- H. ICC A117.1 - Accessible and Usable Buildings and Facilities 2017.
- I. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- J. NFPA 80 - Standard for Fire Doors and Other Opening Protectives 2022.
- K. NFPA 101 - Life Safety Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

- L. NFPA 105 - Standard for Smoke Door Assemblies and Other Opening Protectives 2022.
- M. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies 2022.
- N. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies Current Edition, Including All Revisions.

#### **1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Coordinate the manufacture, fabrication, and installation of products that door hardware is installed on.
- B. Sequence installation to ensure facility services connections are achieved in an orderly and expeditious manner.
- C. Preinstallation Meeting: Convene a preinstallation meeting one week prior to commencing work of this section; require attendance by affected installers and the following:
  - 1. Architect.
  - 2. Installer's Architectural Hardware Consultant (AHC).
  - 3. Hardware Installer.
  - 4. Owner's Security Consultant.
- D. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- E. Keying Requirements Meeting:
  - 1. Schedule meeting at project site prior to Contractor occupancy.
  - 2. Attendance Required:
    - a. Contractor.
    - b. Owner.
    - c. Installer's Architectural Hardware Consultant (AHC).
    - d. Door Hardware Installer.
    - e. Owner's Security Consultant.
  - 3. Agenda:
    - a. Establish keying requirements.
    - b. Verify locksets and locking hardware are functionally correct for project requirements.
    - c. Verify that keying and programming complies with project requirements.
    - d. Establish keying submittal schedule and update requirements.
  - 4. Incorporate "Keying Requirements Meeting" decisions into keying submittal upon review of door hardware keying system including, but not limited to, the following:
    - a. Access control requirements.
    - b. Key control system requirements.
  - 5. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.
  - 6. Deliver established keying requirements to manufacturers.

#### **2.01 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.
- C. Shop Drawings - Door Hardware Schedule: A detailed listing that includes each item of hardware to be installed on each door.
  - 1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
  - 2. Comply with DHI (H&S) using door numbering scheme and hardware set numbers as indicated in Contract Documents.
    - a. Submit in vertical format.

3. List groups and suffixes in proper sequence.
  4. Include complete description for each door listed.
  5. Include manufacturer's and product names, and catalog numbers; include functions, types, styles, sizes and finishes of each item.
  6. Include account of abbreviations and symbols used in schedule.
- D. Shop Drawings - Electrified Door Hardware: Include diagrams for power, signal, and control wiring for electrified door hardware that include details of interface with building safety and security systems. Provide elevations and diagrams for each electrified door opening as follows:
1. Prepared by or under supervision of Architectural Hardware Consultant (AHC) and Electrified Hardware Consultant (EHC).
  2. Elevations: Include front and back elevations of each door opening showing electrified devices with connections installed and an operations narrative describing how opening operates from either side at any given time.
  3. Diagrams: Include point-to-point wiring diagrams that show each device in door opening system with related colored wire connections to each device.
- E. Samples for Verification:
1. Submit one (1) sample of hinge, latchset, lockset, closer, and [ ] illustrating style, color, and finish.
  2. Architect will return full-size samples to Contractor.
  3. Include product description with samples.
- F. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- G. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
1. Bitting List: List of combinations as furnished.
- H. Keying Schedule:
1. Submit three (3) copies of Keying Schedule in compliance with requirements established during Keying Requirements Meeting unless otherwise indicated.
- I. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
- J. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
1. See Section 01 60 00 - Product Requirements, for additional provisions.
  2. Tools: One set of each special wrench or tool applicable for each different or special hardware component, whether supplied by hardware component manufacturer or not.

## **2.02 QUALITY ASSURANCE**

- A. Standards for Fire-Rated Doors: Maintain one copy of each referenced standard on site, for use by Architect and Contractor.
- B. Installer Qualifications: Company specializing in performing work of the type specified for commercial door hardware with at least three years of documented experience.
- C. Supplier Qualifications: Company with certified Architectural Hardware Consultant (AHC) and Electrified Hardware Consultant (EHC) to assist in work of this section.

## **2.03 DELIVERY, STORAGE, AND HANDLING**

- A. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.

## **2.04 WARRANTY**

- A. Manufacturer Warranty: Provide manufacturer warranty against defects in material and workmanship for period indicated, from Date of Substantial Completion. Complete forms in Owner's name and register with manufacturer.

1. Closers: Five years, minimum.
2. Exit Devices: Three years, minimum.
3. Locksets and Cylinders: Three years, minimum.
4. Other Hardware: Two years, minimum.

## **PART 2 PRODUCTS**

### **4.01 GENERAL REQUIREMENTS**

- A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.
- B. Door Pulls and Push Plates:
  1. Provide door pulls and push plates on doors without a lockset, latchset, exit device, or auxiliary lock unless otherwise indicated.
- C. Closers:
  1. Provide door closer on each exterior door, unless otherwise indicated.
  2. Provide door closer on each fire-rated and smoke-rated door.
- D. Thresholds:
  1. Exterior Applications: Provide at each exterior door, unless otherwise indicated.
- E. Smoke and Draft Control Seals:
  1. Provide gasketing for smoke and draft control doors (Indicated as "S" on Drawings) that complies with local codes, requirements of assemblies tested in accordance with UL 1784.
- F. Weatherstripping and Gasketing:
  1. Provide weatherstripping on each exterior door at head, jambs, and meeting stiles of door pairs, unless otherwise indicated.
  2. Provide door bottom sweep on each exterior door, unless otherwise indicated.
  3. Fabricate as continuous gasketing, do not cut or notch gasketing material.
- G. Electrically Operated and/or Controlled Hardware: Provide necessary power supplies, power transfer hinges, relays, and interfaces as required for proper operation; provide wiring between hardware and control components and to building power connection in compliance with NFPA 70.
- H. Fasteners:
  1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.
  2. Provide machine screws for attachment to reinforced hollow metal and aluminum frames.
  3. Provide stainless steel machine screws and lead expansion shields for concrete and masonry substrates.
  4. Provide wall grip inserts for hollow wall construction.
  5. Fire-Resistance-Rated Applications: Comply with NFPA 80.
  6. Concealed Fasteners: Do not use through or sex bolt type fasteners on door panel sides indicated as concealed fastener locations, unless otherwise indicated or required per manufacturer's testing requirements.

### **4.02 PERFORMANCE REQUIREMENTS**

- A. Provide door hardware products that comply with the following requirements:
  1. Applicable provisions of federal, state, and local codes.
    - a. ICC (IBC).
    - b. NFPA 101.
  2. Accessibility: ADA Standards and ICC A117.1.
  3. Fire-Resistance-Rated Doors: NFPA 80, listed and labeled by qualified testing agency for fire protection ratings indicated, based on testing at positive pressure in accordance with NFPA 252 or UL 10C.

4. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
5. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
6. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified.

#### 4.03 HINGES

- A. Manufacturers: Conventional butt hinges.
  1. BEST; dormakaba Group: [www.bestaccess.com/#sle](http://www.bestaccess.com/#sle).
  2. Hager.
  3. McKinney.
- B. Properties:
  1. Butt Hinges: As applicable to each item specified.
    - a. Standard Weight Hinges: Minimum of two (2) permanently lubricated non-detachable bearings.
    - b. Heavy Weight Hinges: Minimum of four (4) permanently lubricated bearings on heavy weight hinges.
    - c. Template screw hole locations.
    - d. Pins: Easily seated, non-rising pins.
    - e. UL 10C listed for fire-resistance-rated doors.
  2. Continuous Hinges: As applicable to each item specified.
    - a. Geared Continuous Hinges: As applicable to each item specified.
      - 1) Non-handed.
      - 2) UL 10C listed for fire-resistance-rated doors.
      - 3) Sufficient size to permit door to swing 180 degrees
- C. Finishes: See Door Hardware Schedule.
- D. Grades:
  1. Butt Hinges: Comply with BHMA A156.1 and BHMA A156.7 for templated hinges.
  2. Continuous Hinges: Comply with BHMA A156.26, Grade 1.
- E. Types:
  1. Butt Hinges: Include full mortise hinges.
  2. Continuous Hinges: Include geared hinges.
- F. Options: As applicable to each item specified.
- G. Quantities:
  1. Butt Hinges: Three (3) hinges per leaves up to 90 inches in height. Add one (1) for each additional 30 inches in height or fraction thereof.
    - a. Hinge weight and size unless otherwise indicated in hardware sets:
      - 1) For doors up to 36 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of 0.134 inch and a minimum of 4-1/2 inches in height.
      - 2) For doors from 36 inches wide up to 42 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of 0.145 inch and a minimum of 4-1/2 inches in height.
      - 3) For doors from 42 inches wide up to 48 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of 0.180 inch and a minimum of 5 inches in height.
      - 4) For doors greater than 1-3/4 inches thick provide hinges with a minimum thickness of 0.180 inch and a minimum of 5 inches in height.
  2. Continuous Hinges: One per door leaf.
- H. Applications: At swinging doors.
  1. Provide non-removable pins at out-swinging doors with locking hardware and all exterior doors.
- I. Products:

1. Butt Hinges:
  - a. Concealed bearing, five (5) knuckle.
  - b. Plain Bearing, Five (5) Knuckle.
2. Continuous Hinges:
  - a. Aluminum geared hinges.

#### 4.04 BOLTS

- A. Manufacturers:
  1. Trimco: [www.trimcohardware.com/#sle](http://www.trimcohardware.com/#sle).
- B. Properties:
  1. Flush Bolts:
    - a. Pairs of Swing Doors: At inactive leaves, provide flush bolts of type as required to comply with code.
    - b. Manual Flush Bolts: Manually latching upon closing of door leaf.
      - 1) Bolt Throw: 3/4 inch, minimum.
- C. Options:
  1. Extension Bolts: In leading edge of door, one bolt into floor, one bolt into top of frame.
- D. Products:
  1. Manual flush bolts.

#### 4.05 EXIT DEVICES

- A. Manufacturers:
  1. BEST, dormakaba Group: [www.bestaccess.com/#sle](http://www.bestaccess.com/#sle).
  2. dormakaba commercial, dormakaba Group: [www.dormakaba.com/us-en/#sle](http://www.dormakaba.com/us-en/#sle).
- B. Properties:
  1. Touchpads: 'T" style metal touchpads and rail assemblies with matching chassis covers end caps.
  2. Latch Bolts: Stainless steel deadlocking with 3/4 inch projection using latch bolt.
  3. Cylinder: Include where cylinder dogging or locking trim is indicated.
  4. Strike as recommended by manufacturer for application indicated.
  5. Sound dampening on touch bar.
  6. Dogging:
    - a. Non-Fire-Resistance-Rated Devices: Cylinder \_\_\_\_ dogging.
    - b. Fire-Resistance-Rated Devices: Manual dogging not permitted.
  7. Touch bar assembly on wide style exit devices to have a 1/4 inch clearance to allow for vision frames.
  8. All exposed exit device components to be of architectural metals and "true" architectural finishes.
  9. Handing: Field-reversible.
  10. Fasteners on Back Side of Device Channel: Concealed - exposed fasteners not allowed.
  11. Vertical Latch Assemblies' Operation: Gravity, without use of springs.
- C. Grades: Complying with BHMA A156.3, Grade 1.
- D. Standards Compliance:
  1. Provide UL (DIR) listed exit device assemblies for fire-resistance-rated doors.
  2. Comply with UL 10C.
- E. Code Compliance: As required by authorities having jurisdiction in the State in which the Project is located.
- F. Options:
  1. MLR: Motorized latch retraction.
- G. Products:

1. 2000.

#### **4.06 REMOVABLE MULLIONS**

- A. Manufacturers:
  1. BEST, dormakaba Group: [www.bestaccess.com/#sle](http://www.bestaccess.com/#sle).
- B. Properties:
  1. Rectangular shape 3 inches by 2 inches tubes with minimum 1/8 inch wall thickness.
  2. Furnished by the same manufacturer as exit devices.
  3. Spacers: Provide as required for proper installation, based on frame profile and dimensions.
- C. Grades: Complying with BHMA A156.3.
- D. Materials: Manufacturer's standard for items specified.
  1. Top and Bottom Brackets: Investment-cast steel.
- E. Options:
  1. Furnish Keyed Removable "KR" feature and corresponding cylinders as specified.
    - a. Mullions capable of being installed without physical key present.
    - b. Physical key required to operate.
- F. Applications: As indicated on drawings and in Door Hardware Schedule.
- G. Products:
  1. 822 Series.

#### **4.07 LOCK CYLINDERS**

- A. Manufacturers:
  1. BEST, dormakaba Group: [www.bestaccess.com/#sle](http://www.bestaccess.com/#sle).
  2. dormakaba; dormakaba Group: [www.dormakaba.com/us-en/#sle](http://www.dormakaba.com/us-en/#sle).
- B. Properties:
  1. Lock Cylinders: Provide key access on outside of each lock, unless otherwise indicated.
    - a. Provide cylinders from same manufacturer as locking device.
    - b. Provide cams and/or tailpieces as required for locking devices.
    - c. Provide cylinders with appropriate format interchangeable cores where indicated.
- C. Material:
  1. Manufacturer's standard corrosion-resistant brass alloy.
- D. Products:
  1. Rim/mortise.

#### **4.08 MORTISE LOCKS**

- A. Manufacturers:
  1. BEST, dormakaba Group: [www.bestaccess.com/#sle](http://www.bestaccess.com/#sle).
  2. dormakaba; dormakaba Group: [www.dormakaba.com/us-en/#sle](http://www.dormakaba.com/us-en/#sle).
- B. Properties:
  1. Mechanical Locks: Manufacturer's standard.
    - a. Fitting modified ANSI A115.1 door preparation.
    - b. Door Thickness Coordination Fitting 1-3/4 inch to 2-1/4 inch thick doors.
    - c. Latch: Solid, one-piece, anti-friction, self-lubricating stainless steel.
      - 1) Latchbolt Throw: 3/4 inch, minimum.
    - d. Auxiliary Deadlatch: One piece stainless steel, permanently lubricated.
    - e. Backset: 2-3/4 inch.
    - f. Lever Trim:
      - 1) Functionality: Allow the lever handle to move up to 45 degrees from horizontal position prior to engaging the latch bolt assembly.

- 2) Strength: Locksets outside locked lever designed to withstand minimum 1,400 inch-lbs of torque. In excess of that, a replaceable part will shear. Key from outside and/or inside lever will still operate lockset.
  - 3) Spindle: Designed to prevent forced entry from attacking of lever.
  - 4) Independent spring mechanism for each lever.
    - (a) Trim to be self-aligning and thru bolted.
2. Electrified Locks: Same properties as standard locks, and as follows:
- a. Voltage: 24 VDC.
  - b. Function: Electrically locked (Fail Safe) or unlocked (Fail Secure), as indicated for each lock in Door Hardware Schedule.
- C. Finishes: See Door Hardware Schedule.
1. Core Faces: Match finish of lockset.
- D. Grades:
- E. Options:
- F. Products: Mortise locks, including standard and electrified types.
1. 40H.

#### 4.09 LOCKDOWN SYSTEM AND LOCKS

- A. Manufacturers:
1. BEST, dormakaba Group: [www.bestaccess.com/#/sle](http://www.bestaccess.com/#/sle).
- B. Properties:
1. Locking Devices: ~~Modified to be operable in lockdown mode upon actuation by lockdown system.~~
    - a. Fire Resistance Rated Doors Compatibility: ~~Approved for use on doors with fire resistance rating up to 3 hours.~~
    - b. Locking Device Electronics: ~~Housed on inside of room/egress side of door and powered by 4 AA batteries.~~
      - 1) Connections: ~~Automatically made when enclosure is installed on bracket.~~
      - 2) Electronics Enclosure: ~~Secured with two security torx screws.~~
  2. Classroom Lockdown System:
    - a. Software: ~~Proprietary software, designed to be accessed securely by Owner's authorized personnel.~~
      - 1) Locking Device Activation:
        - (a) Key fob.
        - (b) Switch tied into system repeater.
        - (c) Remote, using system software.
      - 2) Locking Device Operation:
        - (a) Normal Mode: Traditional 'Classroom' function.
        - (b) Lockdown Mode: Outside lever made rigid; key retracts latchbolt. Free egress to be provided at all times. (Storeroom function).
    - b. Hardware Components: ~~Lockdown activation fob(s), repeater(s), gateway(s), and power supplies.~~
      - 1) Wireless Communication Protocol: 900 MHz.
      - 2) Gateway: ~~Manufacturer's standard, powered using 12 VDC by included wall power supply unit.~~
        - (a) Regulatory Compliance: ~~UL 60950-1 and FCC Part 15.~~
        - (b) Typical Connection Range: ~~400 feet indoors.~~
        - (c) Connection: ~~Standard ethernet wiring.~~
        - (d) Functionality: ~~To be functional without internet connection.~~
        - (e) Expandability: ~~Pairing with up to 7 repeaters.~~

- 3) ~~Repeaters: Manufacturer's standard, powered using 12 VDC by included wall power supply unit.~~
  - ~~(a) Complying with UL 60950-1.~~
  - ~~(b) Typical Connection Range: 400 feet indoors.~~
  - ~~(c) Expandability: Up to 7 repeaters.~~
    - ~~(1) Repeaters configurable as relays.~~
  - ~~(d) Inputs: Two (2) dry contact switches configurable to initiate or cancel lockdown.~~
  - ~~(e) Outputs: Two (2) form C relays; 24V/1A.~~
- 4) ~~Fobs: Polycarbonate battery powered device with removable cover.~~
  - ~~(a) Regulatory compliance: FCC Part 15 B and C.~~
  - ~~(b) Typical Connection Range: [CHOICE TEXT] indoors.~~
  - ~~(c) Activation Buttons: One button for lockdown and a second smaller button for testing.~~
  - ~~(d) Scalability: Functionality for a single door, a set of doors, or the entire system.~~
  - ~~(e) Power: Standard 3VCR2450 battery.~~
- 5) ~~Power supplies: Manufacturer's standard.~~

C. ~~Products:~~

- ~~1. 40HX.~~
- ~~2. SHELTER software and system hardware.~~

**4.10 DOOR PULLS AND PUSH PLATES**

A. Manufacturers:

1. Trimco: [www.trimcohardware.com/#sle](http://www.trimcohardware.com/#sle).

B. Properties:

1. Pull Type: Straight, unless otherwise indicated.
2. Push Plate Type: Flat, with square corners, unless otherwise indicated.

C. Grades: Comply with BHMA A156.6.

D. Material: Stainless steel, unless otherwise indicated.

E. Products:

1. Push-Pull Plates.

**4.11 CLOSERS**

A. Manufacturers:

1. BEST, dormakaba Group [www.bestaccess.com/#sle](http://www.bestaccess.com/#sle).
2. dormakaba; dormakaba Group: [www.dormakaba.com/us-en/#sle](http://www.dormakaba.com/us-en/#sle).
3. dormakaba commercial, dormakaba Group: [www.dormakaba.com/us-en/#sle](http://www.dormakaba.com/us-en/#sle).

B. Properties:

1. Surface Mounted Closers: Manufacturer's standard.
  - a. Construction: Cast iron.
  - b. Covers:
    - 1) Type: Standard for product selected.
      - (a) Full.
    - 2) Material: Plastic.
    - 3) Finish: Painted.

C. Grades:

1. Closers: Comply with BHMA A156.4, Grade 1.
  - a. Underwriters Laboratories Compliance:
  - b. Testing Standards Compliance: Meeting requirements of UL 10C for positive pressure.

- D. Code Compliance: As required by authorities having jurisdiction in the State in which the Project is located.
- E. Types:
  - 1. Rack-and-pinion, surface-mounted. 1-1/2 inches minimum bore.
- F. Installation:
  - 1. Mounting: Includes surface mounted installations.
  - 2. Mount closers on non-public side of door and stair side of stair doors unless otherwise noted in hardware sets.
  - 3. At outswinging exterior doors, mount closer on interior side of door.
  - 4. Provide adapter plates, shim spacers, and blade stop spacers as required by frame and door conditions.
  - 5. Where an overlapping astragal is included on pairs of swinging doors, provide coordinator to ensure door leaves close in proper order.
- G. Products:
  - 1. Surface Mounted:
    - a. QDC100.

#### **4.12 SWINGING DOOR OPERATORS**

- A. Manufacturers:
  - 1. dormakaba; dormakaba Group: [www.dormakaba.com/us-en/#sle](http://www.dormakaba.com/us-en/#sle).
- B. Properties:
  - 1. Where automatic operators are scheduled, provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by the manufacturer of the automatic operator for each individual leaf. Control both doors with actuators simultaneously at pairs. Locate actuators, key switches, and other controls as directed by Architect.
  - 2. Power-Assist Low Energy Operators:
    - a. Construction: Manufacturer's standard units with full covers.
    - b. Door Operation Limits:
      - 1) Weight: 220 lbs.
      - 2) Width: 48 inches.
      - 3) Temperature Range: 5 to 122 degrees F.
    - c. Function Adjustability: Selectable low-energy or power-assist applications. Low-energy function to cycle the door open as programmed. Power-assist function for decreased opening force when manually operated. Operator to have a programmable push-and-go functionality.
    - d. Auxiliary Power Supply: 24VDC, 1.5A and form C relay contact for controlling fail safe/secure locking devices 50VAC or DC at 1A max.
    - e. Programmable Operation: Include sweep speed, latch speed, and backcheck cushioning.
    - f. Power-Open Functions: Include delay time, opening time, opening force, and opening angle.
      - 1) Angle and door width selector.
      - 2) Power boost feature.
    - g. On-board cycle counter.
    - h. Selectable jumper to accommodate push or pull side applications.
    - i. On/off strike delay when the operator must delay while a locking device releases.
    - j. Selectable on/off obstacle detection on closing.
  - 3. Actuators:
    - a. Hard-Wired Units: Wall-mounted and tamper-resistant.
      - 1) Normally open switch.

- 2) Construction: Stainless-steel face plates, with heavy duty injection molded black ABS mounting boxes.
  - 3) Face Plate: Include manufacturer's standard international accessibility symbol and text "Press to Open".
- C. Grades:
1. Comply with BHMA A156.19.
  2. Underwriters Laboratories Compliance:
    - a. Product Listing: UL (DIR) and ULC for use on fire-resistance-rated doors.
    - b. United States: UL 325.
- D. Types:
1. Power-Assist Low-Energy Operators:
- E. Options: As applicable to each item specified.
1. Delayed action, adjustable with an independent valve.
  2. Advanced backcheck.
  3. Heavy-duty arms and knuckles/elbows.
  4. Adjustable, for force or angle of opening hold open.
  5. Cushion limit stay.
- F. Installation:
1. Where automatic operators are scheduled, provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by the manufacturer of the automatic operator for each individual leaf. Configure actuators to control both doors simultaneously at pairs. Locate the actuators, key switches, and other controls as directed by Architect.
  2. Operator Actuators: Include required back boxes, mounting rings, accessories as needed for fixed unit installation.
- G. Products:
1. ED100

#### **4.13 OVERHEAD STOPS AND HOLDERS**

- A. Manufacturers:
1. dormakaba; dormakaba Group: [www.dormakaba.com/us-en/#sle](http://www.dormakaba.com/us-en/#sle).
- B. Properties:
- C. Sizes: Manufacturer's standard for the application.
- D. Finishes:
1. Arms and Brackets: Zinc-plated.
- E. Grades: As applicable to item specified.
1. Comply with BHMA A156.8, Grade 1.
- F. Material: Base metal as indicated for each item by BHMA material and finish designation.
1. Track Channel: Extruded aluminum alloy.
  2. Slide Block: Machined from solid brass alloy.
- G. Types:
1. Surface-applied.
- H. Products:
1. Surface Overhead Stops and Holders:
    - a. 700 Standard Duty.

#### **4.14 PROTECTION PLATES**

- A. Manufacturers:
1. Trimco: [www.trimcohardware.com/#sle](http://www.trimcohardware.com/#sle).
  2. Rockwood.

- B. Properties:
  - 1. Plates:
    - a. Kick Plates: Provide along bottom edge of push side of every wood door with closer, except aluminum storefront and glass entry doors, unless otherwise indicated.
    - b. Edges: Beveled, on four (4) unless otherwise indicated.
- C. Grades: Comply with BHMA A156.6.
- D. Material: As indicated for each item by BHMA material and finish designation.
  - 1. Metal Properties: Stainless steel.
- E. Installation:
  - 1. Fasteners: Countersunk screw fasteners

#### 4.15 STOPS AND HOLDERS

- A. Manufacturers:
  - 1. Trimco: [www.trimcohardware.com/#sle](http://www.trimcohardware.com/#sle).
- B. General: Provide overhead stop/holder when wall or floor stop is not feasible.
- C. Grades:
  - 1. Door Holders, Wall Bumpers, and Floor Stops: Comply with BHMA A156.16 and Resilient Material Retention Test as described in this standard.
- D. Material: Base metal as indicated for each item by BHMA material and finish designation.
- E. Types:
  - 1. Wall Bumpers: Bumper, concave, wall stop.
  - 2. Floor Stops: Provide with bumper floor stop.
- F. Installation:
  - 1. Non-Masonry Walls: Confirm adequate wall reinforcement has been installed to allow lasting installation of wall bumpers.

#### 4.16 ELECTROMAGNETIC DOOR HOLDERS

- A. Manufacturers:
  - 1. dormakaba; dormakaba Group: [www.dormakaba.com/us-en/#sle](http://www.dormakaba.com/us-en/#sle).
- B. Properties:
  - 1. Holding Force, Standard Duty: 40 lbs-force, minimum.
  - 2. Power Loss Status: Fail safe; door released to close.
  - 3. Life Safety Interface: With fire detectors, fire-alarm system, and smoke detectors for fire-resistance-rated door assemblies.
- C. Grades: Comply with BHMA A156.15.
- D. Types: Wall mounted, single unit, standard duty, with strike plate attached to door.
- E. Options: As applicable to each item specified.
  - 1. Voltage: 24 VDC.
- F. Products:
  - 1. EM Series.

#### 4.17 THRESHOLDS

- A. Manufacturers:
  - 1. National Guard Products, Inc: [www.ngpinc.com/#sle](http://www.ngpinc.com/#sle).
- B. Properties:
  - 1. Threshold Surface: Fluted horizontal grooves across full width.
- C. Grades: Thresholds: Comply with BHMA A156.21.
- D. Types: As applicable to project conditions. Provide barrier-free type at every location where specified.

#### **4.18 WEATHERSTRIPPING AND GASKETING**

- A. Manufacturers:
  - 1. National Guard Products, Inc: [www.ngpinc.com/#sle](http://www.ngpinc.com/#sle).
- B. Grades: Comply with BHMA A156.22.
- C. Products:
  - 1. Weatherstripping: See Door Hardware Schedule.
  - 2. Door Bottom Seals:
    - a. Door Sweeps: See Door Hardware Schedule.
    - b. Door Shoes: See Door Hardware Schedule.

#### **4.19 MISCELLANEOUS ITEMS**

- A. Manufacturers:
  - 1. Trimco: [www.trimcohardware.com/#sle](http://www.trimcohardware.com/#sle).
- B. Properties:
  - 1. Silencers: Provide at equal locations on door frame to mute sound of door's impact upon closing.
    - a. Single Door: Provide three on strike jamb of frame.
    - b. Pair of Doors: Provide two on head of frame, one for each door at latch side.
    - c. Material: Rubber, gray color.
  - 2. Viewers: Provide at inside of door at eye level to see who is on outside of door, with integral door knocker.
    - a. Material: Brass.

#### **4.20 ELECTRIFIED HARDWARE**

- A. Manufacturers:
  - 1. dormakaba; dormakaba Group: [www.dormakaba.com/us-en/#sle](http://www.dormakaba.com/us-en/#sle).
- B. Properties:
  - 1. Wire Harnesses: Of sufficient length, with quick connectors.
    - a. Wire Harness End Connection to Power Supply or Junction Box: One end with bare leads.
- C. Products:
  - 1. Power Supplies:
    - a. RPSMLR2.
    - b. DKPS Series.
  - 2. Wire Harnesses:
    - a. BEST wire harnesses.

#### **4.21 KEYS AND CORES**

- A. Manufacturers:
  - 1. BEST, dormakaba Group: [www.bestaccess.com/#sle](http://www.bestaccess.com/#sle).
  - 2. dormakaba; dormakaba Group: [www.dormakaba.com/us-en/#sle](http://www.dormakaba.com/us-en/#sle).
- B. Properties: Complying with guidelines of BHMA A156.28.
  - 1. Provide small format interchangeable core.
  - 2. Provide keying information in compliance with DHI (KSN) standards.
  - 3. Keying Schedule: Arrange for a keying meeting, with Architect, Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct and keying complies with project requirements.
  - 4. Keying: Master keyed.
  - 5. Include construction keying and control keying with removable core cylinders.

6. Do not make brass construction cores and construction control and operating keys a part of Owner's permanent keying system, nor furnish in the same keyway (or key section) as Owner, permanent keying system.
7. Key to new keying system.
8. Supply keys in following quantities:
  - a. Grand Master Keys: 1 each.
  - b. Master Keys: 4 each.
  - c. Construction Master Keys: 6 each.
  - d. Construction Keys: 15 each.
  - e. Construction Control Keys: 2 each.
  - f. Control Keys if New System: 2 each.
  - g. Extra Cylinder Cores: 10 each.
  - h. Change Keys: 2 each for each keyed core.
9. Provide key collection envelopes, receipt cards, and index cards in quantity suitable to manage number of keys.
10. Deliver keys with identifying tags to Owner by security shipment direct from manufacturer.
11. Permanent Keys and Cores: Stamped with applicable key marking for identification. Do not include actual key cuts within visual key control marks or codes. Stamp permanent keys "Do Not Duplicate."
12. Include installation of permanent cores and return construction cores to hardware supplier. Construction cores and keys to remain property of hardware supplier.

#### **4.22 KEY CABINETS**

- A. Manufacturers:
  1. Lund Equipment Company, Inc: [www.lundkey.com/#sle](http://www.lundkey.com/#sle).
  2. Telkee: [www.telkee.com/#sle](http://www.telkee.com/#sle).
- B. Properties:
  1. Key Management System: For each keyed lock on project, provide one set of consecutively numbered duplicate key tags with hanging hole and snap catch.
  2. Security Key Tags: For each keyed lock on project, provide one set of matching key tags for permanent attachment to one key of each set.
  3. Mounting: Wall surface mounted.
  4. Capacity: Actual quantity of keys, plus 25 percent additional capacity.
- C. Finishes: Baked enamel, manufacturer's standard color.

#### **4.23 FIRE DEPARTMENT LOCK-BOXES**

- A. Manufacturers:
  1. Knox Company; Knox-Box Rapid Entry System, [www.knoxbox.com/#sle](http://www.knoxbox.com/#sle).
- B. Properties:
  1. Heavy-duty, surface mounted, solid steel box with hinged door and interior gasket seal; single drill-resistant lock with dust covers.
- C. Finishes: Manufacturer's standard coating.
  1. Color: Manufacturer's standard black.
- D. Material: Steel.

#### **4.24 FINISHES**

- A. Finishes: Provide door hardware of same finish, unless otherwise indicated.
  1. Finish: 630; satin stainless steel, with stainless steel 3000 series base material (former US equivalent 32D), 652; satin chromium plated over nickel, with steel base material (former US equivalent 26D), and 689; aluminum painted, with any base material (former US equivalent US28); BHMA A156.18.

### **PART 3 EXECUTION**

#### **5.01 EXAMINATION**

- A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.
- B. Correct all defects prior to proceeding with installation.
- C. Verify that electric power is available to power operated devices and of correct characteristics.

#### **5.02 INSTALLATION**

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Install hardware using the manufacturer's fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use "Riv-Nuts" or similar products.
- C. Install hardware on fire-rated doors and frames in accordance with applicable codes and NFPA 80.
- D. Install hardware for smoke and draft control doors in accordance with NFPA 105.
- E. Use templates provided by hardware item manufacturer.
- F. Do not install surface mounted items until application of finishes to substrate are fully completed.
- G. Wash down masonry walls and complete painting or staining of doors and frames.
- H. Complete finish flooring prior to installation of thresholds.
- I. Door Hardware Mounting Heights: Distance from finished floor to center line of hardware item. As indicated in following list, unless noted otherwise in Door Hardware Schedule or on drawings.
  - 1. For Steel Doors and Frames: Install in compliance with DHI (LOCS) recommendations.
  - 2. For Wood Doors: Install in compliance with DHI WDHS.3 recommendations.
  - 3. Mounting heights in compliance with operational and ADA Standards:
- J. Set exterior door thresholds with full-width bead of elastomeric sealant at each point of contact with floor providing a continuous weather seal, anchor thresholds with stainless steel countersunk screws.
- K. Include in installation for existing doors and frames any necessary field modification and field preparation of doors and frames for new hardware. Provide necessary fillers, reinforcements, and fasteners for mounting new hardware and to cover existing door and frame preparations.

#### **5.03 FIELD QUALITY CONTROL**

- A. Perform field inspection and testing under provisions of Section 01 40 00 - Quality Requirements.
- B. Provide an Architectural Hardware Consultant (AHC) to inspect installation and certify that hardware and installation has been furnished and installed in accordance with manufacturer's instructions and as specified.

#### **5.04 ADJUSTING**

- A. Adjust work under provisions of Section 01 70 00 - Execution and Closeout Requirements.

#### **5.05 CLEANING**

- A. Clean finished hardware in accordance with manufacturer's written instructions after final adjustments have been made.
- B. Clean adjacent surfaces soiled by hardware installation activities.
- C. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.

- D. See Section 01 74 19 - Construction Waste Management and Disposal, for additional requirements.

**5.06 PROTECTION**

- A. Protect finished Work under provisions of Section 01 70 00 - Execution and Closeout Requirements.
- B. Do not permit adjacent work to damage hardware or finish.

Manufacturer List

<b>Code</b>	<b>Name</b>
BE	Best Access Systems
BY	By Related Section
DM	Dorma Door Controls
ENER	EnerSys
NA	National Guard
PR	BEST Precision Exit Devices
RC	RCI
SDCC	Security Door Controls
SH	dormakaba Commercial Hardware
ST	BEST Hinges and Sliding
TR	Trimco

Option List

<b>Code</b>	<b>Description</b>
B4E-HEAVY-KP	BEVELED 4 EDGES - KICK PLATES
BF	BARRIER FREE
BYP	CONCEALED SWITCH TO BYPASS HO FUNCTION
C	QUICK CONNECT WIRING OPTION
CA-03	CYLINDER ATTACHMENT KIT (RIM/SVR DEVICE)
CD	CYLINDER DOGGING
CORMAX	
PATENTED KEYING	CORMAX PATENTED KEYING
CSK	COUNTER SINKING OF KICK AND MOP PLATES
ER 2	2" EXTENSION ROD - 689 ONLY
FL	FIRE EXIT HARDWARE
FSE	FAIL SECURE
LBR	LESS BOTTOM ROD
MCS	MULLION CAP SPACER (OTHER FINISHES)
MLR	MOTORIZED LATCH RETRACTION
P	FULL SIZE PLASTIC COVER
S1	ANSI - DEADBOLT STRIKE
TS	TOUCHBAR MONITORING SWITCH
VIB	DOUBLE VISUAL INDICATOR OPTION

# Eastchester UFSD Multiple School Hardware Sets

## Finish List

<b>Code</b>	<b>Description</b>
626	Satin Chromium Plated
630	Satin Stainless Steel
689	Aluminum Painted
AL	Aluminum
GREY	Grey
PC	Prime Coat
Silver	Silver

# Eastchester UFSD Multiple School Hardware Sets

## Hardware Sets

### Set #01 - EXIT DEVICE PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Rim Exit Device			
	Passage FR	FL 2114 X 4914A	630	PR
1	Magnetic Hold Open	EM 509 x ER EXTENSION TO SUIT	689	DM
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

1. FIRE RATED EXIT DEVICE TO BE HELD OPEN BY MAGNETIC HOLD OPEN.
2. MAGNETIC HOLD OPEN TO BE WIRED DIRECTLY THE FIRE ALARM SYSTEM'
3. IN A FIRE ALARM THE MAGNETIC HOLD OPEN WILL RELEASE AND THE DOORS WILL CLOSE AND LATCH. (NON LOCKING)

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**NEW DOOR / EXISTING FRAME**

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

### Set #01.1 - EXIT DEVICE PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Rim Exit Device			
	Passage FR	FL 2114 X 4914A	630	PR
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

**NEW DOOR / EXISTING FRAME**

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

### Set #01.1.NEW - EXIT DEVICE PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Rim Exit Device Passage	FL 2114 X 4914A	630	PR
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

**NEW DOOR / NEW FRAME**

# Eastchester UFSD Multiple School Hardware Sets

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING

## Set #01.2 - EXIT DEVICE PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Rim Exit Device			
	Passage FR	FL 2114 X 4914A	630	PR
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

## Set #01.2.NEW - EXIT DEVICE PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Rim Exit Device			
	Passage FR	FL 2114 X 4914A	630	PR
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR X NEW FRAME

## Set #01.3 - EXIT DEVICE PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Rim Exit Device Passage	FL 2114 X 4914A	630	PR
1	Magnetic Hold Open	EM 509 x ER EXTENSION TO SUIT	689	DM
1	Door Closer	QDC115 BFP PUSH SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Power Supply	POWER SUPPLY BY OTHERS		BY
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

NOTE:

1. FIRE RATED EXIT DEVICE TO BE HELD OPEN BY MAGNETIC HOLD OPEN.
2. MAGNETIC HOLD OPEN TO BE WIRED DIRECTLY THE FIRE ALARM SYSTEM'
3. IN A FIRE ALARM THE MAGNETIC HOLD OPEN WILL RELEASE AND THE DOORS WILL CLOSE AND LATCH. (NON LOCKING)

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NEW DOOR / EXISTING FRAME

# Eastchester UFSD Multiple School Hardware Sets

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

## Set #01.3.NEW - EXIT DEVICE PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Rim Exit Device Passage	FL 2114 X 4914A	630	PR
1	Magnetic Hold Open	EM 509 x ER EXTENSION TO SUIT	689	DM
1	Door Closer	QDC115 BFP PUSH SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Power Supply	POWER SUPPLY BY OTHERS		BY
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

NOTE:  
NEW DOOR X NEW FRAME

- NOTE:
1. FIRE RATED EXIT DEVICE TO BE HELD OPEN BY MAGNETIC HOLD OPEN.
  2. MAGNETIC HOLD OPEN TO BE WIRED DIRECTLY THE FIRE ALARM SYSTEM'
  3. IN A FIRE ALARM THE MAGNETIC HOLD OPEN WILL RELEASE AND THE DOORS WILL CLOSE AND LATCH. (NON LOCKING)

## Set #01.NEW - EXIT DEVICE PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Rim Exit Device Passage	FR FL 2114 X 4914A	630	PR
1	Magnetic Hold Open	EM 509 x ER EXTENSION TO SUIT	689	DM
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

1. NEW DOOR X NEW FRAME

- NOTE:
1. FIRE RATED EXIT DEVICE TO BE HELD OPEN BY MAGNETIC HOLD OPEN.
  2. MAGNETIC HOLD OPEN TO BE WIRED DIRECTLY THE FIRE ALARM SYSTEM'
  3. IN A FIRE ALARM THE MAGNETIC HOLD OPEN WILL RELEASE AND THE DOORS WILL CLOSE AND LATCH. (NON LOCKING)

## Set #02 - OFFICE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Office Lockset	45H-7A15H PATD CORMAX PATENTED KEYING S1		626
	BE			
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC115 BFP PUSH SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY

# Eastchester UFSD Multiple School Hardware Sets

3	Silencer	1229A	GREY	TR
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**NOTE:**

NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

**Set #02.1 - OFFICE**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Office Function Lockset BE	45H-7A15H PATD CORMAX PATENTED KEYING S1		626
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Drop Plate Kit	QDC100 DROP PLATE KIT 'TO SUIT'	689	SH
1	Overhead Stop	701 S	626	DM
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Mounting Bracket	3095/3096 AS REQUIRED	Silver	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

**Set #02.2 - OFFICE**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Office Function Lockset BE	45H-7A15H PATD CORMAX PATENTED KEYING S1		626
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

**NOTE:**

NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

**Set #03 - STOREROOM**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Storeroom Lockset BE	45H-7D15H PATD CORMAX PATENTED KEYING S1		626
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Drop Plate Kit	QDC100 DROP PLATE KIT 'TO SUIT'	689	SH
1	Overhead Stop	701 S	626	DM
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR

## Eastchester UFSD Multiple School Hardware Sets

1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

**NOTE:**

1. PROVIDE MOUNTING PLATE, TEMPLATE AND ALL NEEDED HARDWARE TO AVOID MOUNTING CONFLICTS WITH CLOSER AND OVERHEAD STOP.

**NEW DOOR / EXISTING FRAME**

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

**Set #03.1 - STOREROOM**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Storeroom Lockset	45H-7D15H PATD CORMAX PATENTED KEYING S1		626
	BE			
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

**NOTE:**

**NEW DOOR / EXISTING FRAME**

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

**Set #03.2 - STOREROOM**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Storeroom Lockset	45H-7D15H PATD CORMAX PATENTED KEYING S1		626
	BE			
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Drop Plate Kit	QDC100 DROP PLATE KIT 'TO SUIT'	689	SH
1	Overhead Stop	701 S	626	DM
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

**NOTE:**

1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

**Set #03.2.NEW - STOREROOM**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Storeroom Function Lockset	45H-7D15H PATD CORMAX PATENTED KEYING S1		626
	BE			
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH

## Eastchester UFSD Multiple School Hardware Sets

1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

### Set #03.3 - STOREROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Storeroom Lockset BE	45H-7D15H PATD CORMAX PATENTED KEYING S1		626
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC115 BFP PUSH SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

### Set #03.3.NEW - STOREROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Storeroom Function Lockset BE	45H-7D15H PATD CORMAX PATENTED KEYING S1		626
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC115 BFP PUSH SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

#### NOTE:

NEW DOOR X NEW FRAME

### Set #03.NEW - STOREROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Storeroom Function			
2	Lockset BE	45H-7D15H PATD CORMAX PATENTED KEYING S1		626
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Drop Plate Kit	QDC100 DROP PLATE KIT 'TO SUIT'	689	SH
1	Overhead Stop	701 S	626	DM
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

# Eastchester UFSD Multiple School Hardware Sets

## Set #04 - MULTI USE RESTROOM PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Passage Set	45H-0N15H S1	626	BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Dome Stop	1211	626	TR
3	Silencer	1229A	GREY	TR

NOTE:

NOTE:

1. MULTI USE FIRE RATED BATHROOM - PASSAGE FUNCTION

NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

## Set #04.1 - MULTI USE RESTROOM PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Passage Set	45H-0N15H S1	626	BE
1	Door Closer	QDC115 BFP PUSH SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
3	Silencer	1229A	GREY	TR

NOTE:

NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

## Set #04.2 - MULTI USE RESTROOM PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Passage Set	45H-0N15H S1	626	BE
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
3	Silencer	1229A	GREY	TR

NOTE:

1. MULTI USE FIRE RATED BATHROOM - PASSAGE FUNCTION

NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

## Set #04.3 - MULTI USE RESTROOM PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Passage Set	45H-0N15H S1	626	BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH

## Eastchester UFSD Multiple School Hardware Sets

1	Drop Plate Kit	QDC100 DROP PLATE KIT 'TO SUIT'	689	SH
1	Overhead Stop	701 S	626	DM
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Dome Stop	1211	626	TR
3	Silencer	1229A	GREY	TR

### NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

### Set #04.3.NEW - MULTI USE RESTROOM PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Passage Set	45H-0N15H S1	626	BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Drop Plate Kit	QDC100 DROP PLATE KIT 'TO SUIT'	689	SH
1	Overhead Stop	701 S	626	DM
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Dome Stop	1211	626	TR
3	Silencer	1229A	GREY	TR

NOTE:

NEW DOOR X NEW FRAME

### Set #05 - SINGLE USE BATHROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Privacy Lockset Visual Ind	45H-7T15H PATD CORMAX PATENTED KEYING S1 VIB	626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

NOTE:

NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

### Set #05.1 - SINGLE USE BATHROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Privacy Lockset Visual Ind	45H-7T15H PATD CORMAX PATENTED KEYING S1 VIB	626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC115 BFP PUSH SIDE	689	SH

## Eastchester UFSD Multiple School Hardware Sets

1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

### NOTE:

NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

### Set #05.2 - SINGLE USE BATHROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Privacy Lockset			
	Visual Ind	45H-7T15H PATD CORMAX		
		PATENTED KEYING S1 VIB	626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC115 BFP PUSH SIDE	689	SH
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

### Set #05.2.NEW - SINGLE USE BATHROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)		
	AL	ST		
1	Lockset	45H-7T15H PATD S1 VIB	626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

### NOTE:

NEW DOOR X NEW FRAME

### Set #05.3 - SINGLE USE BATHROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)		
	AL	ST		
1	Lockset	45H-7T15H PATD S1 VIB	626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Drop Plate Kit	QDC100 DROP PLATE KIT 'TO SUIT'	689	SH
1	Overhead Stop	701 S	626	DM
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

## Eastchester UFSD Multiple School Hardware Sets

### Set #05.3.NEW - SINGLE USE BATHROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)		
	AL	ST		
1	Lockset	45H-7T15H PATD S1 VIB	626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Drop Plate Kit	QDC100 DROP PLATE KIT 'TO SUIT'	689	SH
1	Overhead Stop	701 S	626	DM
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

### Set #05.NEW - SINGLE USE BATHROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Lockset	45H-7T15H PATD S1 VIB	626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

### Set #06 - PAIR, STOREROOM LOCK

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Dust Proof Strike	3911	626	TR
1	Automatic Flush Bolt	3815L X 3815L X 3850	626	TR
1	Storeroom Lockset	45H-7D15H PATD CORMAX PATENTED KEYING S1		626
	BE			
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Coordinator	3094B SERIES x LENGTH AS REQUIRED	PC	TR
2	Door Closer	QDC115 BFP PUSH SIDE	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mounting Bracket	3095/3096 AS REQUIRED	Silver	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

#### NOTE:

NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

### Set #06.1 - PAIR, STOREROOM LOCK

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
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Eastchester UFSD Multiple School Hardware Sets

1	Dust Proof Strike	3911	626	TR
1	Automatic Flush Bolt	3815L X 3815L X 3850	626	TR
1	Storeroom Lockset	45H-7D15H PATD CORMAX PATENTED KEYING S1	626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Coordinator	3094B SERIES x LENGTH AS REQUIRED	PC	TR
2	Door Closer	QDC 111 BF P PULL SIDE	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mounting Bracket	3095/3096 AS REQUIRED	Silver	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

**Set #06.1.NEW - PAIR, STOREROOM LOCK**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Dust Proof Strike	3911	626	TR
1	Automatic Flush Bolt	3815L X 3815L X 3850	626	TR
1	Storeroom Lockset	45H-7D15H PATD CORMAX PATENTED KEYING S1	626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Coordinator	3094B SERIES x LENGTH AS REQUIRED	PC	TR
2	Door Closer	QDC 111 BF P PULL SIDE	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mounting Bracket	3095/3096 AS REQUIRED	Silver	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / NEW FRAME

**Set #07 - EXIT DEVICE PASSAGE**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
2	SVR, FR, Exit Passage, LBR	FL 2214 X 4914A LBR	630	PR
2	Magnetic Hold Open	EM 509 x ER EXTENSION TO SUIT	689	DM
2	Door Closer	QDC115 BFP PUSH SIDE	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Power Supply	POWER SUPPLY BY OTHERS		BY
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / EXISTING FRAME

# Eastchester UFSD Multiple School Hardware Sets

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

1. DOOR TO BE ON MAGNETIC HOLD OPENS
2. TIED DIRECTLY TO THE FIRE ALARM SYSTEM
3. IN A FIRE ALARM DOORS TO CLOSE AND LATCH

## Set #07.1 - EXIT DEVICE PASSAGE

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
2	SVR, FR, Exit Passage	FL 2214 X 4914A	630	PR
2	Door Closer	QDC115 BFP PUSH SIDE	689	SH
2	Electromagnetic Closer	8916 EMR/PT BYP (VERIFY VOLTAGE REQ) PUSH SIDE	689	DM
2	Electromagnetic Closer	8916 EMF/PT BYP (VERIFY VOLTAGE REQ) PUSH SIDE	689	DM
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Power Supply	POWER SUPPLY BY OTHERS		BY
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / EXISTING FRAME

GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

- 1.DOORS TO BE ON ELECTROMAGNETIC HOLD OPEN CLOSERS (PUSH SIDE MOUNTED)
- 2.TIED DIRECTLY TO THE FIRE ALARM SYSTEM
- 3.IN A FIRE ALARM DOORS TO CLOSE AND LATCH

## Set #07.1.NEW - EXIT DEVICE PASSAGE

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
2	SVR, FR, Exit Passage	FL 2214 X 4914A	630	PR
2	Magnetic Hold Open	EM 509 x ER EXTENSION TO SUIT	689	DM
2	Door Closer	QDC115 BFP PUSH SIDE	689	SH
2	Electromagnetic Closer	8916 EMR/PT BYP (VERIFY VOLTAGE REQ) PUSH SIDE	689	DM
2	Electromagnetic Closer	8916 EMF/PT BYP (VERIFY VOLTAGE REQ) PUSH SIDE	689	DM
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Power Supply	POWER SUPPLY BY OTHERS		BY
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR X NEW FRAME

SURFACE VERTICAL ROD EXIT DEVICES PASSAGE FUNCTION

1. DOOR TO BE ON MAGNETIC HOLD OPENS

# Eastchester UFSD Multiple School Hardware Sets

- 2. TIED DIRECTLY TO THE FIRE ALARM SYSTEM
- 3. IN A FIRE ALARM DOORS TO CLOSE AND LATCH

**Set #07.NEW - EXIT DEVICE PASSAGE**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
2	SVR, FR, Exit Passage, LBR	FL 2214 X 4914A LBR	630	PR
2	Magnetic Hold Open	EM 509 x ER EXTENSION TO SUIT	689	DM
2	Door Closer	QDC115 BFP PUSH SIDE	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Power Supply	POWER SUPPLY BY OTHERS		BY
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR X NEW FRAME

- 1. DOOR TO BE ON MAGNETIC HOLD OPENS
- 2. TIED DIRECTLY TO THE FIRE ALARM SYSTEM
- 3. IN A FIRE ALARM DOORS TO CLOSE AND LATCH

**Set #08 - EXIT DEVICE STOREROOM**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
2	SVR EXIT DEVICE FR	FL 2203 X 4903A LBR	630	PR
4	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
4	Construction Core	7190224		BE
2	Rim Cylinder	12E-72 PATD	626	BE
2	Mortise Cylinder	1E-74 PATD	626	BE
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / EXISTING FRAME

- 1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
- 2.EXIT DEVICES EQUIPPED WITH CYLINDER DOGGING
- 3. WHEN LATCHES ARE RETRACTED DOORS ARE PUSH PULL
- 4. WHEN LATCHES ARE ENGAGED NEED KEY TO ENTER
- 5. ALWAYS FREE EGRESS

**Set #08.NEW - EXIT DEVICE STOREROOM**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
2	EXIT, FR, SVR	FL 2203 X 4903D LBR	630	PR
4	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
4	Construction Core	7190224		BE
2	Rim Cylinder	12E-72 PATD	626	BE
2	Mortise Cylinder	1E-74 PATD	626	BE

## Eastchester UFSD Multiple School Hardware Sets

2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

### Set #09.NEW - EXIT DEVICE PASSAGE

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Rim Exit Device			
	Classroom	FL 2108 X 4908A	630	PR
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

#### NOTE:

NEW DOOR X NEW FRAME

1. EXIT DEVICE CLASSROOM FUNCTION LEVER

### Set #10.NEW - EXIT DEVICE PR CR,OP EXTERIOR

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Power Transfer	EPT-12C		PR
1	Removable Mullion	KR822 MCS	689	PR
1	MLR Exit Device Rim EO	C MLR TS 2103	630	PR
1	MLR Exit Device Rim	C MLR TS 2103 CA-03	630	PR
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Operator	ED100LE PUSH ARM	CL	DM
1	Door Position Switch	MC4		DM
1	Power Supply	RPSMLR2BB		PR
2	Actuator	910TC	32D	RC
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
2	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY
2	Gasketing	5050 B @ HEAD AND JAMBS		NA

#### NOTE:

NEW DOOR / NEW FRAME

1. EXIT DEVICES EQUIPPED WITH MOTORIZED LATCH RETRACTION
2. CARD READER TO ALLOW AUTHORIZED ENTRY
3. ACTUATOR TO ENGAGE AUTO OPERATOR FOR ADA ACCESSIBILITY
4. ALWAYS FREE EGRESS
5. DOOR POSITION SWITCHES
6. IF NEW FRAME IS SPECIFIED PROVIDE EPT12C POWER TRANSFER (FACTORY PREP DOOR)

## Eastchester UFSD Multiple School Hardware Sets

AND FRAME)

7. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

### Set #11.NEW - PAIR, STOREROOM LOCK

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Dust Proof Strike	3911	626	TR
1	Automatic Flush Bolt	3815L X 3815L X 3850	626	TR
1	Storeroom Function Lockset BE	45H-7D15H PATD CORMAX PATENTED KEYING S1		626
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Coordinator	3094B SERIES x LENGTH AS REQUIRED	PC	TR
2	Door Closer	QDC115 BFP PUSH SIDE	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
2	Wall Bumper	1270CV	626	TR
1	Mounting Bracket	3095/3096 AS REQUIRED	BLACK	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

### Set #12 - EXIT DEVICE CLASSROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Rim Exit Device Classroom	FL 2108 X 4908A	630	PR
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

### Set #12.NEW - EXIT DEVICE CLASSROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Rim Exit Device Classroom	FL 2108 X 4908A	630	PR
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

# Eastchester UFSD Multiple School Hardware Sets

NOTE:  
NEW DOOR X NEW FRAME

## Set #14 - CLASSROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Classroom Function BE	45H-7R12H PATD CORMAX PATENTED KEYING S1		626
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

NOTE:

NOTE:  
NEW DOOR / EXISTING FRAME  
GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

## Set #14.1 - CLASSROOM

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Classroom Function BE	45H-7R12H PATD CORMAX PATENTED KEYING S1		626
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC115 BFP PUSH SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

NOTE:

NEW DOOR / EXISTING FRAME  
GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

## Set #C0R.01 - NEW CORE

1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Existing Hardware	ALL OTHER EXISTING HARDWARE TO REMAIN		BY

## Set #C0R.02 - NEW CORE, NEW CARD

1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Card Reader BY	CARD READER BY OWNER'S SECURITY VENDOR		

## Set #C0R.03 - NEW CORE, NEW DOOR CONTACTS

1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
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# Eastchester UFSD Multiple School Hardware Sets

1 Door Position Switch MC4 DM

**Set #CR01 - CARD READER ELECTRIC LOCK**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Power Transfer	EPT-12C		PR
1	Electromechanical Lock	45HW-7DEU15H PATD CORMAX PATENTED KEYING RQE S1	626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Threshold	AS DETAILED		BY
3	Silencer	1229A	GREY	TR

NOTE:

NEW DOOR / EXISTING FRAME  
 GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

1. CARD READER TO UNLOCK ELECTRIC LOCK
2. ALWAYS FREE EGRESS

**Set #EX01 - EXIT DEVICE PR CD**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Removable Mullion	KR822 MCS	689	PR
1	Rim Exit Device Keyed	2103 CA-03 CD	630	PR
1	Rim Exit Device EO	2103 CD	630	PR
4	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
4	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
3	Mortise Cylinder	1E-74 PATD	626	BE
2	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Door Position Switch	MC4		DM
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
2	Weatherstripping	700 EN HEAD x JAMB		NA
2	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

NOTE:

- NEW DOOR / EXISTING FRAME
1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
  2. EXIT DEVICES EQUIPPED WITH CYLINDER DOGGING
  3. WHEN LATCHES ARE RETRACTED DOORS ARE PUSH PULL
  4. WHEN LATCHES ARE ENGAGED NEED KEY TO ENTER
  5. ALWAYS FREE EGRESS
  6. (2) DOOR POSITION SWITCHES

## Eastchester UFSD Multiple School Hardware Sets

7. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

### Set #EX01.1.NEW - EXIT DEVICE PR CD

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Removable Mullion	KR822 MCS	689	PR
1	Rim Exit Device Keyed	2103 CA-03 CD	630	PR
1	Rim Exit Device EO	2103 CD	630	PR
4	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
4	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
3	Mortise Cylinder	1E-74 PATD	626	BE
2	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Door Position Switch	MC4		DM
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
2	Weatherstripping	700 EN HEAD x JAMB		NA
2	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / NEW FRAME

1. EXIT DEVICES EQUIPPED WITH CYLINDER DOGGING
2. WHEN LATCHES ARE RETRACTED DOORS ARE PUSH PULL
3. WHEN LATCHES ARE ENGAGED NEED KEY TO ENTER
4. ALWAYS FREE EGRESS
5. (2) DOOR POSITION SWITCHES
6. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

### Set #EX01.A.NEW - EXIT DEVICE PR CD

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Removable Mullion	KR822 MCS	689	PR
1	Exit Device	2103 CA-03 CD	630	PR
1	Exit Device	2103 CD	630	PR
2	FEMA Exit Device	DOOR MFG	630	SECU
4	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
4	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
3	Mortise Cylinder	1E-74 PATD	626	BE
2	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Door Position Switch	RE-USE EXISTING DOOR POSITION SWITCH		BY
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
2	Weatherstripping	700 EN HEAD x JAMB		NA
2	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

NOTE:

NOTE:

NEW DOOR / NEW FRAME

1. EXIT DEVICES EQUIPPED WITH CYLINDER DOGGING
2. WHEN LATCHES ARE RETRACTED DOORS ARE PUSH PULL

# Eastchester UFSD Multiple School Hardware Sets

3. WHEN LATCHES ARE ENGAGED NEED KEY TO ENTER
4. ALWAYS FREE EGRESS
5. RE-USE (2) DOOR POSITION SWITCHES
6. ARMOURED ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER.

## Set #EX01.NEW - EXIT DEVICE PR CD

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Removable Mullion	KR822 MCS	689	PR
1	Rim Exit Device Keyed	2103 CA-03 CD	630	PR
1	Rim Exit Device EO	2103 CD	630	PR
4	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
4	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
3	Mortise Cylinder	1E-74 PATD	626	BE
2	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Door Position Switch	MC4		DM
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
2	Weatherstripping	700 EN HEAD x JAMB		NA
2	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

**NEW DOOR / NEW FRAME**

1. EXIT DEVICES EQUIPPED WITH CYLINDER DOGGING
2. WHEN LATCHES ARE RETRACTED DOORS ARE PUSH PULL
3. WHEN LATCHES ARE ENGAGED NEED KEY TO ENTER
4. ALWAYS FREE EGRESS
5. (2) DOOR POSITION SWITCHES
6. ARMOURED ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER.

## Set #EX02 - EXTERIOR CARD READER

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	MLR Exit Device Rim	C MLR TS 2103 CA-03	630	PR
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		
		BY		
1	Door Position Switch	MC4		DM
1	Door Loop	9509 LENGTH TO SUIT	Silver	RC
1	Power Supply	RPSMLR2BB		PR
1	Weatherstripping	700 EN HEAD x JAMB		NA
1	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

# Eastchester UFSD Multiple School Hardware Sets

**NOTE:**

**NEW DOOR / EXISTING FRAME**

1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
2. EXIT DEVICES EQUIPPED WITH MOTORIZED LATCH RETRACTION
3. CARD READER TO ALLOW AUTHORIZED ENTRY
5. ALWAYS FREE EGRESS
6. DOOR POSITION SWITCHES
7. IF NEW FRAME IS SPECIFIED PROVIDE EPT12C POWER TRANSFER (FACTORY PREP DOOR AND FRAME)
8. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

**Set #EX02.NEW - EXTERIOR CARD READER**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Power Transfer	EPT-12C		PR
1	MLR Exit Device Rim	C MLR TS 2103 CA-03	630	PR
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR BY		
1	Door Position Switch	MC4		DM
1	Power Supply	RPSMLR2BB		PR
1	Weatherstripping	700 EN HEAD x JAMB		NA
1	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

1. NEW DOOR / NEW FRAME
2. EXIT DEVICES EQUIPPED WITH MOTORIZED LATCH RETRACTION
3. CARD READER TO ALLOW AUTHORIZED ENTRY
5. ALWAYS FREE EGRESS
6. DOOR POSITION SWITCHES
7. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

**Set #EX02.A NEW - EXTERIOR CARD READER**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Power Transfer	EPT-12C		PR
1	Exit Device	C MLR 2103 CA-03	630	PR
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Door Position Switch	MC4		DM
1	Power Supply	RPSMLR2BB		PR
1	Weatherstripping	700 EN HEAD x JAMB		NA
1	Door Sweep	200 NA SIZE TO SUIT		NA

# Eastchester UFSD Multiple School Hardware Sets

1	Threshold	AS DETAILED		BY
1	Card Reader	RE-USE EXISTING CARD READER		BY
1	Door Position Switch	RE-USE EXISTING DOOR POSITION SWITCH		BY

**NOTE:**

1. NEW DOOR / NEW FRAME
2. EXIT DEVICES EQUIPPED WITH MOTORIZED LATCH RETRACTION
3. CARD READER TO ALLOW AUTHORIZED ENTRY
4. ALWAYS FREE EGRESS
5. RE USE DOOR POSITION SWITCHES
6. RE-USE EXISTING CARD READER
7. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

**Set #EX03 - EXTERIOR KEYED ENTRY**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Rim Exit Device Keyed	2103 CA-03	630	PR
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Door Position Switch	MC4		DM
1	Weatherstripping	700 EN HEAD x JAMB		NA
1	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

- NEW DOOR / EXISTING FRAME
1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
  2. EXIT DEVICES WITH KEY CYLINDER TO ENTER
  3. ALWAYS FREE EGRESS
  4. DOOR POSITION SWITCHES
  5. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

**Set #EX03.NEW - EXTERIOR KEYED ENTRY**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Rim Exit Device Keyed	2103 CA-03	630	PR
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Door Position Switch	MC4		DM
1	Weatherstripping	700 EN HEAD x JAMB		NA
1	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

- NEW DOOR / NEW FRAME
1. EXIT DEVICES WITH KEY CYLINDER TO ENTER

# Eastchester UFSD Multiple School Hardware Sets

- 2. ALWAYS FREE EGRESS
- 3. DOOR POSITION SWITCHES
- 4. ARMOURED ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

## Set #EX03.1 NEW - EXTERIOR KEYED ENTRY

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Exit Device	2103 CA-03 CD	630	PR
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
1	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Door Position Switch	RE-USE EXISTING DOOR POSITION SWITCH		BY
1	Weatherstripping	700 EN HEAD x JAMB		NA
1	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

NOTE:

### NEW DOOR / NEW FRAME

- 1. EXIT DEVICES WITH KEY CYLINDER TO ENTER
- 2. ALWAYS FREE EGRESS
- 3. RE-USE EXISTING DOOR POSITION SWITCHES
- 4. ARMOURED ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

## Set #EX04 - EXIT DEVICE PR CARD READER

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Removable Mullion	KR822 MCS	689	PR
2	Power Transfer	EPT-12C		PR
1	MLR Exit Device Rim	C MLR TS 2103 CA-03	630	PR
1	MLR Exit Device Rim EO	C MLR TS 2103	630	PR
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		BY
1	Door Position Switch	MC4		DM
1	Door Loop	9509 LENGTH TO SUIT	Silver	RC
1	Power Supply	RPSMLR2BB		PR
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
2	Weatherstripping	700 EN HEAD x JAMB		NA
2	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

NOTE:

### NEW DOOR / EXISTING FRAME

- 1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER

# Eastchester UFSD Multiple School Hardware Sets

- BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
- 2. EXIT DEVICES EQUIPPED WITH MOTORIZED LATCH RETRACTION
- 3. CARD READER TO ALLOW AUTHORIZED ENTRY
- 5. ALWAYS FREE EGRESS
- 6. DOOR POSITION SWITCHES
- 7. IF NEW FRAME IS SPECIFIED PROVIDE EPT12C POWER TRANSFER (FACTORY PREP DOOR AND FRAME)
- 8. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

**Set #EX04.NEW - EXIT DEVICE PR CARD READER**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
2	Power Transfer	EPT-12C		PR
1	Removable Mullion	KR822 MCS	689	PR
1	MLR Exit Device Rim	C MLR TS 2103 CA-03	630	PR
1	MLR Exit Device Rim EO	C MLR TS 2103	630	PR
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR BY		
1	Door Position Switch	MC4		DM
1	Power Supply	RPSMLR2BB		PR
1	Power Transfer	EPT-12C		PR
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
2	Weatherstripping	700 EN HEAD x JAMB		NA
2	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

**NEW DOOR / NEW FRAME**

- 1. EXIT DEVICES EQUIPPED WITH MOTORIZED LATCH RETRACTION
- 2. CARD READER TO ALLOW AUTHORIZED ENTRY
- 3. ALWAYS FREE EGRESS
- 4. DOOR POSITION SWITCHES
- 5. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

**Set #EX04.A NEW - EXIT DEVICE PR CARD READER**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
2	Power Transfer	EPT-12C		PR
1	Removable Mullion	KR822 MCS	689	PR
1	Exit Device	C MLR 2103 CA-03	630	PR
1	Exit Device	C MLR 2103	630	PR
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Card Reader	RE-USE EXISTING CARD READER		BY

Eastchester UFSD Multiple School Hardware Sets

2	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		
	BY			
1	Door Position Switch	MC4		DM
1	Power Supply	RPSMLR2BB		PR
1	Power Transfer	EPT-12C		PR
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
2	Weatherstripping	700 EN HEAD x JAMB		NA
2	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

NOTE:

NOTE:

NEW DOOR / NEW FRAME

1. EXIT DEVICES EQUIPPED WITH MOTORIZED LATCH RETRACTION
2. CARD READER TO ALLOW AUTHORIZED ENTRY
3. ALWAYS FREE EGRESS
4. DOOR POSITION SWITCHES
5. RE-USE EXISTING CARD READER
6. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

**Set #EX04.B NEW - EXIT DEVICE PR CARD READER**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
2	Power Transfer	EPT-12C		PR
1	Removable Mullion	KR822 MCS	689	PR
1	Exit Device	C MLR 2103 CA-03	630	PR
1	Exit Device	C MLR 2103	630	PR
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		
	BY			
1	Card Reader	RE-USE EXISTING CARD READER		BY
2	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Power Supply	RPSMLR2BB		PR
1	Power Transfer	EPT-12C		PR
2	Door Position Switch	RE-USE EXISTING DOOR POSITION SWITCH		BY
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
2	Weatherstripping	700 EN HEAD x JAMB		NA
2	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / NEW FRAME

1. EXIT DEVICES EQUIPPED WITH MOTORIZED LATCH RETRACTION
2. CARD READER TO ALLOW AUTHORIZED ENTRY
3. ALWAYS FREE EGRESS

# Eastchester UFSD Multiple School Hardware Sets

- 4. RE-USE DOOR POSITION SWITCHES
- 5. RE-USE EXISTING CARD READER
- 6. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

## Set #EX05 - EXIT DEVICE PR CR EXTERIOR

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
2	Power Transfer	EPT-12C		PR
1	Removable Mullion	KR822 MCS	689	PR
1	MLR Exit Device Rim	C MLR TS 2103 CA-03	630	PR
1	MLR Exit Device Rim EO	C MLR TS 2103	630	PR
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Operator	ED100LE PUSH ARM	CL	DM
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR BY		
1	Door Position Switch	MC4		DM
1	Door Loop	9509 LENGTH TO SUIT	Silver	RC
1	Power Supply	RPSMLR2BB		PR
2	Actuator	910TC	32D	RC
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
2	Weatherstripping	700 EN HEAD x JAMB		NA
2	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

NEW DOOR / EXISTING FRAME

- 1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
- 2. EXIT DEVICES EQUIPPED WITH MOTORIZED LATCH RETRACTION
- 3. CARD READER TO ALLOW AUTHORIZED ENTRY
- 4. ACTUATOR TO ENGAGE AUTO OPERATOR FOR ADA ACCESSIBILITY
- 5. ALWAYS FREE EGRESS
- 6. DOOR POSITION SWITCHES
- 7. IF NEW FRAME IS SPECIFIED PROVIDE EPT12C POWER TRANSFER (FACTORY PREP DOOR AND FRAME)
- 8. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

## Set #EX05.NEW - EXIT DEVICE PR CR,OP EXTERIOR

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
2	Power Transfer	EPT-12C		PR
1	Removable Mullion	KR822 MCS	689	PR
1	MLR Exit Device Rim	C MLR TS 2103 CA-03	630	PR

# Eastchester UFSD Multiple School Hardware Sets

1	MLR Exit Device Rim EO	C MLR TS 2103	630	PR
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Operator	ED100LE PUSH ARM	CL	DM
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		
	BY			

1	Door Position Switch	MC4		DM
1	Power Supply	RPSMLR2BB		PR
2	Actuator	910TC	32D	RC
2	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
2	Weatherstripping	700 EN HEAD x JAMB		NA
2	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

NOTE:  
NEW DOOR / NEW FRAME

1. EXIT DEVICES EQUIPPED WITH MOTORIZED LATCH RETRACTION
2. CARD READER TO ALLOW AUTHORIZED ENTRY
3. ACTUATOR TO ENGAGE AUTO OPERATOR FOR ADA ACCESSIBILITY
4. ALWAYS FREE EGRESS
5. DOOR POSITION SWITCHES
6. IF NEW FRAME IS SPECIFIED PROVIDE EPT12C POWER TRANSFER (FACTORY PREP DOOR AND FRAME)
7. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER
8. ARMoured ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

**Set #EX06 - EXTERIOR KEYED ENTRY**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Rim Exit Device Keyed	2103 CA-03	630	PR
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Flush Door Pull	FLUSH DOOR PULLS BY FRP DOOR MFG	630	BY
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Door Position Switch	MC4		DM
1	Weatherstripping	700 EN HEAD x JAMB		NA
1	Door Sweep	200 NA SIZE TO SUIT		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / EXISTING FRAME

1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
2. DOOR POSITION SWITCHES

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- 3. IF NEW FRAME IS SPECIFIED PROVIDE EPT12C POWER TRANSFER (FACTORY PREP DOOR AND FRAME)
- 4. ARMOURED ONE SHOOTER ATTACK GLASS - MUST CONFIRM HARDWARE IS TESTED AND APPROVED BY GLASS MANUFACTURER

**Set #NIC - NOT IN CONTRACT**

**Set #S-01 - SHELTER LOCK**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
<del>1</del>	<del>Shelter Electromechanical</del>	<del>Lock</del>	<del>45HX 7R15H PATD CORMAX PATENTED KEYING S1</del>	<del>626</del>
				<del>BE</del>
1	Intruder Function (Thumb Turn)		45H-7IND15H VIT	
	PATD CORMAX PATENTED KEYING S1		626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Dome Stop	1211	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / EXISTING FRAME

- 1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
- 2. KEY FOB TO INITIATE LOCK DOWN
- 3. LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM

**Set #S-01.1 - SHELTER LOCK**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
<del>1</del>	<del>Shelter Electromechanical</del>	<del>Lock</del>	<del>45HX 7R15H PATD CORMAX PATENTED KEYING S1</del>	<del>626</del>
				<del>BE</del>
1	Intruder Function (Thumb Turn)		45H-7IND15H VIT	
	PATD CORMAX PATENTED KEYING S1		626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Drop Plate Kit	QDC100 DROP PLATE KIT 'TO SUIT'	689	SH
1	Overhead Stop	701 S	626	DM
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Dome Stop	1211	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / EXISTING FRAME

- 1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
- 2. KEY FOB TO INITIATE LOCK DOWN

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## 3. LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM

### Set #S-01.1.NEW - SHELTER LOCK

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
<del>4</del>	<del>Shelter Electromechanical</del>			
	<del>Lock</del>	<del>45HX 7R15H PATD CORMAX PATENTED KEYING S1</del>		<del>626</del>
	<del>BE</del>			
1	Intruder Function (Thumb Turn)		45H-7IND15H VIT	
	PATD CORMAX PATENTED KEYING S1		626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Drop Plate Kit	QDC100 DROP PLATE KIT 'TO SUIT'	689	SH
1	Overhead Stop	701 S	626	DM
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Dome Stop	1211	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

### Set #S-01.2 - SHELTER LOCK

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
<del>4</del>	<del>Shelter Electromechanical</del>			
	<del>Lock</del>	<del>45HX 7R15H PATD CORMAX PATENTED KEYING S1</del>		<del>626</del>
	<del>BE</del>			
1	Intruder Function (Thumb Turn)		45H-7IND15H VIT	
	PATD CORMAX PATENTED KEYING S1		626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC115 BFP PUSH SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Wall Bumper	1270CV	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / EXISTING FRAME

1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.

2. KEY FOB TO INITIATE LOCK DOWN

3. LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM

### Set #S-01.2.NEW - SHELTER LOCK

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
<del>4</del>	<del>Shelter Electromechanical</del>			
	<del>Lock</del>	<del>45HX 7R15H PATD CORMAX PATENTED KEYING S1</del>		<del>626</del>
	<del>BE</del>			
1	Intruder Function (Thumb Turn)		45H-7IND15H VIT	
	PATD CORMAX PATENTED KEYING S1		626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC115 BFP PUSH SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR

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1	Wall Bumper	1270CV	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

### NOTE:

#### NEW DOOR / EXISTING FRAME

1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
2. KEY FOB TO INITIATE LOCK DOWN
3. LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM

#### Set #S-01.3 - SHELTER LOCK

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
<del>1</del>	<del>Shelter Electromechanical</del>			
<del>1</del>	<del>Lock</del>	<del>45HX-7R15H PATD CORMAX PATENTED KEYING S1</del>	<del>626</del>	
	<del>BE</del>			
1	Intruder Function (Thumb Turn)		45H-7IND15H VIT	
	PATD CORMAX PATENTED KEYING S1		626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

#### Set #S-01.NEW - SHELTER LOCK

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
<del>1</del>	<del>Shelter Electromechanical</del>			
<del>1</del>	<del>Lock</del>	<del>45HX-7R15H PATD CORMAX PATENTED KEYING S1</del>	<del>626</del>	
	<del>BE</del>			
1	Intruder Function (Thumb Turn)		45H-7IND15H VIT	
	PATD CORMAX PATENTED KEYING S1		626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Door Closer	QDC 111 BF P PULL SIDE	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Dome Stop	1211	626	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

#### Set #S-02 - PAIR, SHELTER LOCK

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED	AL	ST
1	Dust Proof Strike	3911	626	TR
2	Manual Flushbolt	3913 MANUAL FB FOR WOOD DOOR TOP AND BOTTOM	626	TR
<del>1</del>	<del>Shelter Electromechanical</del>			
<del>1</del>	<del>Lock</del>	<del>45HX-7R15H PATD CORMAX PATENTED KEYING S1</del>	<del>626</del>	<del>BE</del>
1	Intruder Function (Thumb Turn)		45H-7IND15H VIT	
	PATD CORMAX PATENTED KEYING S1		626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE

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1	Construction Core	7190224		BE
1	Coordinator	3094B SERIES x LENGTH AS REQUIRED	PC	TR
2	Door Closer	QDC 111 BF P PULL SIDE	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mounting Bracket	3095/3096 AS REQUIRED	Silver	TR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

**NEW DOOR / EXISTING FRAME**

- GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
- KEY FOB TO INITIATE LOCK DOWN
- LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM

**Set #S-03 - SINGLE, GYM/AUD EXIT DEVICE**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Power Transfer	EPT-12C		PR
1	Switch Lock	1W-7C2 PATD	626	BE
1	Rim Exit Electrified Trim	C TS E2103 X 4908A FSE	630	PR
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		
	BY			
1	Door Loop	9509 LENGTH TO SUIT	Silver	RC
1	Power Supply	AL30OULX		BE
1	Battery Back-up	NP7AH-12V		ENER
1	Key Switch	801AL L2	630	SDCC
1	Power Supply	DKPS-2A		DM
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

**NEW DOOR / EXISTING FRAME/FIRE RATED**

- GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
- CORD LOOP TO BRING ELECTRIC WIRES FROM EXISTING FRAME TO EXIT DEVICE.
- WALL MTD KEYSWITCH TO MANUALLY UNLOCK AND RELOCK ELECTRIFIED TRIM
- LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM
- ALWAYS FREE EGRESS
- IF NEW FRAME IS SPECIFIED PROVIDE EPT12C POWER TRANSFER (FACTORY PREPPED)

**Set #S-03.NEW - SINGLE, GYM/AUD EXIT DEVICE**

1	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Power Transfer	EPT-12C		PR

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1	Switch Lock	1W-7C2 PATD	626	BE
1	Exit Device	E FL2103 x 4903 FSE	630	PR
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
1	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
1	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
1	Kick Plate	KO050 8" x 2" LDW B4E C-SUNK HOLES	630	TR
1	Power Supply	AL30OULX		BE
1	Battery Back-up	NP7AH-12V		ENER
1	Key Switch	801AL L2	630	SDCC
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		
	BY			
1	Power Supply	DKPS-2A		DM
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR X NEW FRAME

- 1.WALL MTD KEYSWITCH TO MANUALLY UNLOCK AND RELOCK ELECTRIFIED TRIM
- 2 LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM
3. ALWAYS FREE EGRESS
- 4.PROVIDE EPT12C POWER TRANSFER (FACTORY PREPPED)

**Set #S-04 - GYM/AUD PAIR -EXITS SHELTER**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Switch Lock	1W-7C2 PATD	626	BE
2	SVR Device FSE Elec Trim		C FL E2203 X	
4908A	FSE LBR	630	PR	
3	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
3	Construction Core	7190224		BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Rim Cylinder	12E-72 PATD	626	BE
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
2	Door Loop	9509 LENGTH TO SUIT	Silver	RC
1	Power Supply	AL30OULX		BE
1	Battery Back-up	NP7AH-12V		ENER
1	Key Switch	801AL L2	630	SDCC
1	Card Reader	CARD READER BY OWNER'S SECURITY VENDOR		
	BY			
1	Power Supply	DKPS-2A		DM
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR / EXISTING FRAME/FIRE RATED

- 1.GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
- 2.CORD LOOP TO BRING ELECTRIC WIRES FROM EXISTING FRAME TO EXIT DEVICE.

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- 3.WALL MTD KEYSWITCH TO MANUALLY UNLOCK AND RELOCK ELECTRIFIED TRIM
- 4 LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM
- 5. ALWAYS FREE EGRESS
- 6.IF NEW FRAME IS SPECIFIED PROVIDE EPT12C POWER TRANSFER (FACTORY PREPPED)

## Set #S-04.NEW - GYM/AUD PAIR -EXITS SHELTER

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
<del>1</del>	<del>Removable Mullion</del>	<del>KR822 MCS</del>	<del>689</del>	<del>PR</del>
1	Switch Lock	1W-7C2 PATD	626	BE
<del>2</del>	<del>Rim Exit E Trim FSE</del>	<del>C FL TS E2103 X 4908A FSE</del>	<del>630</del>	<del>PR</del>
2	SVR Device FSE Elec Trim		C FL TS E2203 X	
4908A	FSE LBR	630	PR	
3	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
3	Construction Core	7190224		BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Rim Cylinder	12E-72 PATD	626	BE
2	Electromagnetic Closer	8916 EMF/PT BYP (VERIFY VOLTAGE REQ) PUSH SIDE	689	DM
2	Electromagnetic Closer	8916 EMR/PT BYP (VERIFY VOLTAGE REQ) PUSH SIDE	689	DM
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Power Supply	AL30OULX		BE
1	Battery Back-up	NP7AH-12V		ENER
1	Key Switch	801AL L2	630	SDCC
1	Power Supply	DKPS-2A		DM
1	Power Transfer	EPT-12C		PR
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

NEW DOOR X NEW FRAME  
 UPDATED GYM/AUD PAIR EXITS-SHELTER  
 RIM DEVICES WITH KR MULLION & ELECTROMAGNETIC HOLD OPEN CLOSERS

- 1.WALL MTD KEYSWITCH TO MANUALLY UNLOCK AND RELOCK ELECTRIFIED TRIM
- 2. LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM
- 3. ALWAYS FREE EGRESS
- 4. EPT12C POWER TRANSFER (FACTORY PREPPED)

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- 1.DOORS TO BE ON ELECTROMAGNETIC HOLD OPEN CLOSERS (PUSH SIDE MOUNTED)
- 2.TIED DIRECTLY TO THE FIRE ALARM SYSTEM
- 3.IN A FIRE ALARM DOORS TO CLOSE AND LATCH

## Set #S-04.NEW.A - GYM/AUD PAIR -EXITS SHELTER

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)		
	AL	ST		
2	Power Transfer	EPT-12C		PR
<del>1</del>	<del>Removable Mullion</del>	<del>KR822 MCS</del>	<del>689</del>	<del>PR</del>
1	Switch Lock	1W-7C2 PATD	626	BE
<del>2</del>	<del>Exit Device Rim</del>	<del>C FL E2103 X 4908D FSE</del>	<del>630</del>	<del>PR</del>

Eastchester UFSD Multiple School Hardware Sets

2	SVR Device FSE Elec Trim		C FL E2203 X	
4908A	FSE LBR	630	PR	
3	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
3	Construction Core	7190224		BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Rim Cylinder	12E-72 PATD	626	BE
2	Electromagnetic Closer DM	8916 EMF/PT BYP (VERIFY VOLTAGE REQ) PUSH SIDE		689
2	Electromagnetic Closer DM	8916 EMR/PT BYP (VERIFY VOLTAGE REQ) PUSH SIDE		689
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
1	Power Supply	AL30OULX		BE
1	Battery Back-up	NP7AH-12V		ENER
1	Key Switch	801AL L2	630	SDCC
1	Power Supply	DKPS-2A		DM
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

NOTE:

NEW DOOR X NEW FRAME

UPDATED GYM/AUD PAIR EXITS-SHELTER

RIM DEVICES WITH KR MULLION & ELECTROMAGNETIC HOLD OPEN CLOSERS

1. WALL MTD KEYSWITCH TO MANUALLY UNLOCK AND RELOCK ELECTRIFIED TRIM
2. LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM
3. ALWAYS FREE EGRESS
4. EPT12C POWER TRANSFER (FACTORY PREPPED)

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1. DOORS TO BE ON ELECTROMAGNETIC HOLD OPEN CLOSERS (PUSH SIDE MOUNTED)
2. TIED DIRECTLY TO THE FIRE ALARM SYSTEM
3. IN A FIRE ALARM DOORS TO CLOSE AND LATCH

**Set #S-05 - GYM/AUD PAIR -EXITS SHELTER**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Switch Lock	1W-7C2 PATD	626	BE
2	Exit Device SVR	C FL E2203 X 4908D FSE LBR	630	PR
3	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
3	Construction Core	7190224		BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Rim Cylinder	12E-72 PATD	626	BE
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
2	Door Loop	9509 LENGTH TO SUIT	Silver	RC
1	Power Supply	AL30OULX		BE
1	Battery Back-up	NP7AH-12V		ENER
1	Key Switch	801AL L2	630	SDCC
1	Power Supply	DKPS-2A		DM
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

# Eastchester UFSD Multiple School Hardware Sets

**NOTE:**

NEW DOOR / EXISTING FRAME/FIRE RATED

1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
2. CORD LOOP TO BRING ELECTRIC WIRES FROM EXISTING FRAME TO EXIT DEVICE.
3. WALL MTD KEYSWITCH TO MANUALLY UNLOCK AND RELOCK ELECTRIFIED TRIM
4. LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM
5. ALWAYS FREE EGRESS
6. IF NEW FRAME IS SPECIFIED PROVIDE EPT12C POWER TRANSFER (FACTORY PREPPED)

**Set #S-05.NEW - GYM/AUD PAIR -EXITS SHELTER**

2	Continuous Hinge	662HD UL x HEIGHT REQUIRED (EPT PREP WHERE NEEDED)	AL	ST
1	Switch Lock	1W-7C2 PATD	626	BE
2	Exit Device SVR	C FL E2203 X 4908D FSE LBR	630	PR
3	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
3	Construction Core	7190224		BE
1	Mortise Cylinder	1E-74 PATD	626	BE
2	Rim Cylinder	12E-72 PATD	626	BE
2	Door Closer	QDC119 BF P PUSH SIDE SPRING STOP	689	SH
2	Kick Plate	K0050 8" x 2" LDW, B4E-HEAVY-KP CSK	630	TR
2	Mop Plate	KM050 4" x 1" LDW, B4E-HEAVY-KP CSK	630	TR
2	Door Loop	9509 LENGTH TO SUIT	Silver	RC
1	Power Supply	AL30OULX		BE
1	Battery Back-up	NP7AH-12V		ENER
1	Key Switch	801AL L2	630	SDCC
1	Power Supply	DKPS-2A		DM
1	Gasketing	5050 B @ HEAD AND JAMBS		NA
1	Astragal Set	2 pcs. 140 PA x LENGTH AS REQUIRED		NA
1	Threshold	AS DETAILED		BY

**NOTE:**

NEW DOOR X NEW FRAME  
BOTH DOORS MUST SWING SAME DIRECTION

**Set #SHL.01 - SHELTER LOCK ONLY/ WITH CORE**

<del>4</del>	<del>Electromechanical Lock</del>	<del>45HX-7R15H PATD CORMAX PATENTED KEYING S1</del>	<del>626</del>	
				BE
1	Intruder Function (Thumb Turn)		45H-7IND15H VIT	
	PATD CORMAX PATENTED KEYING S1		626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Wrap-Around DJ	504-CW (IF NEEDED TO COVER EXISTING DOOR PREPS)	S	
1	Existing Hardware	ALL OTHER EXISTING HARDWARE TO REMAIN		BY

- NOTE: EXISTING DOOR / EXISTING FRAME
1. GC TO PATCH, FILL AND REPAIR EXISTING PREPS IN DOOR FRAME THAT WILL NO LONGER BE USED WITH NEW HARDWARE AS PER NFP80 TO MAINTAIN FIRE RATING.
  2. KEY FOB TO INITIATE LOCK DOWN
  3. LOCK DOWN CAN ALSO BE INITIATED FROM REMOTE ACCESS CONTROL SYSTEM
  4. IF LOCK WRAP AROUND IS NEEDED USE DON-JO 504-CW

Eastchester UFSD Multiple School Hardware Sets

**Set #SHL.02 - SHELTER EXIT DEVICE ONLY/ WITH CORE**

<del>1</del>	<del>Removable Mullion</del>	<del>KR822 MCS</del>	<del>689</del>	<del>PR</del>
1	SVR Exit Device	C FL E2203 X 4908A FSE	630	PR
2	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
2	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Mortise Cylinder	1E-74 PATD	626	BE
1	Door Loop	9509 LENGTH TO SUIT	Silver	RC
1	Battery Back-up	NP7AH-12V		ENER
1	Key Switch	801AL L2	630	SDCC
1	Power Supply	DKPS-2A		DM
1	Comments	**SEE REMARKS BELOW**		BY
1	Existing Hardware	ALL OTHER EXISTING HARDWARE TO REMAIN		BY

NOTE:

1. GC TO CONFIRM "EXISTING CONDITIONS" AND IF HARDWARE SPECIFIED WILL WORK
2. PROVIDE RIM EXIT DEVICE WITH ELECTRIFIED TRIM ON DOORS WITH MULLION.
3. ADD KR MULLION TO SUIT EXISTING DOOR FRAME (KR822)
4. MAY NEED SOME ADDITIONAL COMPONENTS FOR LOCK DOWN.

**Set #SHL.03 - SHELTER EXIT DEVICE ONLY/ WITH CORE**

1	Exit Device	C FL E2103 X 4908A FSE	630	PR
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE
1	Rim Cylinder	12E-72 PATD	626	BE
1	Door Loop	9509 LENGTH TO SUIT	Silver	RC
1	Battery Back-up	NP7AH-12V		ENER
1	Key Switch	801AL L2	630	SDCC
1	Power Supply	DKPS-2A		DM
1	Comments	**SEE REMARKS BELOW**		BY
1	Existing Hardware	ALL OTHER EXISTING HARDWARE TO REMAIN		BY

NOTE:

1. GC TO CONFIRM "EXISTING CONDITIONS" AND IF HARDWARE SPECIFIED WILL WORK
2. PROVIDE RIM EXIT DEVICE WITH ELECTRIFIED TRIM ON DOOR
3. MAY NEED SOME ADDITIONAL COMPONENTS FOR LOCK DOWN.

**Set #STC.01 STC RATED DOORS & FRAMES**

1	Comments	**SEE REMARKS BELOW**		BY
<del>1</del>	<del>Shelter</del>			
	<del>Electromechanical</del>			
	<del>Lock</del>	<del>45HX-7R15H PATD CORMAX</del>		
		<del>PATENTED KEYING S1</del>	<del>626</del>	<del>BE</del>
1	Intruder Function (Thumb Turn)		45H-7IND15H VIT	
	PATD CORMAX PATENTED KEYING S1		626	BE
1	Perm Core	1CX-7 "TO MATCH OWNERS EXISTING"	626	BE
1	Construction Core	7190224		BE

# Eastchester UFSD Multiple School Hardware Sets

**NOTE:**

1. Full STC Rated Openings, Doors, Frames and Hardware to be provided by STC Door Mfg as tested.

**Set #STC.02 - STC RATED DOORS & FRAME**

1	Removable Mullion	KR822 MCS	689	PR
2	SVR Exit Device Classroom	FL2208 X 4908A (PROVIDED BY ACOUSTICAL DOOR MFG AS TESTED)	630	PR
3	Perm Core BE	1CX-7 "TO MATCH OWNERS EXISTING"	626	626
3	Construction Core BE	7190224		
1	Mortise Cylinder	1E-74 PATD	626	BE
1	Comments	**SEE REMARKS BELOW**		BY

**NOTE:**

1. Full STC 50 Rated Openings, Doors, Frames and Hardware to be provided by STC Door Mfg as tested.
2. Provide FR Exit Devices as (listed) in sets. Must be tested and approved by acoustical door mfg (2 SVR Devices x KR Mullion)

**Set #S-MISC - ACCESSORIES FOR SHELTER SYSTEM**

*	SHELTER FOB	SHX-FOB		BE
*	SHELTER Power Supply	SHX-PTL		BE
*	SHELTER Gateway	SHX-GTW		BE
*	SHELTER Antenna	SHX-OMNI		BE
*	SHELTER Repeater	SHX-RPT		BE

**NOTE:**

MISC ACCESSORIES FOR SHELTER SYSTEM - QTY TO SUIT SECURITY DRAWINGS LAYOUT



**SHEET NOTES**

- A. ALL FIRE RATED DOORS SHALL HAVE CORRESPONDING RATED FRAMES.
- B. PROVIDE TRANSITION STRIPS AT ALL INTERSECTIONS OF DISSIMILAR FLOORING MATERIALS AND DISSIMILAR CARPET. SEE XXX
- C. PROVIDE METAL STUD BRACING TO STRUCTURE ABOVE AT DOOR OPENINGS WITH METAL STUD JAMBS. BRACE'S SHALL BE 3/8"x20 GA STUD.
- D. PAINT ALL DOOR FRAMES, COLOR TO MATCH WALL UNLESS OTHERWISE NOTED.
- E. EXISTING METAL HOLLOW FRAMES TO REMAIN SHALL BE SANDED DOWN TO METAL WHILE PROTECTING THE UL MARKING TO REMAIN INTACT AND READABLE. FOR SMALL ROUND HOLES USE STEEL FASTENERS AND GRIND DOWN THE HEAD TO BE SMOOTH WITH THE FRAME. PROVIDE STEEL PLATES MATCHING THE HOLLOW METAL FRAME GAUGE FOR ABANDONED HARDWARE CUTOUTS OR OTHER OPENINGS. PROTECT UL MARKING, PRIME AND PAINT THE HOLLOW METAL FRAMES.
- F. ELECTRIC STRIKES AND TRANSFER HINGES, WHERE SPECIFIED ARE TO BE SUPPLIED AND INSTALLED BY THE GC AS PART OF THEIR DOOR/HARDWARE SPECIFICATION. THE GC WILL COORDINATE INSTALLATIONS WITH EC SO THAT WIRE ROUGHING CAN BE DONE AT THE APPROPRIATE TIME.
- G. ALL SHELTER LOCK COMPONENTS TO BE INSTALLED BY GC. THE GC WILL INSTALL ALL LOCKSETS. THE GC WILL TURN THE REPEATERS OVER TO THE ELECTRICAL CONTRACTOR WHO WILL INSTALL AND WIRE THE REPEATERS.

**GLAZING TYPES**

- X-1 VISION GLASS
- X-2 SPANDREL GLASS
- X-3 SECURITY GLASS (SHOOTER ATTACK CERTIFIED)
- I-1 1 HR. FIRE PROTECTED GLASS
- I-2 TEMPERED SAFETY GLASS
- I-3 SECURITY GLASS (SHOOTER ATTACK CERTIFIED)
- I-4 1 HR. FIRE RESISTIVE GLASS
- I-5 2 HR. FIRE RESISTIVE GLASS
- I-6 1 HR. FIRE RESISTIVE SECURITY GLASS (SHOOTER ATTACK CERTIFIED)

**KEY NOTES**

MS NEW EXTERIOR DOOR SCHEDULE																								
DOOR NUMBER	QUANTITY	DOOR			DOOR RATING	DOOR						FRAME						GLAZING	HARDWARE	MAG-HOLD-OPEN	ACCESS CONTROL	REMARKS		
		FROM	TO			WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL							
M133B	2	M133	BOYS LOCKER	-	EXTERIOR	-	2'-5 1/2"	7'-0"	1 3/4"	F	FRP	FF	34	ALUM	FF	-	-	-	-	-	-	-	EX01 NEW	-
M134C	2	M134	GYMNASIUM	-	EXTERIOR	-	3'-6"	7'-0"	1 3/4"	G	FRP	FF	5	ALUM	FF	-	-	-	-	-	-	-	EX01 NEW	-
M134D	2	M134	GYMNASIUM	-	EXTERIOR	-	3'-0"	7'-0"	1 3/4"	G	FRP	FF	5	ALUM	FF	-	-	-	-	-	-	-	EX01 NEW	-

  

MS NEW INTERIOR DOOR SCHEDULE																								
DOOR NUMBER	QUANTITY	DOOR			DOOR RATING	DOOR						FRAME						GLAZING	HARDWARE	MAG-HOLD-OPEN	ACCESS CONTROL	REMARKS		
		FROM	TO			WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL							
M85A	2	M85	OFFICE	M01	CORRIDOR	(none)	3'-0"	7'-0"	1 3/4"	N	WD	FF	5	HM	PNT	-	-	-	-	-	-	SHL01	-	SHELTER LOCKSET, PROVIDE REMOVABLE INTERMEDIATE MULLION
M121	1	M01	CORRIDOR	M121	KITCHEN		3'-0"	7'-0"	1 3/4"	F	WD	FF	1	HM	PNT	31A901	30A901	-	-	-	-	S-01 NEW	-	SHELTER LOCKSET, EXIT DEVICE
M132A	2	M132	GIRLS LOCKER	M04	CORRIDOR		2'-6 1/4"	7'-0"	1 3/4"	F	WD	FF	4	HM	PT	31A901	30A901	-	-	-	-	S-05 NEW	-	ELECTRIFIED TRIM
M132B	2	M04	CORRIDOR				2'-7"	7'-0"	1 3/4"	F	WD	FF	4	HM	PT	31A901	30A901	-	-	-	-	01	-	ELECTRIFIED TRIM
M133A	2	M133	BOYS LOCKER	M04	CORRIDOR		2'-6 1/4"	7'-0"	1 3/4"	F	WD	FF	4	HM	PT	-	-	-	-	-	-	S-05 NEW	-	ELECTRIFIED TRIM
M215	2	M215	CLASSROOM	M21	CORRIDOR		2'-6"	7'-0"	1 3/4"	N	WD	FF	3	HM	PNT	31A901	30A901	-	-	-	-	I-1	S-02	SHELTER LOCKSET
M243A	1	M21	CORRIDOR	M243A	GUIDANCE		3'-0"	7'-0"	1 3/4"	N	WD	FF	1	HM	PNT	31A901	30A901	-	-	-	-	I-1	S-01 NEW	SHELTER LOCKSET

  

MS NEW DOOR (FRAME TO REMAIN) SCHEDULE																									
DOOR NUMBER	QUANTITY	DOOR			DOOR RATING	DOOR						FRAME						GLAZING	HARDWARE	MAG-HOLD-OPEN	ACCESS CONTROL	REMARKS			
		FROM	TO			Width	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL						SILL DETAIL		
M0	1	M0	STAR	M01	CORRIDOR		3'-9 1/4"	3'-9 1/4"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	I-1	01-2	-	
M85A	2	88	CORR	M01	CORRIDOR		2'-8"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	I-1	07	-	
M88B	2	145	AUDITORIUM	88	CORR		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	08 NEW	-	SHELTER LOCKSET, EXIT DEVICE, PROVIDE REMOVABLE INTERMEDIATE MULLION
M89	2	M115	STOR	88	CORR		2'-6 1/2"	2'-6 1/2"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	11 NEW	-	
M81A	1	M01	CORRIDOR	JAN			3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	03	-	
M82	1	M01	CORRIDOR	M82	DATA		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01 NEW	-	
M101	1	M01	CORRIDOR	M101	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M102	1	M01	CORRIDOR	M102	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M103	1	M01	CORRIDOR	M103	M TOILET		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M103A	1	M01	CORRIDOR	M103A	JAN		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	03-2	-	
M104A	1	M01	CORRIDOR	M104	BOYS	(none)	3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	04-3 NEW	-	
M104B	1	M02	LOBBY	M104	BOYS		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	04	-	
M105A	1	M01	CORRIDOR	M105	GIRLS		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	04-3 NEW	-	
M105B	1	M02	LOBBY	M105	GIRLS		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	04	-	
M106	1	M01	CORRIDOR	M106	OFFICE		3'-0"	3'-0"	6'-8"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	03-2	-	
M106A	1	M01	CORRIDOR	M106	OFFICE		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	03-2	-	
M107	1	M01	CORRIDOR	M107	M TOILET		2'-6"	2'-6"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	05	-	
M107A	1	M01	CORRIDOR	M107A	CLOSET		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	03-2	-	
M108A	1	M01	CORRIDOR	M108	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M108B	1	M01	CORRIDOR	M108	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M109A	1	M01	CORRIDOR	M109	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M109B	1	M01	CORRIDOR	M109	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M110	1	M01	CORRIDOR	M110	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M111	1	M01	CORRIDOR	M111	CHORUS		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M111A	1	M01	CORRIDOR	M111	CHORUS		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M112	1	M01	CORRIDOR	M112	COPY		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M113	2	M113C	VESTIBULE	M01	CORRIDOR		2'-6"	2'-6"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	31A901	30A901	-	-	-	-	01	-	
M113A	1	M113C	VESTIBULE	M113A	OFFICE		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M113C	2	88	CORR	M113	BAND ROOM		2'-6 1/2"	2'-6 1/2"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M114	1	88	CORR	M114	GIRLS DRESSING RM		3'-0"	3'-0"	7'-2 1/2"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M116	1	88	CORR	M116	BOYS DRESSING ROOM		3'-0"	3'-0"	7'-1 1/2"	1 3/4"	F	WD	FF	-	EXIST	PNT	31A901	30A901	-	-	-	-	S-01	-	
M119	1	M01	CORRIDOR	M119	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M125	1	M01	CORRIDOR	M125	GUIDANCE		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M131	1	M01	CORRIDOR	M131	PRINCIPAL OFFICE		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M132	1	M04	CORRIDOR	M132	OFFICE		2'-8"	2'-8"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M133D	1	M04	CORRIDOR	M133D	OFFICE		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M134A	2	M134	GYMNASIUM	M150	LOBBY		3'-6"	3'-6"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-04 NEW A	-	
M134B	2	M134	GYMNASIUM	M150	LOBBY		3'-6"	3'-6"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-04 NEW A	-	
M201	1	M21	CORRIDOR	M201	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	31A901	30A901	-	-	-	-	S-01 NEW	-	
M202	1	M21	CORRIDOR	M202	ADMIN		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M203A	1	M21	CORRIDOR	M203	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M203B	1	M21	CORRIDOR	M203	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	S-01	-	
M204	1	M204	JAN	M21	CORRIDOR		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	03-3	-	
M205	1	M21	CORRIDOR	M205	BOYS		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	FF	-	EXIST	PNT	-	-	-	-	-	-	04	-	
M206	1	M21	CORRIDOR	M206	CLASSROOM		3'-0"	3'-0"	7'-0"	1 3/4"	N														



**AIA**<sup>®</sup>

# Document G716™ – 2004

## Request for Information (RFI)

**TO:**

Piere Luigi Pancaldi , MEMASI  
John Patrick Jackson , Arris  
Linda Dinato, Arris

**FROM:**

Hull Construction and Restoration, Inc.  
230 Ferris Avenue  
White Plains, NY 10603

**PROJECT:**

Eastchester Union Free School District  
2022 Capital Bond Project  
Phase 2

**ISSUE DATE:**

January 16, 2023

**RFI No.:**

**REQUESTED REPLY DATE:**

**PROJECT NUMBERS:**

**COPIES TO:**

Arris Contracting  
Memasi Design

**RFI DESCRIPTION:** *(Fully describe the question or type of information requested.)*

- 1) Please advise which contract (1 through 4) is responsible for the Portico Repair specifically as the High School (Ref. drawing HS A404) In GC contract, see Section 011000 - GC Special note 10.
- 2) Please confirm that any and all sitework and grading repairs are the responsibility of Contract 1 (Ref. Regrade and Seeding commnets on HS -A203  
All work on HS - A203 is by Window Prime Contractor as per Sheet Note A.  
Also, each contractor is responsible for restoration of any areas they have disturbed.

**REFERENCES/ATTACHMENTS:** *(List specific documents researched when seeking the information requested.)*

**SPECIFICATIONS**

**DRAWINGS**

**OTHER**

- |                              |         |  |
|------------------------------|---------|--|
| 1) 042000- Unit Masonry      | HS A404 |  |
| 2) 329200 - Turf and Grasses | HS A203 |  |

**SENDER'S RECOMMENDATION:** *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

**RECEIVER'S REPLY:** *(Provide answer to RFI, including cost and/or schedule considerations.)*

By: Pancaldi | MEMASI

Date: 01.16.23

Copies to: Arris Contracting

**NOTE:** This reply is not an authorization to proceed with work involving additional cost, time or both. If any reply requires a change to the Contract Documents, a Change Order, Construction Change Directive or a Minor Change in the work must be executed in accordance with the Contract Documents.



# AIA<sup>®</sup> Document G716™ – 2004

## Request for Information (“RFI”)

**TO:**

Memasi  
2 Lyon Place  
White Plains, NY 10601

**PROJECT:**

2022 Capital Bond Improvement Project, Phase 2  
Eastchester UFSD

**FROM:**

Bertussi Contracting Inc  
60-70 Dexter Plaza  
Pearl River, NY 10965

**ISSUE DATE:** 1/4/2023**RFI No.** 001**PROJECT NUMBERS:** Memasi / 102-2202**REQUESTED REPLY DATE:** ASAP**COPIES TO:** sweber@bertussis.com**RFI DESCRIPTION:** *(Fully describe the question or type of information requested.)*

There are 2 pages labeled as WA FO100. Additionally drawing S501 is missing from the bid set. Please advise.

**REFERENCES/ATTACHMENTS:** *(List specific documents researched when seeking the information requested.)***SPECIFICATIONS:****DRAWINGS:****OTHER:**

**SENDER'S RECOMMENDATION:** *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

**RECEIVER'S REPLY:** *(Provide answer to RFI, including cost and/or schedule considerations.)*

WA FO100 Foundation Plan will remain as is, the second one will change to:  
WA FO500 Foundation Details, and  
WA S501 will be eliminated from the Drawing List (it's not used).

Pancaldi | MEMASI01.10.23Arris Contracting**BY****DATE****COPIES TO**

**Note:** This reply is not an authorization to proceed with work involving additional cost, time or both. If any reply requires a change to the Contract Documents, a Change Order, Construction Change Directive or a Minor Change in the work must be executed in accordance with the Contract Documents.

DRAFT

# AIA® Document G716™ - 2004

## Request for Information ("RFI")

**TO:**  
MEMASI  
2 Lyon Place  
White Plains, NY 10601

**FROM:** ARROW STEEL WINDOW CORP

**PROJECT:**  
2022 Capital Bond Project, Phase 2  
Eastchester Union Free School District

**ISSUE DATE:** 1/16/23 **RFI No.** 02

**PROJECT NUMBERS:** MEMASI / 102-2202

**REQUESTED REPLY DATE:**  
**COPIES TO:**

**RFI DESCRIPTION:** (Fully describe the question or type of information requested.) - High School  
Detail numbers on the window schedule for the window's Head, Sill, & Jamb  
Detail DO NOT MATCH THE WINDOW FRAMES' Detail number on page HS-A911

**REFERENCES/ATTACHMENTS:** (List specific documents researched when seeking the information requested.)

**SPECIFICATIONS:**

**DRAWINGS:**

**OTHER:**

PLEASE provide the correct numbers

**SENDER'S RECOMMENDATION:** (If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)

**RECEIVER'S REPLY:** (Provide answer to RFI, including cost and/or schedule considerations.)

Replace detail 33/ HS911 with 31/HS911  
Replace jamb detail 22/HS911 with 11/HS911  
Replace sill detail 23/HS911 with 21/HS911

Pancaldi | MEMASI

01.16.23

Arris Contracting

BY

DATE

COPIES TO

**Note:** This reply is not an authorization to proceed with work involving additional cost, time or both. If any reply requires a change to the Contract Documents, a Change Order, Construction Change Directive or a Minor Change in the work must be executed in accordance with the Contract Documents.

# DRAFT AIA® Document G716® - 2004

## Request for Information ("RFI")

**TO:**  
MEMASI  
2 Lyon Place  
White Plains, NY 10601

**FROM:**  
Arrow Steel Window Corp.  
133 East Carmans Road  
East Farmingdale, NY 11735

**PROJECT:**  
2022 Capital Bond Project, Phase 2  
Eastchester Union Free School District

**ISSUE DATE:** 01/13/23      **RFI No.** 1

**PROJECT NUMBERS:** MEMASI / 102-2202

**REQUESTED REPLY DATE:**  
**COPIES TO:** Gary Galati, gg@arrowsteelwindow.com

**RFI DESCRIPTION:** *(Fully describe the question or type of information requested.)*

Please see attached detailed list

**REFERENCES/ATTACHMENTS:** *(List specific documents researched when seeking the information requested.)*

**SPECIFICATIONS:**  
085113  
088000

**DRAWINGS:**

**OTHER:**  
Sections 1.4D, 1.6I, 2.7D, E & F, 2.4  
Section 2.2C

**SENDER'S RECOMMENDATION:** *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

**RECEIVER'S REPLY:** *(Provide answer to RFI, including cost and/or schedule considerations.)*

Updated windows specs will be issue on 01/17/23, addressing all three questions in RFI #1.

Pancaldi | MEMASI

01.17.23

Arris Contracting

BY

DATE

COPIES TO

**Note:** This reply is not an authorization to proceed with work involving additional cost, time or both. If any reply requires a change to the Contract Documents, a Change Order, Construction Change Directive or a Minor Change in the work must be executed in accordance with the Contract Documents.

# **ARROW STEEL WINDOW CORP.**

133 East Carmans Road  
East Farmingdale, New York 11735  
Telephone: 631 756-8661  
Fax: 631 756-8622

## **RFI # 1**

2022 Capital Bond Project, Phase 2  
Eastchester Union Free School District

Please clarify the following in section 085113, Aluminum Windows.

1—Performance requirements, section 1.4D and 1.6I call for windows to meet windborne-debris resistance. Is this required? If they do require windborne-debris resistance the insulated glass must be changed.

[Not required.](#)

2—Section 2.7, Insect screens D, E, & F call for three different insect screen materials. Which one is required?

[Only one specified.](#)

3—Section 2.4, Insulated glass & section 088000 2.2-C both call out for two different insulated glass make-ups. Which is required?

[Only one specified.](#)

DRAFT

# AIA® Document G716™ - 2004

## Request for Information ("RFI")

**TO:**  
MEMASI  
2 Lyon Place  
White Plains, NY 10601

**FROM:** Taylor Clayton  
All Bright Electric  
tclayton@allbrightelectric.com

**PROJECT:**  
2022 Capital Bond Project, Phase 2  
Eastchester Union Free School District

**ISSUE DATE:** 1/12/23      **RFI No.:** 1

**PROJECT NUMBERS:** MEMASI / 102-2202

**REQUESTED REPLY DATE:** ASAP  
**COPIES TO:**

**RFI DESCRIPTION:** *(Fully describe the question or type of information requested.)*

Who is the fire alarm vendor at each school?

**REFERENCES/ATTACHMENTS:** *(List specific documents researched when seeking the information requested.)*

**SPECIFICATIONS:**

**DRAWINGS:**

**OTHER:**

**SENDER'S RECOMMENDATION:** *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

**RECEIVER'S REPLY:** *(Provide answer to RFI, including cost and/or schedule considerations.)*

The fire alarm vendor for all the schools is:  
ADT (John Walsh, 914 418 9460)

Pancaldi | MEMASI

01.17.23

Arris Contracting

BY

DATE

COPIES TO

**Note:** This reply is not an authorization to proceed with work involving additional cost, time or both. If any reply requires a change to the Contract Documents, a Change Order, Construction Change Directive or a Minor Change in the work must be executed in accordance with the Contract Documents.