SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

A. Related Requirements:
1. Section 081113 "Hollow Metal Doors and Frames".
2. Section 081216 "Aluminum Doors and Frames"
3. Section 08412.23 “Interior All Glass Entrances”
4. Section 081416 "Flush Wood Doors".
5. Section 281000 "Access Control" for coordination of access control system components.
6. Section 281400 "Access Control System Hardware" for access control system units, power, battery chargers, and computer equipment.

1.2 COORDINATION

A. 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.

B. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

C. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

D. 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.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Conference participants must include Installer's Architectural Hardware Consultant and Owner's security consultant.

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1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: For electrified door hardware.

1. Include diagrams for power, signal, and control wiring.
2. Include details of interface of electrified door hardware and building safety and security systems.

C. Door Hardware Schedule: Prepared by or under the supervision of Installer's Architectural Hardware Consultant. Coordinate door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Submittal Sequence: Submit door hardware schedule after or concurrent with submissions of product data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate the fabrication of other work that is critical in Project construction schedule.
2. Format: Use same scheduling sequence and format and use same door numbers as in door hardware schedule in the Contract Documents.
3. Content: Include the following information:

a. Identification number, location, hand, fire rating, size, and material of each door and frame.
b. Locations of each door hardware set, cross-referenced to Drawings on floor plans and to door and frame schedule.
c. Complete designations, including name and manufacturer, type, style, function, size, quantity, function, and finish of each door hardware product.
d. Description of electrified door hardware sequences of operation and interfaces with other building control systems.
e. Fastenings and other installation information.
f. Explanation of abbreviations, symbols, and designations contained in door hardware schedule.
g. Mounting locations for door hardware.
h. List of related door devices specified in other Sections for each door and frame.

D. Keying Schedule: Keying and final cores to be provided by Owner / PSU Lockshop personnel.

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1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and Architectural Hardware Consultant.

B. Product Certificates: For each type of electrified door hardware.

1. Certify that door hardware for use on each type and size of labeled fire-rated doors complies with listed fire-rated door assemblies.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of door hardware to include in maintenance manuals.

B. Schedules: Final door hardware schedule - may be as a part of the final door & hardware submittals.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers and of an Architectural Hardware Consultant who is available during the course of the Work to consult Contractor, Architect, and Owner about door hardware and keying.

1. Warehousing Facilities: In Project's vicinity.
2. Scheduling Responsibility: Preparation of door hardware schedule.

B. Architectural Hardware Consultant Qualifications: A person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and who is currently certified by DHI as a Door and Hardware Specification Consultant (DHSC) or similar certification.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lockup for door hardware delivered to Project site.

B. Tag each item or package separately with identification coordinated with the final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.

1.9 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.

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1. Failures include, but are not limited to, the following:

    a. Structural failures, including excessive deflection, cracking, or breakage.
    b. Faulty operation of doors and door hardware.
    c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.

2. Warranty Period: Three years from date of Substantial Completion unless otherwise indicated below:

    a. Electromagnetic and Delayed-Egress Locks: Three years from date of Substantial Completion.

    b. Manual Closers: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain each type of door hardware from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

B. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the USDOJ's "2010 ADA Standards for Accessible Design".

1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than **5 lbf**.
2. Comply with the following maximum opening-force requirements:

    a. Interior, Non-Fire-Rated Hinged Doors: **5 lbf** applied perpendicular to door.

3. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than **1/2 inch** high.
4. Adjust door closer sweep periods so that, from an open position of 90 degrees, the door will take at least 5 seconds to move to a position of 12 degrees from the latch.

2.3 FABRICATION

A. Manufacturer's Nameplate: Do not provide products that have manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rating

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labels and as otherwise approved by Architect.

1. Manufacturer's identification is permitted on rim of lock cylinders only.

B. Base Metals: Produce door hardware units of base metal indicated, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and ANSI/BHMA A156.18.

C. Products: *Note that Schlage & Von Duprin hardware are the PSU Standard for cylinder levers and push bar exit devices, and is specified without substitutes in order to work with existing keying & hardware maintenance protocols on campus. Other hardware may be substituted with equal or better products as approved by PSU PM or Architect during submittals.*

D. Fasteners: Provide door hardware manufactured to comply with published templates prepared for machine, wood, and sheet metal screws. Provide screws that comply with commercially recognized industry standards for application intended; however, aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware unless otherwise indicated.

1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.

2. General Applications:

    a. Wood or Machine Screws: For the following:

        1) Hinges mortised to doors or frames.
        2) Strike plates to frames.
        3) Closers to doors and frames.

    b. Steel Through Bolts: For the following unless door blocking is provided:

        1) Surface hinges to doors.
        2) Closers to doors and frames.
        3) Surface-mounted exit devices.

3. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
4. Gasketing Fasteners: Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

E. Door Hardware Products:

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Hinge (A)

- Hinges/Butts: **Stanley** FBB179 Steel, 4.5” x 4.5” Standard Weight ball bearing, 5 knuckle with NRP non-removable pins, approved for use on rated doors. Finish: Satin Chrome plated 652 on steel (US32D).
    - Other Mfr: **Ives**, 5BB1 Steel, 4.5” x 4.5” for Medium Weight doors, full ball bearing hinge, NRP; Finish: Satin Chrome plated 652 on Steel (US26D).

Hinge (B)

- Hinges/Butts: **Stanley** FBB199 Brass or Bronze, 4.5” x 4.5” Heavy Weight ball bearing, for use on doors with closers and larger doors.
    - Other Mfr: **Ives**, 5BB1HW, Finish: US26D – Satin chrome (626) on brass.

Lever Locksets

- Schlage Cylinder Locksets: ND Series
    - **ND Series** Gade 1 Cylindrical locks
    - Lever Style: (TBD)
    - Finish: 626
    - Keyway: FSIC, “-JD” Less core. To be provided by PSU Lockshop.
    - Functions:
        - Entrance/Office Lock: ND50 Push button privacy. [Clinics, Viewing]
        - Classroom Lock: ND70 [Classroom, Viewing]
        - Entrance Lock: ND53 (Push/turn button inside, cylinder outside) [Offices]
        - Storage: ND80 or ND 81 Accessible storeroom lock [Stor, Secure, Student Viewing Rm]
        - Passage: ND10S Always unlocked [Study, Video, Sm Conf, Breakroom]
        - Classroom Lock, Vandlgard: ND94, Vandlgard [Labs, Testing, Eye Track]
        - Corridors:
    - Strike: ANSI Strike (10-025) curved lip
    - Keyway: For FSIC – Primus Core, 20-740 – Permanent core to be supplied by PSU Lock Shop. No temp. or construction core required.
    - Backset: 2-3/4” standard

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- Schlage Mortised Locksets: Schlage LV9056
    - Lock Series: LV – Lever, VandIgard
    - Function: Privacy w/ Occupied Indicators.
    - For use with FSIC cylinder core. Less FSIC Core “-J” (FSIC cores by owner.)
    - Lever Style: (TBD 06 or 07)
    - Finish: 630 - Satin Stainless Steel
    - Escutcheon: -N, Full Face plate. Thumbturn inside, Key Cylinder outside.
    - Thumbturn: Large ADA Thumbturn “-09-509 x L583-363
    - Indicators: Inside Trim “Locked” Outside Trim (IS-LOC) “Occupied” (OS-OCC)
    - Special Safety Option: XL13-439

Electric Strike:

- VonDuprin Electric Strike Model: 5100, Medium Duty Electric Strike or similar for future use on metal door frames. Provide standard faceplate to cover opening in frame.

Closer:

- Surface Mounted for Wood and Metal Doors: LCN 4040XP – DEL– 3077SCNS. Surface mounted, standard plastic cover, delayed action cylinder, Spring Cush-n-Stop Arm (SCUSH) backstop spring on arm, non-handed, wood & machine screws (WMS). Extra accessories as needed, indicate in submittals. Color: 689 “Aluminum” to be confirmed in submittals.

- Concealed Manual Closer at Glass Doors: See Section 087813 “All Glass Entrance Hardware”

- ADA Concealed Overhead Door Operator for Glass Doors: See Section 087813 “All Glass Entrance Hardware”

- Concealed Closer in Aluminum Frame: LCN 2030 Series Pacer overhead concealed closer, heavy duty closer with fixed “Spring Size 1” OR adjustable between 1-5, to meet ADA door opening / closing forces. Provide back check bumper “-3038B” option. Handed, confirm with door swing. Color: Aluminum. Concealed mount in hollow aluminum door head frame. Confirm with aluminum frame manufacturer and wood hinged door for full compatibility and mounting instructions.

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Wall Stop:
- Wall mounted door stop & bumper: Ives, 406/407 CVX (Convex rubber bumper).
- Bumper Color: Light Gray
- Finish: 626 (US26D) - Satin Chrome (Brass base material).

Kick Plates:
- Rockwood K1050, brushed stainless steel 0.050", 10" high x 2" less than door width. CS Countersink mounting holes. Assa Abloy Architectural Door Accessories, or approved equal.
    - Alt: Ives 8400 10 x 34 B-CS 630 Ives.

Door Soft Gaskets: Frame mounted door gaskets 3 sides.
- Pemko: S773_ Triple fin design, fire/smoke sound seal, silicone perimeter adhesive gasketing.
- Color: -GR Gray, to be confirmed in submittals.
- Alternate Material: S88C, Bulb gasket. For larger gaps between door & frame.

Door Frame Gasket: Perimeter, frame mounted, 3-sides with seal to compress against door face.
- Pemko: 312_R Aluminum, screw attached.
- Finish: C – Clear Anodized Aluminum
- Gasket: EPDM Foam sponge (-R), Color: BL (Black)
- Replacement Insert: ER9BL (Black)

Automatic Door Bottom Gasket: Door face-mounted drop-down door bottom seal.
- Pemko: STC4131_PK
- Finish: C – Clear Anodized Aluminum
- End Plate Kit: K4133C

Threshold: Aluminum threshold to work with drop down door bottom seal.
- Pemko: 151 Series Flat saddle threshold 3" wide, aluminum or brass base material, smooth symmetrical shape. Fully accessible for wheelchairs, smooth to work with automatic door bottoms.
- Finish: A or D, confirm color in submittals.

Door Silencers:
- Add (3) silencers on metal frames where not equipped with gaskets. Ives, SR64, Grey.
- Prepared with holes by frame manufacturer when specified only.

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2.4 FINISHES

A. Provide finishes complying with ANSI/BHMA A156.18 as indicated in door hardware schedule.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the 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 the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, wall and floor construction, and other conditions affecting performance of the Work.

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 PREPARATION

A. Steel Doors and Frames: For surface-applied door hardware, drill and tap doors and frames in accordance with ANSI/SDI A250.6.

B. Wood Doors: Comply with door and hardware manufacturers' written instructions.

3.3 INSTALLATION OF DOOR HARDWARE

A. Mounting Heights: Mount door hardware units at heights to comply with the following unless otherwise indicated or required to comply with governing regulations.

B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work. Do not install surface-mounted items until finishes have been completed on substrates involved.

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1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

C. Notify Owner when keying is ready and for Owner's installation of keys.

D. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings. Verify location with Architect.

1. Configuration: Provide least number of power supplies required to adequately serve doors with electrified door hardware.

E. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

1. Do not notch perimeter gasketing to install other surface-applied hardware.

F. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed, coordinate installation of thresholds with door bottom for best acoustical isolation.

3.4 ADJUSTING

A. Acoustical Gasketing Test: After installation, conduct preliminary seal adjustment by ensuring all seals contact the door and no light passes at any edge of the door. As a final test, verify seal with a test card. The card shall remain in place when inserted between the door and seal and not slide easily when the card is slid along the seal. Where this is not satisfied, adjust the seals.

B. 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.

C. Occupancy Adjustment: Approximately three months after date of Substantial Completion, Installer's Architectural Hardware Consultant is to 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.

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B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.6 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

3.7 DOOR HARDWARE SCHEDULE

Hardware Set 1: **HW-1** (Entry/office ND50)
Rooms: Small Viewing, Clinic Rooms: 410 411 412 413 414 416 417 418 419 420 421 422 423

Description: Cylinder Levers for new wood doors & metal frames.

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
3-EA	Hinge-A	FBB179 4.5 x4.5	652	Stanley
1-EA	Cylinder Levers	ND50JD	626	Schlage
1-EA	Core	FSIC by Owner	626	Schlage
1-EA	Wall Stop	406/407 CVX	626	IVES
1-EA	Auto Door Bottom	STC4131CPK	C	Pemko
1-EA	Threshold	151_	TBD	Pemko
1-Set	Door Soft Gaskets	S773GR	GR	Pemko
1-Set	Door Jamb Gaskets	312CR	C	Pemko

Hardware Set 2: **HW-2** (Classroom ND70)
Rooms: Classrooms, Group Room: 409 465 466

Description: Cylinder Levers for new wood doors & metal frames.

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
3-EA	Hinge-B	FBB199 4.5 x4.5	626	Stanley
1-EA	Cylinder Levers	ND70JD	626	Schlage
1-EA	Core	FSIC by Owner	626	Schlage
1-EA	Closer	4040XP-3077SCNS	689	LCN
1-Set	Door Soft Gaskets	S773GR	GR	Pemko
1-Set	Door Jamb Gaskets	312CR	C	Pemko

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Hardware Set 3: **HW-3** (Entrance Lock: ND53)
Rooms: Offices: 426 431 434 435 436 437 439 441 443 445 447 448 449 450 451 452 453 454

Description: Cylinder Levers for new wood doors & metal frames.

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
3-EA	Hinge-B	FBB179 4.5 x4.5	652	Stanley
1-EA	Cylinder Levers	ND53JD	626	Schlage
1-EA	Core	FSIC by Owner	626	Schlage
1-EA	Wall Stop	406/407 CVX	626	Ives
1-Set	Door Soft Gaskets	S773GR	GR	Pemko
1-Set	Door Jamb Gaskets	312CR	C	Pemko

Hardware Set 4: **HW-4** (Storage, always locked Function ND80/81)

Rooms: Student Secure Prep, Student Viewing, Stor: 463 467 468

Description: Cylinder Levers for new wood doors & metal frames.

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
3-EA	Hinge-A	FBB199 4.5 x4.5	652	Stanley
1-EA	Cylinder Levers	ND80JD	626	Schlage
1-EA	Core	FSIC by Owner	626	Schlage
1-EA	Closer	4040XP-3077SCNS	689	LCN

Hardware Set 5: **HW-5** (Passage, always Unlocked Function ND10S)
Rooms: Study, Break Room, Conf Room: 455A 455B 461

Description: Cylinder Levers for new wood doors & metal frames. With Closer.

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
3-EA	Hinge-A	FBB179 4.5 x4.5	652	Stanley
1-EA	Cylinder Levers	ND10S	626	Schlage
1-EA	Core	FSIC by Owner	626	Schlage
1-EA	Closer	4040XP-3077SCNS	689	LCN

Hardware Set 6: **HW-6** (Passage, always Unlocked Function ND10S)
Rooms: Study, Break Room, Conf Room: 431A 433 438

Description: Cylinder Levers for new wood doors & metal frames. Without Closer.

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
3-EA	Hinge-A	FBB179 4.5 x4.5	652	Stanley
1-EA	Cylinder Levers	ND10S	626	Schlage
1-EA	Core	FSIC by Owner	626	Schlage
1-EA	Wall Stop	406/407 CVX	626	Ives

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Hardware Set 7: **HW-7** (Classroom Vandlgard Function ND94)
Rooms: Audio, Labs, Testing, Eye Tracker: 424 430 430A 430B 432 440 442 444 446 456

Description: Cylinder Levers for new wood doors & metal frames.

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
3-EA	Hinge-B	FBB199 4.5 x4.5	652	Stanley
1-EA	Cylinder Levers	ND94JD	626	Schlage
1-EA	Core	FSIC by Owner	626	Schlage
1-EA	Wall Stop	406/407 CVX	626	IVES
1-EA	Auto Door Bottom	STC4131CPK	C	Pemko
1-EA	Threshold	151_	TBD	Pemko
1-Set	Door Soft Gaskets	S773GR	GR	Pemko
1-Set	Door Jamb Gaskets	312CR	C	Pemko

Hardware Set 8: **HW-8** (Restrooms, Mortised Locksets with Occ. Indicators LV9056, Vandlgard)
Rooms: All-User Restrooms: 457 458

Description: Mortised Lever Locksets for new wood doors & metal frames.

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
3-EA	Hinge-B	FBB199 4.5 x4.5	652	Stanley
1-EA	Mortise Lockset*	LV9056-N	630	Schlage
	w/ ADA Thumbturn*	-09-509 x L583-363	630	Schlage
1-EA	Core	FSIC by Owner	626	Schlage
1-EA	Closer	4040XP-3077SCNS	689	LCN
1-Set	Door Soft Gaskets	S773GR	GR	Pemko

* With other mortise lockset features as noted in description.

Hardware Set 9: **HW-9** (Exist Mortised lockset)
Existing All User Restroom: 405

Description: Replace damaged levers, parts only, on existing Schlage mortise lockset.

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
2-EA	Levers in Style TBD to match ND Style		626	Schlage

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Hardware Set 10: **HW-10** (Vandlgard Entrance Lock ND92)
Corridor Doors: C411-1 C410-1 C415-1 427-1

**Prep frames for future card reader access.

Description: Cylinder Levers for new wood or metal doors & metal frames.

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
3-EA	Hinge-B	FBB199 4.5 x4.5	652	Stanley
1-EA	Cylinder Levers	ND92JD	626	Schlage
1-EA	Core	FSIC by Owner	626	Schlage
1-EA	Electric Strike**	5100	689	VonDuprin
1-EA	Strike Plate	To cover future elect strike opening		
1-EA	Closer	4040XP-3077SCNS	689	LCN
1-Set	Door Soft Gaskets	S773GR	GR	Pemko

Hardware Set 11: **HW-11**
All Glass Entry Door in Elevator Lobby: **L400-1**

Description: Glass door to Clinic Reception

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
1-EA	Pivots	CRL 8010HDP	628	CRL
1-EA	Ladder Pulls	RM4020	As Noted	Rockwood
1-EA	ADA Power Door Oper.	2010 iQ	Alum	LCN
2-EA	Door Actuator Buttons	8310-810DA	SS	LCN
1-EA	Magnetic Lock	GF3000 TJ or BRD	(TBD)	Schlage
	Card Reader / Connection	per Elect.		

Hardware Set 12: **HW-12**
Entry Doors from Elevator Lobby: L400-2

Description: Glass door to Academic Area

QTY	DESCRIPTION	CAT. NUMBER	FINISH	MFR
1-EA	Pivots	CRL 8010HDP	628	CRL
1-EA	Ladder Pulls	RM4020	As Noted	Rockwood
1-EA	Concealed Door Closer	2032-3038B	Alum	LCN
1-EA	Magnetic Lock	GF3000 TRD	(TBD)	Schlage
	Card Reader / Connection	per Elect.		

END OF SECTION 087100

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