



**DALLAS INDEPENDENT SCHOOL DISTRICT
PROCUREMENT SERVICES
ADDENDUM NO. 03
CSP 207777 Mary McLeod Bethune Elementary School - Renovation**

January 31, 2025

The Purpose of this Addendum No. 03 is to provide questions and answers received for the noted solicitation. In addition, there may also be updates to the solicitation which should be published as important information related to the process:

QUESTION 1: The Alternates on the plans do not match the bid form.

ANSWER 1: Reference attached updated to 00 41 12 – Proposal Form – Alternates & Unit Pricing

Some Information may be only an Update to what was previously published, e.g. a Pre-Proposal Meeting or bid opening date has changed. These items may be labeled as Updates:

UPDATE 1: Update to 00 11 13 – Updated CSP due dates and Evaluation Date.

CSP Response Due Date Part 1-A, 1-B, and 1-C: Tuesday, February 18, 2025, at 2:00 PM

CSP Response Due Date: Part 2: Wednesday, February 19, 2025, at 3:00 PM

CSP Evaluation: Tuesday, February 25, 2025

UPDATE 2: Update to Specifications:

08 71 00 – Door Hardware

Please sign this addendum # 03 and submit along with your copies of the proposal. ALL OTHER PROVISIONS, AND OTHER TERMS AND CONDITIONS REMAIN UNCHANGED. BIDDERS ARE REQUIRED TO ACKNOWLEDGE AND RETURN/SUBMIT A COPY OF THIS ADDENDUM WITH THEIR PROPOSAL.

Company Name
Bidder's Signature
Date

END OF ADDENDUM
NO. 03

**DISD Org 274 Mary McLeod Bethune Elementary School
CSP 207777
January 31, 2025**

The list below is a description of the documents provided to the contractor as part of Addendum No. 03 for Competitive Sealed Proposal – 207777

Specification Section 00 11 13 – Advertisement for CSP

- Revisions made to Part 1-A and 1-B, Part 2, and CSP Evaluation due dates

Specification Section 00 41 12 – Proposal Form – Alternates

- Revisions made to 210 Alternates Price Items, Numbering matches drawing list.

Specification Section 08 71 00 – Door Hardware

- Revisions made to manufacturers
- Includes Door Hardware Schedule

- END OF ADDENDUM NO. 03 –

DISD - MARY MCLOED BETHUNE ELEMENTARY SCHOOL
ORG 274
CSP CS 207777
January 30, 2025



ADDENDUM NO. 3
TO THE PROJECT MANUAL

Refer to the sections for all items affected by this Addendum

Replace existing sections 087100 - Door Hardware with new attached section 087100 -
Door Hardware

— END OF ADDENDUM NO. 3 —



Procurement Services

December 22, 2024

The Dallas Independent School District ("District") is soliciting Competitive Sealed Proposals ("CSP") from qualified sources relative to the provision of the following request For Competitive Sealed Proposals ("CSP"). This procurement will be managed under the Dallas ISD Construction Services department.

For information on how to obtain the CSP documents, go to the District's **Construction Services** website <http://www.dallasisd.org>. Click on "Departments;" click on "Construction Services/Bond Office;" click on "Bond Vendor Opportunities;" then click on the bid package number. Follow the Document Distribution instructions to obtain the CSP documents. The CSP documents contain the necessary information to submit a CSP to the District, including construction documents, selection criteria, estimated budget, project scope, schedule, and other information that contractors may require to respond to the request.

Please return the "Intention to Propose" form (Specification Section 00 11 17) to the Construction Services Procurement Director listed on the form.

CSP #	Description	Closing Date	Buyers Initials
207777	MARY MCLEOD BETHUNE ELEMENTARY SCHOOL – RENOVATION	February 18, 2025	DBE

A pre-proposal meeting will be held at 10:00 AM on January 06, 2025, via Teams for all interested parties. This meeting is not mandatory, but information discussed will be extremely helpful in preparation of the proposal.

Join Teams Meeting

Meeting ID: 233 823 248 808

Passcode: Ae7XB3x6

All general contractors and sub-contractors are encouraged to attend this meeting. Contractors will meet A/E(s) and PM at the school to start site tours. The first site tour will take place immediately following the pre-proposal. The following is the schedule for each site tour:

School Org#	School Name	Date	Time	School Address, Location of Meeting
274	MARY MCLEOD BETHUNE ELEMENTRAY SCHOOL – RENOVATION	January 06, 2025	3:00 PM	1665 Duncanville Road Dallas, TX 75211

All Construction Services procurements must be physically delivered to the Construction Services office, at the Linus D. Wright Dallas ISD Administration Building 9400 North Central Expressway, Suite 800 Dallas, TX 75231. (Call 972.925.7200 for directions). Delivery to other locations will result in rejection of a CSP.

Completed CSP Package **Part 1-A, 1-B and 1-C are due on Tuesday, February 18, 2025, at 2:00 PM** (local time).

Completed CSP Package **Part 2 is due on Wednesday, February 19, 2025, at 3:00 PM** (local time).

Any materials received after the respective closing dates / times will not be considered.

The District will open and read the names of the proposers and prices submitted in responsive CSPs beginning at 3:00 P.M. local time upon submittal of Part 2 of the Package, via Teams.

Join Teams Meeting

Meeting ID: 295 502 668 376

Passcode: je7nq3W5

No further information will be officially released until after the date the Agenda is publicized for the Board of Trustees briefing.

The right is reserved to reject any or all bids, proposals, CSPs or statements of qualification and to waive technicalities.

The Dallas Independent School District is committed to the ideals of equal opportunity in all its business endeavors.

The Dallas Independent School District's Construction Services projects have a 30% Minority and Women-Owned Business Enterprise (M/WBE) construction goal.

RUN TWO TIMES ONLY AS FOLLOWS:

December 22, 2024, and December 29, 2024



**DALLAS INDEPENDENT SCHOOL DISTRICT
PROCUREMENT SERVICES – CONSTRUCTION SERVICES**

DOCUMENT DISTRIBUTION

CONSTRUCTION SERVICES

CSP 207777

**ORG 274 – MARY MCLEOD BETHUNE ELEMENTARY SCHOOL – RENOVATION
J274_P0236_1**

SOLICITATION TIMELINE:

Issue Date:	December 22, 2024
First Advertisement Date	December 22, 2024
Second Advertisement Date	December 29, 2024
Preproposal Meeting	January 06, 2025 - Virtual: 10:00 AM - Walk-Through: 3:00 PM
Question Deadline	January 13, 2025
Question Responses from the District	January 21, 2025
CSP Response Due Dates Pt 1-A and Pt 1-B	February 18, 2025, at 2:00 PM
CSP Response Due Date Pt 2	February 19, 2025, at 3:00 PM
CSP Evaluation	February 25, 2025
Anticipated Board Approval	April 24, 2025

1. DOCUMENT DISTRIBUTION:

The attached "Document Distribution" page details how documents and addenda will be distributed.

2. ESTIMATED CONSTRUCTION BUDGET INCLUDING ALLOWANCES:

Total Estimated Construction Budget (CCL + IC+ Allowances) for CSP 207777 \$3,384,117.28

3. Scope of Work. The Work consists of:

ORG 274 – Mary McLeod Bethune Elementary School – Renovation – Project Consists of the following:

1. Provide Security System Upgrade, including card access readers, cameras, and door contacts etc.
2. Provide Secure Front Vestibule, Renovate and Expand Administration.
3. Replace Existing Marquee Sign.
4. Replace Existing Roof: A, B & C
5. Replace Existing Waterproofing / Sealant Joints

6. Mechanical / HVAC Improvements including New Split System and Rooftop Units, Replace Condenser Water Piping, Controls, Condenser Water Pumps, and Air-Cooled Chiller.

4. Contact Information:

Technical questions and all other questions related to this solicitation are to be referred to:

Attention:

Dallas ISD Procurement Services

Email:

ProcurementCS@dallasisd.org

Please notate the solicitation number **CSP 207777** in the subject line of your email.

**DOCUMENT DISTRIBUTION
CSP PACKAGE 207777**

Documents will be distributed as follows:

Hard copy and file distribution are provided, beginning

Printing Company Name:	Thomas Printworks
Attention:	Jon Sauve
Address:	3610 Oak Lawn Avenue
City, State and Zip	Dallas, TX 75219
Phone:	214-880-0022
Email:	Jon.Sauve@thomasprintworks.com

Any addendum issued will be listed or posted at the **Dallas ISD Construction Services** website <http://www.dallasisd.org/> **Click on “Departments”**; **click on “Construction Services/Bond Office”**; **click on “Bond Vendor Opportunities”**; then click on the bid package number. Any and all addenda that are too large in size for the website will not be posted on the District website. However, all such addenda will be listed on the website with the date of issuance of each addendum, and instructions to proposers for procuring such addenda from **Thomas Printworks**.

Documents are available as follows:

- **Full size sets of plans and specifications and USB drives of the same information and details are available for purchase at the Printing Company noted above. Purchase price must be obtained directly from the Printing Company.**
- **The purchases of additional USB drives of proposal documents in PDF format are available only to purchasers of at least one (1) full size plans and specifications. Purchase price must be obtained directly from the Printing Company.**
- **Addenda will be available from the Printing Company for purchase. Purchase price must be obtained directly from the Printing Company.**

Delivery pricing can be obtained from **Thomas Printworks**

The bidder or proposer is responsible for obtaining all Addenda prior to submitting a bid or proposal to the District.

A list of Plan Rooms and other entities that have documents available for viewing are as follows:

DRAWINGS AND SPECIFICATIONS ARE AVAILABLE AT THE FOLLOWING:

Dallas/Fort Worth Minority Supplier Development Council

Sha'Ron Richardson

construction@dfwmsdc.com

214-630-0747
8828 N. Stemmons Freeway, Ste. 550
Dallas, TX 75247

Regional Hispanic Contractors Association

John H. Martinez

john@regionalhca.org

972-786-0909
3918 North Hampton Rd.
Dallas, TX 75212

Regional Black Contractors Association of North Texas, Inc.

John Proctor

info@blackcontractors.org

214-565-8946
2627 Martin Luther King Jr. Blvd,
Dallas, TX 75215

Fort Worth Hispanic Chamber of Commerce

Gilbert Juarez

gilbert@pic-printing.com

<https://www.fwhccplanroom.com/>

817-625-5411
1327 N. Main Street
Fort Worth, TX 76164

Greater Dallas Hispanic Chamber of Commerce

Gabriela Carvallo

gabriela@gdhcc.com

214-521-6007
1402 N. Corinth St., Ste 225
Dallas, TX 75215

Construction Connect

Michael Stubbs

Content@ConstructConnect.com

800-364-2059
30 Technology Parkway South, Ste 100
Norcross, GA 30092

Dodge Data & Analytics formerly McGraw-Hill Construction Dodge

support@construction.com

877-784-9556
4300 Beltway Place, Ste. 180
Arlington, TX 76018

Dallas Black Chamber of Commerce

Tigist Solomon

tsolomon@dbcc.org

214-702-6652
2922 Martin Luther King Jr. Blvd., Building A, Ste. 104
Dallas, TX 75215

Fort Worth Metropolitan Black Chamber of Commerce

Jeremiah Anderson

janderson@fwmbcc.org

817-871-6558
1150 South Fwy, Ste. 211
Fort Worth, TX 76104

Virtual Builders Exchange, LLC

Heidi Shaffer

heidi@virtualbx.com

210-564-6900
4047 Naco Perrin, Ste.100
San Antonio, TX 78217

SECTION 00 41 12 – PROPOSAL FORM – ALTERNATES AND UNIT PRICING

Name of Contractor	
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**Proposal COMPETITIVE SEALED PROPOSAL (Part 1C)
to
DALLAS INDEPENDENT SCHOOL DISTRICT
FOR THE FOLLOWING WORK:**

PART 1. General Information

CSP PACKAGE 207777, consisting of improvements to:

Org #	PROJECT NAME	PROJECT TYPE	ADDRESS
274	MARY MCLEOD BETHUNE ELEMENTARY SCHOOL – RENOVATION	Renovation	1665 Duncanville Road Dallas, TX 75211

PART 2. Proposal Form

2.01 through 2.09

Refer to Specification Section 00 41 11.

2.10 Alternate Price Items

The Contractor proposes the following sums as **additions to** or **deductions from** the Base Price amount for alternates. Failure to quote every item may cause the entire Proposal to be considered non-responsive. If there is no cost change in the alternate(s) pricing, the Contractor should enter “\$0.00” as the price for the alternate. Do not make an entry of N/A.

All Alternates must be priced. Alternates are not listed in the order of preference.

ORG 274 MARY MCLEOD BETHUNE ELEMENTARY SCHOOL

No.	Alternate Description	Proposer’s Add Price	Proposer’s Deduct Price
001	ALTERNATE 1: Remove and replace all ceilings not replaced under other work items		
002	ALTERNATE 2: Replace Fire Alarm		
003	ALTERNATE 3: Replace Exterior Lighting Controls		
004	ALTERNATE 4: Replace Exterior Lighting with LED Fixtures		
005	ALTERNATE 5: Replace Interior Lighting Controls		
006	ALTERNATE 6: Replace Interior Lighting (other than corridor) with LED Fixtures		
007	ALTERNATE 7: Replace Sound System		
008	ALTERNATE 8: Mechanical Improvement		
009	ALTERNATE 9: Replace MDF/IDF AC Units		

2.11 Unit Prices

The Contractor proposes the following all-inclusive unit prices for the items/tasks. Failure to provide unit pricing for each item may result in the Proposal being deemed as non-responsive. Do not make an entry of N/A. All unit prices must be priced. Unit prices are not listed in order of preference.

ORG 274 MARY MCLEOD BETHUNE ELEMENTARY SCHOOL

No.	Unit Price Item	Unit of measure	Proposer’s Unit Price
	N/A	N/A	N/A

2.12 through 2.14

SECTION 00 41 12 – PROPOSAL FORM – ALTERNATES AND UNIT PRICING

Name of Contractor	
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Refer to Specification Section 00 41 11.

SECTION 00 41 12 – PROPOSAL FORM – ALTERNATES AND UNIT PRICING

Name of Contractor	
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PART 3. Execution

3.01 Proposal Form Execution (Part 1A)

Contractor's Firm Name (legal name)	
Federal Tax I. D. Number	
Contractor's Street Address	
Contractor's Phone Number	
Contractor's Fax Number	
Contractor's Email Address	

SUBMITTED BY:

 (Corporation, Partnership, Individual, etc.)

Name of President of Corporation *or*
 Name of Principal Owner

Name of Secretary of Corporation
 (if applicable)

(Corporation, Partnership, etc.,) is organized under the laws of the State of _____.

Firm: _____

By: _____

Title: _____

Legal Address: _____

Date: _____

Affix Corporation Seal here (if applicable)

SECTION 08 71 00 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Door hardware for doors specified in "Hardware Sets" and required by actual conditions. Include screws, bolts, expansion shields, electrified door hardware, and other devices for proper application of hardware.
- B. Products supplied but not installed under this Section:
 - 1. Hardware for aluminum doors will be furnished under this Section but installed under Division 08 Openings.
 - 2. Electrified hardware will be furnished under this Section but installed by the security contractor.
 - 3. Final replacement of cylinder cores shall be installed by Owner.
 - 4. Hold open wall magnets.

1.2 RELATED DIVISIONS

- A. Division 08 - Openings.
- B. Division 26 - Electrical.
- C. Division 28 – Electronic Safety and Security

1.3 REFERENCES

- A. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI):
 - 1. ANSI/BHMA A156.1 Butts & Hinges (2006).
 - 2. ANSI/BHMA A156.2 Bored & Preassembled Locks & Latches (2011).
 - 3. ANSI/BHMA A156.3 Exit Devices (2008).
 - 4. ANSI/BHMA A156.4 Door Controls - Closers (2008).
 - 5. ANSI/BHMA A156.5 Cylinders and Input Devices for Locks (2010).
 - 6. ANSI/BHMA A156.6 Architectural Door Trim (2010).
 - 7. ANSI/BHMA A156.7 Template Hinge Dimensions (2009).
 - 8. ANSI/BHMA A156.10 Power Operated Pedestrian Doors (2011).
 - 9. ANSI/BHMA A156.12 Interconnected Locks & Latches (2005).
 - 10. ANSI/BHMA A156.13 Mortise Locks & Latches (2005).
 - 11. ANSI/BHMA A156.14 Sliding & Folding Door Hardware (2007).
 - 12. ANSI/BHMA A156.15 Closer Holder Release Devices (2011).
 - 13. ANSI/BHMA A156.16 Auxiliary Hardware (2008).
 - 14. ANSI/BHMA A156.17 Self Closing Hinges & Pivots (2010).
 - 15. ANSI/BHMA A156.18 Materials & Finishes (2006).
 - 16. ANSI/BHMA A156.19 Power Assist & Low Energy Power Operated Doors (2007).
 - 17. ANSI/BHMA A156.21 Thresholds (2009).
 - 18. ANSI/BHMA A156.22 Door Gasketing Systems (2012).
 - 19. ANSI/BHMA A156.23 Electromagnetic Locks (2010).
 - 20. ANSI/BHMA A156.24 Delayed Egress Locks (2003).
 - 21. ANSI/BHMA A156.25 Electrified Locks (2007).
 - 22. ANSI/BHMA A156.26 Continuous Hinges (2006).
 - 23. ANSI/BHMA A156.28 Keying Systems (2007).
 - 24. ANSI/BHMA A156.29 Exit Locks and Alarms (2007).
 - 25. ANSI/BHMA A156.30 High Security Cylinders (2007).
 - 26. ANSI/BHMA A156.36 Auxiliary Locks (2010).
 - 27. ANSI/BHMA A156.115W Hardware Preparation in Wood Doors with Wood or Steel Frames (2006).
 - 28. ANSI/BHMA A250.13 Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies (2003).

- B. International Code Council/American National Standards Institute (ICC/ANSI)/ADA:
 - 1. ICC/ANSI A117.1 Standards for Accessible and Usable Buildings and Facilities 2009.
 - 2. Americans with Disabilities Act Accessibility Guidelines (ADAAG).
- C. Underwriters Laboratories, Inc. (UL):
 - 1. UL 10C Positive Pressure Fire Test of Door Assemblies.
 - 2. UL 1784 Air Leakage Test of Door Assemblies.
 - 3. UL/ULC Listed.
- D. Door and Hardware Institute (DHI):
 - 1. DHI Publication - Keying Systems and Nomenclature (1989).
 - 2. DHI Publication - Abbreviations and Symbols.
 - 3. DHI Publication - Installation Guide for Doors and Hardware.
 - 4. DHI Publication - Sequence and Format of Hardware Schedule (1996).
- E. National Fire Protection Agency (NFPA)
 - 1. NFPA 70 National Electrical Code 2011.
 - 2. NFPA 80 Standard for Fire Doors and Other Opening Protective's 2010.
 - 3. NFPA 101 Life Safety Code 2012.
 - 4. NFPA 105 Standard for the Installation of Smoke Door Assemblies 2010.
- F. Building Codes
 - 1. IBC International Building Code 2012.
- G. Miami Dade Building Code Compliance:
 - 1. Provide products where indicated with NOA numbers approved by Miami-Dade Building Code Compliance.
- H. Florida Building Code Compliance:
 - 1. Provide products where indicated with Florida Building Code Certification Number.

1.4 SUBMITTALS

- A. Submit in accordance with Conditions of the Contract and provisions of Section 01 30 00 - Administrative Requirements.
- B. Shop Drawings: Hardware schedule shall be organized in vertical format illustrated in DHI Publications Sequence and Formatting for the Hardware Schedule. Include abbreviations and symbols page according to DHI Publications Abbreviations and Symbols. Complete nomenclature of items required for each door opening as indicated.
 - 1. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of hardware.
 - 2. Architectural Hardware Consultant (AHC), as certified by DHI, who shall affix seal attesting to completeness and correctness, shall review hardware schedule prior to submittal.
- C. Submit manufacturer's catalog sheet on design, grade and function of items listed in hardware schedule. Identify specific hardware item per sheet, provide index, and cover sheet.
- D. Coordination: Distribute door hardware templates to related divisions within fourteen days of receiving approved door hardware submittals.
- E. Electrified Hardware: Provide electrical information to include voltage, and amperage requirements for electrified door hardware and description of operation.
 - 1. Description of operation for each electrified opening to include description of component functions including location, sequence of operation and interface with other building control systems.
 - 2. Wiring Diagrams: Detail wiring for power, signal, and control system and differentiate

- between manufacturers installed and field installed wiring. Include the following:
 - a. System schematic.
 - b. Point to point wiring diagram.
 - c. Riser diagram.
 - d. Elevation of each door.
- 3. Detail interface between electrified door hardware and fire alarm, access control, security, and building control systems.
- F. Upon door hardware submittal approval, provide for each electrified opening, three copies of point-to-point diagrams.
- G. Maintenance Tool and Instructions: Furnish a complete set of specialized tools and maintenance instructions for Owner's continued adjustment, maintenance, removal, and replacement of door hardware.
- H. Closeout Submittals: Submit to Owner in a three-ring binder or CD if requested.
 - 1. Warranties.
 - 2. Maintenance and operating manual including list of maintenance tools.
 - 3. Maintenance service agreement.
 - 4. Record documents.
 - 5. Copy of approved hardware schedule.
 - 6. Copy of approved keying schedule with bitting list.
 - 7. Door hardware supplier name, phone number and fax number.

1.5 QUALITY ASSURANCE

- A. Electrified door hardware shall be Listed and Labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authority having jurisdiction.
- B. Hardware supplier shall employ an Architectural Hardware Consultant (AHC) as certified by DHI and a member of the seal program who shall be available at reasonable times during course of work for Project hardware consultation.
 - 1. Electrified Door Hardware Supplier Qualifications: Experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- C. Door hardware shall conform to ICC/ANSI A117.1. Handles, Pulls, Latches, Locks, and operating devices: Shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist.
- D. Fire Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware rated for use in assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL 10C, unless otherwise indicated.
- E. Fire Door Inspection: Prior to receiving certificate of occupancy have fire rated doors inspected by an independent certified Fire and Egress Door Assembly Inspector (FDAI), as certified by Intertek (ITS), a written report shall be submitted to Owner and Contractor. Doors failing inspection shall be adjusted, replaced, or modified to be within appropriate code requirements.
- 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.
- G. Door hardware shall be certified to ANSI/BHMA standards as noted, participate, and be listed in BHMA Certified Products Directory.

- H. Pre-installation Meeting: Comply with requirements in Division 1 Section "Project Meetings".
 - 1. Convene meeting seven days before installation. Participants required to attend:
 - 2. Contractor, installer, material supplier, manufacturer representatives, electrical contractor, security consultant and fire alarm consultant.
 - 3. Include in conference decisions regarding proper installation methods and procedures for receiving and handling hardware.
 - 4. Review sequence of operation for each type of electrified door hardware, inspect, and discuss electrical roughing-in and other preparatory work performed by other trades.
 - 5. Review and finalize construction schedule and verify availability of materials, installer's personnel, equipment, and facilities needed to make progress and avoid delays.
- I. Within fourteen days of receipt of approved door hardware submittals contact Owner with representative from hardware supplier to establish a keying conference. Verify keyway, visual key identification, number of master keys and keys per lock. Provide keying system per Owner's instructions.
- J. Installer Qualifications: Specialized in performing installation of this Section and shall have five years minimum documented experience.
- K. Hardware listed in Par.: Hardware Schedule is intended to establish a type and grade.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Provide a clean, dry and secure room for hardware delivered to Project but not yet installed.
- B. Furnish hardware with each unit marked and numbered in accordance with approved finish hardware schedule. Include door and item number for each type of hardware.
- C. Pack each item complete with necessary parts and fasteners in manufacturer's original packaging.
- D. Deliver permanent key, cores, access control credentials, software, and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to Owner shall be established at "Keying Conference."
- E. Waste Management and Disposal: Separate waste materials for reuse or recycling in accordance with Division 1.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.8 WARRANTY

- A. General Warranty: Owner may have under provisions of the Contract Documents and shall be in addition to and run concurrent with other warranties made by Contractor under requirements of the Contract documents.
- B. Special Warranty: Warranties specified in this article shall not deprive Owner of other rights. Contractor, hardware supplier, and hardware installer shall be responsible for servicing hardware and keying related problems.
 - 1. Ten years for manual door closers.
 - 2. Five years for mortise, auxiliary and bored locks.
 - 3. Five years for exit devices.
 - 4. Two years for electromechanical door hardware.
- C. Products judged defective during warranty period shall be replaced or repaired in

accordance with manufacturer's warranty at no cost to Owner. There is no warranty against defects due to improper installation, abuse, and failure to exercise normal maintenance.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards.
- A. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements. Substitutions: Approved Equal.
- B. 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.
- C. 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 HINGES

- A. Hinges, including electric hinges and self-closing hinges when scheduled, shall be of one manufacturer as listed for continuity of design and consideration of warranty and shall be certified and listed by the following:
 - 1. Butts and Hinges: ANSI/BHMA A156.1
 - 2. Template Hinge Dimensions: ANSI/BHMA A156.7
 - 3. Self-Closing Hinges: ANSI/BHMA 156.17
- B. Butt Hinges:
 - 1. Hinge weight and size unless otherwise indicated in hardware sets:
 - a. Doors up to 36 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of .134 inch and a minimum of 4-1/2 inches in height.
 - b. Doors from 36 inches wide up to 42 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of .145 inch and a minimum of 4-1/2 inches in height.
 - c. For doors from 42 inches wide up to 48 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of .180 inch and a minimum of 5 inches in height.
 - d. Doors greater than 1-3/4 inches thick provide hinges with a minimum thickness of 0.180 inch and a minimum of 5 inches in height.
 - e. Width of hinge is to be minimum required to clear surrounding trim.
 - 2. Base material unless otherwise indicated in hardware sets:
 - a. Exterior Doors: 304 Stainless Steel, Brass or Bronze material.
 - b. Interior Doors: Steel material.
 - c. Fire Rated Doors: Steel or 304 Stainless Steel materials.
 - d. Stainless Steel ball bearing hinges shall have stainless steel ball bearings. Steel ball bearings are unacceptable.
 - 3. Quantity of hinges per door unless otherwise stated in hardware sets:
 - a. Doors up to 60 inches in height provide 2 hinges.
 - b. Doors 60 inches up to 90 inches in height provide 3 hinges.
 - c. Doors 90 inches up to 120 inches in height provide 4 hinges.
 - d. Doors over 120 inches in height add 1 additional hinge per each additional 30 inches in height.
 - e. Dutch doors provide 4 hinges.
 - 4. Hinge design and options unless otherwise indicated in hardware sets:
 - a. Hinges are to be of a square corner five-knuckle design, flat button tips and

- have ball bearings unless otherwise indicated in hardware sets.
 - b. Out-swinging exterior and out-swinging access-controlled doors shall have non-removable pins (NRP) to prevent removal of pin while door is in closed position.
 - c. When full width of opening is required, use hinges that are designed to swing door completely from opening when door is opened to 95 degrees.
 - d. Electric Through Wire (ETW) to have appropriate number of wires to transfer power through door frame to door for proper connection of finish hardware and certified to handle an amperage rating of 3.5AMPS/continuous duty with 16.0AMPS/intermittent duty.
 - e. Provide mortar boxes for frames that require any electrically modified hinges if not an integral part of frame.
 - f. When shims are necessary to correct frame or door irregularities, provide metal shims only.
- 5. Acceptable Manufacturer:
 - a. Ives 5BB series

2.3 RESCUE HARDWARE

- A. Rescue hardware sets shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer shall meet the requirements for:
 - 1. Butts and Hinges: ANSI/BHMA A156.1
- B. Material and Design: Head and floor pivots shall consist of stainless steel and polycarbonate top and bottom units. Provide walking type cam operated pivots for top and bottom. Use with wood or hollow metal doors not exceeding 36 by 70 inches and 135 pounds. Edge of doors shall be square on pivot side.
- C. Acceptable Manufacturer:
 - 1. Ives
- D. Combination Rescue Door Stop and Double Lipped Strike: Door release allows doors to be opened in both directions without damage to frame. Strike shall be full lip and be width dimension of jamb depth.
- E. Acceptable Manufacturer:
 - 1. Ives

2.4 FLUSH BOLTS AND COORDINATORS

- A. Flush bolts shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer to be listed for Auxiliary Hardware: ANSI/BHMA A156.16
- B. Labeled openings: Provide automatic or constant latching flush bolts per hardware schedule for inactive leaf of pairs of doors. Provide dust proof strikes for bottom bolt.
- C. Non-Labeled openings: Provide two flush bolts for inactive leaf of pairs of doors per hardware schedule. Top bolt shall not be more than 78 inches centerline from floor. Provide dust proof strike for bottom bolt.
- D. Acceptable Manufacturer:
 - 1. Ives
- E. Coordinators: Provide for labeled pairs of doors with automatic flush bolts or with vertical rod exit device with a mortise-locking device per hardware schedule. Provide filler piece to extend full width of stop on frame. Provide mounting brackets for closers and special preparation for latches where applicable.
- F. Acceptable Manufacturer:
 - 1. Ives

2.5 FLUSHBOLTS FOR ALUMINUM DOORS

- A. Provide two-point flush-bolt for inactive leaf of pairs of doors with locked and unlocked indicator. Match cylinder height of lock on active leaf with indicator. Provide stainless steel top and bottom bolts.
- B. Acceptable Manufacturer:
 - 1. Ives

2.6 REMOVABLE MULLIONS

- A. Keyed and non-keyed removable mullions shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer to be listed by UL/cUL/Warnock Hersey for fire rated pairs of doors up to 8 feet tall by 8 feet wide opening. Material and Design:
 - 1. For use with rim exit devices on non-rated and fire rated pairs of doors. Mullion 2 inches x 3 inches x 11 gage steel tube.
 - 2. Top Fitting:
 - a. Mullion shall be locked in place without use of a key.
 - b. Deadlock on fire rated device.
- B. Acceptable manufacturers (Keyed and Non-Keyed):
 - 1. Von Duprin

2.7 ELECTRIC STRIKES

- A. Provide for use with type of locks shown on hardware schedule. Manufacturer shall meet the following:
 - 1. ANSI/BHMA A156.31 Electric Strikes and Frame Mounted Actuators Grade 1.
 - 2. UL Tested 1500 lb static strength.
 - 3. UL listed for Fire Doors and Frames where applicable.
 - 4. UL 1034 Burglary Resistance.
 - 5. UL10C.3H fire rated, 4 feet by 8 feet door.
- B. Material and Design:
 - 1. To accept up to 3/4-inch latch bolt and 1 inch deadbolt.
 - 2. Field reversible, Fail Safe or Fail Secure
 - 3. Dual voltage 12/24 VDC.
 - 4. Tamper resistant, stainless steel corrosion resistance parts, and cast body and keeper.
- C. Options:
 - 1. Latch Bolt Monitoring (LBM) Signals the door is closed and latched or unlatched and open.
 - 2. Door Secure Monitor (DSM) Door secure and unlocked monitoring.
 - 3. Deadbolt Monitoring (DBM) Signals deadbolt projected or retracted.
 - 4. Plug in buzzer (BUZZ) Indicates Fail Secure strike is energized and unlocked.
 - 5. Rectifier (RECT) Converts AC to DC
- D. Acceptable Manufacturer:
 - 1. Von Duprin

2.8 LOCKS AND LATCHES (GRADE 1 CYLINDRICAL)

- A. Locks and latches shall be of one manufacturer as listed for continuity of design and consideration of warranty. Product to be certified and listed by following:
 - 1. ANSI/BHMA A156.2 Series 4000 Certified to Grade 1.

2. ANSI/BHMA A250.13 Certified for a minimum design load of 1150lbf for single out swinging doors measuring 36 inches in width and 84 inches in height and a minimum design load of 1150lbf for out swinging single doors measuring 48 inches in width and 84 inches in height.
3. UL/CUL Labeled and listed for functions up to 3 hours for single doors up to 48 inches in width and up to 96 inches in height.
4. UL10C/UBC 7-2 Positive Pressure Rated.
5. ICC/ANSI A117.1.

B. Lock and latch function numbers and descriptions of manufacturer's series as listed in hardware sets. Material and Design:

1. Lock and Latch chassis to be Zinc dichromate for corrosion resistance.
2. Keyed functions to be of a freewheeling design to help resist against vandalism.
3. Non-handed, field reversible.
4. Thru-bolt mounting with no exposed screws.
5. Levers shall be Zinc cast and plated to match finish designation in hardware sets.
6. Roses shall be of solid Brass or Stainless-Steel material.

C. Latch and Strike:

1. Stainless Steel latch bolt with minimum of 1/2 inch throw and deadlocking for keyed and exterior functions. Provide 3/4-inch latch-bolt for pairs of fire rated doors where required by door manufacture. Standard backset to be 2-3/4 inches and faceplate shall be adjustable to accommodate a square edge door or a standard 1/8-inch beveled edge door.
2. Strike is to fit a standard ANSI A115 prep measuring 1-1/4 inches by 4-7/8 inches with proper lip length to protect surrounding trim.
3. Doors requiring lead line protection provide locks with 1/16-inch lead applied to lock and 1/16-inch lead wrapped around latch bolt.
4. Provide knurled levers on entry side of doors that are potentially dangerous to visually impaired persons.

D. Electric Locks:

1. Fail Safe (power locks lever) outside trim is locked when power is applied and unlocked when power is removed. Lockset will unlock in the event of a power failure. (EL).
2. Fail Secure (power unlocks lever) outside trim is locked when there is no power and unlocked when power is applied. Lockset will be locked in the event of a power failure. (EU).
3. Request to Exit: Monitors inside lever rotation. (RX).

E. Acceptable Manufacturer:

1. Schlage

2.9 PUSHBUTTON LOCK

A. Locks and latches shall be of one manufacturer as listed for continuity of design and consideration of warranty. Product to be listed by UL/CUL labeled and listed for functions up to 3 hours for single doors up to 48 inches in width and up to 96 inches in height.

B. Lock and latch function numbers and descriptions of manufacturer's series as listed in hardware sets. Material and Design:

1. Support 100 to 2000 PIN codes, multi-level user code and one time service codes. Provide free passage, group, and total lock-out modes.
2. Provide metal keypad with key override.

C. Acceptable Manufacturer:

1. Ives

2.10 PUSH/PULL LATCH

- A. Latches shall be of one manufacturer as listed for continuity of design and consideration of warranty. Product shall meet the following:
 - 1. ICC/ANSI A117.1 Standards for Accessible and Usable Buildings and Facilities (2009).
 - 2. UL listed.
- B. Material and Design:
 - 1. Latch: Stainless Steel.
 - 2. Push/Pull levers 1-15/16 inches by 4-1/2 inches, escutcheon 3-1/16 inches by 5 inches (127 mm), and projection 2-5/8 inches.
 - 3. Latch Bolt Throw 1/2 inch with 2-3/4 inches backset or 5 inches backset (optional).
 - 4. Mounts five positions: Levers down, levers up, one lever up one lever down (push), one lever up one lever down (pull), and levers point away from latch.
 - 5. Engraving: "PUSH", "PULL" (optional).
- C. Acceptable Manufacturer:
 - 1. Ives

2.11 DEADBOLTS (GRADE 1)

- A. Deadbolts shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer to be certified by the following:
 - 1. Auxiliary Locks: ANSI/BHMA A156.5 Grade 1.
 - 2. UL/CUL listed for functions up to 3 hours for "A" label.
 - 3. UL10C/UBC 7-2 Positive Pressure Rated.
- B. Deadbolt function numbers and descriptions of manufacturer's series as listed in hardware sets. Material and Design:
 - 1. Latch bolt 1 inch throw, material brass with concealed harden steel roller to prevent sawing or cutting.
 - 2. Freewheeling collar design to help resists against vandalism.
 - 3. Non-handed, field reversible.
- C. Acceptable Manufacturer:
 - 1. Schlage B600/B700/B800 Series

2.12 MAGNETIC LOCKS

- A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer shall meet requirements for ANSI/BHMA A156.23 Grade 1 Compliant. Design:
 - 1. Epoxy free, field upgradeable and repairable.
 - 2. Interlocking mounting plate to secure wiring and mounting screws.
 - 3. 1,200 lb. holding force.
 - 4. Surfaces plated and anodized.
 - 5. Built-in field adjustable 0-30 seconds re-lock delay (TIME).
 - 6. Indicates door open and door closed (DPS).
 - 7. Indicates locked and unlocked, low holding power, tampering and obstruction between armature and magnetic core. (MBS).
 - 8. Indicates access cover removed, SPDT dry, 1 amp @ 30 VDC.
 - 9. Door coordinator mounting kit (DC-1).
 - 10. Spacer bracket for concrete filled and blade stop applications. (UF11V).
- B. Acceptable Manufacturer:
 - 1. Schlage

2.13 EXIT DEVICES (GRADE 1)

- A. Shall be touch pad type, finish to match balance of door hardware. Exit Devices shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer to be certified and or listed by the following:
 - 1. BHMA Certified ANSI A156.3 Grade 1.
 - 2. UL/CUL Listed for up to 3 hours for "A" labeled doors.
 - 3. UL10C/UBC 7-2 Positive Pressure Rated.
 - 4. UL10B Neutral Pressure Rated.
 - 5. UL 305 Listed for Panic Hardware.
 - 6. 2007 Florida Building Code Certification Number: FL9481.1.
 - 7. ANSI/BHMA A250.13 Severe Windstorm Resistant Component.

- B. Material and Design:
 - 1. Touch pad shall extend a minimum of one half-door width. Freewheeling lever design shall match design of locks levers. Exit device to mount flush with door.
 - 2. Latch bolts: Rim device - 3/4 inch throw, Pullman type with automatic dead-latching, stainless steel. Surface vertical rod device - Top 1/2 inch throw, Pullman type with automatic dead-latching, stainless steel. Bottom 1/2 inch throw, Pullman type, held retracted during door swing, stainless steel.
 - 3. Fasteners: Wood screws, machine screws and thru-bolts.

- C. Lock and Latch Functions: Function numbers and descriptions of manufacturer's series and lever styles indicated in door hardware sets.

- D. Acceptable Manufacturer:
 - 1. Von Duprin 99/33A series

- E. Electric Modifications:
 - 1. Electric Latch Retraction: Continuous duty solenoids retract the latch bolt for momentary or maintained periods of time.
 - 2. Provide Request to Exit (REX) switches as scheduled.
 - 3. Electrified Trim: Outside trim locked (EL) or unlocked (EU) by electric current.
 - 4. Delayed Egress with Wall Mounted Controller (4501 DE).

2.14 NON-LATCHING PRESURE SENSE PUSH BAR

- A. Shall be finish to match balance of door hardware. Non-latching push bars shall be of one manufacturer as listed for continuity of design and consideration of warranty.

- B. Design: No moving parts. Tri-Failsafe, third redundant switch is automatically activated to release door if both sensors or electronics fail. Minimum projection from door 1.875 inches. Two dry contact for lock release, request to exit, alarm, or CCTV. Activation force 5 lbs, field adjustable to 15 lb (6.75 Kg).

- C. Acceptable Manufacturer:
 - 1. Schlage

2.15 CYLINDERS AND KEYING

- A. Cylinders shall be of one manufacturer as listed for continuity of design and consideration of warranty.

- B. Standards: Manufacturer shall meet the following:
 - 1. Auxiliary Locks: ANSI/BHMA A156.5
 - 2. DHI Handbook "Keying systems and nomenclature" (1989)

- C. Cylinders:
 - 1. Manufacturer's standard tumbler type, seven-pin IC core and seven-pin conventional core supported by the Hager H1 keyway.

- 2. Shall be furnished with cams/tailpieces as required for locking device that is being furnished for project.
- D. Scheduled Manufacturer:
 - 1. Existing Best Key System
- E. Keying:
 - 1. Copy of Owners approved keying schedule shall be submitted to Owner and Architect with documentation of which keying conference was held and Owner's sign-off.
 - 2. Provide a biting list to Owner of combinations as established and expand to twenty five percent for future use or as directed by Owner.
 - 3. Key into Owner's existing keying system if applicable.
 - 4. Keys to be shipped to Owner's representative, individually tag per keying conference.
 - 5. Provide visual key control identification on keys.
 - 6. Provide interchangeable cores with construction cores as required per hardware schedule.
 - 7. Single seven-pin key shall operate both conventional cores and SFIC small format interchangeable cores.
- F. Scheduled Manufacturer:
 - 1. Telkee
- G. Acceptable Manufacturer:
 - 1. HPC
 - 2. Lund

2.16 PUSH/PULL PLATES AND BARS

- A. Push and pull plates shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer to be certified by the following:
 - 1. Architectural Door Trim: ANSI/BHMA A156.6.
 - 2. Americans with Disabilities Act Accessibility Guidelines (ADAAG).
- B. Push plates: .050-inch thick, square corner and beveled edges with counter sunk screw holes. Width and height as stated in hardware sets.
 - 1. Acceptable Manufacturer:
 - a. Ives
- C. Pull plates: .050-inch thick, square corner and beveled edges. Width and height as stated in hardware sets, 3/4-inch diameter pull, with clearance of 2-1/2 inches from face of door.
 - 1. Acceptable Manufacturer:
 - a. Ives
- D. Push Pull Bar Sets: 1 inch round bar stock with 2-1/2 inches clearances from face of door. Offset to be 3 inches, 90-degree standard. Center to center size should be door width less 1 stile width.
 - 1. Acceptable Manufacturer:
 - a. Ives

2.17 CLOSERS (CAST IRON BODY GRADE 1)

- A. Shall be product of one manufacturer. Unless otherwise indicated on hardware schedule, comply with manufacturer's recommendations for size of closer, depending on width of door, frequency of use, atmospheric pressure, ADAAG requirements, and fire rating. Manufacturer to be certified by the following:
 - 1. BHMA Certified ANSI A156.4 Grade 1.
 - 2. ADA Complaint ANSI A117.1.
 - 3. UL/CUL Listed up to 3 hours.
 - 4. UL10C Positive Pressure Rated.

- 5. UL10B Neutral Pressure Rated.
- B. Material and Design:
 - 1. Provide cast iron non-handed bodies with full plastic covers.
 - 2. Closer shall have separate staked adjustable valve screws for latch speed, sweep speed, and backcheck.
 - 3. Provide Tri-Pack arms and brackets for regular arm, top jamb, and parallel arm mounting.
 - 4. Double heat-treated steel, tempered springs.
 - 5. Precision machined, heat-treated steel piston.
 - 6. Triple heat-treated steel spindle.
 - 7. Full rack and pinion operation.
- C. Mounting:
 - 1. Out swing doors shall have surface parallel arm mount closers except where noted on hardware schedule.
 - 2. In swing doors shall have surface regular arm mount closers except where noted on hardware schedule.
 - 3. Provide brackets and shoe supports for aluminum doors and frames to mount fifth screw.
 - 4. Furnish drop plates where top rail conditions on door do not allow for mounting of closer and where backside of closer is exposed through glass.
- D. Size closers in compliance with requirements for accessibility (ADDAG). Comply with following maximum opening force requirements. Interior hinged openings: 5.0 lb Fire rated and exterior openings shall have minimum opening force allowable by authority having jurisdiction.
- E. Fasteners: Provide self-drilling and tapping wood screws, machine screws and sex nuts and bolts for each closer.
- F. Acceptable Manufacturer:
 - 1. LCN 4040XP Series

2.18 FLOOR CLOSERS

- A. Shall be product of one manufacturer. Unless otherwise indicated on hardware schedule, comply with manufacturer's recommendations for size of closer, depending on width of door, frequency of use atmospheric pressure, and fire rating. Manufacturer to be certified or listed by the following:
 - 1. Closers ANSI/BHMA A156.4.
 - 2. UL/cUL Listed up to 3 hours.
 - 3. ADA Complaint ANSI A117.1.
- B. Material and Design: Closer to have separate, independent, and adjustable valves for closing speed, latch speed and have built-in dead stop to prevent door from swinging beyond required opening degree. Provide cement cases, install before floor construction.
- C. Acceptable Manufacturer:
 - 1. LCN

2.19 PROTECTIVE TRIM

- A. Size of protection plate: Single doors, size two inches less door width (LDW) on push side of door, and one inch less on pull side of door. For pairs of doors, size one inch less door width (LDW) on push side of door, and 1/2 inch on pull side of door. Kick plates 10 inches high or sized to door bottom rail height. Mop Plates 4 inches high. Armor Plates 36 inches high. Manufacturer shall meet requirements for:
 - 1. Architectural Door Trim: ANSI/BHMA A156.6.

- 2. UL.
- B. Material and Design:
 - 1. .050-inch gage stainless steel.
 - 2. Corners shall be square. Polishing lines or dominant direction of surface pattern shall run across the door width of plate.
 - 3. Bevel top, bottom and sides uniformly leaving no sharp edges. Edges shall be deburred.
 - 4. Countersink holes for screws. Screws holes shall be spaced equidistant eight inches CTC, along a centerline not over 1/2 inch in from edge around plate. End screws shall be a maximum of 0.53 inch from corners.
- C. UL label stamp required on protection plates when top of plate is more than 16 inches above bottom of door on fire rated openings. Verify door manufacturers UL listing for maximum height and width of protection plate to be used.
- D. Acceptable Manufacturer:
 - 1. Ives

2.20 STOPS AND HOLDERS

- A. Wall Stops: Provide door stops wherever necessary to prevent door or hardware from striking an adjacent partition or obstruction. Provide wall stops when possible. Door stops and holders mounted in concrete floor or masonry walls shall have stainless steel machine screws and lead expansion shields. Manufacturer shall meet requirements for Auxiliary Hardware: ANSI/BHMA A156.16.
- B. Acceptable Manufacturer:
 - 1. Ives
- C. Overhead Stops and Holders: Provide overhead stop and holders for doors that open against equipment, casework sidelights and other objects that would make wall stops/holders and floor stops/holders inappropriate. Provide sex bolt attachments for mineral core wood door applications.
- D. Standards: Manufacturer shall be certified by the following: Overhead Stops and Holders: ANSI/BHMA A156.8 Grade 1.
- E. Acceptable Manufacturer:
 - 1. Glynn-Johnson

2.21 ELECTROMAGNETIC HOLDERS

- A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer shall meet requirements for:
 - 1. ANSI 156.15 Grade 1.
 - 2. UL/ULC listed.
 - 3. California State Fire Marshall listed (CSFM).
 - 4. City of New York MEA approved.
- B. Material and Design: Provide electromagnetic holders where self-closing fire doors and smoke barrier doors are required to be held open. Electromagnetic holders to be fail safe, when electrical current is interrupted, doors release to close automatically. Holding force shall be 25-40 lb.
- C. Acceptable Manufacturer:
 - 1. LCN

2.22 PROXIMITY/ PIN READER

- A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty. Provide access up to 650 card users and shall be a HID compatible proximity reader.
Material and Design:
 - 1. Weather resistance two-piece enclosure standalone access control reader.
 - 2. Access mode selectable, proximity card only, proximity card plus pin number, or key in card number only.
 - 3. Keypad programmable does not need software or computer.
 - 4. Keypad lockout and flashing red LED activated when wrong password is entered more than five times.
 - 5. Lock and alarm outputs relays programmable 1-99 seconds or on-off latching.
- B. Options:
 - 1. HID ProxCards II, 25ea. cards 2-679-0021.
 - 2. HID ProxKey II, 10ea key fobs 2-679-0023.
- C. Acceptable Manufacturer:
 - 1. Schlage MT Series

2.23 KEYPADS

- A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty. Standalone digital keypad, control access of single-entry point with up to 500 users. Material and Design:
 - 1. 1 to 6 digit PIN codes with 4 outputs, 2 relays and solid status outputs timed or latching (on/off).
 - 2. LED status: access, lockout.
 - 3. Tactile audible key press with selectable volume.
 - 4. Timed anti-pass back with keypad tamper lockout.
 - 5. Choice of door sense/relay inhibit input functions; Forced Entry/Door prop alarm; Door ajar; Inhibit relay 1 or 2; Auto re-locks when door closes.
 - 6. Choice of 2 solid status output functions: Alarm shunt; Forced entry; Door ajar; Tamper lockout; Keypad active.
- B. Acceptable Manufacturer:
 - 1. Schlage MT Series

2.24 PRESENCE INFARED EGRESS SENSOR

- A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer shall meet requirements for UL 294 infrared egress sensor. Design:
 - 1. Unlocks door automatically when persons approaching door are detected.
 - 2. Code compliant Fail-Safe mode releases locks when power to PRI sensor is interrupted.
 - 3. 2 SPDT dry contacts.
- B. Acceptable Manufacturer:
 - 1. Schlage SCAN II

2.25 POWER SUPPLY (for fail safe or fail secure locking devices)

- A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer shall meet requirements for UL listed power supply
- B. Design:
 - 1. Interface with building alarm controls, card readers, keypads, and other door controls.
 - 2. Filtered and regulated 24 VDC constant voltage; 2 AMP load capacity; Over voltage/short circuit protection; Surge protection for locking devices.
 - 3. Interface relay; Adjustable time delay.

- C. Acceptable Manufacturer:
 - 1. Schlage/Von Duprin PS900 Series

2.26 POWER SUPPLY (for electrified locking devices and automatic door operator)

- A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer shall meet requirements for UL listed power supply. Design:
 - 1. Power and control for openings with electrified locking device and automatic door operator.
 - 2. Filtered and regulated 24 VDC constant voltage; 2 AMP load capacity.
 - 3. Voltage overload/short circuit protection; Surge protection for locking devices.
 - 4. Interface relay; Adjustable time delay.
 - 5. Separate inputs for activation switch on entry and egress and ingress side of opening.
 - 6. Relay contact output to automatic operator.
 - 7. Input optional emergency release switch.
 - 8. Auxiliary 24 VDC output and separate 24VDC outputs for Fail SAFE and FAIL SECURE electrified locking devices.
- B. Acceptable Manufacturer:
 - 1. Schlage/Von Duprin PS900 Series

2.27 DOOR GASKETING AND WEATHERSTRIP

- A. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing where indicated on hardware schedule. Provide non-corrosive fasteners for exterior applications.
 - 1. Perimeter gasketing: Apply to head and jamb, forming seal between door and frame.
 - 2. Meeting stile gasketing: Fasten to meeting stiles, forming seal when doors are in closed position.
 - 3. Door bottoms: Apply to bottom of door, forming seal with threshold or floor when door is in closed position.
 - 4. Sound Gasketing: Cutting or notching for stop mounted hardware not permitted.
 - 5. Drip Guard: Apply to exterior face of frame header. Lip length to extend 4 inches beyond width of door.
- B. Standards: Manufacturer shall meet requirements for:
 - 1. Door Gasketing and Edge Seal Systems: ANSI/BHMA A156.22.
 - 2. Shall be BHMA certified for door sweeps, automatic door bottoms, and adhesive applied gasketing. (721).
- C. Smoke-Labeled Gasketing: Comply with NFPA 105 listed, labeled, and acceptable to authorities having jurisdiction, for smoke control indicated. Provide smoke labeled gasketing on 20-minute rated doors and on smoke rated doors.
- D. Fire-Rated Gasketing: Comply with NFPA 80 listed, labeled, and acceptable to Authorities Having Jurisdiction, for fire ratings indicated.
- E. Refer to Wood Doors specification for Category A or Category B. Comply with UBC 7-2 and UL10C positive pressure where frame applied intumescent seals are required. Provide Hager # 720 for single and 720 by 724 for a pair of doors.
- F. Acceptable Manufacturer (Seals, Door Sweeps, Automatic Door Bottoms and Gasketing):
 - 1. Zero International

2.28 THRESHOLDS

- A. Set thresholds for exterior and acoustical openings in full bed of sealant with lead expansion shields and stainless-steel machine screws complying with requirements specified in

Division 7 Section "Joint Sealants". Notched in field to fit frame by hardware installer. Refer to Drawings for special details. Manufacturer to be certified by the following:

1. Thresholds: ANSI/BHMA A156.21.
2. Americans with Disabilities Act Accessibility Guidelines (ADAAG).

B. Acceptable Manufacturer:

1. Zero International

2.29 SILENCERS

A. Where smoke, light, or weather seal are not required, provide three silencers per single door frame, two per double door frame and four per Dutch door frame. Manufacturer shall meet requirements for: Auxiliary Hardware: ANSI/BHMA A156.16.

B. Acceptable Manufacturer:

1. Ives

2.30 KEY CABINET

A. Provide key cabinet, surface mounted to wall. Key control system: Include two sets of key tags, hooks, labels, and envelopes. Contain system in metal cabinet with baked enamel finish. Capacity shall be able to hold actual quantities of keys, plus 25 percent. Provide tools, instruction sheets and accessories required to complete installation.

B. Acceptable Manufacturer:

1. Lund Equipment.
2. Telkey Incorporated.
3. HPC

2.31 FINGER GUARDS

A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer to be UL listed for use on fire doors rated up to 3 hours for metal door and 1 hour for wood doors.

B. Materials and Design: Provide aluminum tube with internal spring mechanism that maintains constant tension against the fabric that prevents fingers from entering area behind edge of door on hinge side.

C. Finishes: Available in clear anodized aluminum with white polyethylene material or dark bronze anodized aluminum with black polyethylene material.

D. Acceptable Manufacturer:

1. National Guard: 2248 push side mount, 2252 pull side mount or approved equal.

2.32 DOOR POSITION SWITCHES

A. Manufacturers:

1. Acceptable Manufacturer:
 - a. Schlage

B. Requirements:

1. Provide recessed or surface mounted type door position switches as specified.
2. Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches (102 mm) between switch and magnetic locking device.

2.33 FINISHES

- A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if within range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within range of approved Samples.
- B. Comply with base material and finish requirements indicated by ANSI/BHMA A156.18 designations in hardware schedule.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. 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. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install hardware per manufacturer's instructions and in compliance with the following as applicable:
 1. NFPA 80; NFPA 105; ICC/ANSI A117.1; ANSI/BHMA A156.115 Hardware Preparation in Steel Doors and Steel Frames; ANSI/BHMA A156.115W Hardware Preparation in Wood Doors with Wood or Steel Frames; DHI Publication - Installation Guide for Doors and Hardware; UL10C/UBC7-2; Local building code.
 2. Approved shop drawings.
 3. Approved finish hardware schedule.
- B. Do not install surface mounted items until finishes have been completed on substrates involved. Set unit level, plumb and true to line location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

3.3 FIELD QUALITY CONTROL

- A. Material supplier to schedule final walk through to inspect hardware installation ten business days before final acceptance of Owner. Material supplier shall provide a written report detailing discrepancies of each opening to General Contractor within seven calendar days of walk through.

3.4 ADJUSTMENT, CLEANING AND DEMONSTRATING

- A. Adjustment: Adjust and check each opening to ensure proper operation of each item of finish hardware. Replace items that cannot be adjusted to operate freely and smoothly or as intended for application at no cost to Owner.
- B. Cleaning: Clean adjacent surfaces soiled by hardware installation. Clean finished hardware per manufacturer's instructions after final adjustments has been made. Replace items that cannot be cleaned to manufacturer's level of finish quality at no cost to Owner.
- C. Demonstration: Conduct a training class for building maintenance personnel demonstrating the adjustment, operation of mechanical and electrical hardware. Special tools for finished hardware to be turned over and explained usage at this meeting.

3.5 PROTECTION

- A. Leave manufacturer's protective film intact and provide proper protection for all other finish hardware items that do not have protective material from the manufacture until Owner accepts Project as complete.

3.6 HARDWARE SET SCHEDULE

- A. Leave manufacturer's protective film intact and provide proper protection for all other finish hardware items that do not have protective material from the manufacture until Owner accepts Project as complete.

3.7 PROTECTION

- A. Guide: Door hardware items have been placed in sets which are intended to be a guide of design, grade, quality, function, operation, performance, exposure, and like characteristics of door hardware, and may not be complete. Provide door hardware required to make each set complete and operational.
- B. Hardware schedule does not reflect handing, backset, method of fastening and like characteristics of door hardware and door operation.
- C. Review door hardware sets with door types, frames, sizes, and details on drawings. Verify suitability and adaptability of items specified in relation to details and surrounding conditions.

3.8 DOOR HARDWARE SCHEDULE

- A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.
- B. Discrepancies, conflicting hardware, and missing items are to 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.
- C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.
- D. Hardware Sets:

Hardware Group No. 103

Doors: 101B, 102, 103 and 107

<u>QTY</u>		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINISH</u>	<u>MFR</u>
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050L 17N	626	SCH
1	EA	MORTISE CYLINDER	1E74 X CAM AS REQ	626	BES
1	EA	SFIC CONST. CORE	C607CCA	622	FAL
1	EA	PERMANENT CORE	IC7	626	BES
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	COAT AND HAT HOOK	508C	626	IVE
			REMOVE COAT & HAT HOOK WHERE NECESSARY		
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 210C1S

Doors: 101C

<u>QTY</u>		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINISH</u>	<u>MFR</u>
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ)	652	IVE
1	EA	CONST LATCHING BOLT	FB51P (ROD LENGTH AS REQ - C/L AT 72" AFF)	630	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	L9080L 17N	626	SCH
1	EA	MORTISE CYLINDER	1E74 X CAM AS REQ	626	BES
1	EA	SFIC CONST. CORE	C607CCA	622	FAL
1	EA	PERMANENT CORE	IC7	626	BES
1	EA	SURFACE OH STOP	900S SERIES X SIZE & MOUNTING AS REQ	630	GLY
1	EA	SURFACE CLOSER	4040XP SCUSH X TBSRT X MTG BRKT, SPCR & PLATE AS REQ	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER
1	SET	MEETING STILE	8193AA (2 PCS - 1 SET) HEIGHT AS REQUIRED	AA	ZER

Hardware Group No. 341

Doors: 102A

<u>QTY</u>		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINISH</u>	<u>MFR</u>
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	L9040 17N L583-363 L283-722	626	SCH
1	EA	SURFACE CLOSER	4040XP RW/PA X TBSRT X MTG BRKTS, PLATES AND SPACERS AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488S PSA H & J	BK	ZER

Hardware Group No. 503

Doors: 102B

<u>QTY</u>		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINISH</u>	<u>MFR</u>
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070L 17N	626	SCH
1	EA	MORTISE CYLINDER	1E74 X CAM AS REQ	626	BES
1	EA	SFIC CONST. CORE	C607CCA	622	FAL
1	EA	PERMANENT CORE	IC7	626	BES
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. C201T

Doors: 101E and 102C

<u>QTY</u>		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINISH</u>	<u>MFR</u>
4	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ) (REMOVE 1 HINGE PER LEAF AT DOORS UNDER 7'6")	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EU MORTISE LOCK	L9092LEU 17N RX (FAIL SECURE)	626	SCH
1	EA	MORTISE CYLINDER	1E74 X CAM AS REQ	626	BES
1	EA	SFIC CONST. CORE	C607CCA	622	FAL
1	EA	PERMANENT CORE	IC7	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA X TBSRT X MTG BRKTS, PLATES AND SPACERS AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		SCH
1	EA	HARNESS (TO POWER SUPPLY)	CON-6W		SCH
1	EA	MULTITECH READER	MT SERIES READER BY DIV 28 (COORDINATE WITH SECURITY CONTRACTOR PRIOR TO SUBMITTALS)	BLK	SCE
1	EA	DOOR CONTACT	679-05 TYPE AS REQ (COORDINATE FINAL LOCATIONS WITH SECURITY PRIOR TO SUBMITTAL)	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 900-BBK 900-2RS (COORDINATE POWER SUPPLIES WITH SECURITY PRIOR TO SUBMITTAL. OMIT WHERE PROVIDED BY SECURITY.)	LGR	SCE

-INGRESS BY THE CARD READER OR KEY OVERRIDE.
 -EGRESS BY THE LEVER.
 -REQUEST TO EXIT SWITCH IS FOR USE BY ACCESS CONTROL CONTRACTOR.
 -COORDINATE POWER SUPPLIES WITH SECURITY PRIOR TO SUBMITTAL. OMIT WHERE
 PROVIDED BY SECURITY.

Hardware Group No. C710ACM

Doors: 100B

<u>QTY</u>		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINISH</u>	<u>MFR</u>
2	EA	CONT. HINGE	112XY EPT HEIGHT AS REQ	628	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	KEYED REMOVABLE MULLION	KR4954 STAB HEIGHT AS REQ	689	VON
1	EA	ELEC PANIC HARDWARE	LD-RX-XP99-EO LENGTH AS REQ	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-XP99-NL-OP-CON LENGTH AS REQ	626	VON
1	EA	RIM CYLINDER	1E72	626	BES
1	EA	MORTISE CYLINDER	1E74 X CAM AS REQ	626	BES
2	EA	SFIC CONST. CORE	C607CCA	622	FAL
2	EA	PERMANENT CORE	IC7	626	BES
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	SURFACE CLOSER	4040XP SCUSH X TBSRT X MTG BRKT, SPCR & PLATE AS REQ	689	LCN
1	SET	SEAL	PERIMETER SEAL BY FRAME MANUFACTURER		
1	SET	ASTRAGAL	MEETING STILE SEAL BY DOOR MANUFACTURER		
2	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		SCH
2	EA	HARNESS (TO POWER SUPPLY)	CON-6W		SCH
1	EA	MULTITECH READER	MT SERIES READER BY DIV 28 (COORDINATE WITH SECURITY CONTRACTOR PRIOR TO SUBMITTALS)	BLK	SCE
2	EA	DOOR CONTACT	679-05 TYPE AS REQ (COORDINATE FINAL LOCATIONS WITH SECURITY PRIOR TO SUBMITTAL)	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 900-2RS 900-BBK (COORDINATE POWER SUPPLIES WITH SECURITY PRIOR TO SUBMITTAL. OMIT WHERE PROVIDED BY SECURITY.)		VON

-INGRESS BY THE CARD READER OR KEY OVERRIDE.
 -EGRESS BY THE PUSH PADS.
 -COORDINATE POWER SUPPLIES WITH SECURITY PRIOR TO SUBMITTAL. OMIT WHERE PROVIDED BY SECURITY.

Hardware Group No. CR201TL

Doors: 101D

<u>QTY</u>		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINISH</u>	<u>MFR</u>
4	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ) (REMOVE 1 HINGE PER LEAF AT DOORS UNDER 7'6")	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EU MORTISE LOCK	L9092LEU 17N RX (FAIL SECURE)	626	SCH
1	EA	CLASSROOM DEADBOLT	B663BD	626AM	SCH
1	EA	MORTISE CYLINDER	1E74 X CAM AS REQ	626	BES
2	EA	SFIC CONST. CORE	C607CCA	622	FAL
1	EA	PERMANENT CORE	IC7	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA X TBSRT X MTG BRKTS, PLATES AND SPACERS AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488S PSA H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		SCH
1	EA	HARNESS (TO POWER SUPPLY)	CON-6W		SCH
1	EA	MULTITECH READER	MT SERIES READER BY DIV 28 (COORDINATE WITH SECURITY CONTRACTOR PRIOR TO SUBMITTALS)	BLK	SCE
1	EA	DESK MOUNT BUTTON	660-PB	628	SCE
1	EA	DOOR CONTACT	679-05 TYPE AS REQ (COORDINATE FINAL LOCATIONS WITH SECURITY PRIOR TO SUBMITTAL)	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 900-BBK 900-2RS (COORDINATE POWER SUPPLIES WITH SECURITY PRIOR TO SUBMITTAL. OMIT WHERE PROVIDED BY SECURITY.)	LGR	SCE

- INGRESS BY THE CARD READER, REMOTE RELEASE, OR KEY OVERRIDE.
- EGRESS BY THE LEVER.
- COORDINATE POWER SUPPLIES WITH SECURITY PRIOR TO SUBMITTAL. OMIT WHERE PROVIDED BY SECURITY.
- CLASSROOM DEADBOLT TO LOCKDOWN RECEPTION ROOM AFTER HOURS.

Hardware Group No. CR714AM

Doors: 100A

<u>QTY</u>		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINISH</u>	<u>MFR</u>
2	EA	CONT. HINGE	112XY EPT HEIGHT AS REQ	628	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	KEYED REMOVABLE MULLION	KR4954 STAB HEIGHT AS REQ	689	VON
1	EA	ELEC PANIC HARDWARE	LD-RX-XP99-EO LENGTH AS REQ	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-XP99-NL-OP-CON LENGTH AS REQ	626	VON
1	EA	DOOR PULL	VR910 DT	630	IVE
1	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	SURFACE CLOSER	4040XP SCUSH X TBSRT X MTG BRKT, SPCR & PLATE AS REQ	689	LCN
1	SET	SEAL	PERIMETER SEAL BY FRAME MANUFACTURER		
1	SET	ASTRAGAL	MEETING STILE SEAL BY DOOR MANUFACTURER		
2	EA	DOOR SWEEP	8198AA LENGTH AS REQ	AA	ZER
1	EA	THRESHOLD	65A LENGTH AS REQ	A	ZER
2	EA	HARNES (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		SCH
2	EA	HARNES (TO POWER SUPPLY)	CON-6W		SCH
1	EA	MULTITECH READER	MT SERIES READER BY DIV 28 (COORDINATE WITH SECURITY CONTRACTOR PRIOR TO SUBMITTALS)	BLK	SCE
2	EA	DOOR CONTACT	679-05 TYPE AS REQ (COORDINATE FINAL LOCATIONS WITH SECURITY PRIOR TO SUBMITTAL)	WHT	SCE
1	EA	Intercom	PROVIDED BY DIV 28 (COORDINATE WITH SECURITY CONTRACTOR PRIOR TO SUBMITTALS)		B/O
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 900-2RS 900-BBK (COORDINATE POWER SUPPLIES WITH SECURITY PRIOR TO SUBMITTAL. OMIT WHERE PROVIDED BY SECURITY.)		VON

-INGRESS BY CREDENTIAL READER, REMOTE RELEASE INTERCOM OR KEY OVERRIDE.
 -EGRESS BY THE PUSH PADS.
 -COORDINATE POWER SUPPLIES WITH SECURITY PRIOR TO SUBMITTAL. OMIT WHERE PROVIDED BY SECURITY.

Hardware Group No. R201AC

Doors: 101A

<u>QTY</u>		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINISH</u>	<u>MFR</u>
1	EA	CONT. HINGE	112XY EPT HEIGHT AS REQ	628	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EU MORTISE LOCK	L9092LEU 17N RX (FAIL SECURE)	626	SCH
1	EA	MORTISE CYLINDER	1E74 X CAM AS REQ	626	BES
1	EA	SFIC CONST. CORE	C607CCA	622	FAL
1	EA	PERMANENT CORE	IC7	626	BES
1	EA	SURFACE CLOSER	4040XP SCUSH X TBSRT X MTG BRKT, SPCR & PLATE AS REQ	689	LCN
1	SET	SEAL	PERIMETER SEAL BY FRAME MANUFACTURER		
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		SCH
1	EA	HARNESS (TO POWER SUPPLY)	CON-6W		SCH
1	EA	DESK MOUNT BUTTON	660-PB	628	SCE
1	EA	DOOR CONTACT	679-05 TYPE AS REQ (COORDINATE FINAL LOCATIONS WITH SECURITY PRIOR TO SUBMITTAL)	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 900-BBK 900-2RS (COORDINATE POWER SUPPLIES WITH SECURITY PRIOR TO SUBMITTAL. OMIT WHERE PROVIDED BY SECURITY.)	LGR	SCE

- INGRESS BY REMOTE RELEASE OR KEY OVERRIDE.
- EGRESS BY THE LEVER.
- REQUEST TO EXIT SWITCH IS FOR USE BY ACCESS CONTROL CONTRACTOR.
- COORDINATE POWER SUPPLIES WITH SECURITY PRIOR TO SUBMITTAL. OMIT WHERE PROVIDED BY SECURITY.

END OF SECTION

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