REV #2 - 10/04/23

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes the following:
 - 1. Commercial door hardware.
 - 2. Cylinders for doors specified in other Sections.
 - 3. Electrified door hardware.

1.2 ACTION SUBMITTALS

- A. Product Data: For each product indicated.
- B. Shop Drawings: Include details of electrified door hardware and wiring diagrams.
- C. Samples: For each exposed finish.
- D. Door Hardware Schedule: Organized into door hardware sets indicating type, style, function, size, label, hand, manufacturer, fasteners, location, and finish of each door hardware item. Include description of each electrified door hardware function, including sequence of operation.
- E. Templates: Submit template information for finish hardware to suppliers of aluminum entrances, hollow metal and wood doors for production after hardware schedule approval.
- F. Keying Schedule: Detail Owner's final keying instructions for locks, per WoodSpring Suites construction bulletin.

1.3 CLOSEOUT SUBMITTALS

A. Product certificates.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: Person who is or employs a qualified DHI Architectural Hardware Consultant.
- B. Source Limitations: Refer to Door Hardware Schedule.

- C. Keying Conference: Conduct conference at Project site. Incorporate keying conference decisions into final keying schedule.
- D. Templates: Obtain and distribute templates for doors, frames, and other work specified to be factory prepared for installing door hardware.

1.5 DELIVERY, STORAGE AND HANDLING.

- A. Marking and Packaging: Hardware delivered in original packaging and marked by architectural door opening number according to approve hardware schedule to identify correct location.
- B. Delivery: Hardware supplier will deliver finish hardware to job site in a timely manner per job completion schedule. Inventory and verify all hardware per approved door hardware schedule. Supply any material not accounted for.
- C. Storage: Store hardware in a locked on-site location to ensure protection of material and finish. Hardware to be stored on shelves off floor & grouped by hardware type in clean, dry & secure area.

1.6 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 warranty period.
 - 1. Warranty Period for Electromagnetic and Delayed Egress Locks: Five years from date of Substantial Completion.
 - 2. Warranty Period for Exit Devices: Three years from date of Substantial Completion.
 - 3. Warranty Period for Lock sets: Lifetime from date of Substantial Completion.
 - 4. Warranty Period for Door Accessories: One year from date of Substantial Completion.
 - 5. Warranty Period for Closers: Lifetime from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Product: Subject to compliance with requirements, provide the product named for each door hardware item indicated in Door Hardware Sets.

1.

For this project the following products only will be considered. Specified items listed in sets. Equals are as follows:

a.	Butts Pivots	Hager (EC, ECBB, RC)
b.	Closers	Hager (5400 Series, 5300 Series)
C.	Locks (Common)	Hager (2500 Series)
d.	Locksets (Guestrooms)	Onity (HT RFID), Kaba (Ilco 790 RFID or
		Saflok RT RFID)
e.	Panics	Hager (4700 Series)
f.	Stops	Hager (236) or
g.	Push-pull, Kicks	Hager (214)
h.	Weather Stripping	Hager (891, 726)
i.	Door Sweeps	Hager (770)
j.	Thresholds	Hager (412)
k.	Mag. Locks/controls	Hager (380)
l.	Card Readers	Onity, Kaba
m.	Viewers/Door Guard	Hager (130)
n.	Exterior closers @	LCN – NO SUBSTITUTION
	set #3 and 4	
0.	Continuous Hinges	Roton – NO SUBSTITUTION
p.	Overhead Stops	Glynn-Johnson – NO SUBSTITUTION

B. Provide RFID Electronic lock and key system from either Onity (Contact Mark Lewitt 864-621-1546) or Kaba (Contact Jules Dana 817-421-4270)

PRODUCT SPECIFICATIONS Manufacturer/Supplier: ONITY

Lock Model: HT RFID Finish: Satin Chrome 626

Front Desk System: OnPoint RFID

Manufacturer/Supplier: KABA ILCO

Lock Model: ILCO 790 RFID

Finish: Satin Chrome

Front Desk System: Next Gen FDU

Manufacturer/Supplier: KABA SAFLOK

Lock Model: SAFLOK RT RFID

Finish: Satin Chrome

Front Desk System: SAFLOK 6000

2.2 KEYING

A. All keying shall be accomplished per Owner Requirements per the below Project Keying Legend.

Projec	t Keying Legend			Mech	Master A nanical AA eeping AB evator AC	
Door	Opening Location	HW	Lock Information	Type	Master	Stamped
ID		Set	(Manufacturer/Part		Keying	Key ID
			Description)			
135A	Exterior from	001	HA \ 3902 US26D (3902)	Double	NONE	NONE
	Vestibule			Keyed		
4050	N/ (*) 1 // 11 /	005	HA / 0000 H000D (0000	Cylinder	NONE	NONE
135B & 146	Vestibule/Lobby to Corridor	005	HA \ 3902 US26D (3902	RFID	NONE	NONE
139	Corridor to	007	HA \ 2553 US26D WTN (2553)	Entry	AB	B139
	Restroom			Lock		
140	Exterior from	002	HA \ 2580 US26D WTN (2580)	Storeroom	AA	A140
444	Mechanical	4.5	114 \ 0550 11000D \A/TN (0550)	Lock	A A	0.4.4.4
141	Staff Laundry from	15	HA \ 2553 US26D WTN (2553)	Entry Lock	AA	A141
137B	Dryer AHU Access	015A	HA \ 2553 US26D WTN (2553)	Entry	AA	1372
1376	AITO ACCESS	UISA	TIA (2000 0020D WTN (2000)	Lock		1372
142B	Guest Laundry from	015A	HA \ 2553 US26D WTN (2553)	Entry	AA	A1422
	AHU		,	Lock		
142C	Guest Laundry from	15	HA \ 2553 US26D WTN (2553)	Entry	AA	A1421
	Closet			Lock		
143B	Staff Laundry from	15	HA \ 2553 US26D WTN (2553)	Entry	AA	A143
	FCU-1	_		Lock		
144	Exterior from	2	HA \ 2580 US26D WTN (2580)	Storeroom	AA	A144
4.45.0	Storage		114 / 0500 11000D W/TN (0500)	Lock	40	04454
145A	Exterior from Electrical	2	HA \ 2580 US26D WTN (2580)	Storeroom Lock	AC	C1451
240B	Mechanical	8	HA \ 2580 US26D WTN (2580)	Storeroom	AA	A240
2400	Platform from	0	TIA (2000 0020D WITH (2000)	Lock	~~	A240
	Supplemental Utility			LOOK		

- B. All lock cylinders are to be grand master keyed. All locks and cylinders shall be supplied with a visual key control system. All keys shall be stamped per key schedule.
 - 1. Furnish two (2) change keys for each lockset and a total of six (6) master keys, (6) grand master keys, (10) construction keys.
- C. All locks to be construction keyed, employing "lost ball" method. All permanent grand master and master keys and permanent day keys will be turned over to the owner prior to substantial completion.
- D. Provide and comply with ANSI 7.1.4.27 (hazard warnings).

E. Provide and comply with ANSI a117.1,4.13 (handicap access).

2.3 DOOR HARDWARE

- A. Scheduled Door Hardware: Provide door hardware according to Door Hardware Sets at the end of Part 3. Manufacturers' names are abbreviated.
- B. All materials can be procured from the following WoodSpring Suites preferred vendors:

American Direct Procurement 11000 Lakeview Avenue Lenexa, KS 66219 (913) 677-5588

Attn: Jerry Pennington

Email: <u>JerryP@AmericanDirectCo.com</u>

Paragon Distribution, LLC 1841-A West Oak Pkwy Marietta, GA 30062 (770)-795-9564

Attn: Nick Batrouney

Email: Nick@discoverparagon.com

2.4 FABRICATION

- A. Base Metals: Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18 for finishes. Do not furnish manufacturer's standard materials if different from specified standard.
- B. Fasteners: Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated. Provide steel machine or wood screws or steel through bolts for fire-rated applications.
- C. Spacers or Sex Bolts: For through bolting of hollow metal doors.
- D. Fasteners for Wood Doors: Comply with requirements of DHI WDHS.2, "Recommended Fasteners for Wood Doors."
- E. Finishes: Comply with BHMA A156.18.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Examine doors and frames for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- B. Steel Door and Frame Preparation: Comply with DHI A115 series. Drill and tap doors and frames for surface-applied hardware according to SDI 107.
- C. Wood Door Preparation: Comply with DHI A115-W series.
- D. Mounting Heights: Comply with the following requirements, unless otherwise indicated:
 - 1. DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. DHI's "Recommended Locations for Builders' Hardware for Custom Steel Doors and Frames."
 - 3. DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- E. Adjust and reinforce attachment substrates as necessary for proper installation and operation. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
 - .1. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings. Verify location with Architect.
 - 2. Thresholds: Set thresholds for exterior in full bed of sealant. Complying with other requirements specified in Division 07 Section "Joint Sealants."
- F. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with accessibility requirements.
 - 1. Door Closers: Adjust sweep period so that from an open position of 70 degrees, the door will take at least three seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.

3.2 DOOR HARDWARE SETS:

See HARDWARE SCHEDULE that follows this Section.

END OF SECTION 087100

HARDWARE SCHEDULE BY OPENING TYPE

Qty	Mfr.	Hardware Set Description
	Hardware Set #001	ALD X ALF EXTERIOR-VESTIBULE - #135A
1		DOUBLE TUMBLER LOCKSET
2		CLOSERS
1	PEMKO	200SAT THRESHOLD
		ALL OTHER HARDWARE BY ALUMINUM DOOR SUPPLIER
	Hardware Set #002	3/6-6/8 HMD X HMF EXT-MECH - #140, EXT-STOR #144, <u>EXT-ELECT #145A</u>
1	ROTON	780-224HD - ALUM
1	FALCON	W581PD6 DANE 2 3/4" US26D KD ASA STOREROOM
1	DOM	SC81 REG W/PA ALUM CLOSER
1	PEMKO	303AV 42" X 80" WEATHER-STRIP
3	ROCKWOOD	307D METAL DOOR SILENCERS
1	PEMKO	3452AV 42" SWEEP
1	PEMKO	171A X 42" THRESHOLD
	Hardware Set #003	3/0-6/8 HMD X HMF EXTERIOR-STAIRS - #150A, 152A
1	ROTON	780-224HD ALUM
1	LCN	4040XP – Rw/PA ALUM
1	PEMKO	303AV 36" X 80" WEATHER-STRIP
3	ROCKWOOD	307D METAL DOOR SILENCERS
1	PEMKO	3452AV 36" SWEEP
1	PEMKO	171A X 36" THRESHOLD
1	ONITY	KHA3T-RS2-626-B
1	ROCKWOOD	BLACK LEXAN 34" X 34" KICKPLATE
		□ Add 24" black kickplate at 1 st floor ext to stair doors
1	GLYNN JOHN	104S OVERHEAD STOP
1	HAGER	3817-ESCUTCHEON-WTN LEVER 32D LEVER PULL
	Hardware Set #004	ALD X ALF EXTERIOR-HALL - #136
1	ONITY	KHA3T-SA4-626-B
1 1	PEMKO	CLOSURE 2006AT THRESHOLD
ı	FEIVINU	
		ALL OTHER HARDWARE BY ALUMINUM DOOR SUPPLIER

WoodSpring Suites 1010 NW Ward Road Lee's Summit, MO 64086

	Hardware Set #005	ALD X ALF VESTIBULE, LOBBY-CORRIDOR - #135B, 146 ALL OTHER HARDWARE BY ALUMINUM DOOR SUPPLIER	
1 2	ONITY	KHA3T-AP1-626-B CLOSURES	
3	Hardware Set #007	3/0-6/8 WD X TMF CORR-RESTROOM - #139 5BB1 4.5 X 4.5 US26D STD WT	
1	FALCON	SC91 REG W/PA ALUM CLOSER	
1	FALCON	W511PD6 DANE 2 3/4" US26D OFFICE	
1	ROCKWOOD	409 US26D WALL STOP	
1	PEMKO	S88D X 204" GASKET DARK BROWN	
	Hardware Set #008	3/0-6/8 HMD X TMF CORR TO UTILITY - 240A, 240B, 340, 440	
3	IVES	5BB1 4.5 X 4.5 US26D STD WT	
1	FALCON	SC91 REG W/PA ALUM CLOSER	
1	ROCKWOOD	409 US26D WALL STOP	
1	PEMKO	S88D X 204" GASKET DARK BROWN	
1	FALCON	W581PD6 DANE US26D	
1	ROCKWOOD	BLACK LEXAN 24" X 34" KICKPLATE	
		Kickplates and Onity locks not needed at 240B Door 3/0-3/0.	
1	ONITY	KHH3-L-626	
1	HAGER	412S MIL 36" SADDLE THRESHOLD	
1	HAGER	770S-MIL 36" DOOR BOTTOM SWEEP	
		Threshold and door sweep are only required at door 240B.	
	Hardware Set #009	3/0-6/8 HMD X TMF CORRIDOR-STAIRS - #150B, 152B, 250, 252, 350, 352, 450, 452	
3	IVES	5BB1 4.5 X 4.5 US26D	
1	FALCON	F-24-R-L-BE RIM SP28 36"	
1	DOM	SC81 REG W/PA ALUM CLOSER	
1	ROCKWOOD	409 US26D WALL STOP	
1	PEMKO	S88D X 204" GASKET DARK BROWN	
1	ROCKWOOD	BLACK LEXAN 34" X 34" KICKPLATE	
1	NGP	513 SADDLE THRESHOLD 5" X 1/4"- MILL ALUM	

1

1

1

ROCKWOOD

PEMKO

	Hardware Set #010	3/0-6/8 WD X TMF TRAINING, STAFF LDRY - 143C 148A
2	IVES	3SP1 4.5 X 4.5 US26D SPRING HINGE
1	IVES	5BB1 4.5 X 4.5 US26D STD WT
1	ROCKWOOD	409 US26D WALL STOP
1	PEMKO	S88D X 204" GASKET DARK BROWN
1	ONITY	KHH3-L-626
	Hardware Set #011	3/6-6/8 HMD X TMF CORR-STAFF LDRY - #143A
3	IVES	5BB1 4.5 X 4.5 US26D STD WT
1	FALCON	SC91 REG W/PA ALUM CLOSER
1	ROCKWOOD	409 US26D WALL STOP
1	PEMKO	S88D X 216" GASKET DARK BROWN
1	ROCKWOOD	BLACK LEXAN 34" X 40" KICKPLATE
1	ONITY	KHH3-L-626
		3/0-6/8 WD X TMF CORR-GUEST LDRY #142A, FITNESS #147
1	FALCON	SC91 REG W/PA ALUM CLOSER
3	FALCON IVES	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT
	FALCON	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT
3	FALCON IVES	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT
3 1	FALCON IVES ROCKWOOD	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT 409 US26D WALL STOP
3 1 1	FALCON IVES ROCKWOOD PEMKO	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT 409 US26D WALL STOP S88D X 204" GASKET DARK BROWN
3 1 1 1	FALCON IVES ROCKWOOD PEMKO ROCKWOOD ONITY	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT 409 US26D WALL STOP S88D X 204" GASKET DARK BROWN BLACK LEXAN 34" X 34" KICKPLATE KHH3-L-626
3 1 1 1	FALCON IVES ROCKWOOD PEMKO ROCKWOOD ONITY Hardware Set #013	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT 409 US26D WALL STOP S88D X 204" GASKET DARK BROWN BLACK LEXAN 34" X 34" KICKPLATE KHH3-L-626 3/0-6/8 WD X TMF CORR-SUITES – Door "A"
3 1 1 1 1 3	FALCON IVES ROCKWOOD PEMKO ROCKWOOD ONITY Hardware Set #013 IVES	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT 409 US26D WALL STOP S88D X 204" GASKET DARK BROWN BLACK LEXAN 34" X 34" KICKPLATE KHH3-L-626 3/0-6/8 WD X TMF CORR-SUITES – Door "A" 5BB1 4.5 X 4.5 US26D STD WT
3 1 1 1	FALCON IVES ROCKWOOD PEMKO ROCKWOOD ONITY Hardware Set #013 IVES FALCON	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT 409 US26D WALL STOP S88D X 204" GASKET DARK BROWN BLACK LEXAN 34" X 34" KICKPLATE KHH3-L-626 3/0-6/8 WD X TMF CORR-SUITES – Door "A" 5BB1 4.5 X 4.5 US26D STD WT SC91 REG W/PA ALUM CLOSER
3 1 1 1 1 3	FALCON IVES ROCKWOOD PEMKO ROCKWOOD ONITY Hardware Set #013 IVES	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT 409 US26D WALL STOP S88D X 204" GASKET DARK BROWN BLACK LEXAN 34" X 34" KICKPLATE KHH3-L-626 3/0-6/8 WD X TMF CORR-SUITES – Door "A" 5BB1 4.5 X 4.5 US26D STD WT
3 1 1 1 1 3 1	FALCON IVES ROCKWOOD PEMKO ROCKWOOD ONITY Hardware Set #013 IVES FALCON	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT 409 US26D WALL STOP S88D X 204" GASKET DARK BROWN BLACK LEXAN 34" X 34" KICKPLATE KHH3-L-626 3/0-6/8 WD X TMF CORR-SUITES – Door "A" 5BB1 4.5 X 4.5 US26D STD WT SC91 REG W/PA ALUM CLOSER
3 1 1 1 1 3 1	FALCON IVES ROCKWOOD PEMKO ROCKWOOD ONITY Hardware Set #013 IVES FALCON ROCKWOOD	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT 409 US26D WALL STOP S88D X 204" GASKET DARK BROWN BLACK LEXAN 34" X 34" KICKPLATE KHH3-L-626 3/0-6/8 WD X TMF CORR-SUITES – Door "A" 5BB1 4.5 X 4.5 US26D STD WT SC91 REG W/PA ALUM CLOSER 474 US26D DOOR STOP
3 1 1 1 1 3 1 1	FALCON IVES ROCKWOOD PEMKO ROCKWOOD ONITY Hardware Set #013 IVES FALCON ROCKWOOD PEMKO	SC91 REG W/PA ALUM CLOSER 5BB1 4.5 X 4.5 US26D STD WT 409 US26D WALL STOP S88D X 204" GASKET DARK BROWN BLACK LEXAN 34" X 34" KICKPLATE KHH3-L-626 3/0-6/8 WD X TMF CORR-SUITES – Door "A" 5BB1 4.5 X 4.5 US26D STD WT SC91 REG W/PA ALUM CLOSER 474 US26D DOOR STOP S88D X 204" GASKET DARK BROWN

DOOR HARDWARE 087100 - 9

603 SHIM DOOR GUARD SHIM

CARD READER 18062CNB X 36"

Hardware Set #014 IVES FALCON ROCKWOOD HAGER ROCKWOOD PEMKO ROCKWOOD PEMKO	3/0-6/8 WD X TMF CORR-SUITES-HDCAP – Door "A" 5BB1 4.5 X 4.5 US26D STD WT SC91 REG W/PA ALUM CLOSER 409 US26D WALL STOP S88D X 204" GASKET DARK BROWN 620 CHROME DOOR VIEWER US26D PRIVACY DOOR LATCH (No substitutions) 603 SHIM DOOR GUARD SHIM 18062CNB X 36"
	CARD READER
Hardware Set #015/15A	2/0-6/8 or 2/6-6/8 HMD X TMF - #137B, 141, 142B, 142C, 143B, 154
IVES	5PB1 4.5 X 4.5 US26D STD WT PLAIN BEARING
	W511PD6 DANE 2 3/4" US26D KD ASA ENTRANCE
ROCKWOOD	409 US26D WALL STOP
Hardware Set #016	3/0-6/8 WD X TMF SUITES-BATHROOM – Door "B"
IVES	EC1100 4.5 X 4.5 US26D
FALCON	W301S DANE 2 3/8" US26D ASA PRIVACY
ROCKWOOD	474 US26D DOOR STOP
	DOOR SILENCERS SUPPLIED BY FRAME SUPPLIER
Hardwara Sat #021	2/6 7/0 HMD V TME ELEVATOR DOOR #244 244 444
	3/6-7/0 HMD X TMF ELEVATOR DOOR - #241, 341, 441 5BB1 4.5 X 4.5 US26D
	99L-F-BE US26D DUMMY KNOB
	19-R-EO SP28 4FT
	DOOR SILENCERS SUPPLIED BY FRAME SUPPLIER
RIXON	FM998 689 WALL MAGNET
PEMKO	S773D – GASKET DARK BROWN
	WALL MAGNET TO BE TIED INTO FIRE ALARM SYSTEM
Hardware Set #022	3/0-6/8 HMD X TMF ELEC ROOM - #145
	780-224HD – ALUM
	F-24-R-L w/Cylinder – RIM-SP28
FALCON	SC91 REG W/PA ALUM CLOSER
PEMKO	303 AV 42" X 80" WEATHER STIP
ROCKWOOD	307D METAL DOOR SILENCERS
PEMKO	3452AV 42" SWEEP
PEMKO	171A X 42" THRESHOLD
	IVES FALCON ROCKWOOD HAGER ROCKWOOD PEMKO ROCKWOOD PEMKO Hardware Set #015/15A IVES FALCON ROCKWOOD Hardware Set #016 IVES FALCON ROCKWOOD Hardware Set #021 IVES SARGENT FALCON FALCON RIXON PEMKO Hardware Set #022 ROTON FALCON FALCON PALCON FALCON PEMKO ROCKWOOD PEMKO ROCKWOOD PEMKO