



# EL MONTE UNION HIGH SCHOOL DISTRICT

## Purchasing Department

3537 JOHNSON AVENUE, EL MONTE, CA 91731

Phone: (626) 444-9005

Email: [purchasing@emuhsd.org](mailto:purchasing@emuhsd.org)

April 18, 2023

TO : All Bidders  
FROM : El Monte Union High School District  
BID # : 2022-23(B8)  
PROJECT : Mountain View HS Modernization Project  
SUBJECT : Addendum No. 3

The following changes, omissions, and/or additions to the Project Manual and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Project Manual, and this Addendum, this Addendum shall govern.

### REVISIONS TO BIDDING REQUIREMENTS

Clarification that construction time is 643 calendar days

### RESPONSE TO BID RFI

1. Questions and Answers attached.

### CHANGES TO DRAWINGS AND SPECIFICATIONS

1. LPA Architects Addendum No. B issued April 18, 2023 attached.

None.

<b>ATTACHMENTS</b>
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1. RFI Questions and Answers\_4.18.23
2. LPA Architects Changes to Drawings and Specifications

END OF ADDENDUM 3



TELACU Construction Management

## RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
Pre-Bid-33	Addendum Pre Bid RFI: Spec Section 07 21 00 Thermal Insulation	Closed		None	Grandy, Stephen (...)	04/18/2023	Stephen Grandy	04/28/2023	04/18/23					
<b>Q:</b>	Stephen Grandy Sent Tue Apr 18, 2023 at 12:21 pm PDT ADD#2 was released today. Where are the insulation specs that are supposed to be attached? <a href="#">FW__Purchasing_BID # 2022-23(B8)_ Mountain View HS Modernization Project_Addendum No_ 2.msg</a>													
<b>A:</b>	Stephen Grandy (TELACU Construction Management) Responded Tue Apr 18, 2023 at 12:22 pm PDT Spec section to be included in Addendum #3. <a href="#">FW__Purchasing_BID # 2022-23(B8)_ Mountain View HS Modernization Project_Addendum No_ 2.msg</a> <a href="#">Spec Section 072100.pdf</a>													
Pre-Bid-32	Addendum Pre Bid RFI: Supplementary Special Conditions & LPA Addendum	Closed		None	Grandy, Stephen (...)	04/18/2023	Stephen Grandy	04/28/2023	04/18/23					
<b>Q:</b>	Stephen Grandy Sent Tue Apr 18, 2023 at 12:17 pm PDT 1. Supplementary Special Conditions (SSC) a. General i. SSC differs from the original SSC provided. Are sections/information listed in the original SSC to be deleted or covered elsewhere in the documents? As an example, the original Section A, Administration of the Contract, has now changed to Time of Performance. b. Section A i. Contract duration is now tied to FINAL completion and not SUBSTANTIAL. Will a revised Agreement Form be provided? Please advise. ii. District controlled rain and quiet/testing days are outside of 670-day duration and will show on the project schedule this way (past contract completion). Please confirm this is the intention. iii. Project Milestones/Deliverables - Please confirm the phases listed in section A.1 are to be part of the milestones/deliverables. c. Section B i. Does use of the project contingency need board approval prior to work taking place? If so, what is the expected duration for this approval? d. Section C i. Subsection 8 states that utility connections are per 015000. Specification 015000 lists electrical and power to be by Owner, including metering and connections. Please confirm that this is now by Contractor. ii. Temporary Utilities (i.e. Power, Water & Internet) - Will the Contractor be coordinating with the utility companies for these services with separate utility feeds to brought to the campus or will a point of connection be provided from a District source (and paid for by Contractor)? e. Section D i. Gilbert Modernization and Whitaker Modernization are mentioned in section D - As these two modernizations are not listed in the original bidding documents, please advise on their relevance to the Mountain View HS Modernization Project. 2. LPA Addendum A													



TELACU Construction Management

Job #: 22-109 El Monte USD - Mountain View High School  
2900 Parkway Drive  
El Monte, California 91732

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
	<p>a. Spec 007300 - Please confirm that this is the revised Supplementary Special Conditions provided in this addendum.</p> <p>b. Spec 072100 - Specification is missing from addendum, please provide</p> <p><a href="#">Prebid RFI 008_ProWest2.pdf</a></p> <hr/> <p>Stephen Grandy (TELACU Construction Management) Responded Tue Apr 18, 2023 at 12:18 pm PDT</p> <p><b>A:</b> See attached.</p> <p><a href="#">Prebid RFI 008_ProWest2.pdf</a></p> <hr/>													

April 18, 2023

Addendum No. B

To the contract documents for MOUNTAIN VIEW HIGH SCHOOL MODERNIZATION, DSA No. 03-122209

For the EL MONTE UNION HIGH SCHOOL DISTRICT

LPA Project No.: 3015410

## **NOTICE TO BIDDERS**

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This addendum forms a part of the contract and modifies the original DSA approved documents dated 01/17/2023. It is intended that all work affected by the following modifications shall conform to related provisions and general conditions of the Contract of the original drawings and specifications. Modify the following items wherever appearing in any drawings or sections of the specifications. Acknowledge receipt of Addendum No. B in the space provided on the Bid Form. Failure to do so may subject to disqualification.

### General Items

- Item No. 1** Clarification:
- (a) Please confirm that Manual Projection Screens are not required in Building #AB?
    - (i) BLDG A: PROJECTORS AND SCREENS ARE NOT REQUIRED.
    - (ii) BLDG B: RECESSED PROJECTORS ARE NOTED PER RCP AND DETAIL 16/A9.61, WALL MOUNTED SCREENS ARE NOT REQUIRED.

### Changes to Specifications

- Item No. 2** Replaced spec section 087100 – Door Hardware  
**Item No. 3** Add spec section 072100- Thermal Insulation

### Changes to Drawings

- Item No. 2** **Sheet A6.01 – Door Schedule**  
Updated door schedule per revised door hardware sets.  
Revised door (E)H10 to (E)322B
- Item No. 3** **Sheet A6.02 – Door Schedule**  
Updated door schedule per revised door hardware sets.

### Drawings and Documents Issued

The following drawings and documents are issued as Addendum No. B and are to be included in the Contract Documents.

#### 2 Specs

087100, 072100

#### 3 Drawings

Sheet : A6.01, A6.02

End of Addendum No. B

## SECTION 08 71 00 – DOOR HARDWARE

### 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 SUMMAR

- A. Section includes:

- 1. Mechanical and electrified door hardware for:
  - a. Swinging doors.
- 2. Electronic access control system components, including:
  - a. Electronic access control devices.
- 3. Field verification, preparation and modification of existing doors and frames to receive new door hardware.

- B. Exclusions: Unless specifically listed in hardware sets, hardware is not specified in this section for:

- 1. Windows
- 2. Cabinets (casework), including locks in cabinets
- 3. Signage
- 4. Toilet accessories
- 5. Overhead doors

- C. Related Sections:

- 1. Division 01 Section "Alternates" for alternates affecting this section.
- 2. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
- 3. Division 09 sections for touchup finishing or refinishing of existing openings modified by this section.
- 4. Division 13 Section "Radiation Protection" for requirements for lead-lining for door hardware at openings indicated to receive radiation protection.
- 5. Division 26 sections for connections to electrical power system and for low-voltage wiring.
- 6. Division 28 sections for coordination with other components of electronic access control system.

### 1.3 REFERENCES

- A. UL - Underwriters Laboratories
  - 1. UL 10B - Fire Test of Door Assemblies
  - 2. UL 10C - Positive Pressure Test of Fire Door Assemblies
  - 3. UL 1784 - Air Leakage Tests of Door Assemblies
  - 4. UL 305 - Panic Hardware
- B. ANSI - American National Standards Institute
  - 1. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
- C. California Code of Regulations
  - 1. Title 24: California Building Standards Code

### 1.4 SUBMITTALS

- A. General:
  - 1. Submit in accordance with Conditions of Contract and Division 01 requirements.
  - 2. Highlight, encircle, or otherwise specifically identify on submittals deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
  - 3. Prior to forwarding submittal, comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, "EXAMINATION" article, herein.
- B. Action Submittals:
  - 1. Product Data: Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
  - 2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
    - a. Wiring Diagrams: For power, signal, and control wiring and including:
      - 1) Details of interface of electrified door hardware and building safety and security systems.
      - 2) Schematic diagram of systems that interface with electrified door hardware.
      - 3) Point-to-point wiring.
      - 4) Risers.
  - 3. Samples for Verification: If requested by Architect, submit production sample or sample installations of each type of exposed hardware unit in finish indicated, and tagged with full description for coordination with schedule.
    - a. Samples will be returned to supplier in like-new condition. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

4. Door Hardware Schedule: Submit schedule with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Indicate complete designations of each item required for each door or opening, include:
    - a. Door Index; include door number, heading number, and Architects hardware set number.
    - b. Opening Lock Function Spreadsheet: List locking device and function for each opening.
    - c. Type, style, function, size, and finish of each hardware item.
    - d. Name and manufacturer of each item.
    - e. Fastenings and other pertinent information.
    - f. Location of each hardware set cross-referenced to indications on Drawings.
    - g. Explanation of all abbreviations, symbols, and codes contained in schedule.
    - h. Mounting locations for hardware.
    - i. Door and frame sizes and materials.
    - j. Name and phone number for local manufacturer's representative for each product.
    - k. Operational Description of openings with any electrified hardware (locks, exits, electromagnetic locks, electric strikes, automatic operators, door position switches, magnetic holders or closer/holder units, and access control components).  
Operational description should include how door will operate on egress, ingress, and fire and smoke alarm connection.
      - 1) Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work that is critical in Project construction schedule.
  5. Key Schedule:
    - a. After Keying Conference, provide keying schedule listing levels of keying as well as explanation of key system's function, key symbols used and door numbers controlled.
    - b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
    - c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
    - d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
    - e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion.
      - 1) Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
    - f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.
  6. Templates: After final approval of hardware schedule, provide templates for doors, frames and other work specified to be factory prepared for door hardware installation.
- C. Informational Submittals:
1. Qualification Data: For Supplier and Installer.
  2. Product Certificates for electrified door hardware, signed by manufacturer:

- a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
3. Certificates of Compliance:
    - a. Certificates of compliance for fire-rated hardware and installation instructions if requested by Architect or Authority Having Jurisdiction.
    - b. Installer Training Meeting Certification: Letter of compliance, signed by Contractor, attesting to completion of installer training meeting specified in "QUALITY ASSURANCE" article, herein.
    - c. Electrified Hardware Coordination Conference Certification: Letter of compliance, signed by Contractor, attesting to completion of electrified hardware coordination conference, specified in "QUALITY ASSURANCE" article, herein.
  4. Product Test Reports: For compliance with accessibility requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by qualified testing agency, for door hardware on doors located in accessible routes.
  5. Warranty: Special warranty specified in this Section.
- D. Closeout Submittals:
1. Operations and Maintenance Data : Provide in accordance with Division 01 and include:
    - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
    - b. Catalog pages for each product.
    - c. Name, address, and phone number of local representatives for each manufacturer.
    - d. Parts list for each product.
    - e. Final approved hardware schedule edited to reflect conditions as-installed.
    - f. Final keying schedule
    - g. Copies of floor plans with keying nomenclature
    - h. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.
    - i. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

## 1.5 QUALITY ASSURANCE

- A. Product Substitutions: Comply with product requirements stated in Division 01 and as specified herein.
  1. Where specific manufacturer's product is named and accompanied by "No Substitute," including make or model number or other designation, provide product specified. (Note: Certain products have been selected for their unique characteristics and particular project suitability.)
    - a. Where no additional products or manufacturers are listed in product category, requirements for "No Substitute" govern product selection.
  2. Where products indicate "acceptable manufacturers" or "acceptable manufacturers and products", provide product from specified manufacturers, subject to compliance with specified requirements and "Single Source Responsibility" requirements stated herein.

- B. Supplier Qualifications and Responsibilities: Recognized architectural hardware supplier with record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project.
  - 1. Warehousing Facilities: In Project's vicinity.
  - 2. Scheduling Responsibility: Preparation of door hardware and keying schedules.
  - 3. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
  - 4. Coordination Responsibility: Coordinate installation of electronic security hardware with Architect and electrical engineers and provide installation and technical data to Architect and other related subcontractors.
    - a. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.
- C. Installer Qualifications: Qualified tradesmen, skilled in application of commercial grade hardware with record of successful in-service performance for installing door hardware similar in quantity, type, and quality to that indicated for this Project.
- D. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.
  - 1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.
  - 2. Manufacturers that perform electrical modifications and that are listed by testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.
- E. Fire-Rated Door Openings: Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by Underwriters Laboratories, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
- F. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
  - 1. Air Leakage Rate: Maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
- G. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
- H. Means of Egress Doors: Latches do not require more than 5 lbf (67 N) to release latch. Locks do not require use of key, tool, or special knowledge for operation.
- I. Accessibility Requirements: For door hardware on doors in an accessible route, comply with governing accessibility regulations cited in "REFERENCES" article, herein.
  - 1. Provide operating devices that do not require tight grasping, pinching, or twisting of wrist and that operate with force of not more than 5 lbf (22.2 N).
  - 2. Maximum opening-force requirements:

- a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf (22.2 N) applied perpendicular to door.
  - b. Sliding or Folding Doors: 5 lbf (22.2 N) applied parallel to door at latch.
  - c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
3. Bevel raised thresholds with slope of not more than 1:2. Provide thresholds not more than 1/2 inch (13 mm) high.
  4. Adjust door closer sweep periods so that, from open position of 70 degrees, door will take at least 3 seconds to move to 3 inches (75 mm) from latch, measured to leading edge of door.
- J. Keying Conference: Conduct conference at Project site to comply with requirements in Division 01.
1. Attendees: Owner, Contractor, Architect, Installer, **Owner's Security Consultant** and Supplier.
  2. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
    - a. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
    - b. Preliminary key system schematic diagram.
    - c. Requirements for key control system.
    - d. Requirements for access control.
    - e. Address for delivery of keys.
- K. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01.
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. Inspect and discuss preparatory work performed by other trades.
  3. Inspect and discuss electrical roughing-in for electrified door hardware.
  4. Review sequence of operation for each type of electrified door hardware.
  5. Review required testing, inspecting, and certifying procedures.
- L. Coordination Conferences:
1. Installation Coordination Conference: Prior to hardware installation, schedule and hold meeting to review questions or concerns related to proper installation and adjustment of door hardware.
    - a. Attendees: Door hardware supplier, door hardware installer, Contractor.
    - b. After meeting, provide letter of compliance to Architect, indicating when meeting was held and who was in attendance.
  2. Electrified Hardware Coordination Conference: Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.
    - a. Attendees: electrified door hardware supplier, doors and frames supplier, electrified door hardware installer, electrical subcontractor, Owner, **Owner's security Consultant** Architect and Contractor.
    - b. After meeting, provide letter of compliance to Architect, indicating when coordination conference was held and who was in attendance.

## 1.6 DELIVER , STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site.
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.
  - 1. Deliver each article of hardware in manufacturer's original packaging.
- C. Project Conditions:
  - 1. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
  - 2. Provide secure lock-up for door hardware delivered to Project, but not yet installed. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- D. Protection and Damage:
  - 1. Promptly replace products damaged during shipping.
  - 2. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work.
  - 3. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- E. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.
- F. Deliver keys           to Owner by registered mail or overnight package service.

## 1.7 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 03.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
- E. Existing Openings: Where hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide proper door operation.



1. Spring hinges: adjust for 1.5 seconds minimum for 70 degrees to fully-closed.
- E. Smooth surfaces at bottom 10 inches of push sides of doors, facilitating push-open with wheelchair footrests, per 2019 California Building Code Section 11B-404.2.10.
  1. Applied kickplates and armor plates: bevel the left and right edges; free of sharp or abrasive edges.
  2. Tempered glass doors without stiles: bottom rail may be less than 10 inches if top leading edge is tapered 60 degrees minimum.
- F. Door opening clear width no less than 32 inches, measured from face of frame stop, or edge of inactive leaf of pair of doors, to door face with door opened to 90 degrees. Hardware projection not a factor in clear width if located above 30 inches and below 80 inches, and the hardware projects no more than 4 inches. 2019 California Building Code Section 11B-404.2.3.
  1. Exception: In alterations, a projection of 5/8 inch (15.9 mm) maximum into the required clear width shall be permitted for the latch side stop.
  2. Door closers and overhead stops: not less than 78 inches above the finished floor or ground, per 2019 California Building Code 11B-307.4.
- G. Thresholds floor or landing no more than 0.50 inches below the top of the threshold of the doorway, per 2019 California Building Code Section 11B-404.2.5. Vertical rise no more than 0.25 inches, change in level between 0.25 inches and 0.50 inches beveled to slope no greater than 1:2 (50 percent slope). 2019 California Building Code Section 11B-303.2 □.3.
- H. Floor stops Do not locate in path of travel. Locate no more than 4 inches from walls, per DSA Policy #99-08 (Access).
- I. Pairs of doors with independently-activated hardware both leafs limit swing of right-hand or right-hand-reverse leaf to 90 degrees to protect persons reading wall-mounted tactile signage, per 2019 California Building Code Section 11B-703.4.2.
- J. Door and door hardware encroachment when door is swung fully-open into means-of-egress path, the door may not encroach/project more than 7 inches into the required exit width, with the exception of door release hardware such as lockset levers or panic hardware. These hardware items must be located no less than 34-inches and no more than 44-inches above the floor/ground. 2019 California Building Code, Section 1005.7.1.
- K. In I-2 occupancies, latch release hardware is not permitted to project in the required exit width, regardless of its mounting height, per 2019 California Building Code, Section 1005.7.1 at Exception 1.

#### 1.10 MAINTENANCE

- A. Extra Materials:
- B. Maintenance Tools:
  1. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
  - 2.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
- B. Approval of manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturer" in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.
- C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- D. Hand of Door: Drawings show direction of slide, swing, or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.
- E. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

### 2.2 MATERIALS

- A. Fasteners
  - 1. Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
  - 2. Furnish screws for installation with each hardware item. Finish exposed (exposed under any condition) screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
  - 3. Provide concealed fasteners for hardware units exposed when door is closed except when no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless thru-bolts are required to fasten hardware securely. Review door specification and advise Architect if thru-bolts are required.
  - 4. Install hardware with fasteners provided by hardware manufacturer.
- B. Modification and Preparation of Existing Doors: Where existing door hardware is indicated to be removed and reinstalled.
  - 1. Provide necessary fillers, Dutchmen, reinforcements, and fasteners, compatible with existing materials, as required for mounting new opening hardware and to cover existing door and frame preparations.
  - 2. Use materials which match materials of adjacent modified areas.
  - 3. When modifying existing fire-rated openings, provide materials permitted by NFPA 80 as required to maintain fire-rating.
- C. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.
- D. Cable and Connectors: Hardwired Electronic Access Control Lockset and Exit Device Trim:
1. Data: 24AWG, 4 conductor shielded, Belden 9843, 9841 or comparable.
  2. DC Power: 18 AWG, 2 conductor, Belden 8760 or comparable.
  3. Provide type of data and DC power cabling required by access control device manufacturer for this installation.
  4. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with sufficient number and wire gauge with standardized Molex plug connectors to accommodate electric function of specified hardware. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

## 2.3 HINGES

### A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Ives 5BB series
2. Acceptable Manufacturers and Products: Hager BB series, McKinney TA/T4A series, Stanley FBB Series

### B. Requirements:

1. Provide five-knuckle ball bearing hinges conforming to ANSI/BHMA A156.1.
2. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
  - a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
  - b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
3. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
  - a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
  - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
4. 2 inches or thicker doors:
  - a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
  - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
5. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
6. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
7. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
  - a. Steel Hinges: Steel pins
  - b. Non-Ferrous Hinges: Stainless steel pins
  - c. Out-Swinging Exterior Doors: Non-removable pins
  - d. Out-Swinging Interior Lockable Doors: Non-removable pins
  - e. Interior Non-lockable Doors: Non-rising pins

8. Width of hinges: 4-1/2 inches (114 mm) at 1-3/4 inch (44 mm) thick doors, and 5 inches (127 mm) at 2 inches (51 mm) or thicker doors. Adjust hinge width as required for door, frame, and wall conditions to allow proper degree of opening.
9. Doors 36 inches (914 mm) wide or less furnish hinges 4-1/2 inches (114 mm) high; doors greater than 36 inches (914 mm) wide furnish hinges 5 inches (127 mm) high, heavy weight or standard weight as specified.
10. Provide hinges with electrified options as scheduled in the hardware sets. Provide with sufficient number and wire gage to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component.
11. Provide mortar guard for each electrified hinge specified.

## 2.4 CONTINUOUS HINGES

### A. Aluminum Geared

1. Manufacturers:
  - a. Scheduled Manufacturer: Ives.
  - b. Acceptable Manufacturers: Markar, Stanley.
2. Requirements:
  - a. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
  - b. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum, with 0.25-inch (6 mm) diameter Teflon coated stainless steel hinge pin.
  - c. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
  - d. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
  - e. On fire-rated doors, provide aluminum geared continuous hinges that are classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
  - f. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with sufficient number and wire gage to accommodate electric function of specified hardware.
  - g. Install hinges with fasteners supplied by manufacturer.
  - h. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

## 2.5 FLUSH BOLTS

### A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

### B. Requirements:

1. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

## 2.6 COORDINATORS

### A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

### B. Requirements:

1. Where pairs of doors are equipped with automatic flush bolts, an astragal, or other hardware that requires synchronized closing of the doors, provide bar-type coordinating device, surface applied to underside of stop at frame head.
2. Provide filler bar of correct length for unit to span entire width of opening, and appropriate brackets for parallel arm door closers and surface vertical rod exit device strikes. Factory-prep coordinators for vertical rod devices if required.

## 2.7 MORTISE LOCKS

### A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Schlage L9000 series

### B. Requirements:

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1 Operational, Grade 1 Security, and manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to "KEYING" article, herein.
2. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1 inch (25 mm) throw, constructed of stainless steel.
3. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
4. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide a request to exit (RX) switch that is actuated with rotation of inside lever.
5. Provide motor based electrified locksets with electrified options as scheduled in the hardware sets and comply with the following requirements:
  - a. Universal input voltage – single chassis accepts 12 or 24V DC to allow for changes in the field without changing lock chassis.
  - b. Fail Safe/Fail Secure – changing mode between electrically locked (fail safe) and electrically unlocked (fail secure) is field selectable without opening the lock case
  - c. Low maximum current draw – maximum 0.4 amps to allow for multiple locks on a single power supply.

- d. Low holding current – maximum 0.01 amps to produce minimal heat, eliminate “hot levers” in electrically locked applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
  - e. Request to Exit Switch (RX) –
    - 1) Modular Design – provide electrified locks capable of using, adding, or changing a modular RX switch without opening the lock case.
    - 2) Monitoring – where scheduled, provide a request to exit (RX) switch that detects rotation of the inside lever.
  - f. Connections – provide quick-connect Molex system standard.
  - g. UL Listed – 3 hour fire door
6. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.
- a. Lever Design: Schlage **0 A**.
  - b. Tactile Warning (Knurling): Where required by authority having jurisdiction. Provide on levers on exterior (secure side) of doors serving rooms considered to be hazardous.

#### 2.8 C LINDRICAL LOCKS – GRADE 1

##### A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product: Schlage ND Series

##### B. Requirements:

- 1. Provide cylindrical locks conforming to the following standards and requirements:
  - a. ANSI/BHMA A156.2 Series 4000, Grade 1.
  - b. UL 10C for 4'-0" x 10'-0" 3-hour fire door.
- 2. Cylinders: Refer to “KEYING” article, herein.
- 3. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
  - a. Abusive Locked Lever Torque Test – minimum 3,100 inch-pounds without gaining access
  - b. Cycle life - tested to minimum 10 million cycles per ANSI/BHMA A156.2 Cycle Test with no visible lever sag or use of performance aids such as set screws or spacers.
- 4. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2 inch latch throw. Provide proper latch throw for UL listing at pairs.
- 5. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
- 6. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
- 7. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
- 8. Provide electrified options as scheduled in the hardware sets.
- 9. Lever Trim: Solid cast levers without plastic inserts, and wrought roses on both sides.
  - a. Lever Design: Schlage Rhodes.

- b. Tactile Warning (Knurling): Where required by authority having jurisdiction. Provide on levers on exterior (secure side) of doors serving rooms considered to be hazardous.

## 2.9 AUXILIAR LOCKS

### A. Deadlocks:

- 1. Manufacturers and Products:
  - a. Scheduled Manufacturer and Product: Schlage L9000 series
- 2. Requirements:
  - a. Provide mortise deadlock series conforming to ANSI/BHMA A156 and function as specified. Cylinders: Refer to "KEYING" article, herein.
  - b. Provide deadlocks with standard 2-3/4 inches (70 mm) backset. Provide deadbolt with full 1 inch (25 mm) throw, constructed of stainless steel.
  - c. Provide manufacturer's standard strike.

### B. Deadbolts:

- 1. Manufacturers and Products:
  - a. Scheduled Manufacturer and Product: Schlage B600 series
  - b. Acceptable Manufacturers and Products: Arrow N series, Best T series, Corbin-Ruswin DL3000 series, Falcon D100 series, Sargent 480 series.
- 2. Requirements:
  - a. Provide deadbolt series conforming to ANSI/BHMA A156 and function as specified. Cylinders: Refer to "KEYING" article, herein.
  - b. Provide deadbolts with standard 2-3/4 inches (70 mm) backset. Provide 2-3/8 inches (60 mm) where noted or if door or frame detail requires. Provide deadbolt with full 1 inch (25 mm) throw, constructed of steel alloy.
  - c. Provide manufacturer's standard strike.

## 2.10 EXIT DEVICES:

### A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product: Von Duprin 99/33 series

### B. Requirements:

- 1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1, and UL listed for Panic Exit or Fire Exit Hardware. Cylinders: Refer to "KEYING" article, herein.
- 2. Provide touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
- 3. Touchpad: Extend minimum of one half of door width. Match exit device finish, stainless steel for US26, US26D, US28, US32, and US32D finishes; and for all other finishes, provide compatible finish to exit device. No plastic inserts are allowed in touchpads.

4. Provide exit devices with dead-latching feature for security and for future addition of alarm kits and/or other electrified requirements.
5. Provide flush end caps for exit devices.
6. Provide exit devices with manufacturer's approved strikes.
7. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
8. Mount mechanism case flush on face of doors, or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
9. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
10. Where lever handles are specified as outside trim for exit devices, provide heavy-duty lever trims with forged or cast escutcheon plates. Provide vandal-resistant levers that will travel to 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set.
  - a. Lever Style: Match lever style of locksets.
  - b. Tactile Warning (Knurling): Where required by authority having jurisdiction. Provide on levers on exterior (secure side) of doors serving rooms considered to be hazardous.
11. Provide UL labeled fire exit hardware for fire rated openings.
12. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
13. Provide electrified options as scheduled.

#### 2.11 ELECTRONIC ACCESS CONTROL LOCKSETS AND EXIT DEVICE TRIM

- A. See Division 28:

#### 2.12 C LINDERS

- A. Manufacturers:

1. Scheduled Manufacturer: Schlage
2. Acceptable Manufacturers: Owner Standard

- B. Requirements:

1. Provide cylinders/cores, from the same manufacturer of locksets, compliant with ANSI/BHMA A156.5; latest revision, Section 12, Grade 1; permanent cylinders; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.
2. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.
  - a. Conventional Patented Restricted: cylinder with interchangeable core with patented, restricted keyway.
3. Patent Protection: Cylinders/cores requiring use of restricted, patented keys, patent-protected until the year, 2029.
4. Nickel silver bottom pins.
5. Replaceable Construction Cores.

- a. Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
  - 1) 3 construction control keys
  - 2) 12 construction change (day) keys.
- b. Owner or Owner's Representative will replace temporary construction cores with permanent cores.

## 2.13 KE ING

- A. Provide a factory registered keying system, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
- B. Requirements:
  1. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
    - a. Master Keying system as directed by the Owner.
  2. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements shall be cause for replacement of cylinders/cores involved at no additional cost to Owner.
  3. Provide keys with the following features:
    - a. Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
    - b. Patent Protection: Keys and blanks protected by one or more utility patent(s) until the year, 2029.
  4. Identification:
    - a. Mark permanent cylinders/cores and keys with applicable blind code per DHI publication "Keying Systems and Nomenclature" for identification. Blind code marks shall not include actual key cuts.
    - b. Identification stamping provisions must be approved by the Architect and Owner.
    - c. Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
    - d. Failure to comply with stamping requirements shall be cause for replacement of keys involved at no additional cost to Owner.
    - e. Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
  5. Quantity: Furnish in the following quantities.
    - a. Change (Day) Keys: 3 per cylinder/core.
    - b. Permanent Control Keys: 3.
    - c. Master Keys: 6.

## 2.14 DOOR CLOSERS OPTION:

### A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: LCN 4040XP series.
2. Acceptable Manufacturers and Products: No Substitute.

### B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Cylinder Body: 1-1/2 inch (38 mm) diameter with 3/4 inch (19 mm) diameter double heat-treated pinion journal.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.
9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

## 2.15 DOOR TRIM

### A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

### B. Requirements:

1. Provide push plates 4 inches (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick and beveled 4 edges. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.
2. Provide push bars of solid bar stock, diameter and length as scheduled. Provide push bars of sufficient length to span from center to center of each stile. Where required, mount back to back with pull.
3. Provide offset pulls of solid bar stock, diameter and length as scheduled. Where required, mount back to back with push bar.
4. Provide flush pulls as scheduled. Where required, provide back-to-back mounted model.
5. Provide pulls of solid bar stock, diameter and length as scheduled. Where required, mount back to back with push bar.

6. Provide pull plates 4 inches (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick, beveled 4 edges, and prepped for pull. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.
7. Provide wire pulls of solid bar stock, diameter and length as scheduled.
8. Provide decorative pulls as scheduled. Where required, mount back to back with pull.

## 2.16 PROTECTION PLATES

### A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

### B. Requirements:

1. Provide kick plates, mop plates, and armor plates minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes of plates:
  - a. Kick Plates: 10 inches (254 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs
  - b. Mop Plates: 4 inches (102 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs
  - c. Armor Plates: 36 inches (914 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs

## 2.17 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

### A. Manufacturers:

1. Scheduled Manufacturers: Glynn-Johnson
2. Acceptable Manufacturers: Rixson, Sargent

### B. Requirements:

1. Provide heavy duty concealed mounted overhead stop or holder as specified for exterior and interior vestibule single acting doors.
2. Provide heavy duty concealed mounted overhead stop or holder as specified for double acting doors.
3. Provide heavy or medium duty and concealed or surface mounted overhead stop or holder for interior doors as specified. Provide medium duty surface mounted overhead stop for interior doors and at any door that swings more than 140 degrees before striking wall, open against equipment, casework, sidelights, and where conditions do not allow wall stop or floor stop presents tripping hazard.
4. Where overhead holders are specified provide friction type at doors without closer and positive type at doors with closer.

## 2.18 DOOR STOPS AND HOLDERS

### A. Manufacturers:

1. Scheduled Manufacturer: Ives
  2. Acceptable Manufacturers: Rockwood, Trimco
- B. Provide door stops at each door leaf:
1. Provide wall stops wherever possible. Provide convex type where mortise type locks are used and concave type where cylindrical type locks are used.
  2. Where a wall stop cannot be used, provide universal floor stops for low or high rise options.
  3. Where wall or floor stop cannot be used, provide medium duty surface mounted overhead stop.

## 2.19 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

- A. Manufacturers:
1. Scheduled Manufacturer: Zero International
  2. Acceptable Manufacturers: National Guard, Pemko
- B. Requirements:
1. Provide thresholds, weather-stripping (including door sweeps, seals, and astragals) and gasketing systems (including smoke, sound, and light) as specified and per architectural details. Match finish of other items.
  2. Size of thresholds:
    - a. Saddle Thresholds: 1/2 inch (13 mm) high by jamb width by door width
    - b. Bumper Seal Thresholds: 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width
  3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.

## 2.20 SILENCERS

- A. Manufacturers:
1. Scheduled Manufacturer: Ives
  2. Acceptable Manufacturers: Rockwood, Trimco
- B. Requirements:
1. Provide push-in type silencers for hollow metal or wood frames.
  2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
  3. Omit where gasketing is specified.

## 2.21 LATCH PROTECTORS

- A. Manufacturers:
1. Scheduled Manufacturer: Ives

2. Acceptable Manufacturers: Rockwood, Trimco
- B. Provide stainless steel latch protectors of type required to function with specified lock.

## 2.22 COAT HOOKS

- A. Manufacturers:
  1. Scheduled Manufacturer: Ives.
  2. Acceptable Manufacturers: Rockwood, Trimco
- B. Provide coat hooks as specified.

## 2.23 FINISHES

- A. Finish: BHMA 626/652 (US26D); except:
  1. Hinges at Exterior Doors: BHMA 630 (US32D)
  2. Continuous Hinges: BHMA 630 (US32D)
  3. Continuous Hinges: BHMA 628 (US28)
  4. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
  5. Protection Plates: BHMA 630 (US32D)
  6. Overhead Stops and Holders: BHMA 630 (US32D)
  7. Door Closers: Powder Coat to Match
  8. Wall Stops: BHMA 630 (US32D)
  9. Latch Protectors: BHMA 630 (US32D)
  10. Weatherstripping: Clear Anodized Aluminum
  11. Thresholds: Mill Finish Aluminum

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Existing Door and Frame Compatibility: Field verify existing doors and frames receiving new hardware and existing conditions receiving new openings. Verify that new hardware is compatible with existing door and frame preparation and existing conditions.
- C. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Where on-site modification of doors and frames is required:
1. Carefully remove existing door hardware and components being reused. Clean, protect, tag, and store in accordance with storage and handling requirements specified herein.
  2. Field modify and prepare existing door and frame for new hardware being installed.
  3. When modifications are exposed to view, use concealed fasteners, when possible.
  4. Prepare hardware locations and reinstall in accordance with installation requirements for new door hardware and with:
    - a. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
    - b. Wood Doors: DHI WDHS.5 Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors.
    - c. Doors in rated assemblies: NFPA 80 for restrictions on on-site door hardware preparation.

### 3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
  2. Custom Steel Doors and Frames: HMMA 831.
  3. Wood Doors: DHI WDHS.3, Recommended Locations for Architectural Hardware for Wood Flush Doors.
- B. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- C. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- D. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- E. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- F. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- G. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated or one hinge for every 30 inches (750 mm) of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- H. Intermediate Offset Pivots: Where offset pivots are indicated, provide intermediate offset pivots in quantities indicated in door hardware schedule but not fewer than one intermediate offset pivot per door and one additional intermediate offset pivot for every 30 inches (750 mm) of door height greater than 90 inches (2286 mm).

- I. Lock Cylinders: Install construction cores to secure building and areas during construction period.
  - 1. Replace construction cores with permanent cores as indicated in keying section.
- J. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- K. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Closers shall not be visible in corridors, lobbies and other public spaces unless approved by Architect.
- L. Closer/holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- M. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section Joint Sealants.
- N. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
- O. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- P. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- Q. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

### 3.4 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
  - 1. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three months after date of Substantial Completion, Installer shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors, door hardware, and electrified door hardware.

### 3.5 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

### 3.6 DEMONSTRATION

- A. Provide training for Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 01 Section Demonstration and Training.

### 3.7 DOOR HARDWARE SCHEDULE

- A. Locksets, exit devices, and other hardware items are referenced in the following hardware sets for series, type and function. Refer to the above-specifications for special features, options, cylinders/keying, and other requirements.
- B. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
- C. Hardware Sets:

END OF SECTION 08 71 00

Mountain View HS Modernization

Hardware Group No. 01

For use on Door #(s):

(E) 271A      (E) 271B      (E) 271C      (E) 334B      (E) 334C      (E) 334C  
 (E) 334F

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
8	EA	HINGE	5BB1HW 5 X 4.5 NRP			630	IVE
1	EA	REMOVABLE MULLION	KR4954			689	VON
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO			626	VON
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO			626	VON
1	EA	MULLION STABILIZER	154			SP28	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B 4AA BATTER		↗	626	SCE
2	EA	SFIC MORTISE C L.	20-061 ICX (CAM AS REQ)			626	SCH
2	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
1	EA	MULLION SEAL	8780NBK PSA			BK	ZER
2	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER
2	EA	DOOR CONTACT	679-05HM/WD AS REQ		↗	BLK	SCE
1	EA	CARD READER	SUPPLIED B DIV 28 COORDINATE W/ ACCESS CONTROL SUPPLIER		↗		

EXIT DEVICE TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED IN DIV 28

PIM TO BE PROVIDED B DIV 28

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 02

For use on Door #(s):

(E)347            (E)245            (E)322B            (E)508A            (E) 132A            (E) 132B  
 (E) 143            (E) 145A            245A

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP			630	IVE
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO			626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B 4AA BATTER		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP EDA			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
1	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER
1	EA	DOOR CONTACT	679-05HM/WD AS REQ		↗	BLK	SCE
1	EA	CARD READER	SUPPLIED B DIV 28 COORDINATE W/ ACCESS CONTROL SUPPLIER		↗		

EXIT DEVICE TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

PIM TO BE PROVIDED BY DIV 28

FIELD VERIFY HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Hardware Group No. 03

For use on Door #(s):

118

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	CLASSROOM LOCK	L9070HD 06A			626	SCH
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

Mountain View HS Modernization

Hardware Group No. 04

For use on Door #(s):

(E)290B	(E)290C	(E)293A	(E)293B	(E)295A	(E)301B
(E)385C	(E)386	(E)387B	(E)388B	(E)390B	(E)391B
(E)392A	(E)392B	(E) 270A	(E) 272	(E) 274C	(E) 277B
(E)291B	(E)292A	(E)309	(E)310	(E)385A	(E)388A
(E)390A	(E)403	(E)414	(E)415	(E)416	(E)417
(E)418	(E)422	(E)432	(E)302B		

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
4	EA	HINGE	5BB1 4.5 X 4.5 NRP			630	IVE
1	EA	STOREROOM MORT LOCK W/LED INDICATOR	LEBMS-ADDHD-06 BATTER OPERATED		✓	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	FLOOR STOP	FS18S/L AS REQ			BLK	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
1	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

LOCKS AND GATEWA S TO BE PROVIDED DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED  
IN DIVISION 28

Mountain View HS Modernization

Hardware Group No. 05

For use on Door #(s):

(E)301A      (E)302A      (E)306A      (E)441      (E) 337C      (E)304  
 (E)385B      (E)387A      (E)388C      (E)391A      (E)402

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1HW 5 X 4.5 NRP			630	IVE
1	EA	AUTO FLUSH BOLT	FB31P			630	IVE
1	EA	DUST PROOF STRIKE	DP1 OR DP2 AS REQ'D			626	IVE
1	EA	STOREROOM MORT LOCK W/LED INDICATOR	LEBMS-ADDHD-06 BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	COORDINATOR	COR X FL X MB			628	IVE
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
2	EA	FLOOR STOP	FS18S/L AS REQ			BLK	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
2	EA	DOOR SWEEP	39A			A	ZER
1	EA	ASTRAGAL	43SP			SP	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER

LOCKS AND GATEWA S TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 06

For use on Door #(s):

(E)201A      (E)201B      (E)201C      (E)358A      (E)358B      (E) 325A  
 (E) 325B      (E) 336A      (E) 338B      (E)338A

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP			630	IVE
1	EA	REMOVABLE MULLION	KR4954			689	VON
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO			626	VON
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO			626	VON
1	EA	MULLION STABILIZER	154			SP28	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B 4AA BATTER		↗	626	SCE
2	EA	SFIC MORTISE C L.	20-061 ICX (CAM AS REQ)			626	SCH
2	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
1	EA	MULLION SEAL	8780NBK PSA			BK	ZER
2	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER
2	EA	DOOR CONTACT	679-05HM/WD AS REQ		↗	BLK	SCE
1	EA	CARD READER	SUPPLIED B DIV 28 COORDINATE W/ ACCESS CONTROL SUPPLIER		↗		

EXIT DEVICE TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED IN DIV 28

PIM TO BE PROVIDED B DIV 28

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 07

For use on Door #(s):

(E)240		(E)246	(E)247A	(E)247B	(E)248A
(E)248B	(E)249	(E)250	(E)251	(E)251A	(E)252
(E)253	(E)254	(E)255	(E)348	(E)349	(E)350A
(E)350B	(E)360A	(E)361A	(E)363A	(E)365A	(E)365B
(E)366A	(E)366B	(E)501A	(E)501B	(E)502A	(E)502B
(E)503A	(E)503B	(E)504A	(E)504B	(E)505A	(E)505B
(E)506A	(E)506B	(E)507A	(E)507B	(E)508B	(E)509A
(E)510A	(E)510B	(E)511A	(E)512A	(E)512B	(E)513A
(E)513B	(E)514	(E)515	(E)516	(E) 101A	(E) 335
(E) 340C1	(E) 341A	(E)362A	(E)364	(E)308	
108A	108B				

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP			630	IVE
1	EA	STOREROOM MORT LOCK W/LED INDICATOR	LEBMS-ADDHD-06 BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
1	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

LOCKS AND GATEWA S TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED  
IN DIVISION 28

Mountain View HS Modernization

Hardware Group No. 08

For use on Door #(s):

Not used

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1HW 5 X 4.5 NRP			630	IVE
1	EA	REMOVABLE MULLION	KR4954			689	VON
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO			626	VON
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO			626	VON
1	EA	MULLION STABILIZER	154			SP28	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B 4AA BATTER		↗	626	SCE
2	EA	SFIC MORTISE C L.	20-061 ICX (CAM AS REQ)			626	SCH
2	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
1	EA	MULLION SEAL	8780NBK PSA			BK	ZER
2	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER
2	EA	DOOR CONTACT	679-05HM/WD AS REQ		↗	BLK	SCE
1	EA	CARD READER	SUPPLIED B DIV 28 COORDINATE W/ ACCESS CONTROL SUPPLIER		↗		

EXIT DEVICE TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED IN DIV 28

PIM TO BE PROVIDED B DIV 28

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 09

For use on Door #(s):

(E)519 (E) 336B (E) 337B

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP			630	IVE
1	EA	AUTO FLUSH BOLT	FB31P			630	IVE
1	EA	DUST PROOF STRIKE	DP1 OR DP2 AS REQ'D			626	IVE
1	EA	STOREROOM MORT LOCK W/LED INDICATOR	LEBMS-ADDHD-06 BATTER OPERATED		↗	626	SCE
1	EA	COORDINATOR	COR X FL X MB			628	IVE
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
2	EA	FLOOR STOP	FS18S/L AS REQ			BLK	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
2	EA	DOOR SWEEP	39A			A	ZER
1	EA	ASTRAGAL	43SP			SP	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

FIELD VERIFY HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Hardware Group No. 10

For use on Door #(s):

Not used

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
4	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

FIELD VERIFY HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 10A

For use on Door #(s):

(E) 322            (E) 384            (E) 383            (E) 395            (E) 396            (E) 397  
 (E) 398            (E) 399            (E) 400            (E) 404            (E) 405            (E) 406  
 (E) 407            (E) 321

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	LOCK GUARD	LG1			630	IVE
1	EA	SURFACE CLOSER	4040XP SCUSH			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

LOCKS AND GATEWA S TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Hardware Group No. 11

For use on Door #(s):

Not Used

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
4	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

LOCKS AND GATEWA S TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 12

For use on Door #(s):

(E)202	(E)203	(E)204	(E)205	(E)206	(E)241
	(E)251B	(E)256	(E)257	(E)258	(E)259
(E)260	(E)262	(E)263	(E)265	(E)297	(E)511B
(E)511C	(E) 113	(E) 116	(E) 119	(E) 121	(E) 128
(E) 129	(E) 135	(E) 136	(E) 137	(E) 138A	(E) 138B
(E) 139	(E) 140	(E) 141	(E) 142	(E) 340A	(E) 340B
(E) 340C2					

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

FIELD VERIFY HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 12F

For use on Door #(s):

(E)374A      (E)376      (E)378      (E)379      (E)380      (E)381  
 (E)382      (E)370      (E)371      (E)372B      (E)373      372A

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ TBSRT			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

FIELD VERIFY HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 13

For use on Door #(s):

Not Used

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1HW 5 X 4.5			652	IVE
1	EA	AUTO FLUSH BOLT	FB31P			630	IVE
1	EA	DUST PROOF STRIKE	DP1 OR DP2 AS REQ'D			626	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	COORDINATOR	COR X FL X MB			628	IVE
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
2	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER
1	EA	ASTRAGAL	383AA			AA	ZER
2	EA	DOOR SWEEP	39A			A	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

FIELD VERIFY HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 14

For use on Door #(s):  
(E) 117

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	AUTO FLUSH BOLT	FB31P			630	IVE
1	EA	DUST PROOF STRIKE	DP1 OR DP2 AS REQ'D			626	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	COORDINATOR	COR X FL X MB			628	IVE
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
2	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER
1	EA	ASTRAGAL	383AA			AA	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

FIELD VERIFY HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 15

For use on Door #(s):  
(E)298

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1HW 5 X 4.5			652	IVE
1	EA	PANIC HARDWARE	LD-PA-AX-9949-EO-LBL			626	VON
1	EA	PANIC HARDWARE	LD-PA-AX-9949-EO-LBL			626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B 4AA BATTER		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
2	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER
2	EA	DOOR CONTACT	679-05HM/WD AS REQ		↗	BLK	SCE
1	EA	CARD READER	SUPPLIED B DIV 28 COORDINATE W/ ACCESS CONTROL SUPPLIER		↗		

EXIT DEVICE TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED  
AND SUPPLIED  
IN DIV 28

PIM TO BE PROVIDED B DIV 28

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 16

For use on Door #(s):  
(E)351A

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	CONT. HINGE	112X			628	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
1	EA	MOUNTING PLATE	4040-18			689	LCN
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1		SEALS	B DOOR MANUFACTURER				B/O

5 INCH STILES REQUIRED FOR HARDWARE SPECIFIED

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

LOCKS AND GATEWA S TO BE PROVIDED IN DIV 28

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Hardware Group No. 17

For use on Door #(s):  
(E) 110A

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	CONT. HINGE	112X			628	IVE
1	EA	STOREROOM MORT LOCK W/LED INDICATOR	LEBMS-ADDHD-06 BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
1	EA	MOUNTING PLATE	4040-18			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	FLOOR STOP	FS18S/L AS REQ			BLK	IVE
1		SEALS	B DOOR MANUFACTURER				B/O
1	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER

FIELD VEIRF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

5 INCH MINIMUM STILES REQUIRED FOR HARDWARE SPECIFIED

LOCKS AND GATEWA S TO BE PROVIDED IN DIV 28

Mountain View HS Modernization

Hardware Group No. 18

For use on Door #(s):  
103A

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	CONT. HINGE	112X			628	IVE
1	EA	CLASSROOM LOCK	L9070HD 06A			626	SCH
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
1	EA	MOUNTING PLATE	4040-18			689	LCN
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1		SEALS	B DOOR MANUFACTURER				B/O

5 INCH STILES REQUIRED FOR HARDWARE SPECIFIED

Hardware Group No. 19

For use on Door #(s):  
(E)244

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	CONT. HINGE	112X			628	IVE
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO			626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B 4AA BATTER		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP EDA			689	LCN
1	EA	MOUNTING PLATE	4040-18			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1		SEALS	B DOOR MANUFACTURER				B/O
1	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER
1	EA	DOOR CONTACT	679-05HM/WD AS REQ		↗	BLK	SCE
1	EA	CARD READER	SUPPLIED B DIV 28 COORDINATE W/ ACCESS CONTROL SUPPLIER		↗		

EXIT DEVICE TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED IN DIV 28

PIM TO BE PROVIDED B DIV 28

Mountain View HS Modernization

Hardware Group No. 20

For use on Door #(s):  
106C

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	PUSH PLATE	8200 8 X 16			630	IVE
1	EA	PULL PLATE	8302 6 4 X 16			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

Hardware Group No. 21

For use on Door #(s):  
(E)207

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
8	EA	HINGE	5BB1HW 5 X 4.5 NRP			630	IVE
1	EA	AUTO FLUSH BOLT	FB31P			630	IVE
1	EA	DUST PROOF STRIKE	DP1 OR DP2 AS REQ'D			626	IVE
1	EA	STOREROOM MORT LOCK W/LED INDICATOR	LEBMS-ADDHD-06 BATTER OPERATED		✓	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	COORDINATOR	COR X FL X MB			628	IVE
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
2	EA	FLOOR STOP	FS18S/L AS REQ			BLK	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
2	EA	DOOR SWEEP	39A			A	ZER
1	EA	ASTRAGAL	43SP			SP	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

LOCKS AND GATEWA S TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED IN DIV 28

Mountain View HS Modernization

Hardware Group No. 22

For use on Door #(s):

(E)517 (E)518

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP			630	IVE
1	EA	STOREROOM MORT LOCK W/LED INDICATOR	LEBMS-ADDHD-06 BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
1	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

LOCKS AND GATEWA S TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED  
IN DIV 28

Mountain View HS Modernization

Hardware Group No. 23

For use on Door #(s):  
244A

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5			652	IVE
1	EA	FIRE EXIT HARDWARE	PA-AX-99-EO-F			626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B 4AA BATTER		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER
1	EA	DOOR CONTACT	679-05HM/WD AS REQ		↗	BLK	SCE
1	EA	CARD READER	SUPPLIED B DIV 28 COORDINATE W/ ACCESS CONTROL SUPPLIER		↗		

EXIT DEVICE TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED IN DIV 28

PIM TO BE PROVIDED IN DIV 28

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 24

For use on Door #(s):

(E)290A	(E)291A	(E)292B	(E)294A	(E)294B	(E)294C
(E)294D	(E)296	(E)299A	(E)299B	(E)302A1	(E)302B1
	(E)302C1	(E)303	(E)305	(E)306B	(E)307
(E)311A	(E)311B	(E)312	(E)313	(E)314A	(E)314B
(E)315A	(E)315B	(E)316	(E)316A1	(E)316B1	(E)316C1
(E)316D1	(E)317	(E)318	(E)408	(E)410A	(E)410B
(E)412	(E)413	(E)419	(E)420	(E)421	(E)424
(E)425	(E)426	(E)427	(E)428	(E)429	(E)430
(E)431	(E)433	(E)434	(E)435	(E)436	(E)437
(E)438	(E)439	(E)440	(E) 269	(E) 273A	(E) 273B
(E) 274A	(E) 274B	(E) 275	(E) 276	(E) 277A	(E) 278
(E) 279	(E) 280	(E) 281	(E) 282	(E) 283A	(E) 284A
(E) 284B	(E) 285	(E) 286	111A	conference/stor age room 2	conference/stor age room
door 371 RH	guidance	Office	storage	Vault room to front lobby	

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	BALANCE OF HARDWARE	REUSE EXISTING HARDWARE				

Hardware Group No. 25

For use on Door #(s):

(E)423	(E)442	(E)443A	(E)443B	(E) 270B	(E) 334D
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QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	BALANCE OF HARDWARE	REUSE EXISTING HARDWARE				

Hardware Group No. 26

For use on Door #(s):

31

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	CORE/C LINDER	AS REQ				
1	EA	NOTE	ROLL UP DOOR MFG				B/O

Hardware Group No. 27

For use on Door #(s):

32	33	34	35
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QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	BALANCE OF HARDWARE	REUSE EXISTING HARDWARE				

Mountain View HS Modernization

Hardware Group No. 28

For use on Door #(s):  
(E)J4A

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
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OPENING NOT FOUND ON PLANS

Hardware Group No. 29

For use on Door #(s):

246A                      247C                      252A                      254A                      256A  
257A                      262A                      360B                      363B                      369C

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	CLASSROOM SECURIT	L9071HD 06A			626	SCH
2	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

Hardware Group No. 30

For use on Door #(s):

(E) 101B                      (E) 110B                      (E) 122                      (E) 123                      (E) 124                      (E) 130  
(E) 131                      (E) 133                      (E) 134                      (E) 144A                      (E) 146                      (E) 147

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		✓	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

FIELD VERIFY HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 31

For use on Door #(s):  
102

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1		SEALS	B DOOR MANUFACTURER				B/O

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

Hardware Group No. 32

For use on Door #(s):  
(E)361B (E)362B (E)363C

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	CLASSROOM SECURITY	L9071HD 06A			626	SCH
2	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

FIELD VERIFY HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

Mountain View HS Modernization

Hardware Group No. 33

For use on Door #(s):

106A                      106B

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP			630	IVE
1	EA	REMOVABLE MULLION	KR4954			689	VON
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO			626	VON
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO			626	VON
1	EA	MULLION STABILIZER	154			SP28	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B 4AA BATTER		↗	626	SCE
1	EA	SFIC MORTISE C L.	20-061 ICX (CAM AS REQ)			626	SCH
2	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
1	EA	MULLION SEAL	8780NBK PSA			BK	ZER
2	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER
2	EA	DOOR CONTACT	679-05HM/WD AS REQ		↗	BLK	SCE
1	EA	CARD READER	SUPPLIED B DIV 28 COORDINATE W/ ACCESS CONTROL SUPPLIER		↗		

EXIT DEVICE TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED IN DIV 28

PIM TO BE PROVIDED B DIV 28

Mountain View HS Modernization

Hardware Group No. 34

For use on Door #(s):

114                      367                      368A                      368B

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP			630	IVE
1	EA	STOREROOM MORT LOCK W/LED INDICATOR	LEBMS-ADDHD-06 BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
1	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

Hardware Group No. 34F

For use on Door #(s):

Not Used

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP			630	IVE
1	EA	STOREROOM MORT LOCK W/LED INDICATOR	LEBMS-ADDHD-06 BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH TBSRT			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED			BK	ZER
1	SET	GASKETING	50AA-S			AA	ZER
1	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL			A	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

Mountain View HS Modernization

Hardware Group No. 35

For use on Door #(s):

132C            144B            145B            341B            342            342A  
 342B            342C            342D

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

Hardware Group No. 35F

For use on Door #(s):

368C            369A            369B            372C            374B            375  
 377A            377B            366C

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ TBSRT			689	LCN
1	EA	KICK PLATE	8400 10 X 2 LDW B-CS			630	IVE
1	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

Mountain View HS Modernization

Hardware Group No. 36

For use on Door #(s):  
339A

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	AUTO FLUSH BOLT	FB31P			630	IVE
1	EA	DUST PROOF STRIKE	DP1 OR DP2 AS REQ'D			626	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	COORDINATOR	COR X FL X MB			628	IVE
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
2	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER
1	EA	ASTRAGAL	383AA			AA	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

Mountain View HS Modernization

Hardware Group No. 37

For use on Door #(s):  
344

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5			652	IVE
1	EA	CONST LATCHING BOLT	FB61T			630	IVE
1	EA	WIRELESS ELECTRONIC LOCK	NDEBHD RHO BATTER OPERATED		✓	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	COORDINATOR	COR X FL X MB			628	IVE
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ			689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS			630	IVE
2	EA	STOP	WS406/407CCV OR FS439 AS REQ			630	IVE
1	EA	GASKETING	188SBK PSA			BK	ZER
1	EA	ASTRAGAL	383AA			AA	ZER

LOCKS AND GATEWAYS TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIVISION 28

Mountain View HS Modernization

Hardware Group No. 38

For use on Door #(s):  
(E)359

QT		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
8	EA	HINGE	5BB1HW 5 X 4.5 NRP		630	IVE
1	EA	CONST LATCHING BOLT	FB61T		630	IVE
1	EA	STOREROOM MORT LOCK W/LED INDICATOR	LEBMS-ADDHD-06 BATTER OPERATED		↗ 626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R		626	SCH
1	EA	COORDINATOR	COR X FL X MB		628	IVE
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ		689	LCN
2	EA	KICK PLATE	8400 10 X 1 LDW B-CS		630	IVE
2	EA	FLOOR STOP	FS18S/L AS REQ		BLK	IVE
1	EA	RAIN DRIP	142AA - OMIT IF SHELTERED		BK	ZER
1	SET	GASKETING	50AA-S		AA	ZER
2	EA	DOOR SWEEP	39A		A	ZER
1	EA	ASTRAGAL	43SP		SP	ZER
1	EA	THRESHOLD	102A OR PER SILL DETAIL		A	ZER

FIELD VERIF HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

LOCKS AND GATEWA S TO BE PROVIDED IN DIV 28

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONL . IT IS SPECIFIED AND SUPPLIED  
IN DIV 28

Mountain View HS Modernization

Hardware Group No. 39

For use on Door #(s):

G-2                      G-3                      G-4                      G-5                      G-6                      G-8  
 G-9                      G-10                      G-13

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
	EA	GATE HINGES/PIVOTS (QUANTIT AS REQ)	B GATE FABRICATOR				B/O
2	EA	H DRAULIC GATE CLOSER	B GATE FABRICATOR				B/O
1	EA	CANE BOLT	B GATE MANUFACTURER			626	B/O
1	EA	STOREROOM MORT LOCK W/LED INDICATOR	LEBMS-ADDHD-06 BATTER OPERATED		↗	626	SCE
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
1	EA	MORTISE GATE BOX (WELDED)	B GATE FABRICATOR				
2	EA	FLOOR STOP	FS18S/L AS REQ			BLK	IVE
			BALANCE OF HARDWARE B GATE FABRICATOR				

PIVOTS, WELDED SECURITY SCREEN, AND WELDED PLATE FOR PANIC HARDWARE B GATE FABRICATOR

TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIV 28

PIM TO BE PROVIDED BY DIV 28

WELDED MOUNTING PLATES FOR HARDWARE BY GATE FABRICATOR.

CONFIRM HARDWARE WITH GATE FABRICATOR PRIOR TO ORDERING.

Mountain View HS Modernization

Hardware Group No. 40

For use on Door #(s):

G-1                      G-7                      G-11                      G-12

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
	EA	GATE HINGES/PIVOTS (QUANTIT AS REQ)	B GATE FABRICATOR				B/O
2	EA	H DRAULIC GATE CLOSER	B GATE FABRICATOR				B/O
1	EA	CENTER POST	B GATE FABRICATOR				
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO-WH			630	VON
1	EA	PANIC HARDWARE	LD-PA-AX-98-EO-WH			630	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B 4AA BATTER		↗	626	SCE
1	EA	SFIC MORTISE C L.	20-061 ICX (CAM AS REQ)			626	SCH
1	EA	SFIC EVEREST CORE	80-037 EV29 R			626	SCH
2	EA	KICK PLATE	PROVIDE 10 SMOOTH SURFACE ON PUSH SIDE			630	IVE
2	EA	FLOOR STOP	FS18S/L AS REQ			BLK	IVE
2	EA	DOOR CONTACT	679-05HM/WD AS REQ		↗	BLK	SCE
1	EA	CARD READER	SUPPLIED B DIV 28 COORDINATE W/ ACCESS CONTROL SUPPLIER		↗		
1			BALANCE OF HARDWARE B GATE FABRICATOR				

EXIT DEVICE TRIM SHOWN HERE FOR REFERENCE AND TEMPLATING ONLY. IT IS SPECIFIED AND SUPPLIED IN DIV 28

PIM TO BE PROVIDED B DIV 28

FIELD VERIFY HARDWARE SPECIFIED WILL FIT IN EXISTING PREPS PRIOR TO ORDERING

WELDED MOUNTING PLATES FOR HARDWARE B GATE FABRICATOR.

CONFIRM HARDWARE WITH GATE FABRICATOR PRIOR TO ORDERING.

Hardware Group No. 41

For use on Door #(s):

G-14                      G-15                      G-16

QT		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1			HARDWARE B GATE MANUFACTURER				

Mountain View HS- Modernization	LPA Project No. - 30154.10
El Monte Union High School District	Addendum A 04/05/23

**SECTION 072100  
THERMAL INSULATION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Batt insulation in exterior wall, ceiling, and roof construction.

**1.02 REFERENCE STANDARDS**

- A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2015a.
- B. ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace At 750 Degrees C 2012.

**1.03 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.
- C. ABAA Field Quality Control Submittals: Submit third-party reports of testing and inspection required by ABAA QAP.
- D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- E. Manufacturer's Installation Instructions: Include information on special environmental conditions required for installation and installation techniques.
- F. ABAA Manufacturer Qualification: Submit documentation of current evaluation of proposed manufacturer and materials.

**1.04 QUALITY ASSURANCE**

- A. Air Barrier Association of America (ABAA) Quality Assurance Program (QAP); [www.airbarrier.org/#sle](http://www.airbarrier.org/#sle):
  - 1. Installer Qualification: Use accredited contractor, certified installers, evaluated materials, and third-party field quality control audit.
  - 2. Manufacturer Qualification: Use evaluated materials from a single manufacturer regularly engaged in air barrier material manufacture. Use secondary materials approved in writing by primary material manufacturer.
- B. Air Barrier Association of America (ABAA) Evaluated Materials Program (EAP); [www.airbarrier.org/#sle](http://www.airbarrier.org/#sle): Use evaluated materials from a single manufacturer regularly engaged in air barrier material manufacture. Use secondary materials approved in writing by primary material manufacturer.

**1.05 FIELD CONDITIONS**

- A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

**PART 2 PRODUCTS**

**2.01 APPLICATIONS**

- A. Insulation in Metal Framed Walls: Batt insulation with integral vapor retarder.
- B. Insulation in Wood Framed Ceiling Structure: Batt insulation with no vapor retarder.
- C. Insulation Above Lay-In Acoustical Ceilings: Batt insulation with no vapor retarder.

**2.02 BATT INSULATION MATERIALS**

- A. Where batt insulation is indicated, either glass fiber or mineral fiber batt insulation may be used, at Contractor's option.
- B. Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit.

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1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
  2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
  3. Combustibility: Non-combustible, when tested in accordance with ASTM E136, except for facing, if any.
  4. Formaldehyde Content: Zero.
  5. Thermal Resistance: R-value of 19 at walls 30 at roof.
  6. Facing: Unfaced.
  7. Manufacturers:
    - a. CertainTeed Corporation: [www.certainteed.com/#sle](http://www.certainteed.com/#sle).
    - b. Johns Manville: [www.jm.com/#sle](http://www.jm.com/#sle).
    - c. Owens Corning Corporation; EcoTouch PINK FIBERGLAS Insulation: [www.ocbuildingspec.com/#sle](http://www.ocbuildingspec.com/#sle).
- C. Mineral Fiber Batt Insulation: Flexible or semi-rigid preformed batt or blanket, complying with ASTM C665; friction fit; unfaced flame spread index of 0 (zero) when tested in accordance with ASTM E84.
1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
  2. Smoke Developed Index: 0 (zero), when tested in accordance with ASTM E84.
  3. Provide foil facing on one side, at locations indicated on drawings.
  4. Thermal Resistance: R-value of 19 at walls 30 at roof.
  5. Manufacturers:
    - a. Johns Manville; MinWool Sound Attenuation Fire Batts: [www.jm.com/#sle](http://www.jm.com/#sle).
    - b. Knauf Insulation; EcoBatt Insulation: [www.knaufinsulation.com/#sle](http://www.knaufinsulation.com/#sle).
    - c. ROCKWOOL (ROXUL, Inc); COMFORTBATT: [www.rockwool.com/#sle](http://www.rockwool.com/#sle).
    - d. ROCKWOOL (ROXUL, Inc); AFB: [www.rockwool.com/#sle](http://www.rockwool.com/#sle).
    - e. ROCKWOOL (ROXUL, Inc); AFB evo™: [www.rockwool.com/#sle](http://www.rockwool.com/#sle).
    - f. Thermafiber, Inc; SAFB: [www.thermafiber.com/#sle](http://www.thermafiber.com/#sle).
    - g. Thermafiber, Inc; SAFB FF: [www.thermafiber.com/#sle](http://www.thermafiber.com/#sle).

### 2.03 ACCESSORIES

- A. Tape: Reinforced polyethylene film with acrylic pressure sensitive adhesive.
  1. Application: Sealing of interior circular penetrations, such as pipes or cables.
  2. Width: Are required for application.
  3. Temperature Resistance: Minus 40 degrees F to 212 degrees F
- B. Insulation Fasteners: Lengths of unfinished, 13 gage, 0.072 inch high carbon spring steel with chisel or mitered tips, held in place by tension, length to suit insulation thickness and substrate, capable of securely supporting insulation in place.
- C. Insulation Fasteners: Impaling clip of unfinished steel with washer retainer and clips, to be adhered to surface to receive insulation, length to suit insulation thickness and substrate, capable of securely and rigidly fastening insulation in place.
- D. Insulation Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.
  1. Length as required for thickness of insulation material and penetration of deck substrate, with metal washers.
- E. Nails or Staples: Steel wire; electroplated or galvanized; type and size to suit application.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation.
- B. Verify substrate surfaces are flat, free of honeycomb, fins, or irregularities.

### 3.02 BATT INSTALLATION

- A. Install insulation in accordance with manufacturer's instructions.

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- B. Install in exterior wall and roof spaces without gaps or voids. Do not compress insulation.
- C. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.
- D. Fit insulation tightly in cavities and tightly to exterior side of mechanical and electrical services within the plane of the insulation.
- E. Staple or nail facing flanges in place at maximum 6 inches on center.
- F. Retain insulation batts in place with spindle fasteners at 12 inches on center.
- G. Retain insulation batts in place with wire mesh secured to framing members.
- H. Tape seal butt ends, lapped flanges, and tears or cuts in membrane.

### **3.03 FIELD QUALITY CONTROL**

- A. Coordination of Air Barrier Association of America (ABAA) Tests and Inspections:
  - 1. Provide testing and inspection required by ABAA Quality Assurance Program (QAP).
  - 2. Cooperate with ABAA testing agency.
  - 3. Allow access to air barrier work areas and staging.
  - 4. Do not cover air barrier work until tested, inspected, and accepted.

### **3.04 PROTECTION**

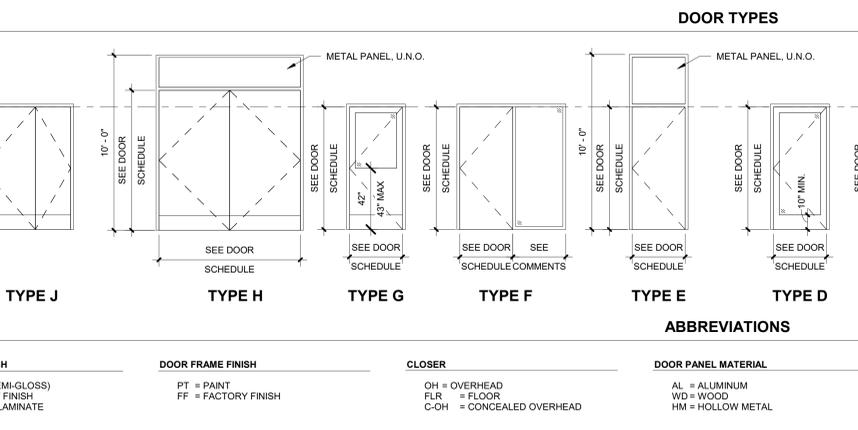
- A. Do not permit installed insulation to be damaged prior to its concealment.

**END OF SECTION**

DOOR NUMBER		DOOR TYPE		DETAILS				OPENING		DOOR PANEL			DOOR FRAME			Fire Rating	REMARKS
DOOR NUMBER	DOOR TYPE	HEAD	JAMB	JAMB	THRESHOLD	WIDTH	HEIGHT	THICKNESS	CORE	MATERIAL	FINISH	MATERIAL	FINISH	HARDWARE GROUP			
(E) 3226	C					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	06		PH	
(E) 3226	H					6'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	06		PH	
(E) 3258	A					6'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	06		PH	
(E) 3348	H					8'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	01		PH	
(E) 3348	H					8'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	01		PH	
(E) 3348	J					5'-0"	7'-0"	1 1/2"	HCI	HM	PT	HM	PT	25	45MIN		
(E) 3348	H					8'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	01		PH	
(E) 335	B					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07			
(E) 335A	H					6'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	06		PH	
(E) 335B	H					4'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	09			
(E) 337B	H					6'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	06			
(E) 337C	H					8'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	05			
(E) 338A	H					6'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	06		PH	
(E) 338B	A					6'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	06			
(E) 340A	B					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	12			
(E) 340B	B					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	12			
(E) 340C	B					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	12			
(E) 340C1	B					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	12			
(E) 340C2	B					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	12			
(E) 341A	C					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07			
339A	C	02/A8.52	02/A8.52	02/A8.52	01/A8.61	5'-10"	7'-0"	1 3/4"	GL	AL	FF	AL	PT	36			
341B	B	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	35			
342	B	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	35			
342A	F	04/A8.51	03/A8.51	02/A8.51	01/A8.61	3'-0"	7'-0"	1 1/2"	HC	HM	PT	HM	PT	35		4' SIDELIGHT	
342B	F	04/A8.51	03/A8.51	02/A8.51	01/A8.61	3'-0"	7'-0"	1 1/2"	HC	HM	PT	HM	PT	35		4' SIDELIGHT	
342C	F	04/A8.51	03/A8.51	02/A8.51	01/A8.61	3'-0"	7'-0"	1 1/2"	HC	HM	PT	HM	PT	35		4' SIDELIGHT	
342D	B	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	35			
344	A	04/A8.51	03/A8.51	02/A8.51	01/A8.61	6'-0"	7'-0"	1 1/2"	HC	HM	PT	HM	PT	37			

DOOR NUMBER		DOOR TYPE		OPENING				DOOR PANEL			DOOR FRAME			REMARKS
DOOR NUMBER	DOOR TYPE	WIDTH	HEIGHT	THICKNESS	CORE	MATERIAL	FINISH	MATERIAL	FINISH	HARDWARE GROUP				
(E) 3347	H	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	02	PH			
(E) 3348	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	02	PH			
(E) 3349	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07				
(E) 3350A	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	02	PH			
(E) 3350B	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	02	PH			
(E) 3351	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	29				
(E) 3351A	D	3'-0"	7'-0"	1 3/4"	GL	WD1	PT	HM	PT	16				

DOOR NUMBER		DOOR TYPE		DETAILS				OPENING		DOOR PANEL			DOOR FRAME			Fire Rating	REMARKS
DOOR NUMBER	DOOR TYPE	HEAD	JAMB	JAMB	THRESHOLD	WIDTH	HEIGHT	THICKNESS	CORE	MATERIAL	FINISH	MATERIAL	FINISH	HARDWARE GROUP			
(E) 338A	C					6'-0"	7'-11"	1 3/4"	GL	AL	PT	AL	PT	06		PH	
(E) 338B	C					6'-0"	7'-11"	1 3/4"	GL	AL	PT	AL	PT	06		PH	
(E) 3389	E					8'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	39			
(E) 3390A	E					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07			
(E) 3391A	E					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07			
(E) 3391B	G					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	(E)			
(E) 3392A	E					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07			
(E) 3392B	C					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	(E)			
(E) 3393A	E					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07			
(E) 3393C	G					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	(E)			
(E) 3394	E					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07			
(E) 3395A	E					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07			
(E) 3395B	B					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07			
(E) 3396A	E					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07			
(E) 3396B	E					3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	07			
(E) 3370	B					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	12E	45MIN		
(E) 3371	B					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	12E	45MIN		
(E) 3372	B					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	12E	45MIN		
(E) 3373	B					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	12E	45MIN		
(E) 3374A	B					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	12E	45MIN		
(E) 3376	B					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	12E	45MIN		
(E) 3378	B					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	12E	45MIN		
(E) 3379	B					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	12E	45MIN		
(E) 3380	B					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	12E	45MIN		
(E) 3381	B					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	12E	45MIN		
(E) 3382	B					3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	12E	45MIN		
365B	G	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	29			
365B	G	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	29			
366C	G	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	35F	45MIN		
367	E	12/A8.51	10/A8.51	10/A8.51	09/A8.51	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	34			
368A	E	12/A8.51	10/A8.51	10/A8.51	09/A8.51	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	34			
368B	E	12/A8.51	10/A8.51	10/A8.51	09/A8.51	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	34			
368C	G	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	35F	45MIN		
369A	B	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	35F	45MIN		
369B	B	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	35F	45MIN		
369C	G	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	29	45MIN		
372A	B	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	35F	45MIN		
372C	G	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	35F	45MIN		
374B	G	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	35F	45MIN		
375	B	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	35F	45MIN		
375A	B	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	35F	45MIN		
377A	B	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	35F	45MIN		
377B	B	04/A8.51	03/A8.51	03/A8.51	01/A8.61	3'-0"	7'-0"	1 3/4"	SC	WD1	PT	HM	PT	35F	45MIN		



DOOR NUMBER		DOOR TYPE		OPENING				DOOR PANEL			DOOR FRAME			REMARKS
DOOR NUMBER	DOOR TYPE	WIDTH	HEIGHT	THICKNESS	CORE	MATERIAL	FINISH	MATERIAL	FINISH	HARDWARE GROUP				
(E) 270A	D	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	01				
(E) 271A	C	5'-0"	7'-11"	1 3/4"	GL	AL	FF	AL	PT	01				
(E) 271B	C	5'-0"	7'-11"	1 3/4"	GL	AL	FF	AL	PT	01				
(E) 271C	C	5'-0"	7'-11"	1 3/4"	GL	AL	FF	AL	PT	01				
(E) 272	B	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	04				
(E) 274C	B	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	04				
(E) 277B	B	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	04				

DOOR NUMBER		DOOR TYPE		OPENING				DOOR PANEL			DOOR FRAME			REMARKS
DOOR NUMBER	DOOR TYPE	WIDTH	HEIGHT	THICKNESS	CORE	MATERIAL	FINISH	MATERIAL	FINISH	HARDWARE GROUP				
(E) 290B	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	04				
(E) 290C	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	04				
(E) 291A	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	04				
(E) 291B	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	04				
(E) 292A	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	04				
(E) 292B	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	04				
(E) 293A	E	3'-0"	7'-0"	1 3/4"	HCI	HM	PT	HM	PT	04				



ARCHITECTURE ENGINEERING INTERIORS  
LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPA Design Studios.com

5301 California Avenue,  
Suite 100  
Irvine, California 92617

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MODERNIZATION  
2900 PARKWAY DR, EL MONTE, CA 91702

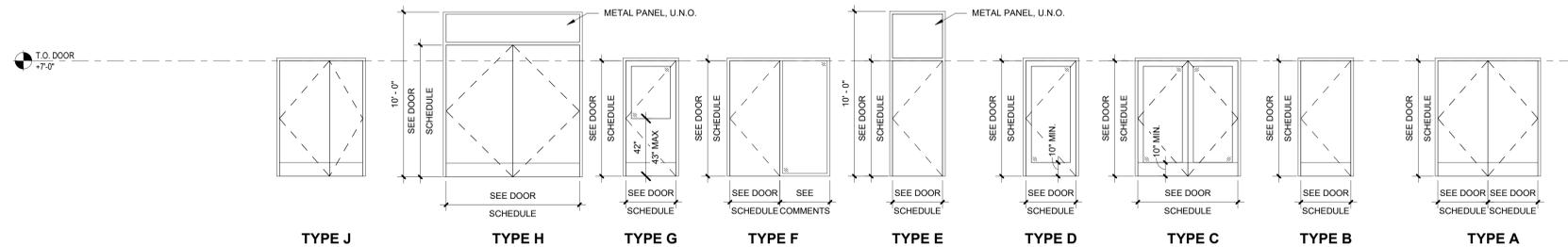
Developed for  
EL MONTE UNION HIGH SCHOOL DISTRICT

DOOR SCHEDULE BUILDING L. Table with columns: DOOR NUMBER, DOOR TYPE, OPENING (WIDTH, HEIGHT), DOOR PANEL (THICKNESS, CORE, MATERIAL, FINISH), DOOR FRAME (MATERIAL, FINISH, HARDWARE GROUP), REMARKS.

DOOR SCHEDULE BUILDING M. Table with columns: DOOR NUMBER, DOOR TYPE, OPENING (WIDTH, HEIGHT), DOOR PANEL (THICKNESS, CORE, MATERIAL, FINISH), DOOR FRAME (MATERIAL, FINISH, HARDWARE GROUP), REMARKS.

DOOR SCHEDULE PORTABLES. Table with columns: DOOR NUMBER, DOOR TYPE, OPENING (WIDTH, HEIGHT), DOOR PANEL (THICKNESS, CORE, MATERIAL, FINISH), DOOR FRAME (MATERIAL, FINISH, HARDWARE GROUP), REMARKS.

DOOR TYPES



ABBREVIATIONS

Table of abbreviations for CORE, DOOR PANEL FINISH, DOOR FRAME FINISH, CLOSER, DOOR PANEL MATERIAL, DOOR FRAME MATERIAL, REMARKS.

DOOR NOTES

- 1. DOORS SERVING EXIT ENCLOSURES SHALL COMPLY WITH CBC 715.4.1 AND SHALL BE TESTED IN ACCORDANCE WITH NFPA 252 OR UL 10C WITHOUT THE HOSE STREAM TEST.
2. FIRE DOOR ASSEMBLIES WITH SIDE HINGED AND PIVOTED SWINGING DOORS SHALL BE TESTED IN ACCORDANCE WITH NFPA 252 OR UL 10C.
3. FIRE DOOR ASSEMBLIES SHALL BE LABELED BY AN APPROVED AGENCY. THE LABELS SHALL COMPLY WITH NFPA 80, AND SHALL BE PERMANENTLY AFFIXED TO THE DOOR OR FRAME.
4. AUTOMATIC-CLOSING FIRE DOOR ASSEMBLIES SHALL BE SELF-CLOSING IN ACCORDANCE WITH NFPA 80.
5. MAXIMUM EFFORT TO OPERATE EXTERIOR OR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 5 POUNDS. THIS MAY BE INCREASED TO 15 POUNDS FOR FIRE RATED DOORS.
6. PROVIDE CLEAR SPACE OF 12" PAST STRIKE EDGE OF THE DOOR ON THE OPPOSITE SIDE WHICH THE DOOR SWINGS IF THE DOOR IS EQUIPPED WITH BOTH A LATCH AND A CLOSER.
7. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
9. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED TO A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
10. POWER OPERATED DOORS SHALL BE CAPABLE OF BEING OPENED MANUALLY TO PERMIT MEANS OF EGRESS TRAVEL OR CLOSED WHERE NECESSARY TO SAFEGUARD MEANS OF EGRESS. THE FORCES REQUIRED TO OPEN THESE DOORS MANUALLY SHALL NOT EXCEED THOSE SPECIFIED IN CBC SECTION 1010.1.3, EXCEPT THAT THE FORCE TO SET THE DOOR IN MOTION SHALL NOT EXCEED 50 POUNDS. THE DOOR SHALL BE CAPABLE OF SWINGING FROM ANY POSITION TO THE FULL WIDTH OF THE OPENING IN WHICH SUCH DOOR IS INSTALLED WHEN A FORCE IS APPLIED TO THE DOOR ON THE SIDE FROM WHICH EGRESS IS MADE. FULL-POWER OPERATED DOORS SHALL COMPLY WITH BMHA A156.10, POWER-ASSISTED AND LOW-ENERGY DOORS SHALL COMPLY WITH BMHA A156.19. (CBC SECTION 1010.1.4.2)
11. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISHED FLOOR.
12. FOR DOOR HARDWARE SETS, REFER TO SCHEDULE AND SPECIFICATION SECTION 087100.
13. IF ELECTRICAL ROOM HAS EQUIPMENT RATED AT 1200 AMPERES OR MORE, IS OVER SIX FEET WIDE, AND CONTAINS OVERCURRENT, SWITCHING OR CONTROL DEVICES, DOOR SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL AND BE EQUIPPED WITH PANIC OR FIRE EXIT HARDWARE.
14. EXTERIOR DOOR SURFACES AND CLADDINGS TO BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS.
16. FIRE DOORS SHALL BE LABELED PER CBC 716.5.7.1.
17. FOR TYPICAL DEVICE INSTALLATION SEE G0.32.
18. FOR TYPICAL DOOR CLEARANCES SEE G0.32.
19. SAFETY GLAZING USED IN THE HAZARDOUS LOCATIONS INDICATED SHALL BE TESTED IN ACCORDANCE WITH CPSC CFR PART 1201 AND SHALL BE IDENTIFIED BY A MANUFACTURER'S DESIGNATION SPECIFYING WHO APPLIED THE DESIGNATION, THE MANUFACTURER OR INSTALLER, AND THE SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES. (CBC 2406.2, CBC 2406.3)
20. FLOORS OR LANDINGS ON EITHER SIDE OF A DOOR SHALL BE AT THE SAME ELEVATION AND SHALL BE LEVEL EXCEPT EXTERIOR LANDINGS MAY HAVE A MAXIMUM 2 PERCENT SLOPE (CBC 1010.1.5). THRESHOLDS AT A DOORWAY SHALL EXCEED 1/4" ABOVE GROUND.
21. EXCEPT AS SPECIFICALLY PERMITTED BY CBC 1010.1.9, EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE (CBC 1010.1.9).
22. FOR DOOR LEADING TO FIRE RISER ROOM, PROVIDE 2" HIGH VINYL STICKER LETTERING TO READ "FIRE RISER INSIDE" ON DOOR PANEL. FONT TO BE ARIAL, COLOR TO BE "RED FIRE" (RAL 3000) MIN.
23. ALL DOORS LABELED WITH (E) BEFORE DOOR NUMBER WILL HAVE DOOR HARDWARE CHANGE ONLY.

Revision table with columns: Revision, Description, Date.

Submittal table with columns: Submittal, Description, Date.

Job information table with columns: Job Number, Date Published, Checked By, Scale.

DOOR SCHEDULE