Part 1 General

1.1 SECTION INCLUDES

- .1 Hardware for hollow steel, aluminum doors.
- .2 Thresholds.
- .3 Weatherstripping, seals, and door gaskets.

1.2 RELATED SECTIONS

.1 Section 08 11 00 - Metal Doors and Frames.

1.3 REFERENCES

- .1 AWI/AWMAC Quality Standards Illustrated (QSI), current edition.
- .2 BHMA (Builders Hardware Manufacturers Association) A156 series.
- .3 CSDFMA (Canadian Steel Door and Frame Manufacturers Association).
- .4 DHI (Door Hardware Institute) A115 series.
- .5 DHI (Door Hardware Institute) WDHS.3 Hardware Locations for Wood Flush Doors.
- .6 NFPA 252 Fire Tests of Door Assemblies.
- .7 UL 10B Fire Tests of Door Assemblies.

1.4 SUBMITTALS FOR REVIEW

- .1 Section 01 33 00: Submission procedures.
- .2 Shop Drawings:
 - .1 Indicate locations and mounting heights of each type of hardware, schedules, catalogue cuts, electrical characteristics and connection requirements.
 - .2 Submit manufacturer's parts lists, and templates.

1.5 SUBMITTALS AT PROJECT CLOSEOUT

- .1 Section 01 78 10: Submission procedures.
- .2 Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
- .3 Keys: Deliver with identifying tags to City by security shipment direct from hardware supplier.

1.6 QUALITY ASSURANCE

.1 Hardware Supplier Qualifications: Company specializing in supplying approved by manufacturers.

1.7 DELIVERY, STORAGE, AND PROTECTION

.1 Package hardware items individually; label and identify each package with door opening code to match hardware schedule.

1.8 PROJECT CONDITIONS

- .1 Coordinate the work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware and recessed items.
- .2 Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.
- .3 Coordinate City's keying requirements during the course of the Work.

1.9 MAINTENANCE PRODUCTS

- .1 Provide special wrenches and tools applicable to each different or special hardware component.
- .2 Provide maintenance tools and accessories supplied by hardware component manufacturer.

Part 2 Products

2.1 MANUFACTURERS

- .1 Refer to hardware schedule listed at the end of this specification section.
- .2 Automatic Door Operators:
 - .1 Acceptable Manufacturers: Horton Automatics: 7900 series.

2.2 DOOR HARDWARE

.1 Butts; Provide 1 - ½ pair for all doors, except doors over 900 m wide or over 2200 mm high are to have 2 pair.

2.3 KEYING

.1 Door Locks: Keyed to existing building.

2.4 FINISHES

.1 Finishes: Identified in Schedule at end of section.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify that doors and frames are ready to receive work and dimensions are as instructed by the manufacturer.
- .2 Verify that electric power is available to power operated devices and is of the correct characteristics.

3.2 INSTALLATION

- .1 Install hardware in accordance with manufacturer's instructions.
- .2 Use templates provided by hardware item manufacturer.
- .3 Mounting heights for hardware from finished floor to centre line of hardware item:
 - .1 Locksets: 40 5/16" inch.
 - .2 Push/Pulls: 42 inch.
 - .3 Dead Locks: 47 1/4 inch.
 - .4 Exit Devices: 39 13/16 inch.
 - .5 All other door operating devices to be mounted as per DHI A115 Series, except maximum height to be limited to 43 5/16 inch.

3.3 ADJUSTING

.1 Adjust hardware for smooth operation.

3.4 PROTECTION OF FINISHED WORK

.1 Do not permit adjacent work to damage hardware or finish.

3.5 SCHEDULES

.1 Door Hardware Group No.1

For use on door #(s):

B01A		B01B	B05A	B05B		
3	EA	HW HINGE		3CB1HW 114 X 114 NRP	652	IVE
1	EA	CLASSROOM D.BOL	Г	B663P	626	SCH
1	EA	PUSH PLATE		8200 205MM X 405MM	630	IVE
1	EA	PULL PLATE		8303 255MM 150MM X 405MM	630	IVE
1	EA	OH STOP		90S	630	GLY
1	EA	SURFACE CLOSER		4040XP EDA ST-2731	689	LCN
1	EA	KICK PLATE		8400 254MM X 40MM LDW	630	IVE
3	EA	SILENCER		SR64	GRY	IVE

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.2 Door Hardware Group No.2

For use on door #(s):

B02

3	EA	HINGE	3CB1 114 X 102	652	IVE
1	EA	STOREROOM LOCK	ND80PD RHO	626	SCH
1	EA	SURFACE CLOSER	1461	689	LCN
1	EA	KICK PLATE	8400 254MM X 40MM LDW	630	IVE
1	EA	FLOOR STOP	FS434	604	IVE
3	EA	SILENCER	SR64	GRY	IVE

.3 Door Hardware Group No.3

For use on door #(s):

B07		B08			
3	EA	HW HINGE	3CB1HW 114 X 114	652	IVE
1	EA	FIRE EXIT HARDWARE	98-L-BE-F-06	626	VON
1	EA	SURFACE CLOSER	4040XP	689	LCN
1	EA	KICK PLATE	8400 254MM X 40MM LDW	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	SET	WEATHERSTRIP	W-21	BLK	KNC
1	EA	DOOR BOTTOM	CT-54 36" W/SHIM	627	KNC

.4 Door Hardware Group No.4

For use on door #(s):

105		111	B06	B01C		
3	EA	HINGE		3CB1 114 X 102	652	IVE
1	EA	STOREROOM LOCK		ND80PD RHO	626	SCH
1	EA	SURFACE CLOSER		1461	689	LCN
1	EA	KICK PLATE		8400 254MM X 40MM LDW	630	IVE
1	EA	FLOOR STOP		FS434	604	IVE
3	EA	SILENCER		SR64	GRY	IVE

.5 Door Hardware Group No.5

For use on door #(s):

112A

3 1 1	EA EA EA	HW HINGE STOREROOM LOCK ELECTRIC STRIKE	3CB1HW 127 X 114 NRP ND80PD RHO 6211 FSE CON	652 626 630	IVE SCH VON
1	EA	AUTO OPERATOR	9542 MS	ANCLR	LCN
1	EA	ACTUATOR, WALL MT	8310-836T	630	LCN
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	SET	WEATHERSTRIP	W-21	BLK	KNC
1	EA	DOOR BOTTOM	CT-54 36" W/SHIM	627	KNC
1	EA	FLUSH MT KEYPAD	KP2000E		SCE
1	EA	DOOR CONTACT	679-05HM	BLK	SCE

Operational Description

Electric strike is released when power is applied (Fail Secure). With Connector

Access by Keypad Exterior or key - Auto Operator operable at all times by Actuator Interior, and upon valid code at exterior keypad.

.6 Door Hardware Group No.6

For use on door #(s):

101					
6	EA	HW HINGE	3CB1HW 127 X 114 NRP	626	IVE
1	EA	REMOVABLE MULLION	4854	689	VON
2	EA	PANIC HARDWARE	98-TP	626	VON
2	EA	RIM CYLINDER	20-021 EV C	626	SCH
1	EA	ELECTRIC STRIKE	6111 FSE CON	630	VON
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA ST-2731	689	LCN
1	EA	AUTO OPERATOR	9542 MS	ANCLR	LCN
2	EA	ACTUATOR, WALL MT	8310-836T	630	LCN
2	EA	KICK PLATE	8400 254MM X 40MM LDW	630	IVE
2	EA	HEAD SEAL	W-20N TO SUIT DOOR WIDTH	627	KNC
2	SET	WEATHERSTRIP	W-49 2 pcs - To Suit Door Height	627	KNC
2	EA	DOOR SWEEP	W-13S 48"	628	KNC
1	EA	THRESHOLD	CT-45 To Suit Door Width	627	KNC

Operational Description

Free Egress at all times. Pressing Push Bar retracts latchbolts. Latchbolt retracted by thumbpiece unless locked by key. Key locks and unlocks thumbpiece. Dogging by hex key, locks down the pushbar or crossbar so the latchbolt remains retracted. Self-Closing.

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.7 Door Hardware Group No.7
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For use on door #(s):

104A

3	EA	HINGE	3CB1 114 X 102	652	IVE
1	EA	CLASSROOM D.BOLT	B663P	626	SCH
1	SET	PULL PLATE	PR 8303 255MM 150MM X 405MM J-N	630	IVE
1	EA	AUTO OPERATOR	9542 MS	ANCLR	LCN
2	EA	ACTUATOR, WALL MT	8310-836T	630	LCN
1	EA	KICK PLATE	8400 254MM X 40MM LDW	630	IVE
1	EA	FLOOR STOP	FS434	604	IVE
1	SET	WEATHERSTRIP	W-21	BLK	KNC
1	EA	DOOR BOTTOM	CT-54 36" W/SHIM	627	KNC
1	EA	KEYSWITCH	653-04 CYL	630	SCE

.8 Door Hardware Group No.8

For use on door #(s):

3	EA	HW HINGE	3CB1HW 127 X 114 NRP	626	IVE
1	EA	PANIC HARDWARE	98-TP	626	VON
1	EA	RIM CYLINDER	20-021 EV C	626	SCH
1	EA	ELECTRIC STRIKE	6111 FSE CON	630	VON
1	EA	AUTO OPERATOR	9542 MS	ANCLR	LCN
2	EA	ACTUATOR, WALL MT	8310-836T	630	LCN
1	EA	KICK PLATE	8400 254MM X 40MM LDW	630	IVE
1	EA	HEAD SEAL	W-20N TO SUIT DOOR WIDTH	627	KNC
1	SET	WEATHERSTRIP	W-49 2 pcs - To Suit Door Height	627	KNC
1	EA	DOOR SWEEP	W-13S 48"	628	KNC
1	EA	THRESHOLD	CT-45 To Suit Door Width	627	KNC
1	EA	KEYSWITCH	653-04 CYL	630	SCE

Operational Description

Free Egress at all times. Pressing Push Bar retracts latchbolts. Latchbolt retracted by thumbpiece unless locked by key. Key locks and unlocks thumbpiece. Dogging by hex key, locks down the pushbar or crossbar so the latchbolt remains retracted. Keyswitch to control.

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.9 Door Hardware Group No.9

For us 104B	e on dooi	r #(s): 107	108			
104D		107	100			
3	EA	HW HINGE		3CB1HW 114 X 114 NRP	626	IVE
1	EA	PANIC HARDWARE		98-EO	626	VON
1	EA	OH STOP		90S	630	GLY
1	EA	SURFACE CLOSER		4040XP EDA ST-2731	689	LCN
1	EA	KICK PLATE		8400 254MM X 40MM LDW	630	IVE
1	EA	HEAD SEAL		W-20N TO SUIT DOOR WIDTH	627	KNC
1	SET	WEATHERSTRIP		W-49 2 pcs - To Suit Door Height	627	KNC
1	EA	DOOR SWEEP		W-13S 36"	628	KNC
1	EA	THRESHOLD		CT-45 To Suit Door Width	627	KNC

.10 Door Hardware Group No.10

For use on door #(s):

110		114			
3	EA	HINGE	3CB1 114 X 102	652	IVE
1	EA	PRIVACY LOCK	ND40S RHO	626	SCH
1	EA	SURFACE CLOSER	1461	689	LCN
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	WALL STOP	WS406/407CCV	630	Ι

.11 Door Hardware Group No.10R

For use on door #(s):

1	1	3R

3	EA	HINGE	3CB1 114 X 102	652	IVE
1	EA	CYL X TURN D. LOCK	L9460P 06A L583-363 XL11-886 x 09-611	626	SCH
1	EA	AUTO OPERATOR	4642	689	LCN
2	EA	ACTUATOR, WALL MT	8310-836T	630	LCN
2	EA	ESCUTCHEON	8310-874	689	LCN
1	EA	KICK PLATE	8400 254MM X 40MM LDW	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	LATCH MONITOR	LML-2		SEC

Operational Description

Inside lever retracts deadbolt. Outside lever is fixed, c/w ADA Thumbturn. Deadbolt thrown will indicate "Occupied" and actuators are shunted. Auto Operator Automatically Opens & Closes Door.

.12 Door Hardware Group No.11

For use on door #(s):								
101B	102	103A	103B	109A				
109B	109C	115						

EXISTING DOOR, FRAME AND HARDWARE TO REMAIN

END OF SECTION