

Omaha Public Schools Department of District Operational Services Purchasing Division

BID No.: 25-022 Date: May 16, 2025

Addendum No. 01 to Bid Documents for OPS Lewis and Clark Middle School ACP Suite Improvements Project

The purpose of this Addendum No. 01 is to modify bid 25-022, OPS Lewis and Clark Middle School ACP Suite Improvements Project Except as specifically modified by this Addendum No. 01, the Bid Documents shall remain in effect as originally issued.

The Bid Documents are hereby amended as follows:

- 1. Bid invitation is hereby modified as follows: Substantial completion date changed to September 1, 2025.
 - Replace bid invitation cover and page 3 with attached cover and page 3.
- 2. Drywall, flooring and acoustic tile ceiling removal: Incorporate Addendum 01 Sketch 01 which shows extent of drywall, ceiling and flooring removal that will be performed by others prior to June 03, 2025.
- 3. Drawings and Specifications: Incorporate drawings and specifications per Leo A Daly project No. 003-10201-014 ADD No. 01 dated 5/15/2025.
- 4. Plumbing modification not shown on drawings: Vent and clean out size at PP14 sheet PP 401 to be 4" diameter and reduce to 2" above clean out.

IMPORTANT: Applicants should acknowledge the receipt of this Addendum No. 01 by a notation in the Bid submitted by the Bidder in the manner as required by the Bid Documents.

Bid Invitation Bid No. 25-022

TO BE CONSIDERED, BIDS MUST BE RECEIVED PRIOR TO THE DEADLINE LATE BIDS WILL NOT BE ACCEPTED

The Board of Education for Douglas County School District 0001 (Omaha Public Schools) invites bids for:

OPS Lewis & Clark Middle School ACP Suite Improvements Project

RETURN TO:

Omaha Public Schools District Operational Services 3215 Cuming St., Omaha, Nebraska 68131

Bid Number	25-022
Date of Issuance of Bid	April 30, 2025
Prebid Meeting - Mandatory	May 12, 2025 @ 3:45 PM CT OPS Lewis and Clark Middle School 6901 Burt Street, Omaha, NE 68132
Deadline for Submission of Questions	May 13, 2025
Bid Submission Deadline	May 21, 2025
Anticipated Bid Award & Board of Education Approval Timeline	June 02, 2025
Substantial Completion of Project	September 1, 2025

Question Submission Email Box Address	Questions_Clarifications_1@ops.org	
Microsoft Teams Meeting Phone Number for Bid Opening	402-509-3892	
Microsoft Team Conference ID for Bid Opening	468008417	
Address for in Person Bid Opening	District Operational Services Purchasing Division Omaha Public Schools 3215 Cuming Street Omaha, NE 68131	

Substantial Completion of the work shall be achieved not later than September 1, 2025. Final Completion shall be achieved not later than fourteen (14) days after Substantial Completion is achieved.

If Contractor does not achieve Substantial Completion by the date set forth in this Section, as may have been extended by Change Order, Contractor shall pay to District as liquidated damages the sum of \$500.00 per day for each calendar day after the day set for Substantial Completion that Substantial Completion has not been achieved. See Section 5.34 below.

2.5 <u>ASBESTOS</u>

Asbestos containing materials (ACM) have been found at Lewis and Clark in the proposed work areas. It is the Contractor's responsibility to review and study the information that may relate to asbestos-bearing material with which the Contractor may come into contact. A document describing the general location and characteristics of this material is available in the building office or through the Asbestos Program Coordinator's office at 4041 North 72nd Street, Omaha, Nebraska 68134 for your review. During this Project, should any suspected material be found, Contractor should stop work in the area immediately and contact this office at 531-299-0180.

2.6 ASBESTOS DAILY AWARENESS

Contractor shall be responsible for coordinating a central sign-in location at the facility where the Project is located for enforcement of the District's requirements of the asbestos material awareness program. Each employee, subcontractor employee and other individuals under contract with the Contractor shall be advised of locations of any hazardous material at the facility. This sign-in certificate must be submitted weekly and prior to final closeout on the Project.

2.7 ASBESTOS REMOVAL, NOTIFICATION

All known and accessible asbestos-containing material has been identified for this Project area by the District's Environmental Division. In the event Contractor encounters suspect asbestos-containing or other hazardous materials at the Project site, Contractor shall stop work immediately in the suspected contaminated area and contact the District's Environmental Division at 531-299-0180.

2.8 EQUIPMENT AND INSTALLATION REQUIREMENTS

Contractor will be required to perform all Work and supply any and all materials, equipment and accessories described in the Contract Documents or that are necessary for completion of the Project. This includes supplying accessories such as, wiring and electrical connections and labeling as required by the Contract Documents, or reasonably inferable therefrom, so that the equipment being supplied by Contractor will be fully operational in this facility.

Work at the Project site shall start within forty-eight (48) hours of delivery of equipment, provided notice to proceed has previously been given by the District.

2.9 WARRANTIES

Contractor's one (1) year warranty set forth in the General Terms and Conditions that are a part of the Contract Documents shall run for a period of one (1) year from the date of Substantial Completion. Materials must be installed in a manner that does not void or limit any manufacturer's warranty for such materials. Prior to final completion, Contractor will take any corrective measures and work to assure that the full manufacturer's warranty will apply to this Project.

ADD NO. 01



PLANNING ARCHITECTURE ENGINEERING INTERIORS 8600 INDIAN HILLS DRIVE OMAHA, NE 68114

SUBJECT Pre-bid clar	IBJECT Pre-bid clarifications			
DATE <u>5/15</u>	/2025			
PROJECT NAME	Lewis and Clark ACP			
DALY PROJECT NO.	003-10201-014			
CONTRACTOR	TBD			
CONTRACTOR JOB NO	o. <u>N/A</u>			

Discipline

Specifications

087100 - Door Hardware Added suffix D to locksets for hardware 4 and 5 to specify dual indicators.

Architectural

AD401 Revised keynote 18 to indicate the window is to be retained and reinstalled.

AE401 Storage room 123B2 layout has been updated to match field conditions. Door 123B2 has been relocated to coordinate with plan update. TV outside Sensory 123B1 has been removed and relocated window has been moved.

AE403 Detail F6 has been updated to coordinate with changes described in AE401.

IN101 Storage room flooring has been updated to coordinate with changes described in AE401.

Electrical

EP102 Revised location of dead front devices due to relocation of Door 123B2. Removed devices for TV outside Sensory 123B1.

EL102 Revised location of lighting devices in Storage 123B2. Revised type of lighting devices located in ACP 123B and ACP 123A.

Attachments: Specifications: 087100 - Door Hardware

Reissued full sized (30 x 42) sheets dated 05.15.2025: AD401, AE401, AE403, IN101, EP102, EL102



By: Jack Piels Architect



	GENERAL DEMOLITION NOTES
1. 2.	HALF-TONE NOTES AND DIMENSIONS ARE PROVIDED FOR INFORMATION ONLY. DASHED AREAS INDICATE MATERIAL OR EQUIPMENT TO BE REMOVED. ITEMS
3.	COORDINATE WITH OWNER ON ITEMS TO BE REMOVED IN THEIR ENTIRE IT. COORDINATE WITH OWNER ON ITEMS TO BE RETURNED. CONSTRUCTION SCHEDULING AND SEQUENCING SHALL BE COORDINATED WITH THE OWNER PRIOR TO BEGINNING ANY WORK. COORDINATE DEMOLITION WORK
4. 5	TO ACCOMMODATE OWNER'S NORMAL OPERATIONS. THE GENERAL CONTRACTOR SHALL ACCEPT THE PROJECT AS IT EXISTS. REPORT CONFLICTS AND/OR DISCREPANCIES DISCOVERED IN DOCUMENTS TO
6.	THE ARCHITECT FOR CLARIFICATION PRIOR TO STARTING WORK. THE EXISTING CONDITIONS, WHETHER OR NOT SPECIFICALLY NOTED ON THE DRAWINGS SHALL BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE
7.	COMMENCEMENT OF WORK. VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. ENSURE
8.	REMOVED FROM THE BUILDING PRIOR TO COMMENCEMENT OF DEMOLITION. DEMOLITION DRAWINGS INDICATE GENERAL SCOPE OF WORK ONLY. NOT ALL
9.	METHOD OF DEMOLITION SHALL BE AS REQUIRED TO ACCOMMODATE NEW WORK. THE NOTATION "NO WORK" INDICATES THAT SUBSTANTIAL DEMOLITION ACTIVITIES
	ARE NOT ANTICIPATED IN THE DESIGNATED ROOM OR AREA. INCIDENTAL MODIFICATION OR DEMOLITION MAY BE REQUIRED TO ACCOMMODATE NEW WORK / SYSTEMS AS INDICATED ON OTHER DRAWINGS.
10.	PATCH AND REPAIR EXISTING CONSTRUCTION WHICH IS DAMAGED OR DISTURBED DURING DEMOLITION TO MATCH EXISTING OR RESTORE TO ITS ORIGINAL CONDITION.
11.	CONTRACTOR SHALL COORDINATE DEMOLITION AND CUT AND PATCHING WORK WITH NEW CONSTRUCTION TO MINIMIZE CUT AND PATCHING. SEE NEW CONSTRUCTION DRAWINGS FOR COORDINATION AND THE SPECIFICATIONS FOR
12.	CUT AND PATCHING REQUIREMENTS. ALL PENETRATIONS ARE TO BE APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF ANY CUTTING AND CORING OPERATIONS.
13.	ANY NEW PENETRATIONS OF STRUCTURAL FLOORS OR OTHER MEMBERS SHALL BE X-RAYED TO LOCATE REINFORCING BARS, CONDUIT OR OTHER POSSIBLE OBSTRUCTIONS.
14. 15.	REFER TO MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS FOR SPECIFIC DEMOLITION OF RELATED ITEM(S). SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR REQUIRED
16.	MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION. THE EXACT LOCATION AND EXTENT OF SUBSURFACE UTILITIES ARE NOT KNOWN.
	PROCEEDING WITH THE WORK. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE REPAIR OR RELOCATION OF ANY SUCH UTILITIES ENCOUNTERED DURING
17.	WHERE AREAS OR ITEMS THAT ARE INDICATED TO BE REMOVED, ABUT OR ADJOIN EXISTING CONSTRUCTION INDICATED TO REMAIN, SAWCUT OR OTHERWISE
	REIVIOVE TO PROVIDE A CLEAN EDGE. IF EVIDENCE OF DEMOLITION WILL NOT BE CONCEALED BY NEW WORK, PATCH AND/OR REPAIR TRANSITION TO MATCH ADJACENT SURFACE AND FINISH.
18.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING STRUCTURES SURROUNDING THE CONTRACT AREA. DAMAGE TO EXISTING STRUCTURES OR EQUIPMENT SHALL BE REPAIRED OR REPLACED AT NO
19.	ADDITIONAL COST TO THE OWNER. ERECT TEMPORARY PARTITIONS/BARRIERS AS REQUIRED TO PREVENT CONTAMINATION OF ADJACENT AREAS THAT ARE OR WILL BE USED BY THE
20.	OWNER. CONTAMINATION INCLUDES DUST, DEBRIS, AND EXCESSIVE NOISE CAUSED BY DEMOLITION ACTIVITIES. SHORE AND/OR BRACE EXISTING WORK AS REQUIRED TO SAFELY REMOVE
21	ITEM(S) OR EXISTING CONSTRUCTION WITHOUT DAMAGE TO EXISTING CONSTRUCTION INDICATED TO REMAIN. REMOVAL WORK AT EXTERIOR OF BUILDING SHALL BE DONE IN SUCH A MANNER
21.	AS TO PREVENT MATERIALS FROM DAMAGING ADJACENT STRUCTURES OR STRUCTURES BELOW.
22.	DO NOT MODIFY EXISTING STRUCTORE ONLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN ADVANCE BY BOTH THE ARCHITECT AND STRUCTURAL ENGINEER.
23. 24.	SECURITY SYSTEMS, ETC. PRIOR TO DEMOLITION. REMOVE FLOOR FINISHES AS NOTED AND ANY PRIOR ADHESIVES AND MAKE
25.	READY FOR NEW. REMOVE CEILINGS AS NOTED AND MAKE READY FOR NEW.
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CEILING LEGEND

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RECTANGULAR LUMINAIRE ROUND LUMINAIRE STRIP LUMINAIRE EXIT SIGN, CEILING OR WALL MOUNT OCCUPANCY SENSOR, ON CEILING WIRELESS ACCESS POINT MECH SUPPLY AIR DIFFUSER MECH RETURN AIR DIFFUSER ACCOUSTICAL CEILING PANEL OR TILE SYSTEM GYPSUM BOARD CEILING SYSTEM ACCESS PANEL

NOTE:

- 1. SEE ELECTRICAL FOR LIGHTING FIXTURE TYPES.
- 2. SEE MECHANICAL FOR AIR DEVICES.
- 3. COORDINATE SPRINKLER HEAD LOCATIONS WITH CEILING ITEMS SHOWN.



- PARTITIONS AND WALLS
 1. FLOOR PLAN DIMENSIONS ARE LOCATED FROM THE FINISHED FACE OF PARTITIONS AND COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
- 2. PARTITIONS SHALL BE 3-5/8 INCH METAL STUDS AT 16 INCHES ON CENTER WITH 5/8 GYPSUM WALLBOARD EACH SIDE, UNLESS NOTED OTHERWISE.
- 3. ALL PARTITIONS SHALL EXTEND FROM FLOOR TO UNDER SIDE OF DECK ABOVE EXCEPT WHERE NOTED OR SHOWN OTHERWISE. 4. EXTEND ALL SOUND RATED PARTITIONS TO THE UNDER SIDE OF DECK ABOV
- TO PREVENT SOUND TRANSMISSION. FURNISH 4-1/4 POUNDS DENSITY GLASS FIBER INSULATION SHAPED TO FIT THE VOID ABOVE THE PARTITION WHERE
- AIR-BORNE SOUND CAN PENETRATE SPACES. 5. CONTROL JOINTS SHALL BE PROVIDED ABOVE DOORS AT EACH JAMB ON EACH SIDE IN STUD AND GWB PARTITIONS. 6. PROVIDE ALL WALL AND FLOOR OPENINGS FOR MECHANICAL AND
- ELECTRICAL ITEMS. ALL OPENINGS MORE THAN 16 INCHES WIDE IN MASONR' PARTITIONS SHALL HAVE LINTELS AS SCHEDULED ON THE STRUCTURAL DRAWINGS. 7. FOR WALL PARTITION TYPES, SEE SHEET AE601.

DOORS AND FRAMES

- 1. PROVIDE LABELS ON DOORS AND FRAMES WHERE SCHEDULED. 2. INSTALL CONTINUOUS CAULKING AROUND METAL FRAMES UNLESS NOTED OTHERWISE. 3. HOLLOW METAL FRAMES SHALL BE ANCHORED TO THE STRUCTURAL FLOOR
- WITH A MINIMUM OF TWO (2) ANCHOR BOLTS. 4. HOLLOW METAL FRAMES SHALL BE FILLED WITH GROUT TO THE DEPTH OF THE FRAME ANCHOR FULL HEIGHT IN ORDER TO DAMPEN HOLLOW SOUND.
- GROUT PRIOR TO SETTING IN PLACE. 5. INSTALL CASING (J) BEADS AND CAULK WHERE GWB ABUTS METAL FRAMES WITHOUT SLIPPING BEHIND. 6. DOOR TYPES AND SIZES ARE INDICATED IN THE DOOR AND FRAME SCHEDU SHOWN ON SHEET AE601.
- MISCELLANEOUS 1. PROJECT DRAWINGS ARE BASED ON RECORD DRAWINGS, ALL CONDITIONS
- SHOWN SHALL BE VERIFIED IN FIELD PRIOR TO FABRICATION OF NEW ITEMS. INFORM ARCHITECT OF ANY DISCREPANCIES FOUND AND REQUEST DIRECTION. 2. PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS (INCLUDING, BUT NOT LIMITED TO, MAP RAILS, MARKER BOARDS, SIGNAGE,
- CASEWORK, MILLWORK, GRAB BARS, TOILET ACCESSORIES, AND EQUIPMENT). ANCHOR WALL ATTACHED ITEMS TO 2X6 WOOD BLOCKING ANCHORED BETWEEN STUDS, UNLESS NOTED OTHERWISE. BLOCKING SHAL BE CONTINUOUS AND LOCATED BOTH AT BOTTOM AND TOP OF EQUIPMENT.

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LEWIS AND CLARK

OMAHA PUBLIC SCHOOLS

6901 Burt St.

Omaha, NE 68132

3215 Cuming St. Omaha, NE 68131

LEO A DALY

8600 Indian Hills Drive Omaha, NE 68114-4039

COA: CA-0280

Tel 402.391.8111 Fax 402.391.8564

			SIG	SNAGE SCHEDULE		
				MESSAGE		
ROOM NO. / DOOR TAG	ROOM NAME	SIGN TYPE	LINE 1	LINE 2	LINE 3	REMARKS
A	•					
123B3	TOILET/CHANGING	A	{NAME}	{NUMBER}	{BRAILLE}	
123B3	TOILET/CHANGING	A	{NAME}	{NUMBER}	{BRAILLE}	
A: 2 QUANTITY	·					
В						
		В	NOTE 1	{NUMBER}	{BRAILLE}	
		В	{NAME}	{NUMBER}	{BRAILLE}	
123A	ACP	В	NOTE 1	{NUMBER}	{BRAILLE}	
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SIGNAGE STYLE AND COLORS TO COMPLY WITH EXISTING FACILITY SIGNAGE STANDARDS RESTROOM SIGNAGE - COMPLY WITH ICC A117.1 703 AND ADAAG CHAPTER 7

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NOTE 1: ACP ROOM IDENTIFICATION NAME TO COMPLY WITH OMAHA PUBLIC SCHOOL STANDARDS AND TO BE COORDINATED WITH THE CLIENT





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7 GENERAL FINISH NOTES SEE SHEET GI002 FOR COMPLETE LIST OF SYMBOLS AND ABBREVIATIONS. "UNO" WITHIN A ROOM FINISH TAG INDICATES A CHANGE IN FINISH. REFER TO FINISH PLANS, ELEVATIONS, REFLECTED CEILING PLANS, AND/OR DETAILS FOR EXTENTS OF CHANGES IN FINISHES. REFER TO SECTION 090609 COLOR SCHEDULE FOR COLOR / MATERIAL INFORMATION. NOT ALL FINISHES ARE SHOWN IN THE FINISH PLAN; REFER TO ELEVATIONS, REFLECTED CEILING PLAN, AND SECTION 090609 COLOR SCHEDULE FOR A COMPLETE LIST. FLOORING TRANSITIONS BETWEEN ROOMS SHALL BE AT CENTERLINE OF DOOR WHEN CLOSED, UNO. REFER TO SECTION 090609 FOR EDGE STRIP INFORMATION ALL EXPOSED TILE EDGES TO BE FINISHED WITH METAL TRANSITION STRIP (ES), UNO. REFER TO SECTION 090609 FOR EDGE STRIP INFORMATION. SEE FINISH PLANS AND/OR REFLECTED CEILING PLANS FOR LOCATIONS OF ROLLER SHADES (RS). ENSURE ADEQUATE BACKING IN EXISTING WINDOW FRAM INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTION. SOFFITS SHALL BE PAINTED TO MATCH ADJACENT PARTITIONS AND/OR SURFACES, UNO. INSTALLATION PATTERNS OF FLOORING ARE INDICATED ON DRAWINGS. 0. INSTALLATION PATTERNS OF WALL TILE ARE INDICATED ON ELEVATIONS. 1. GWB WALLS SHALL BE PREPARED TO A LEVEL 4 FINISH AT ALL EXPOSED, PAINTER LOCATIONS, TYP. 2. FINISHES OUTSIDE OF DESIGNATED PROJECT SCOPE AREA THAT ARE DISTURBE BY CONSTRUCTION SHALL BE REPAIRED WITH NEW FINISHES TO MATCH EXISTIN 3. CONTRACTOR SHALL COORDINATE WALL MOUNTED DEVICES AMONG ALL CONTRACTORS WHOSE DEVICES ARE TO BE LOCATED IN A GIVEN SPACE. DEVIC SHALL BE ALIGNED WITH EACH OTHER AT A COMMON HEIGHT AND SHALL COMPL WITH ADA ACCESSIBLE MOUNTING HEIGHTS AND LOCAL CODES AS INDICATED IN THE DOCUMENTS. DEVICES THAT ARE MOUNTED HIGHER ON A WALL SHALL BE ALIGNED VERTICALLY WITH OTHER DEVICES PRESENT BELOW. WHERE ALIGNMENT, LOCATION, OR HEIGHTS ARE UNCLEAR, CONTRACTOR SHALL NOTIFY ARCHITECT, PRIOR TO INSTALLATION. 4. REFER TO FINISH PLAN FOR TV LOCATIONS. TVS ARE SHOWN FOR REFERENCE ONLY AND ARE PROVIDED BY OTHERS. VERIFY MOUNTING HEIGHT WITH OWNER. PROVIDE SUFFICIENT BACKING IN WALL.

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REVEAL @ EXISTING GLAZED BLOCK TO GYP TRANSITION

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LEWIS AND CLARK
6901 Burt St.
Omaha, NE 68132

OMAHA PUBLIC SCHOOLS

3215 Cuming St. Omaha, NE 68131



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ACTIVITY Manager Design Draw Check STAMP NO Project 04.04.2 ENLAF	BY EPF EGM EGM EGM EGM EGM EGM EGM EGM EGM EGM	



IN101

MAINS TYPE: MLO PHASE BUS RATING: NEUTRAL BUS RATING: NOTES:		S	Pl S.C.C.R. F	VOLTS: 12 HASES: 3 WIRES: 4 RATING:	20/208 WY	É			SUI E	LO(PPL) MO(NCL	CATION: STORAGE 16 Y FROM: UNTING: SURFACE OSURE:	
LOAD DESCRIPTION	BK	CK		A		В		C	CK T	Р	BK LOAD	DESCRIPTION
EXISTING SPARE	20	1 1	0	0					2	1	20 EXISTING SPARE	
EXISTING SPARE	20	1 3			0	0			4	1	20 EXISTING SPARE	
EXISTING PLUGS WEST WALL	20	1 5					0	0	6	1	20 EXISTING SPARE	
EXISTING SPARE	20	1 7	0	0					8	1	20 EXISTING SPARE	
EXISTING PLUG	20	1 9			0	0			10	1	20 EXISTING PLUGS E. WALL H.	M
EXISTING LIGHTS CABINETS	20	1 11					0	0	12	1	20 EXISTING LIGHTS CABINET	
EXISTING CLASS BELL	20	1 13	0	0					14	1	20 EXISTING PLUGS WEST WAL	L
EXISTING PLUG WEST WALL	20	1 15			0	0			16	1	20 EXISTING SPARE	
EXISTING PLUGS	20	1 17					0	0	18	-		
EXISTING SOUTH SYNERGISTIC	20	1 19	0	0					20	2	20 EXISTING SPARE	
EXISTING SPARE	20	2 21 23			0	0	0	0	22 24	2	20 EXISTING SPARE	
EXISTING SPARE	20	1 25	0	0					26	1	20 EXISTING SPARE	
EXISTING SPARE	20	1 27			0				28	1	SPACE	
EXISTING SPARE	20	1 29					0		30	1	SPACE	
EXISTING SPARE	20	1 31	0						32	1	SPACE	
EXISTING SPARE	20	1 33			0	0			34	1	20 EXISTING NORTH SYNERGIS	TIC
R: ACP 123A	20	1 35					1080	0	36	1	20 EXISTING MAIN FIRE PANEL	
R: ACP 123A, SENSORY 123A2	20	1 37	1080						38	1	SPACE	
SPACE		1 39							40	1	SPACE	
SPACE		1 41							42	1	SPACE	
		TOTAL	. 1080	.00 VA	0.0	0 VA	1080.	.00 VA				
		TOTAL	. 10).4 A	0.	.0 A	10.	.4 A				
I OAD CLASSIFICATION	CONNECTE		DF	MAND FA	CTOR	FSTIM			CTOR		PANFI	TOTALS
RECEPTACLES	2160	/A		100.00%	6		2160	VA			TOTAL CONNECTED LOAD:	2.2 kVA
											TOTAL CONNECTED CURRENT:	6.0 A
										T	OTAL ESTIMATED DEMAND LOAD:	2.2 kVA
											TOTAL ESTIMATED DEMAND	6.0 A
	1		1			1						1

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MAINS TYPE: MLO PHASE BUS RATING: 225 A NEUTRAL BUS RATING: 225 A			S	PI .C.C.R. R	VOLTS: 12 HASES: 3 WIRES: 4 ATING:	20/208 WYI	Ξ			SL	LO PPL MO ENCI	CATI Y FR UNTI _OSU	ON: STORAGE 123B2 OM: NG: SURFACE IRE:
NOTES: * - GFCI BREAKER - CONTRACTOR TO CONFIRM EXISTING	PANEL CAN	ACC	COMM	ODATE (GFCI BREA	KERS AS I	NDICATE). Deadfr	RONT GF	CI SH	ALL	BE P	ROVIDED IF NOT
LOAD DESCRIPTION	BK R	Р	СК Т		A	E	3	c	;	СК Т	Р	BK R	LOAD DESCRIPTION
POWER	20	1	1	0	0					2	1	20	EXISTING SPARE
EXISTING SPARE	20	1	3			0	0			4	1	20	EXISTING RECEP OUTSIDE GFCI FOR A/C
R: WASHING MACHINE*	20	1	5					0	0	6	1	20	EXISTING SPARE
R: REFRIGERATOR*	20	1	7	180	0					8	1	20	EXISTING
EXISTING RECEP. SOUTH SIDE RM	20	1	9			0	0			10	1	20	EXISTING RECEP EAST SIDE ROOM
EXISTING LIGHTS N. CAB	20	1	11					0	0	12	1	20	EXISTING RECEP SOUTH SIDE RM
EXISTING RESTROOM HAND DRYER BOYS	20	1	13	0	0					14	1	20	EXISTING RECEP N-W SIDE RM
EXISTING RESTROOM HAND DRYER BOYS	20	1	15			0	0			16	1	20	EXISTING RECEP WEST CENTER SIDE RM
			17					0	0	18	1	20	EXISTING PLUG STRIP WEST WALL
DRYER^	20	2	19	0	0					20	1	20	EXISTING PLUG STRIP WEST WALL
		2	21			0	0			22	1	20	EXISTING SPLIT A/C UNIT IDF IT ROOM
EXISTING SPARE	20		23					0	0	24	1	20	EXISTING SPLIT A/C UNIT IDF IT ROOM
		_	25	0	0					26			
EXISTING SPARE	20	2	27			0	0			28	2	20	EXISTING SPARE
RANGE*	20	2	29 31	0	0			0	0	30 32	2	20	EXISTING SPARE
EXISTING RESTROOM HAND DRYER GIRLS	20	1	33			0	360			34	1	20	R: RM 123B4
EXISTING RESTROOM HAND DRYER GIRLS	20	1	35					0	720	36	1	20	R: RM 123B EAST WALL
EXISTING EWC FOUNTAINS	20	1	37	0	900					38	1	20	R: RM 123B1, RM 123B NORTH WALL
EXISTING RECEP QUAD IDF ROOM IT	20	1	39			0	720			40	1	20	R: RM 123B3, KITCHEN 123B4
EXISTING RECEP QUAD IDF ROOM IT	20	1	41					0	180	42	1	20	R: RANGE HOOD
		TO	TAL	1080	.00 VA	1080.	00 VA	900.0	0 VA				
		TO	TAL	9	.2 A	9.2	2 A	7.5	A				
LOAD CLASSIFICATION	CONNECTE) LO	AD	DE	MAND FA	CTOR	ESTIM	ATED DEM	AND FA	CTOF	2		PANEL TOTALS
POWER	0 VA				0.00%			0 V A	4		\top		TOTAL CONNECTED LOAD: 3.1 kVA
RECEPTACLES	3060 V	Ά			100.00%	, 0		3060	VA			Т	OTAL CONNECTED CURRENT: 8.5 A
											T	OTA	L ESTIMATED DEMAND LOAD: 3.1 kVA
												-	TOTAL ESTIMATED DEMAND 8.5 A
				1			1						



POWER GENERAL NOTES

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ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS NOTED OTHERWISE.

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KEYNOTE LEGEND

41	CONTRACTOR SHALL PROVIDE FIRE ALARM DESIGN PER DELEGATED DESIGN. THE SCOPE OF WORK SHALL INCLUDE ALL AREAS WHERE EXISTING FIRE ALARM DEVICES ARE TO BE DISRUPTED OR DEMOLISHED. NEW DEVICES SHALL COORDINATE WITH AND CONNECT TO EXISTING FIRE ALARM SYSTEM. EXPAND EXISTING SYSTEM AS REQUIRED.
1	RECEPTACLES FOR WASHER AND DRYER. COORDINATE WITH MANUFACTURER TO CONFIRM EXACT POWER REQUIREMENTS.
2	RECEPTACLES FOR RANGE. COORDINATE WITH MANUFACTURER TO CONFIRM EXACT POWER REQUIREMENTS.

- EXACT POWER REQUIREMENTS.

 RECEPTACLE FOR REFRIGERATOR. PROVIDE GFCI BREAKER IN PANEL. LABEL

 RECEPTACLE TO INDICATE GFCI PROTECTION BY BREAKER.

 CONTRACTOR TO CONFIRM EXISTING PANEL CAN ACCOMMODATE GFCI BREAKERS

 AS INDICATED. DEADFRONT GFCI SHALL BE PROVIDED IF NOT.

 RECEPTACLE FOR RANGE HOOD. CONTRACTOR TO COORDINATE EXACT LOCATION

 OF RECEPTACLE WITH RANGE HOOD REQUIREMENTS.





Omaha OMA 3215 C Omaha	AHA PUBLIC SCH Cuming St. a, NE 68131	OOLS
8600 Ir Omaha	DADALY ndian Hills Drive a, NE 68114-4039	
Tel 402 COA: (2.391.8111 Fax 402.391.85 CA-0280	564
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SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes:
 - 1. Mechanical door hardware.
 - 2. Electrified door hardware.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: Details of electrified door hardware, indicating the following:
 - 1. Wiring Diagrams: For power, signal, and control wiring and including the following:
 - a. Details of interface of electrified door hardware and building safety and security systems.
 - b. Schematic diagram of systems that interface with electrified door hardware.
 - c. Point-to-point wiring.
 - d. Risers.
 - e. Elevations doors controlled by electrified door hardware.
 - 2. Operation Narrative: Describe the operation of doors controlled by electrified door hardware.
- C. Samples for Verification: For exposed door hardware of each type required, in each finish specified, prepared on Samples of size indicated below. Tag Samples with full description for coordination with the door hardware schedule. Submit Samples before, or concurrent with, submission of door hardware schedule.
 - 1. Sample Size: Full-size units or minimum 2-by-4-inch (51-by-102-mm) Samples for sheet and 4-inch (102-mm) long Samples for other products.
- D. Other Action Submittals:
 - 1. Door Hardware Schedule: Prepared by or under the supervision of Installer, detailing fabrication and assembly of door hardware, as well as installation procedures and

diagrams. Coordinate final door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

- a. Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate the fabrication of other work that is critical in Project construction schedule.
- b. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule." Double space entries, and number and date each page.
- c. Format: Use same scheduling sequence and format and use same door numbers as in the Contract Documents.
- d. Content: Include the following information:
 - 1) Identification number, location, hand, fire rating, size, and material of each door and frame.
 - 2) Locations of each door hardware set, cross-referenced to Drawings on floor plans and to door and frame schedule.
 - 3) Complete designations, including name and manufacturer, type, style, function, size, quantity, function, and finish of each door hardware product.
 - 4) Description of electrified door hardware sequences of operation and interfaces with other building control systems.
 - 5) Fastenings and other pertinent information.
 - 6) Explanation of abbreviations, symbols, and codes contained in schedule.
 - 7) Mounting locations for door hardware.
 - 8) List of related door devices specified in other Sections for each door and frame.
- 2. Keying Schedule: Prepared by or under the supervision of Installer, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations that are coordinated with the Contract Documents.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For electrified door hardware, from the manufacturer.
 - 1. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
 - 2. Certify that door hardware approved for use on types and sizes of labeled storm-rated doors complies with listed storm-rated door assemblies.
- B. Product Test Reports: For compliance with accessibility requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for door hardware on doors located in accessible routes.
- C. Warranty: Special warranty specified in this Section.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware and keying schedule.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers and an Architectural Hardware Consultant who is available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
 - 1. Warehousing Facilities: In Project's vicinity.
 - 2. Scheduling Responsibility: Preparation of door hardware and keying schedules.
 - 3. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
- B. Source Limitations: Obtain each type of door hardware from a single manufacturer.
 - 1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated. Manufacturers that perform electrical modifications and that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.
- C. 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 NFPA 252 or UL 10C, unless otherwise indicated.
- D. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meet requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
 - 1. Air Leakage Rate: Maximum air leakage of0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at the tested pressure differential of 0.3-inch wg (75 Pa) of water.
- E. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- F. Means of Egress Doors: Latches do not require more than 15 lbf (67 N) to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- G. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines ICC/ANSI A117.1.
 - 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 (22.2 N).
 - 2. Comply with the following maximum opening-force requirements:

- a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf (22.2 N) applied perpendicular to door.
- b. Sliding or Folding Doors: 5 lbf (22.2 N) applied parallel to door at latch.
- c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
- 3. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch (13 mm) high.
- 4. Adjust door closer sweep periods so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches (75 mm) from the latch, measured to the leading edge of the door.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up 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.
- C. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.
- D. Deliver keys to Owner by registered mail or overnight package service.

1.8 COORDINATION

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

1.9 WARRANTY

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

- 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.
 - a. Electromagnetic and Delayed-Egress Locks: Five years from date of Substantial Completion.
 - b. Exit Devices: Two years from date of Substantial Completion.
 - c. Manual Closers: 10 years from date of Substantial Completion.

1.10 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.
- B. Maintenance Service: Beginning at Substantial Completion, provide six months' full maintenance by skilled employees of door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door and door hardware operation. Provide parts and supplies that are the same as those used in the manufacture and installation of original products.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Provide door hardware for each door as scheduled in Part 3 "Door Hardware Schedule" Article to comply with requirements in this Section.
 - 1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturers' products.
 - 2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
- B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in Part 3 "Door Hardware Schedule" Article. Products are identified by using door hardware designations, as follows:
 - 1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in Part 3 "Door Hardware Schedule" Article.
 - 2. References to BHMA Designations: Provide products complying with these designations and requirements for description, quality, and function.

- 2.2 HINGES
 - A. Hinges: BHMA A156.1.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.3 CONTINUOUS HINGES

- A. Continuous Hinges: BHMA A156.26; minimum 0.120-inch- (3.0-mm-) thick, hinge leaves with minimum overall width of 4 inches (102 mm); fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete.
- B. Pin-and-Barrel-Type Hinges:
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.
- C. Continuous, Gear-Type Hinges: Extruded-aluminum, pinless, geared hinge leaves joined by a continuous extruded-aluminum channel cap; with concealed, self-lubricating thrust bearings.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.4 MECHANICAL LOCKS AND LATCHES

- A. Lock Functions: As indicated in door hardware schedule.
- B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
 - 1. Bored Locks: Minimum 1/2-inch (13-mm) latchbolt throw.
 - 2. Mortise Locks: Minimum 3/4-inch (19-mm) latchbolt throw.
 - 3. Deadbolts: Minimum 1-inch (25-mm) bolt throw.
- C. Lock Backset: 2-3/4 inches (70 mm), unless otherwise indicated.
- D. Lock Trim:
 - 1. Description: As indicated in door hardware schedule.
 - 2. Levers: Cast.
 - 3. Escutcheons (Roses): Wrought or Forged.
 - 4. Dummy Trim: Match lever lock trim and escutcheons.
 - 5. Operating Device: Lever with escutcheons (roses).
- E. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.
 - 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 - 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.

- 3. Aluminum-Frame Strike Box: Manufacturer's special strike box fabricated for aluminum framing.
- 4. Rabbet Front and Strike: Provide on locksets for rabbeted meeting stiles.
- F. Bored Locks: BHMA A156.2; Grade 1; Series 4000.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.
- G. Mortise Locks: BHMA A156.13; Operational Grade 1; stamped steel case with steel or brass parts; Series 1000.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.
- H. Interconnected Locks: BHMA A156.12; Grade 1; Series 5000.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.5 AUXILIARY LOCKS

- A. Bored Auxiliary Locks: BHMA A156.5: Grade 1; with strike that suits frame.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.
- B. Mortise Auxiliary Locks: BHMA A156.5; Grade 1; with strike that suits frame.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.6 ELECTRIC STRIKES

- A. Electric Strikes: BHMA A156.31; Grade 1; with faceplate to suit lock and frame.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.7 ELECTROMAGNETIC LOCKS

- A. Electromagnetic Locks: BHMA A156.23; electrically powered; with electromagnet attached to frame and armature plate attached to door; full-exterior or full-interior type, as required by application indicated.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.
- B. Delayed-Egress Electromagnetic Locks: BHMA A156.24, electrically powered, with electromagnet attached to frame and armature plate attached to door; depressing push bar for more than 3 seconds initiates irreversible alarm and 15-second delay for egress. When integrated with fire alarm, fire alarm voids 15-second delay.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.8 ELECTROMECHANICAL LOCKS

- A. Electromechanical Locks: BHMA A156.25; Grade 1; motor or solenoid driven; mortise latchbolt; with strike that suits frame.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.9 SELF-CONTAINED ELECTRONIC LOCKS

- A. Self-Contained Electronic Locks: BHMA A156.25, mortise; with internal, battery-powered, self-contained electronic locks; consisting of complete lockset, motor-driven lock mechanism, and actuating device; enclosed in zinc-dichromate-plated, wrought-steel case, and strike that suits frame. Provide key override, low-battery detection and warning, LED status indicators, and ability to program at the lock.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.10 EXIT LOCKS AND EXIT ALARMS

- A. Exit Locks and Alarms: BHMA A156.29, Grade 1.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.11 SURFACE BOLTS

A. Surface Bolts: BHMA A156.16.
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.12 MANUAL FLUSH BOLTS

- A. Manual Flush Bolts: BHMA A156.16; minimum 3/4-inch (19-mm) throw; designed for mortising into door edge.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.13 AUTOMATIC AND SELF-LATCHING FLUSH BOLTS

- A. Automatic and Self-Latching Flush Bolts: BHMA A156.16; minimum 3/4-inch (19-mm) throw; designed for mortising into door edge.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.14 EXIT DEVICES AND AUXILIARY ITEMS

A. Exit Devices and Auxiliary Items: BHMA A156.3.

1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.15 LOCK CYLINDERS

- A. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver.
 - 1. Manufacturer: Same manufacturer as for locking devices.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.
- B. Standard Lock Cylinders: BHMA A156.5; Grade 1; permanent cores that are interchangeable; face finished to match lockset.
- C. Construction Master Keys: Provide cylinders with feature that permits voiding of construction keys without cylinder removal. Provide 10 construction master keys.
- D. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.

2.16 KEYING

- A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, Appendix A.
 - 1. Existing System:
 - a. Master key or grand master key locks to Owner's existing system.
- B. Keys: Nickel silver.
 - 1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
 - a. Notation: "DO NOT DUPLICATE."
 - 2. Quantity: In addition to one extra key blank for each lock, provide the following:
 - a. Cylinder Change Keys: Three.
 - b. Master Keys: Five.
 - c. Grand Master Keys: Five.
 - d. Great-Grand Master Keys: Five.

2.17 OPERATING TRIM

- A. Operating Trim: BHMA A156.6.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.18 ACCESSORIES FOR PAIRS OF DOORS

- A. Coordinators: BHMA A156.3; consisting of active-leaf, hold-open lever and inactive-leaf release trigger; fabricated from steel with nylon-coated strike plates; with built-in, adjustable safety release.
- B. Carry-Open Bars: BHMA A156.3; prevent the inactive leaf from opening before the active leaf; provide polished brass or bronze carry-open bars with strike plate for inactive leaves of pairs of doors unless automatic or self-latching bolts are used.
- C. Astragals: BHMA A156.22.

2.19 SURFACE CLOSERS

- A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.20 MECHANICAL STOPS AND HOLDERS

- A. Wall- Mounted Stops: BHMA A156.16; polished cast brass, bronze, or aluminum base metal.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.21 OVERHEAD STOPS AND HOLDERS

- A. Overhead Stops and Holders: BHMA A156.8.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.22 DOOR GASKETING

- A. Door Gasketing: BHMA A156.22; air leakage not to exceed 0.50 cfm per foot (0.000774 cu. m/s per m) of crack length for gasketing other than for smoke control, as tested according to ASTM E 283 and for gasketing of smoke and draft control doors, as tested according to UL 1784; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.23 THRESHOLDS

A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.

1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule.

2.24 METAL PROTECTIVE TRIM UNITS

- A. Metal Protective Trim Units: BHMA A156.6; fabricated from 0.050-inch- (1.3-mm-) thick aluminum brass bronze or stainless steel; with manufacturer's standard machine or self-tapping screw fasteners.
- A. Door Gasketing: BHMA A156.22; air leakage not to exceed 0.50 cfm per foot (0.000774 cu. m/s per m) of crack length for gasketing other than for smoke control, as tested according to ASTM E 283 and for gasketing of smoke and draft control doors, as tested according to UL 1784; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.

2.25 AUXILIARY DOOR HARDWARE

- A. Auxiliary Hardware: BHMA A156.16.
- A. Door Gasketing: BHMA A156.22; air leakage not to exceed 0.50 cfm per foot (0.000774 cu. m/s per m) of crack length for gasketing other than for smoke control, as tested according to ASTM E 283 and for gasketing of smoke and draft control doors, as tested according to UL 1784; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.

2.26 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-rated 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 BHMA A156.18.
- C. 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, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
- D. lication intended, except 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. for each through bolt.
- 3. Fire-Rated 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.
- 4. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
- 5. Fasteners for Wood Doors: Comply with requirements in DHI WDHS.2, "Recommended Fasteners for Wood Doors."
- 6. Gasketing Fasteners: Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

2.27 FINISHES

- A. Provide finishes complying with 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.
- D. ntrast.

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 PREPARATION

- A. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
- B. ding to ANSI/SDI A250.6.
- C. Wood Doors: Comply with door and hardware manufacturers' written instructions.

3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights to comply with the following standards, except as specified below, and as otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - 3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
 - 4. Locks 36 inches to centerline of lever above finish floor.
 - 5. Exit Devices 40inches to centerline of pushpad above finish floor.
 - 6. Push/Pull Bars 40inches to centerline of push bar above finish floor.
 - 7. Pull Bars/Plates 40inches to centerline of pull bar/plate.
 - 8. Push Plates 40 inches to centerline of push plate.
- 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. Do not install surface-mounted items until finishes have been completed on substrates involved.
 - 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
 - 2. bstrates as necessary for proper installation and operation.
 - 3. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- C. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches (750 mm) of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.

- D. Lock Cylinders: Install construction cores to secure building and areas during construction period.
 - 1. Replace construction cores with permanent cores as directed by Owner.
 - 2. Furnish permanent cores to Owner for installation.
- E. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, in equipment room. Verify location with Architect.
 - 1. Configuration: Provide least number of power supplies required to adequately serve doors with electrified door hardware.
- F. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant complying with requirements specified in Section 079200 "Joint Sealants."
- G. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they will impede traffic.
- H. 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.
- I. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- J. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.4 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 70 degrees and so that closing time complies with accessibility requirements of authorities having jurisdiction.
 - 2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
 - 3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

3.5 CLEANING AND PROTECTION

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

3.6 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Section 017900 "Demonstration and Training."

3.7 HARDWARE GROUPS

List of Manufacturers

Item	Specified	Approved		
Hinges Locks	Best Best	Hager, Ives, McKinney Schlage L9000 BD 06N*		
	*Supplied with cylinders that accept "Best" style sma changeable core			
Overhead Stops	Rixson	Glynn Johnson		
Closers	Best	LCN 4111 EDA		
		American Eagle 7100 EDA		
Flat Goods & Stops	Rockwood	Ives, Don-Jo		
Weatherproofing	Pemko	National Guard		

Manufacturer's Abbreviations

BE – Best PE – Pemko RF – Rixson RO – Rockwood ST – Best (Stanley)

Hardware Set 1 (Door # 123A2, 123B1, 123B4)

3	Each	Hinge	FBB179 4 ¹ / ₂ " x 4 ¹ / ₂ "	US26D	ST
1	Each	Passage	45H0N 15J	626	BE
1	Each	Overhead Stop	10 Series	630	RF
1	Each	Gasket	S88BL		PE

Hardware Set 2 (Door # 123A, 123B.A, 123B.B)

<u>Hardware Set 3</u> (Door # 123B2)

3	Each	Hinge	FBB179 4 ½" x 4 ½"	US26D	ST
1	Each	Lock	45H7D 15J Patented	626	BE
1	Each	Overhead Stop	10 Series	630	RF

1 Each Kick Plate K1050 8" x 2" L.D.W. US32D	ach Kick Plate	E	ach Kick Plate	K1050 8" x 2" L.D.W.	US32D	RO
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Hardware Set 4 (Door # 123B3.A)

3	Each	Hinge	FBB179 4 ¹ /2" x 4 ¹ /2"	US26D	ST
1	Each	Lock	45H7TD 15J VIB Patented	626	BE
1	Each	Closer	EHD9016 SPA90	689	BE
1	Each	Kick Plate	K1050 8" x 2" L.D.W.	US32D	RO
1	Each	Wall Stop	403	US26D	RO
1	Each	Gasket	S88BL		PE

Hardware Set 5 (Door # 123B3.B)

3	Each	Hinge	FBB179 4 ¹ / ₂ " x 4 ¹ / ₂ "	US26D	ST
1	Each	Lock	45H7TD 15J VIB Patented	626	BE
1	Each	Closer	EHD9016 DS90	689	BE
1	Each	Kick Plate	K1050 8" x 2" L.D.W.	US32D	RO
1	Each	Gasket	S88BL		PE

END OF SECTION 087100