

**PART 1 GENERAL**

## 1.1 REFERENCE

- .1 Comply with the General Conditions of the Contract, Supplementary General Conditions and the requirements of Division 1. Refer to Cash Allowance Section 01020.

## 1.2 RELATED WORK SPECIFIED ELSEWHERE

- .1 Installation of Finish Hardware Under Sections 06100, 08100, 08213, 08410.

## 1.3 SCOPE OF WORK INCLUDED

- .1 The Work of this Section will be paid out of a CASH ALLOWANCE. See Section 01020 for amount.
- .2 The Work of this Section includes the supply only of all finish hardware products, the supply and installation of auto door operators noted herein paid out of the CASH ALLOWANCE.

## 1.4 SUBMITTALS

- .1 Submit Schedules and Samples in accordance with Section 01340.
- .2 Hardware Schedule:
  - .1 Prepare and supply a completely itemized hardware schedule for review. Schedule shall list all doors by number ( in sequence ) and location with complete details of the hardware to be supplied, including installation heights and special instructions.
  - .2 This schedule shall incorporate the catalogue numbers of hardware specified and all alternatives which have been accepted.
  - .3 It shall be the responsibility of the successful hardware contractor to examine the plans and schedule to determine the final dimensions, size and quantity of the required hardware items, and ensure that the hardware listed will fit and operate properly. All unsatisfactory conditions shall be reported immediately to the Contractor before commencing work.

.2 Samples:

- .1 Complete samples of hardware items shall be submitted for approval.

1.5 TEMPLATES

- .1 Upon award of the contract, the hardware contractor shall check the schedule of hardware and all applicable drawings and specifications and furnish promptly to the applicable trades all templates and information required for proper preparation and applications of hardware, in ample time to facilitate the progress of the work.

1.6 WARRANTY

- .1 Provide a Warranty as stipulated in the General Conditions, from the date of final completion and acceptance of the Work.
- .1 For an extended period of two [2] years for exit devices, lockets, latchsets.
- .2 For an extended period of five [5] years for door closers, both surface and concealed mount.
- .2 The warranty, whether regular or extended, shall state expressly that all hardware will be replaced on the doors and frames at no cost to the owner in the event of breakage or other defect occurring, wilful damage excluded.

1.7 MAINTENANCE MANUAL

- .1 Provide triplicate set of printed maintenance instructions for inclusion in Data Manual as specified in Division 1.

1.8 QUALIFICATIONS

- .1 Be responsible for the administration and servicing of the hardware contract with suitable qualifications and experience relative to this type of work.

1.9 INSPECTION AND SUPERVISION

- .1 The hardware contractor shall provide a qualified Architectural Hardware Specialist who shall co-operate

with the installer and clarify the location and/or installation methods of particular items.

- .2 The Architectural Hardware Specialist shall make periodic inspections of the hardware installations and report improper or unsatisfactory conditions to the contractor and expedite the replacement or correction of the faulty hardware. Attend Job site Meeting as requested.

#### 1.10 DELIVERY, STORAGE, LABELLING, AND PACKAGING

- .1 Each item shall be clearly itemized and labelled in accordance with the schedule and delivered in the original manufacturer's containers.
- .2 Hardware contractor shall be responsible for arranging delivery time and date to the job site or door manufacturer of all hardware so that all work may progress without delay or interruptions.
- .3 Storage and protection of the hardware is the responsibility of the Contractor.
- .4 All hardware shall be laid out in an organized manner on shelves provided by the contractor in a properly secure hardware room.

#### 1.11 FIRE AND BUILDING CODES

- .1 Installed hardware shall comply with applicable fire and building codes and requirements of local authorities having jurisdiction over doors and hardware.

#### 1.12 CHANGES AND VARIATION ORDERS

- \_\_\_\_.1 The contractor shall provide to the hardware contractor, information of any changes in plans, specifications, details, size, construction, etc., that will affect the installation of the hardware.
- .2 Allow for checking all changes to the work of this section that may be issued and revise the review hardware schedule accordingly. All revisions to the hardware schedule shall be submitted for approval.

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**PART 2 PRODUCTS**

## 2.1 GENERAL REQUIREMENTS

1. All hardware applied to metal doors and frames shall be made to template. Furnish templates and template hardware together with the instructions necessary for door and frame preparation.
2. All hardware shall be supplied complete with necessary screws, bolts or other fastening of suitable size and type to anchor the hardware in position neatly and properly in accordance with the best practices.
3. All fastenings shall harmonize with the hardware as to materials and finishes.
4. Finish on stainless steel items shall be equal to No. 4.

## 2.2 ACCEPTABLE MANUFACTURERS

Hinges: [Butt + pivot]	Stanley, Hager, Monthard.
Locksets: [Mortise Type]	Corbin-Russwin, Schlage, Sargent, Yale.
Exit Devices:	Corbin-Russwin, Von Duprin, Sargent, Yale, Adams Rite.
Door Closers: [Exposed except as noted]	Corbin-Russwin, LCN, Sargent, Dorma, Yale.
Pulls, Push Plates, Kickplates:	CBH, Hager, Ives, Glynn- Johnson, Standard Metal, Gallery
Flush Bolts / Door Stops:	CBH, Hager, Ives, Glynn- Johnson, Standard Metal.
Overhead Stops:	Glynn-Johnson, Sargent, Rixson Firemark.
Thresholds, Weatherstrip, Door Bottoms:	Hager, KN Crowder, KM Thomas, Draftseal, Zero, Pemko.
Aluminium Door Louvres:	KN Crowder or equal.

**PART 3 EXECUTION**

## 3.1 EXAMINATION

- .1 Take field dimensions of Work upon which Work of this Section depends before fabrication. Field adaptation of Work fabricated in error or without field check will not be allowed without Consultant's approval.

## 3.2 INSTALLATION

- .1 Installation is done by Section 06200, 08100, 08213, 08410, to specifications in their respective Sections as well as instructions contained in this Section.

## 3.3 INSTALLATION HEIGHTS AND REQUIREMENTS

- 1. Building standard for all hardware as follows unless noted otherwise in Finish Hardware Schedule:

locksets/latchsets	1000mm to centreline of strike
deadlocks:	865mm to centreline of strike
door pulls & push plates:	1067 mm centreline from fin. floor
push bars:	1000mm centreline from fin. floor
hinges	
top hinges:	190mm down - top door - top/hinge
bottom hinges:	254mm up - finish floor - bot/hinge
intermed. hinges:	equally spaced between T + B
floor stops:	maximum 152mm from lock edge when door is in fully open position
exit devices (alum. doors)	1095mm to centreline of strike
exit devices (hm doors)	1000mm to centreline of strike
kick plates:	maximum 3mm from bottom of door to bottom of kickplate

## 3.4 HINGES

- 1. Install four (4) hinges [2 pair butts] typical for all door locations except provide three (3) hinges [1 1/2 pair butts] where door is 2159mm or less.
- 2. Continuous Hinges - install continuous full height hinge, full mortise continuous hinges at all exterior doors and interior aluminum doors and all doors noted heavy duty.

### 3.5 LOCKS

1. Lockes shall be mortise lever design, Sargent 8200 LNL or equal. Strikes shall be ASA standard size with curved lip strikes for latch bolts and no lip strikes for dead locks. Provide complete with wrought boxes finished to match strike.
2. All locks installed on labelled fire doors and frames shall bear the ULC label.

### 3.6 EXIT DEVICES

1. All exit devices installed on labelled fire doors shall bear the ULC Label.
2. Coordinate exit devices with astragal, coordinators, carry open bars and thresholds for correct operation.

### 3.7 CLOSERS

1. All door closers installed on labelled fire doors and frames shall bear the ULC label.
2. Supply to the owner special closer keys and wrenches as usually packed with doors.
3. Install all necessary attaching brackets, mounting channels, cover plates, etc., where necessary for correct application of door closers.
4. Coordinate closers with overhead holders.

### 3.9 THRESHOLDS

1. Install thresholds exactly as specified in required widths and lengths to suit door openings. The ends of the thresholds shall be cut to follow exactly the door frame profile. All thresholds shall be supplied in aluminum and installed complete with lead shields and stainless steel screws. Installer to caulk threshold base to ensure proper seal.

### 3.10 PUSH PLATES AND KICK PLATES

1. Install stainless steel plates securely with adhesive backed tape.

2. Length of kick plates shall be 38 mm less than the door width for single doors and 19 mm less than the door width for a pair of doors.
3. All stainless steel kick plates shall be 1.28 mm thick and of one manufacturer's product.
4. Engrave pushplates with pictographs as noted in hardware schedule.

#### 3.11 DOOR STOPS

1. Install wall and floor stops exactly as specified.
2. Floor stops shall be installed so as not to create a tripping hazard.
3. All overhead door stop conditions are to be reviewed by the hardware consultant and then approved by the architect.

#### 3.12 WEATHERSTRIPPING

1. Install door seals, door sweeps and astragal exactly as specified.

#### 3.13 AUTOMATIC DROP SEALS

1. Install concealed Automatic Drop Seal in prepared reveal in bottom of door. To be acoustically sealed when down.

#### 3.14 DOOR PUSH PULL HANDLES

1. 1" O.D. polished stainless steel 46" vertical length for exterior and interior door pulls on aluminum doors ( note exit panic hardware is to be installed on some of these doors on the panic exit side of the door - refer to the door/door frame schedule ).
2. Interior horizontal push bar 1" O.D. polished stainless steel on aluminum doors at all other locations.

END OF SECTION

## Finish Hardware Schedule

for

City of Winnipeg  
No. 27 Fire Paramedic Station Project  
Winnipeg Manitoba

Architect:           Murphy & Murphy Architect Inc.  
775 Waterloo Street  
London, Ontario  
phone (519) 433-5161  
fax (519) 433-5163

Schedule by:        **jpw systems inc**  
12 - 22423 Jefferies Road  
Komoka, Ontario N0L 1R0  
phone (519) 474-9797  
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Consultant:         Patrick Ryan

Version 09-22-10



**PART 1**      **GENERAL**

**1.01**      **General Requirements**

- A.      Division 1, General Requirements, is part of this Section and shall apply as if repeated here.

**1.02**      **Scope of Work**

- A.      The hardware supplier shall furnish and deliver to the project all items of architectural finishing hardware specified herein. The hardware supplier shall supply and install all electrical hardware items including, but not limited to, electric exit devices, current transfer devices, auto operators and switches. All items to be installed by 08710 are prefixed with (\*\*) before the product model number. All low voltage terminations shall be completed by the hardware supplier.
- B.      The hardware supplier will be required to provide the Contractor with five sets of riser and schematic wiring diagrams for all electrical hardware systems. Schematic diagrams must be approved by the consultant prior to commencement of any work.
- C.      The hardware supplier shall meet with the Contractor, subcontractors and owner's representatives to instruct and coordinate the supply and installation of all electric hardware components.
- D.      Work performed by other sections and which is related to this section
  - 06200    Finish Carpentry
  - 08100    Metal Doors and Frames
  - 08213    Wood Doors
  - 08410    Aluminum Entrances and Storefront
  - 16000    Electrical General Provisions

**1.03**      **Quality Assurance**

- A.      Supply only hardware as required by jurisdictional codes.
- B.      Supply only ULC or WHI listed hardware for fire rated construction.
- C.      Supply only ULC and/or CSA listed electrical components.

**1.04****Submittals**

- A. Submit samples of each hardware item as requested by the Consultant.
- B. Submit templates to the contractor for use by fabricators and installers.
- C. Submit maintenance, operating, and installation instructions for inclusion into the Project Data Books.
- D. Submit six copies of the finish hardware schedule to the Contractor for review.

**1.05****Warranty**

- A. Provide a warranty as stipulated in the General Conditions, from the date of final completion and acceptance of the work.
  - For an extended period of five (5) years for door closers.

**1.06****Delivery Storage and Handling**

- A. Each item shall be clearly itemized and labeled in accordance with the schedule and delivered in the manufacturer's original cartons.
- B. The hardware supplier shall arrange delivery time and date to the job site or door manufacturer so that all work may progress without delay or interruption.
- C. Deliver and assist in unloading and sorting of hardware. All hardware must be checked in on site by the Contractor's designated person.
- D. All hardware shall be laid out in an organized manner on shelves provided by the Contractor in a properly secure room.
- E. Storage and protection of the hardware is the responsibility of the Contractor.

**1.07****Inspection and Supervision**

- A. The hardware supplier shall provide a qualified Architectural Hardware Consultant who shall cooperate with the installer and clarify the locations or installation methods of particular items.

## **PART 2      PRODUCTS**

### **2.01      General Requirements**

- A.      All hardware shall be made to template. Furnish templates and template hardware together with the instructions necessary for door and frame preparation.
- B.      All hardware shall be supplied with necessary screws, bolts or other fastening devices to anchor hardware in position neatly and properly in accordance with best practices.

### **2.02      Materials**

Only products listed in the hardware schedule or the approved equals noted in the following list are to be used on this project.

<u>product</u>	<u>listed product</u>	<u>approved alternate</u>	
hinges ( Stanley )	FBB179	McKinney	TA2714
	FBB168	McKinney	T4A3786
	FBB191	McKinney	TA2314
	FBB199	McKinney	T4A3386
continuous hinges ( Select )	SL-11HD	McKinney	MCK-12HD
		Pemko	C-ALFM-HD1
flush bolts ( HB Ives )	FB458	DCI	801F
		Trimco	W3917
current transfers ( Von Duprin )	EPT-10	Camden Securitron	CM-PT516M EPT
door stops ( CBH )	100 / 110 140	Gallery	200 / 218
		Gallery	240B
latch sets ( Schlage )	L9000 06A	Sargent	8200 LNL
exit devices ( Von Duprin )	98 series 98L-F RX-35	Sargent	8800 series 12-8800 55-8500
cylinders ( Schlage )	Everest	Sargent	XC
door closers ( LCN )	4011 REG	Norton	7500 REG
	4021 REG / LONG	Norton	J/JL-7500
	4111 EDA	Norton	PR-7500
kick plates ( CBH )	903 18g	Gallery	80A x 18g
overhead stops ( GJ )	90 series	Sargent Rixson	590 series 9 series

### Materials ( continued )

auto operators ( Record )	8100 series	Horton	LE4000 series
thresholds ( Pemko )	171A 255A	NGP	425 325
auto door bottoms ( Pemko)	4301 series	NGP	420 series
weather strip ( Pemko )	S773D	National Guard	5050CL
	303S	National Guard KN Crowder	160S W-16S

### **2.03**      Finishes

A.      The following is a description of hardware finishes as listed in the finish hardware schedule.

600	steel - primed for painting
619	bronze – nickel plated
626	bronze chrome plated – satin finish
627	aluminum - mill finish
628	aluminum - clear anodized
630	stainless steel – satin finish
652*	stainless steel chrome plated – satin finish
652	steel chrome plated – satin finish
689	painted to match aluminum

### **2.04**      Keying

- A.      Cylinders are to be keyed to a new patented Schlage Everest restricted keyway factory key system.
- B.      Meet with the owner's representative(s) to establish keying requirements. Submit a key schedule for the owner's approval before commencing with any key work.
- C.      Supply construction keyed cylinders at all locks for the Contractor's use during the construction period. Supply five (5) construction keys.
- D.      Supply all cylinders and keys visually coded with key code.
- E.      All keys must be hand delivered directly to the owner's representative.  
**No permanent keys are to be delivered to the jobsite.**  
All keys are to be packaged separately and clearly identified with the key code number.

## **PART 3      EXECUTION**

### **3.01      Examination**

- A.      Before supplying any materials, check all contract documents, shop drawings, details and field dimensions and conditions to ensure that the listed hardware is suitable for intended use. Inform the Consultant of any inaccuracies, conflicts or discrepancies in writing.

### **3.02      Installation**

- A.      Provide instruction & templates to fabricators and to the hardware installers.
- B.      Doors are to be installed and shimmed to provide tolerances not greater than 1/8" between the door and frame at frame head and jambs. Frames must be corrected to be square and plumb prior to door installation.
- C.      Where a pull is scheduled on one side of the door and a push plate on the other side, countersink the door face and thru bolt the pull so that the push plate can be installed to cover the thru bolts.
- D.      All hardware is to be adjusted for proper closing and latching.  
**Adjust door closers for proper strength, back check, closing and latching speeds at initial installation and again following the completion of the Building HVAC balancing and commissioning.**
- E.      Wall stops are to be located as to strike the base of the door pull.
- F.      Installer to coordinate all hardware installations and adjustments with the security system supplier at all doors with access controls.
- G.      All hardware is to be installed by skilled tradesmen to the manufacturer's installation templates and instructions at the following mounting heights **unless noted otherwise in the hardware schedule.**

current transfers	-	1220mm
latch sets	-	1024mm (to centerline of strike)
deadlocks	-	865mm (to centerline of strike)
exit devices	-	centred on mid rail (aluminum doors)
exit devices	-	1000mm (hollow metal doors)
overhead stops	-	maximum swing as dictated by site conditions

All dimensions are from the centre line of the hardware to the finish floor unless noted otherwise in the hardware schedule.

### 3.03

#### Adjustment

- A. Verify that the installed hardware functions properly.
- B. Instruct installers of requirements or procedures for adjustments.
- C. Provide a written inspection report for all hardware installation deficiencies.

**Heading # 01**

1 sgle door 100-1 exterior from vestibule 100 RHR

type E1 900mm x 2350mm x 57mm insulclad aluminum door / aluminum frame  
 646mm x 1260mm upper lite - 100mm top rail, 127mm stiles  
 646mm x 740mm lower lite - 250mm bottom rail

1	continuous hinge	SL11HD x 2327mm	628
1	door pull	6010-1 x 1220mm x #6mtg. (rhr)	652*
1	push bar	350	630
1	auto operator	** 8100 x 1000mm x 120vac (rhr) (push side)	628
1	wall stop	CBH 140	626
1	threshold	255A x 1000mm (site verify)	627
1	door sweep	345ANB x 900mm	628
2	wall switch	** PBR45LL x CM49A	630

mount dummy exit rail adjacent to side lite mid rail  
 balance of weather strip by the aluminum frame supplier  
 120vac to auto operator by division 16.

**Heading # 02**

1 sgle door 100-2 vestibule 100 from foyer 101 RHR

type E2 900mm x 2350mm x 45mm aluminum door / aluminum frame  
 720mm x 1260mm upper lite - 100mm top rail, 90mm stiles  
 720mm x 740mm lower lite - 250mm bottom rail

1	continuous hinge	SL11HD-PT x 2327mm (lh)	628
1	current transfer	** EPT-10	689
1	alarmed exit device	** RX-CD-35A-NL-OP x 1438 (rhr)	630
1	rim cylinder	20-021 x D145 x 50-210 x 50-211	626
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 (cylinder dogging)	626
1	door pull	6010-1 x 1220mm x #6mtg. (rhr)	652*
1	overhead stop	904S x 13mm shim	630
1	auto operator	** 8100 x 1000mm x 120vac (rhr) (push side)	628
2	wall switch	** PBR45LL x CM49A	630

auto operator and wall switches are only operable when exit device is dogged  
 120vac to auto operator by division 16.

**Heading # 03**

1 sgle door 101-1 foyer 101 from pipe chase 101-1 RHR

type F 600mm x 1200mm x 45mm galvanized hm door / galvanized ps frame  
slab door

2	hinges	FBB179 114mm x 101mm NRP	652
1	deadlock	L9460L x 10-073	630
1	cylinder pull	CBH 350	619
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 x 50-211	626

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**Heading # 04**

1 sgle door 102-1 foyer 101 to barrier free washroom 102 RH

type D 900mm x 2350mm x 45mm scwd door / ps frame  
slab door

4	hinges	FBB179 114mm x 101mm	652
1	privacy set	L9444 06A x 10-072	630
1	kick plate	903 305mm x 862mm x ws	630
1	mop plate	903 305mm x 875mm x ws	630
1	wall stop	CBH 140	626

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**Heading # 05**

1 sgle door 102-2 foyer 101 from pipe chase 102-2 LHR

type C 380mm x 1200mm x 45mm hm door / ps frame  
slab door

2	hinges	FBB179 114mm x 101mm NRP	652
1	deadlock	L9460L x 10-073	630
1	cylinder pull	CBH 350	619
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 x 50-211	626

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**Heading # 06**

1	sgle door	103-1	foyer 101 to dorm / office 103	RH
	type D	900mm x 2350mm x 45mm	scwd door / ps frame	90 min
	slab door			
4	hinges	FBB179	114mm x 101mm	652
1	lockset	L9050L	06A x 10-072	630
1	mortise cylinder	20-013	x 29mm x D145 x 50-210 x 50-211	626
1	closer	4011	REG x mws (pull side mounted)	689
1	kick plate	903	305mm x 862mm x ws	630
1	wall stop	CBH	140	626

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**Heading # 07**

1	sgle door	105-1	foyer 101 from mechanical room 105	RHR
	type A	1000mm x 2350mm x 45mm	hm door / ps frame	45 min
	slab door			
4	hinges	FBB168	127mm x 101mm NRP	652
1	lockset	L9080L	06A x 10-072	630
1	closer	4111	EDA x mws (push side mounted)	689
1	kick plate	903	305mm x 862mm x ss rivets	630
1	mop plate	903	305mm x 875mm x ss rivets	630
1	wall stop	CBH	140	626
1	mortise cylinder	30-001	x 29mm x D145 x 50-210 x 50-211	626

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**Heading # 08**

1	sgle door	106-1	apparatus floor 124 from EMS corridor 106	RHR
type B 900mm x 2350mm x 45mm galvanized hm door / galvanized ps frame				90 min
100mm x 635mm lite - 150mm top rail, 166mm stile				
4	hinges	FBB199	114mm x 101mm NRP	630
1	fire exit device	98L-F 996L	06 x 299F (rhr)	630
1	rim cylinder	20-021	x D145 x 50-210 x 50-211	626
1	closer	4021	REG/LONG x mws (push side mounted)	689
1	adapter plate	4020-18G	x mws	689
1	kick plate	903	305mm x 862mm x ss rivets	630
1	mop plate	903	305mm x 875mm x ss rivets	630
1	wall stop	CBH	140	626
1	weatherstrip	303AS	x 5600mm (1-900mm, 2-2350mm)	628
1	threshold	171A	x 1000mm (site verify)	627
1	door sweep	345ANB	x 900mm	628
1	smoke seal	S773D	x 5600mm	
1	auto door bottom	4301ARL	x 900mm	628

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**Heading # 09**

1	sgle door	107-1	EMS corridor 106 to station officer / dispatch 107	LH
type E2 900mm x 2350mm x 45mm aluminum door / aluminum frame				
720mm x 1260mm upper lite - 100mm top rail, 90mm stiles				
720mm x 740mm lower lite - 250mm bottom rail				
4	hinges	FBB179	114mm x 101mm	652
1	lockset	L9050L	06A x 10-072	630
1	kick plate	903	305mm x 862mm x ss rivets	630
1	wall stop	CBH	140	626
1	mortise cylinder	30-001	x 29mm x D145 x 50-210 x 50-211	626

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**Heading # 10**

1 sgle door 108-1 EMS corridor 106 to computer / study 108 LH

type E2 900mm x 2350mm x 45mm aluminum door / aluminum frame  
 720mm x 1260mm upper lite - 100mm top rail, 90mm stiles  
 720mm x 740mm lower lite - 250mm bottom rail

1	continuous hinge	SL11HD x 2327mm	628
1	deadlock	MS1850S-415 (38mm backset)	628
1	mortise cylinder	20-013 x 29mm x D145 x 50-210 x 50-211	626
1	thumb turn	09-0900NH x 29mm	626
1	push / pull set	CBH 7000-1 x 810mm c to c x #3mtg x #6mtg	630
1	wall stop	CBH 140	626
1	auto door bottom	4301ARL x 900mm	628
1	smoke seal	S773D x 5600mm	
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 x 50-211	626

deadlock mounted @ 865mm a.f.f  
 push bar mounted @ 1024mm a.f.f.

**Heading # 11**

1 sgle door 108-2 computer study 108 from pipe chase 108-2 LHR

type F 600mm x 1200mm x 45mm galvanized hm door / galvanized ps frame  
 slab door

2	hinges	FBB179 114mm x 101mm NRP	652
1	deadlock	L9460L x 10-073	630
1	cylinder pull	CBH 350	619
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 x 50-211	626

**Heading # 12**

1 sgle door 109-1 foyer 101 to corridor 109 LH

type E2 900mm x 2350mm x 45mm aluminum door / aluminum frame  
 720mm x 1260mm upper lite - 100mm top rail, 90mm stiles  
 720mm x 740mm lower lite - 250mm bottom rail

1	continuous hinge	SL11HD x 2327mm	628
1	deadlatch	4900-45-101-628	628
1	coded lockset	KC9111-2	626
1	lever handle	4560-601-130	628
1	closer	4011 REG x mws (pull side mounted)	689
1	wall stop	CBH 140	626
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 x 50-211	626

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**Heading # 13**

1 sgle door 110-1 corridor 109 to janitor 110 RH

type A 900mm x 2350mm x 45mm hm door / ps frame 45 min  
 slab door

4	hinges	FBB179 114mm x 101mm	652
1	lockset	L9080L 06A x 10-072	630
1	overhead stop	904S	652
1	closer	4011 REG x mws (pull side mounted)	689
1	kick plate	903 305mm x 862mm x ss rivets	630
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 x 50-211	626

template overhead stop to maximum degree of opening allowable by site conditions

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**Heading # 14**

1 sgle door 111-1 corridor 109 to men's washroom 111 LH

type D 900mm x 2350mm x 45mm scwd door / ps frame  
slab door

4	hinges	FBB168 114mm x 101mm	652
1	push plate	923 152mm x 762 x ws	630
1	door pull	7530B-1 x #1mtg	630
1	closer	4011 REG x mws (pull side mounted)	689
1	kick plate	903 305mm x 862mm x ws	630
1	mop plate	903 305mm x 875mm x ws	630
1	wall stop	CBH 140	626

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**Heading # 15**

1 sgle door 111-2 men's washroom 111 from pipe chase 111-2 RHR

type C 380mm x 1200mm x 45mm hm door / ps frame  
slab door

2	hinges	FBB179 114mm x 101mm NRP	652
1	deadlock	L9460L x 10-073	630
1	cylinder pull	CBH 350	619
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 x 50-211	626

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**Heading # 16**

1 sgle door 111-6 men's washroom 111 from pipe chase 111-6 RHR

type F 600mm x 1200mm x 45mm galvanized hm door / galvanized ps frame  
slab door

2	hinges	FBB179 114mm x 101mm NRP	652
1	deadlock	L9460L x 10-073	630
1	cylinder pull	CBH 350	619
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 x 50-211	626

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**Heading # 17**

1	sgle door	114-1	corridor 109 to women's washroom 114	RH
type D 900mm x 2350mm x 45mm scwd door / ps frame				
slab door				
4	hinges	FBB168	114mm x 101mm	652
1	push plate	923	152mm x 762 x ws	630
1	door pull	7530B-1	x #1mtg	630
1	closer	4011	REG x mws (pull side mounted)	689
1	kick plate	903	305mm x 862mm x ws	630
1	mop plate	903	305mm x 875mm x ws	630
1	wall stop	CBH	140	626

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**Heading # 18**

1	sgle door	114-2	women's washroom 114 from pipe chase 114-2	LHR
type C 380mm x 1200mm x 45mm hm door / ps frame				
slab door				
2	hinges	FBB179	114mm x 101mm NRP	652
1	deadlock	L9460L	x 10-073	630
1	cylinder pull	CBH	350	619
1	mortise cylinder	30-001	x 29mm x D145 x 50-210 x 50-211	626

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**Heading # 19**

1	sgle door	114-6	women's washroom 114 from pipe chase 114-6	RHR
type F 600mm x 1200mm x 45mm galvanized hm door / galvanized ps frame				
slab door				
2	hinges	FBB179	114mm x 101mm NRP	652
1	deadlock	L9460L	x 10-073	630
1	cylinder pull	CBH	350	619
1	mortise cylinder	30-001	x 29mm x D145 x 50-210 x 50-211	626

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**Heading # 20**

1 sgle door 115-1 exterior from lounge / day room 115 RHR

type E 925mm x 2350mm x 57mm insulclad aluminum door / aluminum frame  
 671mm x 1260mm upper lite - 100mm top rail, 127mm stiles  
 671mm x 740mm lower lite - 250mm bottom rail

1	continuous hinge	SL11HD x 2327mm	628
1	deadlatch	4900-45-101-628	628
1	coded lockset	KC9111-2	626
1	lever handle	4560-601-130	628
1	closer	4021 REG/LONG x mws (top jamb mounted)	689
1	adapter plate	4020-18G x mws	689
1	wall stop	CBH 140	626
1	threshold	255A x 1000mm (site verify)	627
1	door sweep	345ANB x 900mm	628
1	mortise cylinder	20-013 x 29mm x D145 x 50-210 x 50-211	626

balance of weather strip by the aluminum frame supplier

**Heading # 21**

1 sgle door 116-1 apparatus floor 124 from kitchen 116 LHR

type B 900mm x 2350mm x 45mm galvanized hm door / galvanized ps frame 90 min  
 100mm x 635mm lite - 150mm top rail, 166mm stile

4	hinges	FBB199 114mm x 101mm NRP	630
1	fire exit device	98EO-F x 299F	630
1	coded exit device trim	PRO993 06	626
1	overhead stop	904S x 13mm shim	630
1	closer	4021 REG/LONG x mws (push side mounted)	689
1	adapter plate	4020-18G x mws	689
1	kick plate	903 305mm x 862mm x ss rivets	630
1	mop plate	903 305mm x 875mm x ss rivets	630
1	threshold	171A x 1000mm (site verify)	627
1	weatherstrip	303AS x 5600mm (1-900mm, 2-2350mm)	628
1	door sweep	345ANB x 900mm	628
1	smoke seal	S773D x 5600mm	
1	auto door bottom	4301ARL x 900mm	628
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 x 50-211	626

template overhead stop to maximum degree allowable by site conditions

**Heading # 22**

1	sgle door	117-1	apparatus floor 124 from corridor 117	RHR
type B 900mm x 2350mm x 45mm galvanized hm door / galvanized ps frame				90 min
100mm x 635mm lite - 150mm top rail, 166mm stile				
4	hinges	FBB199	114mm x 101mm NRP	630
1	fire exit device	98L-F 996L	06 x 299F (rhr)	630
1	rim cylinder	20-021	x D145 x 50-210 x 50-211	626
1	closer	4021	REG/LONG x mws (push side mounted)	689
1	adapter plate	4020-18G	x mws	689
1	kick plate	903	305mm x 862mm x ss rivets	630
1	mop plate	903	305mm x 875mm x ss rivets	630
1	wall stop	CBH	140	626
1	threshold	171A	x 1000mm (site verify)	627
1	weatherstrip	303AS	x 5600mm (1-900mm, 2-2350mm)	628
1	door sweep	345ANB	x 900mm	628
1	smoke seal	S773D	x 5600mm	
1	auto door bottom	4301ARL	x 900mm	628

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**Heading # 23**

1	sgle door	118-1	corridor 117 to dorm #1 118	LH
type D 900mm x 2350mm x 45mm scwd door / ps frame				90 min
slab door				
4	hinges	FBB179	114mm x 101mm	652
1	passage set	L9010	06A x 10-072	630
1	closer	4011	REG x mws (pull side mounted)	689
1	kick plate	903	305mm x 862mm x ss rivets	630
1	wall stop	CBH	140	626
1	auto door bottom	4301ARL	x 900mm	628
1	smoke seal	S773D	x 5600mm	

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**Heading # 24**

1	sgle door	119-1	corridor 117 to dorm #2	119	RH
	type D	900mm x 2350mm x 45mm	scwd door / ps frame		90 min
	slab door				
4	hinges	FBB179	114mm x 101mm		652
1	passage set	L9010 06A	x 10-072		630
1	closer	4011 REG	x mws (pull side mounted)		689
1	kick plate	903	305mm x 862mm x ss rivets		630
1	wall stop	CBH	140		626
1	auto door bottom	4301ARL	x 900mm		628
1	smoke seal	S773D	x 5600mm		

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**Heading # 25**

1	sgle door	120-1	corridor 117 to dorm #3	120	LH
	type D	900mm x 2350mm x 45mm	scwd door / ps frame		90 min
	slab door				
4	hinges	FBB179	114mm x 101mm		652
1	passage set	L9010 06A	x 10-072		630
1	closer	4011 REG	x mws (pull side mounted)		689
1	kick plate	903	305mm x 862mm x ss rivets		630
1	wall stop	CBH	140		626
1	auto door bottom	4301ARL	x 900mm		628
1	smoke seal	S773D	x 5600mm		

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**Heading # 26**

1	sgle door	121-1	corridor 117 to dorm #4	121	RH
	type D	900mm x 2350mm x 45mm	scwd door / ps frame		90 min
	slab door				
4	hinges	FBB179	114mm x 101mm		652
1	passage set	L9010 06A	x 10-072		630
1	closer	4011 REG	x mws (pull side mounted)		689
1	kick plate	903	305mm x 862mm x ss rivets		630
1	wall stop	CBH	140		626
1	auto door bottom	4301ARL	x 900mm		628
1	smoke seal	S773D	x 5600mm		

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**Heading # 27**

1	sgle door	122-1	corridor 117 to dorm #5	122	RH
	type D	900mm x 2350mm x 45mm	scwd door / ps frame		90 min
	slab door				
4	hinges	FBB179	114mm x 101mm		652
1	passage set	L9010 06A	x 10-072		630
1	closer	4011 REG	x mws (pull side mounted)		689
1	kick plate	903	305mm x 862mm x ss rivets		630
1	wall stop	CBH	140		626
1	auto door bottom	4301ARL	x 900mm		628
1	smoke seal	S773D	x 5600mm		

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**Heading # 28**

1	sgle door	123-1	corridor 117 to dorm #6 123	LH
	type D	900mm x 2350mm x 45mm	scwd door / ps frame	90 min
	slab door			
4	hinges		FBB179 114mm x 101mm	652
1	passage set		L9010 06A x 10-072	630
1	closer		4011 REG x mws (pull side mounted)	689
1	kick plate		903 305mm x 862mm x ss rivets	630
1	wall stop		CBH 140	626
1	auto door bottom		4301ARL x 900mm	628
1	smoke seal		S773D x 5600mm	

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**Heading # 29**

1	overhead	124-1	exterior to apparatus floor 124
	type G	4000mm x 4350mm x 50mm	aluminum overhead door door
	hardware by overhead door supplier		

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**Heading # 30**

1	overhead	124-2	exterior to apparatus floor 124
	type G	4000mm x 4350mm x 50mm	aluminum overhead door door
	hardware by overhead door supplier		

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**Heading # 31**

1 sgle door 124-3 exterior from apparatus floor 124 RHR

type E1 900mm x 2350mm x 57mm insulclad aluminum door / aluminum frame  
 646mm x 1260mm upper lite - 100mm top rail, 127mm stiles  
 646mm x 740mm lower lite - 250mm bottom rail

1	continuous hinge	SL11HD x 2327mm	628
1	exit device	98EO x 1438	630
1	coded exit device trim	PRO993 06	626
1	overhead stop	904S x 13mm shim	630
1	closer	4021 REG/LONG x mws (push side mounted)	689
1	adapter plate	4020-18G x mws	689
1	threshold	171A x 1000mm (site verify)	627
1	door sweep	345ANB x 900mm	628
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 x 50-211	626

template overhead stop to maximum degree allowable by site conditions  
 balance of weather strip by the aluminum frame supplier

**Heading # 32**

1 sgle door 124-4 exterior from apparatus floor 124 LHR

type E1 900mm x 2350mm x 57mm insulclad aluminum door / aluminum frame  
 646mm x 1260mm upper lite - 100mm top rail, 127mm stiles  
 646mm x 740mm lower lite - 250mm bottom rail

1	continuous hinge	SL11HD x 2327mm	628
1	exit device	98EO x 1438	630
1	overhead stop	904S x 13mm shim	630
1	closer	4021 REG/LONG x mws (push side mounted)	689
1	adapter plate	4020-18G x mws	689
1	threshold	171A x 1000mm (site verify)	627
1	door sweep	345ANB x 900mm	628

template overhead stop to maximum degree allowable by site conditions  
 balance of weather strip by the aluminum frame supplier

**Heading # 33**

1 overhead 124-5 exterior to apparatus floor 124  
 type G 4000mm x 4350mm x 50mm aluminum overhead door door  
 hardware by overhead door supplier

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**Heading # 34**

1 overhead 124-6 exterior to apparatus floor 124  
 type G 4000mm x 4350mm x 50mm aluminum overhead door door  
 hardware by overhead door supplier

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**Heading # 35**

1 sgle door 124-7 apparatus floor 124 from pipe chase 124-7 LHR  
 type F 600mm x 1200mm x 45mm galvanized hm door / galvanized ps frame  
 slab door

2	hinges	FBB191 114mm x 101mm NRP	630
1	deadlock	L9460L x 10-073	630
1	cylinder pull	CBH 350	619
1	mortise cylinder	30-001 x 29mm x D145 x 50-210 x 50-211	626

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**Heading # 36**

1	sgle door	124-8	apparatus floor 124 from pipe chase 124-8	RHR
	type F	600mm x 1200mm x 45mm	galvanized hm door / galvanized ps frame	
	slab door			
2	hinges	FBB191	114mm x 101mm NRP	630
1	deadlock	L9460L	x 10-073	630
1	cylinder pull	CBH 350		619
1	mortise cylinder	30-001	x 29mm x D145 x 50-210 x 50-211	626

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**Heading # 37**

1	sgle door	125-1	apparatus floor 124 to exercise room 125	LH
	type A	1000mm x 2350mm x 45mm	hm door / ps frame	45 min
	slab door			
4	hinges	FBB199	114mm x 101mm	630
1	passage set	L9010	06A x 10-072	630
1	closer	4011	REG x mws (pull side mounted)	689
1	kick plate	903	305mm x 862mm x ss rivets	630
1	mop plate	903	305mm x 875mm x ss rivets	630
1	wall stop	CBH 140		626
1	stair nosing	2120A	x 900mm	628
1	threshold	158A	x 1000mm (site verfiy)	627
1	weatherstrip	303AS	x 5600mm (1-900mm, 2-2350mm)	628
1	door sweep	345ANB	x 900mm	628
1	auto door bottom	4301ARL	x 900mm	628
1	smoke seal	S773D	x 5600mm	628

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**Heading # 38**

1	sgle door	127-1	apparatus floor 124 to turn out room 127	RH
type B 900mm x 2350mm x 45mm galvanized hm door / galvanized ps frame				
100mm x 635mm lite - 150mm top rail, 166mm stile				
4	hinges	FBB199	114mm x 101mm	630
1	passage set	L9010	06A x 10-072	630
1	overhead stop	904S	x 13mm shim	630
1	closer	4011	REG x mws (pull side mounted)	689
1	kick plate	903	305mm x 862mm x ss rivets	630
1	mop plate	903	305mm x 875mm x ss rivets	630
1	stair nosing	2120A	x 900mm	628
1	threshold	158A	x 1000mm (site verfiy)	627
1	weatherstrip	303AS	x 5600mm (1-900mm, 2-2350mm)	628
1	door sweep	345ANB	x 900mm	628
1	auto door bottom	4301ARL	x 900mm	628
1	smoke seal	S773D	x 5600mm	628

template overhead stop to maximum degree of opening allowable by site conditions

**Heading # 39**

keying - owner

15	master keys	49-002
42	change keys	48-002 (2 change keys / per lock)
2	extractor tool	35-057
1	presentation kit	35-229
100	key blanks	35-002

**Heading # 40**

keying - contractor

5	construction keys	48-008
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**Heading # 41**

drawings

- 5 elevation diagrams
- 5 riser diagrams
- 5 schematic wiring diagrams



**Heading # 42**

installation

- 1 installation of auto operators and switches
- 1 installation of electric exit device

