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ARCHITECTS
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ADDENDUM NO. 04
MACOMB COUNTY-COUNTY WAREHOUSE
F & O and PURCHASING OFFICES
Page 1 of 1 (write up only)

November 15, 2024

ADDENDUM NO. 04 to the plans and specifications for MACOMB COUNTY – COUNTY WAREHOUSE – F & O AND PURCHASING OFFICE RENOVATION, CLINTON TOWNSHIP, MI, Architect's Project No. 242053, dated OCTOBER 31, 2024

Specification Section 08710 is being issued with this Addendum.

GENERAL ITEM:

ITEM NO. G1: Allowance for the Hardware Schedule is being reduced from \$20,000.00 to \$7,500.00.

ARCHITECTURAL SPECIFICATION ITEMS:

ITEM NO. AS1: Refer to Specification Section 08710 (Re-Issued):
1. Finish Hardware Revised

END OF ADDENDUM NO. 4

Cc: Mary Schultz, Macomb County
Ben Treppa, Macomb County Facilities & Operations
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SECTION 08710 - FINISH HARDWARE

PART 1 - GENERAL

1.1 Refer to "General and Special Conditions", and "Instructions to Bidders", Division 1 of Specifications. Requirements of these Sections and the project drawings shall govern work in this section.

1.2 Work Included:

A. Furnish all items of Finish Hardware specified, scheduled, shown or required herein except those items specifically excluded from this section of the specification.

B. Related work:

1. Division 00 - Procurement and Contracting Requirements
2. Division 01 - General Requirements
3. Section 06100 - Carpentry
4. Section 08112 - Hollow Metal Work
5. Section 08210 - Wood Doors
6. Section 08410 - FRP Entrance Doors
7. Division 26 - Electrical

C. Specific Omissions: Hardware for the following is specified or indicated elsewhere, unless specifically listed in the hardware sets:

1. Cabinet Hardware.
2. Signs, except as noted.
3. Folding partitions, except cylinders where detailed.
4. Access doors and panels
5. Overhead and Coiling doors

1.3 Quality Assurance

A. Requirements of Regulatory Agencies:

1. Furnish finish hardware to comply with the requirements of laws, codes, ordinances, and regulations of the governmental authorities having jurisdiction where such requirements exceed the requirements of the Specifications.
2. Furnish finish hardware to comply with the requirements of the regulations for public building accommodations for physically handicapped persons of the governmental authority having jurisdiction and to comply with Americans with Disabilities Act.
3. Provide hardware for fire-rated openings in compliance with NFPA 80 and state and local building code requirements. Provide only hardware that has been tested and listed by UL for types and sizes of doors required and complies with requirements of door and door frame labels.

B. Hardware Supplier:

1. Shall be an established firm dealing in contract builders' hardware. He must have adequate inventory, qualified personnel on staff and be located within 100 miles of the project. The distributor must be a factory-authorized dealer for all materials required. The supplier shall be or have in employment an Architectural Hardware Consultant (AHC).

C. Electrified Door Hardware Supplier:

1. Shall be an 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, and who is acceptable to manufacturer of primary materials.
2. Shall prepare 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.

3. Shall have experience in providing consulting services for electrified door hardware installations.

D. Pre-installation Meeting:

1. Before hardware installation, General Contractor will request a hardware installation meeting be conducted on the installation of hardware; specifically that of locksets, closers, exit devices, overhead stops and coordinators. Manufacturer's representatives of the above products, in conjunction with the hardware supplier for the project, shall conduct the meeting. Meeting to be held at job site and attended by installers of hardware for aluminum, hollow metal and wood doors. Meeting to address proper coordination and installation of hardware, per finish hardware schedule for this specific project, by using installation manuals, hardware schedule, templates, physical product samples and installation videos.
2. When any electrical or pneumatic hardware is specified this meeting shall also include the following trades/installers: Electrical, Security, Alarm systems and Architect.
3. Convene one week or more prior to commencing work of this Section.
4. The Hardware Supplier shall include the cost of this meeting in his proposal.

E. Manufacturer:

1. Obtain each type of hardware (latch and locksets, hinges, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.
2. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.

1.4 Submittals:

A. Hardware Schedule

1. Submit number of Hardware Schedules as directed in Division 1.
2. Follow guidelines established in Door & Hardware Institute Handbook (DHI) Sequence and Format for the Hardware Schedule unless noted otherwise.
3. Schedule will include the following:
 - a. Door Index including opening numbers and the assigned Finish Hardware set.
 - b. Preface sheet listing category only and manufacturer's names of items being furnished as follows:

CATEGORY	SPECIFIED	SCHEDULED
Hinges	Manufacturer A	Manufacturer B
Lock sets	Manufacturer X	Manufacturer X
Kick Plates	Open	Manufacturer Z

- c. Hardware Locations: Refer to Article 3.1 B.2 Locations.
- d. Opening Description: Single or pair, number, room locations, hand, active leaf, degree of swing, size, door material, frame material, and UL listing.
- e. Hardware Description: Quantity, category, product number, fasteners, and finish.
- f. Headings that refer to the specified Hardware Set Numbers.
- g. Scheduling Sequence shown in Hardware Sets.
- h. Product data of each hardware item, and shop drawings where required, for special conditions and specialty hardware.
- i. Electrified Hardware system operation description.
- j. "Vertical" scheduling format only. "Horizontal" schedules will be returned "Not Approved."
- k. Typed Copy.
- l. Double-Spacing.

- m. 8-1/2 x 11 inch sheets
- n. U.S. Standard Finish symbols or BHMA Finish symbols.

B. Product Data:

- 1. Submit, in booklet form Manufacturers Catalog cut sheets of scheduled hardware.
- 2. Submit product data with hardware schedule.

C. Samples:

- 1. Prior to submittal of the final hardware schedule and prior to final ordering of finish hardware, submit one sample, if required, of each type of exposed hardware unit, finished as required and tagged with full description for coordination with schedule.
- 2. Samples will be returned to the supplier. Units, which are acceptable and remain undamaged through submittal, review and field comparison procedures may, after final check of operation, be used in the work, within limitations of keying coordination requirements.

D. Key Schedule:

- 1. Submit detailed schedule indicating clearly how the Owner's final keying instructions have been followed.
- 2. Submit as a separate schedule.

E. Electrified Hardware Drawings:

- 1. Submit elevation drawings showing relationship of all electrical hardware components to door and frame. Indicate number and gage of wires required.
 - a. Include wiring drawing showing point to point wire hook up for all components.
 - b. Include system operations descriptions for each type of opening; describe each possible condition.

F. Submit to General Contractor, the factory order acknowledgement numbers for the various hardware items to be used on the project. The factory order acknowledgement numbers shall help to facilitate and expedite any service that may be required on a particular hardware item.

General Contractor shall keep these order acknowledgement numbers on file in the construction trailer.

1.5 Product Delivery, Storage, and Handling:

- A. Label each item of hardware with the appropriate door number and Hardware Schedule heading number, and deliver to the installer so designated by the contractor.

1.6 Existing Conditions:

- A. Where existing doors, frames and/or hardware are to remain, conditions, preparations and functions shall be field verified to confirm compatibility with specified hardware. Where any incompatibility is discovered, notify the contractor or construction manager immediately and provide a suggested solution based on industry standard business practices.

1.7 Warranties:

- A. Refer to Division 1 for warranty requirements.

- B. Special Warranty Periods:

1. Closers shall carry manufacturer's 30-year warranty against manufacturing defects and workmanship.
2. Locksets shall carry manufacturer's 3-year warranty against manufacturing defects and workmanship.
3. Exit Devices shall carry manufacturer's 10-year warranty against manufacturing defects and workmanship.
4. Continuous gear hinges shall carry manufacturer's lifetime warranty to be free from defects in material and workmanship.
5. Balance of items shall carry a manufacturer's 1-year warranty against manufacturing defects and workmanship.

- C. During the warranty period, replace defective work, including labor, materials and other costs incidental to the work.

PART 2 - PRODUCT

2.1 Furnish each category with the products of only one manufacturer unless specified otherwise; this requirement is mandatory whether various manufacturers are listed or not.

2.2 Provide the products of manufacturer designated or if more than one manufacturer is listed, the comparable product of one of the other manufacturers listed. Where only one manufacturer or product is listed, it is understood that this is the owner's Building Standard and "no substitution" is allowed.

A. Hinges:

1. Furnish hinges of class and size as listed in sets.
2. Numbers used are Ives (IVE).
3. Products of a BHMA member are acceptable.

B. Continuous Gear Hinge:

1. 6063-T6 aluminum alloy, anodized finish (cap on entire hinge painted if specified). Manufacture to template, uncut hinges non-handed, pinless assembly, three interlocking extrusions, full height of door and frame, fasteners 410 stainless steel plated and hardened. Anodizing of material shall be done after fabrication of components so that all bearing slots are anodized.
2. Length: 1" less than door opening height. Fastener 12-24 x 1/2" #3 Phillips keen form stainless steel self-tapping at aluminum and hollow metal doors, 12-1/2" #3 Philips, flathead full thread at wood doors.
3. Furnish fire rated hinges "FR" at labeled openings.

4. Numbers used are Ives.
 - a. For Aluminum frames;
 - 1) Ives 112XY/224XY
 - 2) Equal products by Pemko & Select will also be accepted.

C. Locksets and Latchsets - Mortise Type:

1. Locksets shall be manufactured from heavy gauge steel, minimum lockcase thickness 1/8", containing components of steel with a zinc dichromate plating for corrosion resistance.
2. Locks are to have a standard 2 3/4" backset with a full 3/4" throw two-piece stainless steel mechanical anti-friction latchbolt. Deadbolt shall be a full 1" throw, constructed of stainless steel.
3. Lockcase shall be easily handed without chassis disassembly by removing handing screw on lockcase and installing in opposite location on reverse side. Changing of door hand bevel from standard to reverse hand shall be done by removing the lockcase scalp plate, and pulling and rotating the latchbolt 180 degrees.
4. Lock trim shall be through-bolted to the door to assure correct alignment and proper operation. Lever trim shall have external spring cage mechanism to assist in support of the lever weight.
5. Function numbers are Schlage.
 - a. Schlage L9000
6. Lockset Trim:
 - a. Schlage 03N
7. Provide strikes with extended lips where required to protect trim from being marred by latch bolt. Provide strike lips that do not project more than 1/8" beyond door frame trim at single doors and have 7/8" lip to center at pairs of 1-3/4" doors.

D. Exit Devices:

1. Exit devices shall be touchpad style, fabricated of brass, bronze, stainless steel, or aluminum, plated to the standard architectural finishes to match the balance of the door hardware.

2. Provide cylinder dogging on panic exit hardware where noted in hardware sets.
3. Exit devices shall be UL listed panic exit hardware. All exit devices for fire rated openings shall be UL labeled fire exit hardware.
4. Von Duprin 98 Series. Series and function numbers as listed in sets.
5. Trim:
 - a. As specified in sets.
 - b. Levers to match lockset design where specified.

E. Auto Operators/Closers:

1. Door closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder. Cylinder body shall be 1 ½" in diameter, and double heat treated pinion shall be 11/16" in diameter with double D slab drive arm connection.
2. Hydraulic fluid shall be of a type requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
3. Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force for the physically handicapped. Hydraulic regulation shall be by tamper-proof, non-critical valves. Closers shall have separate adjustment for latch speed, general speed, and backcheck.
4. All closers shall have solid forged steel main arms (and forged forearms for parallel arm closers).
5. All surface mounted mechanical closers shall be certified to exceed ten million (10,000,000) full load cycles by a recognized independent testing laboratory.
6. Closers will have Powder coating finish certified to exceed 100 hours salt spray testing by ETL, an independent testing laboratory used by BHMA for ANSI certification.
7. Refer to door and frame details and furnish accessories such as drop plates, panel adapters, spacers and supports as required to correctly install door closers. State degree of door swing in the hardware schedule.
8. LCN Series as listed in sets.

F. Overhead Holders and Stops:

1. Type, function and fasteners must be same as Glynn-Johnson specified. Size per manufacturer's selector chart. Plastic end caps, hold open mechanisms and shock blocks are not allowed. End caps must be finished same as balance of unit.
2. Manufacture products using base material of Brass/Bronze for US3, US4, & US10B finished products and 300 Stainless Steel for US32 & US32D finished products.
3. Type, function, and fasteners must be the same as Glynn-Johnson specified. Size per manufacturer's selector chart.
 - a. Glynn-Johnson

G. Kick Plates:

1. Furnish .050 inches thick, beveled four sides, countersunk fasteners, 10" high x door width less 2" at single doors and less 1" at pairs. Where glass or louvers prevent this height, supply with height equal to height of bottom rail less 2".
2. Any BHMA manufacturing product meeting above is acceptable.

H. Wall Stops:

1. Provide with threaded studs and expansion shields for masonry wall construction.
 - a. Ives WS443/WS447
 - b. BHMA L12021

I. Thresholds:

1. 1/4" high - 6" wide. Cope at jambs.
2. Furnish full wall opening width when frames are recessed.
3. Cope in front of mullions if thresholds project beyond door faces.
4. Furnish with non-ferrous Stainless Steel Screws and Lead Anchors.
 - a. Zero as listed in sets
 - b. Equal of NGP or Reese

J. Door Sweeps:

1. Surface Sweeps:
 - a. Zero as listed in sets
 - b. Equal of NGP or Reese

K. Miscellaneous:

1. Furnish items not categorized in the above descriptions but specified by manufacturer's names in Hardware Sets.

L. Fasteners:

1. Furnish fasteners of the proper type, size, quantity and finish. Use machine screws and expansion shields for attaching hardware to concrete or masonry, and wall grip inserts at hollow wall construction. Furnish machine screws for attachment to reinforced hollow metal doors and frames and reinforced aluminum doors and frames. Furnish full thread wood screws for attachment to solid wood doors and frames. "TEK" type screws are not acceptable.
2. **Sex bolts will not be permitted on reinforced metal doors or wood doors where blocking is specified.**

2.3 Finishes:

- A. Generally, Dull Chrome, US26D / BHMA 626. Provide finish for each item as indicated in sets.

2.4 Templates and Hardware Location:

- A. Furnish hardware made to template. Supply required templates and hardware locations to the door and frame manufacturers.
- B. Furnish metal template to frame/door supplier for continuous hinge.
- C. Refer to Article 3.1 B.2, Locations, and coordinate with templates.

2.5 Cylinders and Keying:

- A. All cylinders for this project will be supplied by one supplier regardless of door type and location.
- B. The Finish Hardware supplier will meet with Architect and/or Owner to finalize keying requirements and obtain keying instructions in writing.
 1. Supplier shall include the cost of this service in his proposal.
- C. Provide a cylinder for all hardware components capable of being locked.
- D. Provide cylinders master and grand master keyed to an existing Schlage Primus FSIC (Full Size Interchangeable Core) system according to Owner's instructions. Provide change keys, master keys and grand master keys as required by Owner.

PART 3 - EXECUTION

3.1 Installation

A. General:

1. Install hardware according to manufacturers installations and template dimensions. Attach all items of finish hardware to doors, frames, walls, etc. with fasteners furnished and required by the manufacture of the item.
2. **Provide blocking/reinforcement for all wall mounted Hardware.**
3. Reinforced hollow metal doors and frames and reinforced aluminum door and frames will be drilled and tapped for machine screws.
4. Solid wood doors and frames: full thread wood screws. Drill pilot holes before inserting screws.
5. Continuous gear hinges attached to hollow metal doors and frames and aluminum doors and frames: 12-24 x 1/2" #3 Phillips Keenform self-tapping. Use #13 or 3/16 drill for pilot.

- 6. Continuous Gear Hinges require continuous mortar guards of foam or cardboard 1/2" thick x frame height, applied with construction adhesive.
- 7. Install weather-strip gasket prior to parallel arm closer bracket, rim exit device or any stop mounted hardware. Gasket to provide a continuous seal around perimeter of door opening. Allow for gasket when installing finish hardware. Door closers will require special templating. Exit devices will require adjustment in backset.

B. Locations:

- 1. Dimensions are from finish floor to center line of items.
- 2. Include this list in Hardware Schedule.

CATEGORY

DIMENSION

Hinges	Door Manufacturer's Standard
Levers	Door Manufacturer's Standard
Exit Device Touchbar	Per Template

C. Field Quality Inspection:

- 1. Inspect material furnished, its installation and adjustment, and instruct the Owner's personnel in adjustment, care and maintenance of hardware.
- 2. Locksets and exit devices shall be inspected after installation and after the HVAC system is in operation and balanced, to insure correct installation and proper operation.
- 3. Closers shall be inspected and adjusted after the HVAC system is in operation and balanced, to insure correct installation and proper operation.
- 4. A written report stating compliance, and also locations and kinds of noncompliance shall be forwarded to the Architect with copies to the Contractor, hardware distributor, hardware installer and building owner.

D. Technical and Warranty Information:

1. At the completion of the project, the technical and warranty information coalesced and kept on file by the General Contractor shall be given to the Owner or Owner's Agent. In addition to both the technical and warranty information, all factory order acknowledgement numbers supplied to the General Contractor during the construction period shall be given to the Owner or Owner's Agent. The warranty information and factory order acknowledgement numbers shall serve to both expedite and properly execute any warranty work that may be required on the various hardware items supplied on the project.
2. Submit to General Contractor, two copies each of parts and service manuals and two each of any special installation or adjustment tools. Include for locksets, exit devices, door closers and any electrical products.

3.2 Hardware Sets:

Hardware Group No. 01

For use on Door #(s):

A109	A110	A116	A119		
Provide each SGL door(s) with the following:					
QTY	DESCRIPTION	CATALOG NUMBER		FINIS	MFR
				H	
	DOOR & HARDWARE	BY PARTITION			B/O
		MANUFACTURER			

Hardware Group No. 02

For use on Door #(s):

B101	B103	B104	B107	B110	B112
B113					
Provide each SGL door(s) with the following:					
QTY	DESCRIPTION	CATALOG NUMBER		FINIS	MFR
				H	
	DOOR & HARDWARE	BY SLIDING DOOR			
		MANUFACTURER			

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Hardware Group No. 03

For use on Door #(s):

A103

Provide each SGL door(s) with the following:

QTY	EA	DESCRIPTION	CATALOG NUMBER		FINIS	MFR
					H	
1	EA	CONT. HINGE	224XY TWP CON		628	IVE
1	EA	ELEC FIRE EXIT HARDWARE	RX-QEL-98-L-F-03		626	VON
1	EA	PRIMUS RIM CYLINDER	20-757		626	SCH
1	EA	SURFACE CLOSER	4111 CUSH MC		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER
1	EA	CARD READER/ACCESS CONTROL	BY SECURITY CONTRACTOR			B/O
1	EA	DESK MOUNT BUTTON	660-PB (AT RECEPTION DESK)		628	SCE
1	EA	DOOR CONTACT	679-05 (HM/WD AS REQ'D)		BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS		LGR	SCE

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER OR DESK MOUNTED PUSH BUTTON MOMENTARILY RETRACTS LATCH ALLOWING ENTRY. FREE EGRESS AT ALL TIMES.

Hardware Group No. 04

For use on Door #(s):

B102

Provide each SGL door(s) with the following:

QTY	EA	DESCRIPTION	CATALOG NUMBER		FINIS	MFR
					H	
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	FIRE EXIT HARDWARE	98-L-NL-F-03		626	VON
1	EA	PRIMUS RIM CYLINDER	20-757		626	SCH
1	EA	SURFACE CLOSER	4111 EDA MC		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS443/447		626	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

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Hardware Group No. 05
 For use on Door #(s):
 A113

Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINIS	MFR
			H	
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA PRIVACY LOCK W/ OUTSIDE INDICATOR	L9040 03N 09-544 OS-OCC	626	SCH
1	EA SURFACE CLOSER	4111 EDA MC	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS443/447	626	IVE
1	EA GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 06
 For use on Door #(s):
 B117

Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINIS	MFR
			H	
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA PRIVACY LOCK W/ OUTSIDE INDICATOR	L9040 03N 09-544 OS-OCC	626	SCH
1	EA SURFACE CLOSER	4011 MC	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS443/447	626	IVE
1	EA GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 07
 For use on Door #(s):
 A115

Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINIS	MFR
			H	
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA INSTITUTION LOCK	L9082J 03N	626	SCH
2	EA PRIMUS CORE	20-740	626	SCH
1	EA SURFACE CLOSER	4111 EDA MC	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS443/447	626	IVE
1	EA GASKETING	488SBK PSA	BK	ZER

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Hardware Group No. 08

For use on Door #(s):

A108A

Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINIS	MFR
			H	
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA OFFICE/ENTRY LOCK	L9050J 03N 09-544	626	SCH
1	EA PRIMUS CORE	20-740	626	SCH
1	EA WALL STOP	WS443/447	626	IVE

Hardware Group No. 09

For use on Door #(s):

B119

Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINIS	MFR
			H	
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA CLASSROOM LOCK	L9070J 03N	626	SCH
1	EA PRIMUS CORE	20-740	626	SCH
1	EA WALL STOP	WS443/447	626	IVE

Hardware Group No. 10

For use on Door #(s):

A104 A108B B118

Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINIS	MFR
			H	
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA STOREROOM LOCK	L9080J 03N	626	SCH
1	EA PRIMUS CORE	20-740	626	SCH
1	EA SURFACE CLOSER	4011 MC	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS443/447	626	IVE
1	EA GASKETING	488SBK PSA	BK	ZER

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Hardware Group No. 11
 For use on Door #(s):
 B115A

Provide each PR door(s) with the following:

QTY	EA	DESCRIPTION	CATALOG NUMBER		FINIS	MFR
					H	
2	EA	CONT. HINGE	112XY TWP CON		628	IVE
1	EA	FIXED MULLION	BY DOOR/FRAME MANUFACTURER			B/O
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-EO		626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-NL-OP-110MD		626	VON
1	EA	PRIMUS RIM CYLINDER	20-757		626	SCH
2	EA	FLUSH PULL	BY DOOR/FRAME MANUFACTURER			B/O
2	EA	OH STOP	100S		630	GLY
1	EA	SURFACE CLOSER	4021 MC		689	LCN
1	EA	SURF. AUTO OPERATOR	4642		689	LCN
1	EA	TJ MOUNTING PLATE	4020-18G (AS REQ'D)		689	LCN
1	EA	ACTUATOR BUTTON	8310-853T		630	LCN
1	EA	ACT. MOUNT BOX	8310-867S			LCN
1	EA	GASKETING/WEATHERST RIPPING	BY DOOR/FRAME MANUFACTURER			B/O
1	EA	CARD READER/ACCESS CONTROL	BY SECURITY CONTRACTOR			B/O
1	EA	DESK MOUNT BUTTON	660-PB (AT RECEPTION DESK)		628	SCE
2	EA	DOOR CONTACT	679-05 (HM/WD AS REQ'D)		BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS		LGR	SCE

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER OR DESK MOUNTED PUSH BUTTON MOMENTARILY RETRACTS LATCH ALLOWING ENTRY. OPENING EQUIPPED WITH AUTOMATIC OPERATOR. PRESSING EITHER ENABLED ACTUATOR WILL TEMPORARILY OPEN DOOR ALLOWING ACCESS. EXTERIOR ACTUATOR ENABLED WITH CARD ACCESS OR HEAD-END ACCESS CONTROL SYSTEM. FREE EGRESS AT ALL TIMES.

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Hardware Group No. 12

For use on Door #(s):

B115B

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINIS	MFR
					H	
2	EA	CONT. HINGE	112XY TWP CON		628	IVE
1	EA	FIXED MULLION	BY DOOR/FRAME MANUFACTURER			B/O
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-EO		626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-NL-OP-110MD		626	VON
1	EA	PRIMUS RIM CYLINDER	20-757		626	SCH
2	EA	FLUSH PULL	BY DOOR/FRAME MANUFACTURER			B/O
2	EA	OH STOP	100S		630	GLY
1	EA	SURFACE CLOSER	4021 MC		689	LCN
1	EA	SURF. AUTO OPERATOR	4642		689	LCN
1	EA	TJ MOUNTING PLATE	4020-18G (AS REQ'D)		689	LCN
1	EA	WEATHER RING	8310-801			LCN
1	EA	ACTUATOR BUTTON	8310-853T		630	LCN
1	EA	DUAL ACTUATOR BUTTON	8310-855		630	LCN
2	EA	ACT. MOUNT BOX	8310-867S			LCN
1	EA	GASKETING/WEATHERST RIPPING	BY DOOR/FRAME MANUFACTURER			B/O
2	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	654A-V3-223		A	ZER
1	EA	CARD READER/ACCESS CONTROL	BY SECURITY CONTRACTOR			B/O
2	EA	DOOR CONTACT	679-05 (HM/WD AS REQ'D)		BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS		LGR	SCE

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER OR DESK MOUNTED PUSH BUTTON MOMENTARILY RETRACTS LATCH ALLOWING ENTRY. OPENING EQUIPPED WITH AUTOMATIC OPERATOR. PRESSING EITHER ENABLED ACTUATOR WILL TEMPORARILY OPEN DOOR ALLOWING ACCESS. EXTERIOR ACTUATOR ENABLED WITH CARD ACCESS OR HEAD-END ACCESS CONTROL SYSTEM. FREE EGRESS AT ALL TIMES.

MACOMB COUNTY
 COUNTY WAREHOUSE - F & O and
 PURCHASING OFFICES RENOVATION

242053









OCTOBER 31, 2024

Hardware Group No. 13

For use on Door #(s):

A111A A111B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINIS	MFR
					H	
1	EA	CONT. HINGE	224XY TWP CON	 ⚡	628	IVE
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-L-03	 ⚡	626	VON
1	EA	PRIMUS RIM CYLINDER	20-757		626	SCH
1	EA	SURFACE CLOSER	4111 CUSH MC		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER
1	EA	CARD READER/ACCESS CONTROL	BY SECURITY CONTRACTOR	⚡		B/O
1	EA	DOOR CONTACT	679-05 (HM/WD AS REQ'D)	 ⚡	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS	 ⚡	LGR	SCE

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER MOMENTARILY RETRACTS LATCH ALLOWING ENTRY. FREE EGRESS AT ALL TIMES.

END OF SECTION