

Part 1 General

1.1 SECTION INCLUDES

- .1 Brochure Rack and Magazine Rack
- .2 Recovery Couch
- .3 Wall Mounted Flat Screen TV and TV Bracket
- .4 Clothing Bin
- .5 Work Bench
- .6 Projection Screens
- .7 Corner Guards
- .8 Garage Floor drains.
- .9 Column Covers
- .10 Fall Arrest Anchors
- .11 LCD television ceiling mount.
- .12 Fixed seating
- .13 Non-Slip Safety Nosing

1.2 SHOP DRAWINGS

- .1 Section 01 33 00 – Submittal procedures.
- .2 Shop drawings: provide location drawings, dimensions, details, details of floor and wall supports and interface with other products.

1.3 MAINTENANCE DATA

- .1 Prior to substantial performance, provide Contract Administrator with manufacturers instructions covering care and maintenance of equipment to be included in maintenance manual as per General Requirements.

Part 2 Products

2.1 BROCHURE RACK & MAGAZINE RACK (ITEM #4A & 30A)

- .1 Standard of Acceptance:
 - .1 Manufacturer: Custom – by Furniture Dealer
 - .2 Series & Model No.: Custom – Refer to attached millwork sketches
 - .3 Dimensions: 36”h x 42”w x 12”d for Brochure Rack, Magazine rack dimensions to follow.

- .4 Finish: Maple p.lam. sides with acrylic fronts for brochures/magazines
- .5 Tagging: One (1) Brochure Rack in Waiting 101
One (1) Magazine Rack Quiet Room 121

2.2 RECOVERY COUCH (ITEM #31)

- .1 Standard of Acceptance:
 - .1 Manufacturer: Safecross First Aid Ltd., 1(800) 387-2339
 - .2 Series & Model No.: Recovery Couch 26155 with head rest
 - .3 Dimensions: 18”h x 24”w x 72”d
 - .4 Finish: Wooden legs
 - .5 Fabric: Black vinyl
 - .6 Quantity: One (1)
 - .7 Tagging: First Aid 124

2.3 WALL MOUNTED FLAT SCREEN TV WITH BRACKET (ITEM #39)

- .1 Standard of Acceptance:
 - .1 Manufacturer: Toshiba 42” Widescreen 1080p LCD HDTV Flat Screen TV
 - .2 Series & Model No.: 42HL196
 - .3 Dimensions: 12.3 cm D x 72.5 cm H x 104.4 cm W
 - .4 Finish: Black and Silver
 - .5 Wall Bracket: Sanus Flat Panel TV Wall Mount (VMPL2S-03), Solid heavy gauge steel construction, powder coat finish complete with mounting hardware. TV is mounted 1.25” from the wall.
 - .6 Quantity: One (1)
 - .7 Tagging: Kitchenette 137A

2.4 CLOTHING BIN (ITEM #40)

- .1 Standard of Acceptance:
 - .1 Manufacturer: Kelco Laundry.com 1-800-645-3526
 - .2 Series & Model No.: RB682 Leakproof Hamper with foot pedal c/w leakproof white bag.
 - .3 Dimensions: 18 ½” length x 17 ¾”wide x 37 ½” high
 - .4 Finish: 7/8” Steel tubing, chrome finish.
 - .5 Quantity: Three (3)
 - .6 Tagging: Officer Decontamination 141A and 141C

2.5 WORK BENCH (ITEM #40A)

- .1 Standard of Acceptance:
 - .1 Manufacturer: Lee Valley
 - .2 Series & Model No.: Pollard Steel Workbench MO-39104

- .3 Dimensions: 72" w x 36" d x 32" h
- .4 Finish: Steel
- .5 Quantity: One (1)
- .6 Tagging: Auto Supplies and Work Centre 151

2.6 PROJECTION SCREENS

- .1 Projection screen: draper manual Access Series M; matte white fibreglass screen surface with factory pull cord attached.
 - .1 Room G200 size - 1450 mm x 1960 mm wide.
 - .2 Room G193A size - 2740 x 3660 mm wide.
- .2 Recessed case: Draper Accesscase 150 recessed screen case

2.7 CORNER GUARDS

- .1 Corner Guard (CG-1): 90 degree corner guard; surface mounted; Type 304 stainless steel; 50 mm wings; Pawling Pro-Tek CG-51.
- .2 Length to be 1200 high.

2.8 GARAGE FLOOR DRAINS

- .1 Manufacturer: Slot Drain Systems Ltd 680 Buckingham Road, Wpg Man.
- .2 Floor drain; all 304 stainless steel construction; 32 mm wide slot formed by two 38 mm angles with 12 mm anchors at 600 mm o.c. both sides and 4 setting plates for each 4500 mm length. Lower body to be 150 mm diameter and slope at the rate of 3 mm per 300 mm. Each 4500 length to have flanged bolted connection.
- .3 Cleaning paddle: provide one cleaning paddle shaped to match slot drain system.

2.9 COLUMN COVERS

- .1 Column covers; ASTM B 209; 0.081" thick aluminum sheet; 3003-H14 alloy; with 1" vertical reveals and flush horizontal joints; N'Kee V-Series as manufactured by Nelson Industrial Inc. (905)-428-2240. Distributed by Rieger Architectural Products (204)-654-9704.
- .2 Finish: pre-finished aluminum to match ceiling panels.
- .3 Refer to drawings for sizes and configuration.

2.10 FALL ARREST ANCHORS

- .1 Fall arrest anchors: Thaler Model FARA-36; forged eye swivel for bolt mounting on OWSJ.

2.11 LCD TELEVISION MOUNT

- .1 Television ceiling mount: universal LCD Ceiling Mount for 23 to 37" televisions; mast variable from 450 mm to 950 mm 75 LB capacity; silver powder coat finish; 360 degree

rotation and -5 to +30 degree tilt; model LCD 2537C distributed by videomountsore.com. provide extension pipe as require to accommodate structure height.

2.12 FIXED SEATING

- .1 Fixed seating (video interview): Single pedestal seating manufactured by KI; series 1000; poly shell on single pedestal; floor mount.

2.13 NON-SLIP SAFETY NOSING

- .1 Safety nosing: Wooster products Spectra safety treads; Type WP3; 78 mm wide.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify that surfaces are ready to receive work.

3.2 PROJECTION SCREEN

- .1 Install projection screen in accordance with manufacturers instructions.
- .2 Projection screen case may be mounted prior to the arrival of the projection screen.

3.3 CORNER GUARDS

- .1 Install corner guards in accordance to manufacturers instructions.
- .2 Attach corner guards with adhesive unless otherwise noted.
- .3 All corner guard in Corridor 179 shall be fastened with countersunk tamper resistant stainless steel screws. Ensure fasteners penetrate structure support / blocking minimum 25 mm.
- .4 Refer to drawings for locations.

3.4 GARAGE FLOOR DRAIN SYSTEM

- .1 Install drain system to manufacturers instructions.
- .2 Coordinate connection to mechanical sewer system.
- .3 Contour subgrade to accommodate shape and depth of slot drain.
- .4 Install drain flush with top of concrete slab. Cover slot tpo prevent concrete from entering drain system.

3.5 COLUMN COVERS

- .1 Install column covers to manufacturers instructions.
- .2 Column covers shall be installed using concealed fastening methods, exposed fasteners are not acceptable.

3.6 FALL ARREST ANCHORS

- .1 Install fall arrest anchors to locations indicated on drawings to manufacturers instructions.
- .2 Coordinate with structural steel and roofing trades.

3.7 FIXED SEATING

- .1 Attach fixed seating to floor with expansion bolts to locations indicated.

3.8 NON-SLIP SAFETY NOSING

- .1 Install safety nosing to concrete filled stair treads and landings. Install one piece full width.

END OF SECTION

Part 1 General

1.1 SECTION INCLUDES

- .1 Surfaced metal marker boards.
- .2 Tack boards.
- .3 Dry erase wall covering with trim.
- .4 Track Mounted Marker boards
- .5 Trim, Chalk rail, and accessories.

1.2 RELATED SECTIONS

- .1 Section 06 10 00 - Rough Carpentry: Wood blocking and grounds.
- .2 Section 09 21 16 - Gypsum Board Assemblies.

1.3 REFERENCES

- .1 ASTM A424 - Steel, Sheet, for Porcelain Enameling.
- .2 ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.
- .3 ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- .4 ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.
- .5 Porcelain Enamel Institute - Performance Specifications for Porcelain Enamel Chalkboards.

1.4 SUBMITTALS FOR REVIEW

- .1 Product Data: Provide data on marker boards, tack boards, and trim and accessories.
- .2 Shop Drawings: Indicate wall elevations, dimensions, joint locations, special anchor details.
- .3 Samples: Submit two samples 200 x 200 mm in size illustrating materials and finish, colour and texture of marker board, tack board, wall and covering.

1.5 REGULATORY REQUIREMENTS

- .1 Conform to applicable code for flame/smoke rating of / for vinyl fabric covered tack boards to ASTM E84.

1.6 DELIVERY, STORAGE, AND PROTECTION

- .1 Protect pre-finished surfaces with wrapping. strippable coating.

1.7 OPERATION AND MAINTENANCE DATA

- .1 Maintenance Data: Include data on regular maintenance cleaning, stain removal, and .

Part 2 Products

2.1 SHOP FABRICATED WHITEBOARD

- .1 Acceptable Manufacturers:
 - .1 Shanahan's Building Specialties: 200 series
 - .2 Panel Products: System 300
 - .3 Claridge
 - .4 Almar distributors
- .2 Whiteboards (WB-1): White porcelain enamel writing surface on 0.4 mm. min. steel on a single ply 9 mm fibreboard core, manufactured to sizes as indicated on drawings without visible joiners. Mitred corners.
- .3 Frame: Natural anodized aluminum frame with chalk rail, map rail with cork insert; concealed mounting. System 300 manufactured by Panel Products; Series 200 by Shanahans.
- .4 Accessories:
 - .1 Felt Markers: 1 each of Black, Blue , Red, Green.
 - .2 Eraser Brush: 2 eraser brushes per whiteboard.
 - .3 Map Hooks: 2 metal map hooks per 2400 mm of map rail.
 - .4 Whiteboard cleaner.
 - .5 Magnets: 4 magnets per 2400 mm of whiteboard.

2.2 WHITE BOARD WALL COVERING

- .1 White board wall covering (WT-1): Medium gloss dry erase; magnetic presentation wall covering; manufactured by Walltalkers; Mag Rite II; white. Size as detailed on drawings.
- .2 Trim: AT01-00 clear satin natural anodized aluminum trim; with snap on end caps; 35 mm high.
- .3 Tack rail: 50 mm tack rail MAP2-82 quarry tac wall insert.
- .4 Starter Kits: quantity - 2.
- .5 Broad tip low odor dry erase markers: Quantity - 1

- .6 Heavy duty magnet: Black MAG1- quantity - 50
- .7 Stratum Tray: AP18-P1 white Stratum tray with ET02-00 end caps 450 mm long.
Quantity - 2.
- .8 Adhesive: as recommended by wall covering manufacturer.

2.3 TACK BOARD MATERIAL

- .1 Tackboards (TB-1 to TB-7): 6 mm Forbo Marmoleum bulletin board laminated to 8 mm Particleboard; colour as noted in schedule at the end of this section.
 - .1 TB-1: Colour to be 2202 Charcoal Grey
 - .2 TB-2: Colour to be 2204 Medium Grey.
 - .3 TB-3: Colour to be 2186 Light Tan.
 - .4 TB-4: Colour to be 2201 Rust.
 - .5 TB-5: Colour to be 2166 Tan.
 - .6 TB-6: Colour to be 2067 Olive.
 - .7 TB-7: Colour to be 2162 Light Grey.
- .2 Frame: framing to match white boards without chalk rail.

2.4 RAIL MOUNTED MARKERBOARDS

- .1 Track Mounted Marker boards: Egan System 202; EVS.; Metallic (EM) finish.
 - .1 EG-1: Model No. EETB3648EE; 914 mm x 1200m. Magnetic writing surface both sides.
 - .2 EG-2 Model No. EETB6048EE; 1524 mm x 1200 mm. Magnetic writing surface one side.
- .2 Track (TR-1): Egan Visual Model EMST96; Metallic finish; 3860 mm long
- .3 Track (TR-2): Egan Visual Model EMST120; Metallic finish; length as noted.
- .4 Accessories: Egan Cloth Caddy, Magnetic; Model No. EVCC12M; Egan Metallic finish (EM).
 - .1 Accessories: Provide the following additional accessories in addition to the accessories indicated above:
 - .1 AC-1: accessory package; cloth caddy model no EVCC12M Metallic (EM) Finish; 300 mm long; includes one Egan cloth and two markers.
 - .2 AC-2: Markers; Egan Markers 12 assorted, 3 of each colour – AS, Model No. ACDZ.
 - .3 AC-3: Egan Cloth; 12 pack EVEC 12.
 - .4 AC-4: Egan Board Cleaner; Model ACEBC; 8 oz. Bottles, package of 6.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify dimensions, tolerances, and method of attachment with other work.
- .2 Verify that internal wall blocking is ready to receive work and positioning dimensions are as indicated on shop drawings.
- .3 Verify flat wall surface for adhesive applied type.

3.2 INSTALLATION

- .1 Install marker boards, and tack boards to manufacturer's instructions.
- .2 Secure units level and plumb.
- .3 Chalk Boards and Marker Boards:
 - .1 Butt panels tight with concealed spline to hairline joint.
 - .2 Join chalk board panels with batten joint.
 - .3 Set slate chalk board tight in frame, butt joints tight, hairline.

3.3 INSTALLATION DRY ERASE WALL COVERING

- .1 Install adhesive and wall covering in strict accordance with manufacturers written instructions.
- .2 Ensure gypsum board surface is smooth, primed and ready for installation. Report any deficiencies. Do not apply until deficiencies are corrected.
- .3 Apply adhesive to fabric surface immediately prior to application of wall covering.
- .4 Razor trim edges on flat work table. Do not razor cut on gypsum board surfaces.
- .5 Apply wall covering smooth, without wrinkles, gaps or overlaps. Eliminate air pockets and ensure full bond to substrate surface. Butt edges tight.
- .6 Remove excess wet adhesive from seam before proceeding to next wall covering sheet. Wipe clean with dry cloth.

3.4 CLEANING

- .1 Section 01 74 004: Cleaning installed work.
- .2 Remove protective material from surfaces.
- .3 Clean chalk board surfaces in accordance with manufacturer's instructions, then cover chalk board surfaces with protective cover, taped to frame.
- .4 Remove temporary protective cover at date of Substantial Completion.

3.5 PROTECTION OF FINISHED WORK

- .1 Protect finished Work from damage.

3.6 TACKBOARD/WHITEBOARD SCHEDULE

Room No. / Name	Item	Quantity	Color	Size MM	Wall Location
G101 Waiting	TB-6	1	2067	914 mm wide x 914 mm wide	West
G131 Exercise Room	TB-7	2	2162	1700 mm wide x 1615 mm high	East
G137 Lunch Room	TB-5	2	2166	1828 mm wide x 1220 high	East
	WB-1	2		1220 mm wide x 1220 high	
G176 Corridor	WB-1	1	White	1828 mm wide x 1220 high Note: Whiteboard to come with tamper proof screws, securely mounted to the wall.	East
G192 Plain Clothes Detect.	TB-1	1	2202	2272 mm wide x 1086 mm high	West
	EG-1	7		1219 mm x 914 mm – mounted horizontally – Refer to Elev. 35/A-6.1	West
	TR-2	1			
	AC-1	1			
	AC-2	1			South
	WT-1	1	White	Refer to Elev. 40/A-6.1 6569 mm long x 1220 high – confirm dimension on-site.	
G193A Large Meeting Room	TB-1	1	2202	Refer to Elev. 37/A-6.1 Overall dimension – 4884 mm wide x 1526 mm high	East
	TB-2		2204		
	TB-3		2186		
	TB-4		2201		
	EG-1	2	914 mm x 1219 mm – mount vertically 1524 mm x 1219 mm– mount horizontally 3860 mm long – Refer to Elev. 38/A-6.1	South	
	EG-2	1			
	TR-1	1			
	AC-1	2			
	AC-2	1			
	AC-3	1			
AC-4	1				

Room No. / Name	Item	Quantity	Color	Size MM	Wall Location
G198 Meeting Room	EG-1	2		914 mm x 1219 mm – mounted vertically	West
	TR-1	1		2438 mm long, mount track @ 2057 mm to underside of track a.f.f.	
	AC-1	1			
G200 Meeting Room	EG-2	1		1524 mm x 1219 mm – mounted horizontally	East
	TR-1	1		2438 mm, mount track @ 2057 mm to underside of track a.f.f.	
	AC-1	1			
	AC-2	1			
G205 Radio Room	TB-1	1	2202	894 mm wide x 862 mm high – check on-site dimension	West
G206 Shift Supervisor	TB-1	1	2202	914 mm wide x 1370 mm high	South

END OF SECTION

Part 1 General

1.1 RELATED WORK

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 78 10 - Closeout Submittals.
- .3 French Translations – Complete and corrected list of French translation will be provided prior to shop drawings.

1.2 REFERENCES

- .1 Aluminium Association, Inc. (AA)
 - .1 Designation System for Aluminum Finishes -1997.
- .2 American Society for Testing and Materials (ASTM)
 - .1 ASTM A653/A653M-01a, Standard Specification for Steel Sheet, Zinc-Coated, (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .2 ASTM B32-00, Standard Specification for Solder Metal.
 - .3 ASTM B456-95, Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
- .3 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.81-[M90], Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
 - .2 CAN/CGSB-1.88-92, Gloss Alkyd Enamel, Air Drying and Baking.
 - .3 CGSB 31-GP-107Ma-90, Non-Inhibited Phosphoric Acid Base Metal Conditioner and Rust Remover.
 - .4 CGSB 41-GP-6M-1983, Sheets, Thermosetting Polyester Plastics, Glass Fibre Reinforced. Reaffirmation of September 1976.
- .4 Canadian Standards Association (CSA)
 - .1 CAN/CSA-G164-M92(R1998), Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .2 CSAW47.2-M1987(R1998), Certification of Companies for Fusion Welding of Aluminum.
 - .3 CSA W59-M1989(R2001), Welded Steel Construction (Metal Arc Welding) (Imperial Version).
 - .4 CSA W59.2-M1991(R1998), Welded Aluminum Construction.
- .5 Canadian Sheet Steel Building Institute (CSSBI)
 - .1 Sheet Steel Facts # 6, Metallic Coated Sheet Steel for Structural Building Products-July 1995.

- .6 The Master Painters Institute (MPI)
 - .1 Architectural Painting Specification Manual - March 1998.

1.3 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 013 30 00 - Submittal Procedures.
- .2 Submit shop drawings, catalogue sheets and full size templates.
- .3 Indicate materials, thicknesses, sizes, finishes, colours, construction details, removable and interchangeable components, electrical components specifications and power loads, wiring terminal box locations, lamp centres and overlaps, access panels, mounting methods, schedule of signs.
- .4 Submit full size templates, drawn-to-scale details for individually fabricated lettering indicating word and letter spacing.

1.4 SAMPLES

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit duplicate representative sample of each type sign, sign image and mounting method.

1.5 SIGN TYPE 400 – SIGN MESSAGE TEMPLATE

- .1 The sign contractor is to provide all series 400 flexible signs, messages, in an editable version of Corel draw.
- .2 The City intends to make revisions to sign messages in house.
- .3 Provide two C.D.
 - All text/type to be editable, font as specified.
 - Show trim/crop marks
 - Clearly identify each sign type

1.6 QUALITY ASSURANCE

- .1 Welding Certification in accordance with CSA W47.2.

1.7 MAINTENANCE DATA

- .1 Provide maintenance data for illuminated signs for incorporation into manual specified in Section 01 78 10 - Closeout Submittals.

Part 2 Products

2.1 MATERIALS

- .1 Aluminum extrusions: to designation AA 6063-T5.
- .2 Sheet aluminum: Brushed aluminum quality.
- .3 Sheet aluminum: Paintable quality.
- .4 Galvanized steel sheet to ASTM A653/A653M: Commercial Quality with mill phosphatized Z275 or ZF75, paintable quality.
- .5 Lexan sheet: polymethylmethacrylate (PMMA) cast sheet suitable for intended use in sign fabrication, matte translucent white, exterior quality.
- .6 Exterior Grade Engraving sheet: Iomicoid 1.59 mm thick plastic sheet, brushed aluminum face with matte black interior.
- .7 Electrical components: CSA approved as indicated.
- .8 Welding materials: to CSA W59.
- .9 Solder: to ASTM B32, Type Sn50.
- .10 Self-stick foam tape: 1.6mm thick, 352.4 Kg/m³ density polyurethane open-cell foam tape for sign purposes, with synthetic self-stick adhesive on both sides.
- .11 Adhesives, paints, sealants and solvents for acrylic sheet: type recommended by sheet manufacturer for applicable condition.
- .12 Acrylic top-coat: clear, non-yellowing, exterior grade, satin finish, acrylic polyester resin protective coating, compatible with acrylic surface of type recommended by sheet manufacturer.
- .13 Structural steel diameter as per drawing. Post complete with access panel:
- .14 Structural aluminum square post for post mount signs.
- .15 Lumicor Botanicals 6 mm thickness for sign type 400 series. Refer to 1/A-8.9.
- .16 Lumicor Botanicals 13 mm thickness for sign type 601 only. Refer to 6/A-8.8.
- .17 Vista System – sign frame holders. Refer to Sign type 400 series for unit size and detail 1/A-8.9 for specification.
- .18 Slatz System – Slider panel. Refer to sign type 501 11/A-8.9 for details and specification.
- .19 Slatz System – individual slats complete with trim. Refer to sign type 502 12/A-8.9 for details and specification.

- .20 Reflective Exterior Grade film – for regulatory signs.

2.2 SIGN GRAPHICS

- .1 Sign graphics to be well defined, arranged for balanced appearance, and properly word and letter spaced as indicated.
- .2 Cut and spray process: mask surfaces, accurately cut-out image, then spray apply uniform coating to obtain opaque finish to match Consultant's sample.
- .3 Silk screen process: apply multi colour photographic produced silk screen printed images to face or back side of transparent sign faces and opaque sign faces.
- .4 Engraving: apply sign images using pantograph mechanical engraving machine to obtain incised paint-filled letters as detailed or specified to match Engineer's sample.
- .5 Self-stick vinyl film: individual letters and numerals and symbols die cut from 0.1 mm thick black, white or red integral colour, matte finish, exterior grade PVC film, with self-stick adhesive backing.
- .6 Decals: silk screened or printed images on 0.051 mm, clear matte finish, PVC film, with self-stick adhesive backing. Protect image with laminated film overlay of same material as decal base.

2.3 CUT-OUT LETTERS – 100 and 102 Series

- .1 Arial typeface, upper and lower case; sizes and thicknesses as indicated on graphic layout A-8.6. Make corners square cut.

2.4 ILLUMINATED SIGN BOXES – 103 Series

- .1 Fabricate illuminated sign boxes as detailed of extruded aluminum with painted finish.
- .2 Sign casings:
 - .1 Design, construct and reinforce sign casing to provide strong, rigid, self-supporting, weather tight, light-tight housing to accommodate sign faces and electrical components. Use one piece casing lengths except where joints indicated or approved by Consultant. Include matching end closures. Weld intersecting members.
 - .2 Provide space in front of sign face for 3.2 mm acrylic lift in panel for message image.
 - .3 Provide access for installation, maintenance, and relamping, through hinged sign face, having concealed latches to prevent unauthorized access.
 - .4 Provide for thermal movement, heat and moisture dissipation by approved non-staining, concealed methods.
 - .5 Include clear anodized aluminum reflectors, minimum 1.52 mm thick. Paint remainder of interior white.
 - .6 Provide a sign panel wind resistant prop within interior of sign for bulb changes.

- .7 The sign manufacturers will be responsible to create an infrastructure/support within the sign box and post to support sign from all wind and weather loads.
 - .8 Provide shop drawings complete with all infrastructure/support brackets and mounting hardware.
 - .9 The installation of sign will be by sign manufacturer.
 - .10 All exterior signs shall be designed as per the applicable local building code i.e. wind load live load and connection support.
 - .11 Fabricate support and brackets complete with fasteners for installation. Exposed materials to match sign casing: concealed material to be steel with rust inhibitive finish.
 - .12 Make electrical connections via access panel.
- .3 Sign faces:
- .1 Fabricate sign faces of translucent white Lexan sheet 6 mm thick – one piece.
 - .2 Support face along top, leaving sides and bottom floating to permit unrestricted thermal movement.
 - .3 Installed face to present rigid surface with minimal distortion: to Consultant's approval.
 - .4 Panels to be capable of easy placement and removal yet secure when in place. Smooth on all edges.
- .4 Sign graphics:
- .1 Acrylic sign faces: apply graphics for cut and spray and self-stick vinyl film.

2.5 REFLECTIVE VINYL EXTERIOR SIGNS SIGN TYPE 104-109

- .1 Fabricate sign as detailed of aluminum sheet 3.2 mm thick.
- .2 Buff exposed edges and make radius corners.
- .3 Fabricate fence brackets and post fasteners for installation. Exposed materials to be compatible with materials used on illuminated signs, concealed materials to be steel with rust inhibitive finish to produce reasonably rigid sign.
- .4 Film
 - .1 Provide computer generated electro cut and die-cut vinyl, pressure-sensitive legends, 3M Company “Scotchcal” sheeting film, or approved equal. Execute die-cutting in such a manner that edges and corners of finished letterforms are true and clean. Letterforms with round positive or negative corners, niched, cut or ragged edges, etc., will not be acceptable.
 - .2 Thickness: Maximum 0.003 inch.
 - .3 Adhesive Quality: Minimum 55 oz. per inch width, after curing for 24 hours, required to break adhesive bond.
 - .4 Cutting shall be performed in accordance with manufacturer’s printed instructions.
 - .5 Guarantee shall cover, but not limited to:

- .1 Colour fastness against fading or chalking.
- .2 Non-yellowing or acrylic.
- .3 Assembly, construction, and operation.
- .4 No noticeable cracking, chipping, peeling, or delamination.
- .5 Structural failure.

.5 Sign Faces

- .1 Fabricated sign faces of aluminum sheet 3.2 mm thick.
- .2 Installed face to present rigid surface with minimal distortion: to Consultant's approval.
- .3 Sign graphics: apply by self-sticking reflective vinyl film.

.6 Fasteners

- .1 Fasteners shall be of the same basic metal and alloy as fastened metal, unless otherwise shown on the Contract Drawings. Do not use metals that are corrosive or incompatible with metals joined.
 - .1 Provide types, gauges, and lengths to suit installation conditions.
 - .2 Provide concealed fasteners for interconnecting sheet metal fabrications and attaching them to other construction, unless otherwise shown on the Contract Drawings.
- .2 Anchors and Inserts
 - .1 Use stainless steel or hot-dipped galvanized anchors and inserts as required for corrosion resistance, hidden when possible. Furnish inserts, as required, to be set into substrate.

2.6 ENGRAVED DOOR AND WALL SIGNS – 110 AND 111 + 300 SERIES

- .1 Sizes as indicated on details.
- .2 Engravings as indicated on details.
- .3 Lamicoïd Mounting:
 - .1 Wall Mount: Refer to detail.
 - .2 Door Mount: Refer to detail.

2.7 ADHESIVE SIGNS – 200 SERIES

- .1 Size as indicated on detail.
- .2 Adhesive on interim door side.
- .3 Glass Door Mounting: Refer to detail.

2.8 ROOM IDENTITY SIGNS – 400 SERIES

- .1 Lumicor wall plates:
 - .1 Sizes as indicated – smooth edges.

- .2 Sign back: apply by silkscreen or paint for smooth even finish.
- .3 Sign Number and Braille: Tactile.

.2 Flexible Message Sign: 400 Series Vista System. Convex face as described on detail 1/A-8.9.

.3 Mounting Method (3 types – refer to message schedule for type).

- .1 Wall Mount: Refer to detail.
- .2 Door Mount: Refer to detail.
- .3 Bracket Mount: Refer to detail.

2.9 ROOM IDENTITY SIGNS – 500 SERIES

.1 Slat sign system.

- .1 Slider panels.
- .2 Ganged message panels.

.2 Sizes as indicated on details.

.3 Message as indicated on details.

.4 Mounting:

- .1 Wall mounted: mechanically fastened to GWB or concrete block.
- .2 Door mounted: mechanically fastened to Hollow Metal doors.

2.10 FEATURE SIGNS - 600 SERIES

.1 Sign type 601 Art Sign Band.

- .1 Lumicore Botanicals 13 mm thickness for sign type 601 only. Refer to 6/A-8.8.
- .2 Fabricate support posts complete with flush mount mechanical fasteners as per 6/A-8.8.
- .3 Exposed mechanical fasteners as per 6/A-8.8.
- .4 Sizes as indicated on detail.
- .5 No message.
- .6 Mounting: top of bulkhead as per 6/A-8.8.

2.11 FABRICATION

.1 Exposed fasteners permitted only where indicated or approved by Contract Administrator and to be inconspicuous and same finish and colour as base material, or as noted.

.2 Polish exposed edges of plastic to smooth, slightly convex profile.

.3 Do aluminium welding to CSA W59.2. Finish exposed welds flush and smooth.

.4 Apply bituminous paint to aluminium to contact with dissimilar metals, concrete or masonry.

- .5 Exposed fasteners permitted only where indicated or approved by Consultant and to be inconspicuous and same finish and colour as base material, or as noted.
- .6 Polish exposed edges of plastic to smooth, slightly convex profile.
- .7 Do aluminium welding to CSA W59.2. Finish exposed welds flush and smooth.
- .8 Apply bituminous paint to aluminium in contact with dissimilar metals, concrete or masonry.
- .9 Manufacturer's nameplates on sign surface locations visible in completed work not acceptable.

Part 3 Execution

3.1 INSTALLATION

- .1 Erect and secure signs plumb and level at elevations indicated.
- .2 Comply with sign manufacturer's installation instructions and approved shop drawings.
- .3 Mechanical attachment:
 - .1 To concrete or solid masonry use lag screws and expansion bolts or screws and fibre plugs, as appropriate for stresses involved.
 - .2 To hollow masonry use toggle bolts or equivalent.
 - .3 To steel use bolts with nut and lock washers, self-tapping screws.
 - .1 Do aluminium welding to CSA W59.2. Finish exposed welds flush and smooth.
 - .4 Secure into framing members behind stud walls or above ceilings.
 - .5 Mechanical fasteners on exterior to be non-staining, non-ferrous type.
 - .6 Fabricate special fasteners as required for installation conditions.
 - .7 Mechanical fasteners and methods of attachment subject to Engineer's approval. Obtain Engineer's approval before fixing to structural steel.
- .4 Adhesive attachment:
 - .1 Use self-stick adhesive foam tape to manufacturer's instructions to adequately fix sign and prevent "rocking". Keep tape maximum 1.6 mm from edges.
- .5 The Contractor shall be responsible for installation of all signs. The Contractor shall also be responsible for sign structures, anchorages, electrical fixtures and required connections into existing circuits.
- .6 Comply with manufacturer's product data and published instructions for material installation requirements. Where manufacturer's representative offers recommendations (either oral or written) on material use, verify recommendations in writing substantiated

by dated, printed, published product data or material use statement which is complete, definite and clear, and signed by company president.

- .7 Install the Work plumb, level and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8 inch in 8 feet for plumb and level, with maximum 1/32 inch offset in flush adjoining sign panels, and maximum 1/16 inch offsets in flush and in revealed adjoining surfaces. Leveling is to be done only with instruments; measuring equal distances from existing building surfaces will not be acceptable as a basis of level and/or plumb.
- .8 Execute drilling, cutting and fitting carefully and fit at job before finishing. Provide work with anchors, expansion bolts, and anchor bolts for complete anchorage. Install supporting members, fastenings, framing, bracing brackets, straps, bolts, angles and the like required to set and connect signage work rigidly and properly to underlying construction.
- .9 Do not field cut support structures without prior approval of Engineer. Set work in location, in alignment and in elevation, plumb, true and free of rack, measured from established lines and levels.
- .10 Where shown on the Contract Drawings as Work of this Contract, set and anchorages to correct elevations, plumb and true, complying with approved shop drawings. Complete connections improper alignment.
- .11 Sign faces shall be flat, true and free from oil canning and waviness; exposed surfaces shall not deviate from flat by more than 1/16 inch in any 36 inch distance.
- .12 After erection, retouch surfaces marred during erection and exposed bolts, bolt heads, etc. with the same paint used previously.
- .13 Bases and Pedestals

Coordinate setting with Contract Drawings, diagrams, templates, instructions, and directions for the installation of anchorages, such as concrete inserts, anchor bolts and miscellaneous items having integral anchors, which are to be embedded in concrete or masonry construction. Coordinate the delivery of such items to be project site.
- .14 Sign Posts and Supports
 - .1 Before sign components are delivered to the site, Contractor shall examine the locations in which the signs are to be erected, and report in writing to the Engineer conditions that will prevent proper execution of the Work or endanger its permanency. The erection of the signs shall not proceed until such conditions are adjusted to the satisfaction of the Contract Administrator.
 - .2 Field splices in the sign structures shall be located where shown on the Contract Drawings, unless otherwise permitted in writing by the Contract Administrator.
 - .3 There shall be no visible connections unless otherwise shown.
 - .4 Form weather-tight joints with connections unless otherwise shown.
 - .5 Fasteners

.1 Provide concealed fasteners, except where otherwise noted on Contract Drawings. Exposed fasteners shall be flush and match in colour and finish to the adjacent surfaces.

.6 Touch-up

.1 Immediately after erection, bolted connections, and abraded areas of shop paint, and paint exposed areas with same paint used for shop painting. Apply by brush or spray to provide a minimum dry film thickness of 2.0 mils

3.2 CLEANING

.1 Leave signs clean. Remove debris from interior of sign boxes.

.2 Touch up any damaged finishes.

3.3 SCHEDULE

.1 The Sign Message Schedule is attached to the end of this specification section.

END OF SECTION

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-D1	Customer Service →	406	A-8.2	21/A-8.4	7/A-8.9	wall
	Hours of Operation					
	9:00 am to 7:00 pm					
	<i>french translation</i>					
	<i>french translation</i>					
	<i>french translation</i>					
	[message braille]					
SL1-D2	Parking Ticket	407	A-8.2	22/A-8.4	8/A-8.9	wall - mount above drop
	Deposit Box ↓					box
	The Winnipeg Police Service has no affiliation with the					
	Winnipeg Parking Authority. For parking ticket concerns, please					
	contact the Winnipeg Parking Authority, directly at 986-2886					
	<i>french translation</i>					
	<i>french translation</i>					
	<i>french translation</i>					
	<i>french translation</i>					
	<i>french translation</i>					
	[message braille]					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-EX1	Winnipeg Police Service	101	A-8.1	1/A-8.3	1/A-8.7	wall mount
	East District Station					
	<i>french translation</i>					
	<i>french translation</i>					
	1750 Rue Dugald Road					
SL1-EX2	(6)	302	A-8.1	2/A-8.3	3/A-8.8	door mount
SL1-EX3	POLICE	103	A-8.1		3/A-8.7	Illuminated Pylon sign
						piled structure.
SL1-EX4	Public Parking	102	A-8.1		2/A-8.7	feature low wall
	<i>french translation</i>					
SL1-EX5	Accessible	105	A-8.1		5/A-8.7	centre on stall
	Parking	104			4/A-8.7	confirm on site
	(9)					
	<i>french translation</i>					
	<i>french translation</i>					
SL1-EX6	Accessible	105	A-8.1		5/A-8.7	centre on stall
	Parking	104			4/A-8.7	confirm on site
	(9)					
	<i>french translation</i>					
	<i>french translation</i>					
SL1-EX7	Tow Away Zone →	108	A-8.1		8/A-8.7	confirm on site
	(13)	104			4/A-8.7	
	<i>french translation</i>					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-EX8	← Tow Away Zone	108	A-8.1		8/A-8.7	confirm on site
	(13)	104			4/A-8.7	
	<i>french translation</i>					
SL1-EX9	← Fire Lane	sim 107	A-8.1		sim 7/A-8.7	submit artwork at shop
	No Parking	104			4/A-8.7	
	(5)					
	<i>french translation</i>					
	<i>french translation</i>					
SL1-EX10	Fire Lane →	sim 107	A-8.1		sim 7/A-8.7	submit artwork at shop
	No Parking	104			4/A-8.7	
	(14)					
	<i>french translation</i>					
	<i>french translation</i>					
SL1-EX11	(10)	109	A-8.1		9/A-8.7	
		104			4/A-8.7	
SL1-EX12	Authorized	107			7/A-8.7	bolted to gate with backer bracket
	Persons Only					
	(6)					mount height same as
	<i>french translation</i>					detail 4/A-8.7
	<i>french translation</i>					
SL1-EX13	Authorized	107	A-8.1		7/A-8.7	bolted to gate with backer bracket
	Persons Only					
	(6)					mount height same as
	<i>french translation</i>					detail 4/A-8.7
	<i>french translation</i>					
SL1-EX14	Authorized	107	A-8.1		7/A-8.7	bolted to gate with backer bracket
	Persons Only					
	(6)					mount height same as
	<i>french translation</i>					detail 4/A-8.7
	<i>french translation</i>					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-EX15	Authorized Persons Only (6) <i>french translation</i> <i>french translation</i>	107	A-8.1		7/A-8.7	bolted to gate with backer mount height same as detail 4/A-8.7
SL1-EX16	001 BLOCK HEATER ONLY <i>french translation</i> <i>french translation</i>	110 111	A-8.1		10/A-8.7 11/A-8.7 13/A-8.7	metal post
SL1-EX17	002 003	110	A-8.1		10/A-8.7 13/A-8.7	metal post
SL1-EX18	004 005	110	A-8.1		10/A-8.7 13/A-8.7	metal post
SL1-EX19	006 007	110	A-8.1		10/A-8.7 13/A-8.7	metal post
SL1-EX20	008 009	110	A-8.1		10/A-8.7 13/A-8.7	metal post
SL1-EX21	010 011	110	A-8.1		10/A-8.7 13/A-8.7	metal post

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-EX22	012 013	110	A-8.1		10/A-8.7	metal post
					13/A-8.7	
SL1-EX23	014 015	110	A-8.1		10/A-8.7	metal post
					13/A-8.7	
SL1-EX24	016 017	110	A-8.1		10/A-8.7	metal post
					13/A-8.7	
SL1-EX25	018 019	110	A-8.1		10/A-8.7	metal post
					13/A-8.7	
SL1-EX26	020 021	110	A-8.1		10/A-8.7	metal post
					13/A-8.7	
SL1-EX27	022 023	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX28	024 025	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX29	026 027	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX30	028 029	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX31	030 031	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-EX32	032 033	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX33	034 035	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX34	036 037	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX35	038 039	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX36	040 041	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX37	042 043	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX38	044 045	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX39	046	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX40	047 048	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX41	049 050	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-EX42	051 052	110	A-8.1		10/A-8.7	wood fence
					12/A-8.7	
SL1-EX43	053 054	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX44	055 056	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX45	057 058	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX46	059 060	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX47	061 062	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX48	063 064	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX49	065 066	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-EX50	067 068	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX51	069 070	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX52	071 072	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX53	073 074	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX54	075 076	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX55	077 078	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX56	079 080	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX57	081 082	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
	<i>french translation</i>					
SL1-EX58	083 084	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX59	085 086	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX60	087 088	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX61	089 090	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX62	091 092	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX63	093 094	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX64	095 096	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX65	097 098	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX66	099 0100	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX67	101 102	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX68	103 104	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX69	105 106	110	A-8.1		10/A-8.7	metal post
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				13/A-8.7	
	<i>french translation</i>					
SL1-EX70	107 108	110	A-8.1		10/A-8.7	wood fence
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					
SL1-EX71	109 110	110	A-8.1		10/A-8.7	wood fence
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					
SL1-EX72	111 112	110	A-8.1		10/A-8.7	wood fence
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					
SL1-EX73	113 114	110	A-8.1		10/A-8.7	wood fence

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					
SL1-EX74	115 116	110	A-8.1		10/A-8.7	wood fence
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					
SL1-EX75	117 118	110	A-8.1		10/A-8.7	wood fence
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					
SL1-EX76	119 120	110	A-8.1		10/A-8.7	wood fence
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					
SL1-EX77	121 122	110	A-8.1		10/A-8.7	wood fence
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					
SL1-EX78	123 124	110	A-8.1		10/A-8.7	wood fence
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					
SL1-EX79	125 126	110	A-8.1		10/A-8.7	wood fence
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					
SL1-EX80	127	110	A-8.1		10/A-8.7	wood fence
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-EX80	127	110	A-8.1		10/A-8.7	wood fence
	BLOCK HEATER ONLY	111			11/A-8.7	
	<i>french translation</i>				12/A-8.7	
	<i>french translation</i>					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID101	101 [room number braille] (3)	404	A-8.2	20/A-8.4	5/A-8.9	door
SL1-ID102	103 [room number braille] Consultation 1 <i>french translation</i>	402	A-8.2	13/A-8.4	3/A-8.9	door
SL1-ID103	104 [room number braille] Consultation 2 <i>french translation</i>	402	A-8.2	13/A-8.4	3/A-8.9	door
SL1-ID104	105 [room number braille] Station Duty <i>french translation</i>	402	A-8.2	18/A-8.4	3//A-8.9	bracket
SL1-ID105	106 [room number braille] Boardroom <i>french translation</i>	402	A-8.2	18/A-8.4	3/A-8.9	bracket
SL1-ID106	107 [room number braille] Storage <i>french translation</i>	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
SL1-ID107	108 [room number braille] Meeting Room <i>french translation</i>	402	A-8.2	18/A-8.4	3/A-8.9	bracket

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID108	109	403	A-8.2	19/A-8.4	4/A-8.9	bracket
	[room number braille]					
	Response					
	Supervisor					
	<i>french translation</i>					
	<i>french translation</i>					
SL1-ID109	110	402	A-8.2	18/A-8.4	3/A-8.9	bracket
	[room number braille]					
	Reader Room					
	<i>french translation</i>					
SL1-ID110	111	402	A-8.2	18/A-8.4	3/A-8.9	bracket
	[room number braille]					
	Street Supervisor					
	<i>french translation</i>					
SL1-ID111	112	402	A-8.2	18/A-8.4	3/A-8.9	bracket
	[room number braille]					
	Report Writing					
	<i>french translation</i>					
SL1-ID112	112	402	A-8.2	18/A-8.4	3/A-8.9	bracket
	[room number braille]					
	Report Writing					
	<i>french translation</i>					
SL1-ID113	113	402	A-8.2	18/A-8.4	3/A-8.9	bracket
	[room number braille]					
	Staff Sergeant					
	<i>french translation</i>					
SL1-ID114	114	402	A-8.2	18/A-8.4	3/A-8.9	bracket
	[room number braille]					
	Project Room					
	<i>french translation</i>					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID115	115	402	A-8.2	18/A-8.4	3/A-8.9	bracket
	[room number braille]					
	Inspector					
	<i>french translation</i>					
SL1-ID116	116	402	A-8.2	18/A-8.4	3/A-8.9	bracket
	[room number braille]					
	Clerk					
	<i>french translation</i>					
SL1-ID117	117	402	A-8.2	18/A-8.4	3/A-8.9	bracket
	[room number braille]					
	Clerk					
	<i>french translation</i>					
SL1-ID118	118	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
	[room number braille]					
	Coats					
	<i>french translation</i>					
SL1-ID119	119	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
	[room number braille]					
	Storage					
	<i>french translation</i>					
SL1-ID120	120	402	A-8.2	9/1-8.4	3/A-8.9	wall - latch side of door
	[room number braille]					
	Computer Room					
	<i>french translation</i>					
SL1-ID121	122	402	A-8.2	18/A-8.4	3/A-8.9	bracket
	[room number braille]					
	Parade Room					
	<i>french translation</i>					
SL1-ID122	121	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
	[room number braille]					
	Administration					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
	<i>french translation</i>					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID123	102 [room number braille] Authorized Persons Only <i>french translation</i> <i>french translation</i>	403	A-8.2	10/A-8.4	4/A-8.9	wall - latch side of door
SL1-ID124	Poster Bulletin Frame	409	A-8.2	24/A-8.4	10/A-8.9	wall - refer to elevation
SL1-ID125	Poster Bulletin Frame	409	A-8.2	24/A-8.4	10/A-8.9	wall - refer to elevation
SL1-ID201	201 [room number braille] Detectives <i>french translation</i>	402	A-8.2	18/A-8.4	3/A-8.9	bracket
SL1-ID202	202 [room number braille] Sergeant <i>french translation</i>	402	A-8.2	18/A-8.4	3/A-8.9	bracket

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID301	300 [room number braille] Video Recording <i>french translation</i>	406	A-8.2	12/A-8.4	7/A-8.9	door
	(8)					
SL1-ID302	301 [room number braille] Viewing Room 1 <i>french translation</i>	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
SL1-ID303	516 Female Male Youth Adult	501	A-8.2	25/A-8.4	11/A-8.9	door
SL1-ID304	302 [room number braille] Viewing Room 2 <i>french translation</i>	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
SL1-ID305	515 Female Male Youth Adult	501	A-8.2	25/A-8.4	11/A-8.9	door
SL1-ID306	303 [room number braille] Viewing Room 3 <i>french translation</i>	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
SL1-ID307	514 Female Male Youth Adult	501	A-8.2	25/A-8.4	11/A-8.9	door

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID308	513	501	A-8.2	25/A-8.4	11/A-8.9	door
	Female Male					
	Youth Adult					
SL1-ID309	512	501	A-8.2	25/A-8.4	11/A-8.9	door
	Female Male					
	Youth Adult					
SL1-ID310	304	404	A-8.2	20/A-8.4	5/A-8.9	door
	[English Braille]					
	(3)					
SL1-ID311	511	501	A-8.2	25/A-8.4	11/A-8.9	door
	Female Male					
	Youth Adult					
SL1-ID312	510	501	A-8.2	25/A-8.4	11/A-8.9	door
	Female Male					
	Youth Adult					
SL1-ID313	If you need or require medical assistance ask any Police Officer	304	A-8.2	5/A-8.4	5/A-8.9	wall
	<i>french translation</i>					
	<i>french translation</i>					
	<i>french translation</i>					
	<i>french translation</i>					
	<i>french translation</i>					
SL1-ID314	306	402	A-8.2	9/A-8.4	3/A-8.9	wall latch side of door
	[English Braille]					
	Processing					
	<i>french translation</i>					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID315	307	402	A-8.2	9/A-8.4	3/A-8.9	wall latch side of door
	[English Braille]					
	Storage					
	<i>french translation</i>					
SL1-ID316	307	402	A-8.2	13/A-8.4	3/A-8.9	left hand door
	[English Braille]					
	Storage					
	<i>french translation</i>					
SL1-ID401	401	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
	[room number braille]					
	Radar Radio					
	<i>french translation</i>					
SL1-ID402	402	402	A-8.2	18/A-8.4	3/A-8.9	bracket
	[room number braille]					
	Shift Supervisor					
	<i>french translation</i>					
SL1-ID403	403	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
	[room number braille]					
	Processing					
	<i>french translation</i>					
SL1-ID404	404	502	A-8.2	26/A-8.4	12/A-8.9	door
	Property Lockers					
	<i>french translation</i>					
SL1-ID405	405	502	A-8.2	26/A-8.4	12/A-8.9	door
	Storage					
	<i>french translation</i>					
SL1-ID406	406	502	A-8.2	26/A-8.4	12/A-8.9	wall parallel to door pocket
	Search Room					
	<i>french translation</i>					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID407	407 Search Room <i>french translation</i>	502	A-8.2	26/A-8.4	12/A-8.9	wall parallel to door pocket
SL1-ID408	408 Linen <i>french translation</i>	502	A-8.2	26/A-8.4	12/A-8.9	door
SL1-ID409	409 Evidence Storage <i>french translation</i>	502	A-8.2	26/A-8.4	12/A-8.9	door
SL1-ID410	410 Sallyport <i>french translation</i>	502	A-8.2	26/A-8.4	12/A-8.9	door
SL1-ID411	(8)	302	A-8.2	3A/A-8.4	3/A-8.8	door
SL1-ID412	artwork sign band	601	A-8.2	14/A-8.4	6/A-8.8	top of bulkhead
SL1-ID413	(8)	302	A-8.2	3A/A-8.4	3/A-8.8	door
SL1-ID414	If you need or require medical assistance ask any Police Officer <i>french translation</i> <i>french translation</i> <i>french translation</i> <i>french translation</i> <i>french translation</i>	304	A-8.2	SIM 5/A-8.4	5/A-8.8	centre on wall

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID501	(3)	302	A-8.2	SIM 6/A-8.4	3/A-8.8	door
SL1-ID502	509 Female Male Youth Adult	501	A-8.2	25/A-8.4	11/A-8.9	door
SL1-ID503	506 Female Male Youth Adult	501	A-8.2	25/A-8.4	11/A-8.9	door
SL1-ID504	508 Female Male Youth Adult	501	A-8.2	25/A-8.4	11/A-8.9	door
SL1-ID505	505 Female Male Youth Adult	501	A-8.2	25/A-8.4	11/A-8.9	door
SL1-ID506	507 Female Male Youth Adult	501	A-8.2	25/A-8.4	11/A-8.9	door
SL1-ID507	517 Storage <i>french translation</i>	502	A-8.2	26/A-8.4	12/A-8.9	door
SL1-ID508	504 Female Male Youth Adult	501	A-8.2	25/A-8.4	11/A-8.9	door
SL1-ID509	518 Breathalyzer 1 <i>french translation</i>	502	A-8.2	26/A-8.4	12/A-8.9	door
SL1-ID510	519 Breathalyzer 2 <i>french translation</i>	502	A-8.2	26/A-8.4	12/A-8.9	door
SL1-ID511	501 Female Male	501	A-8.2	25/A-8.4	11/A-8.9	door

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
	Youth Adult					
SL1-ID512	502	501	A-8.2	25/A-8.4	11/A-8.9	door
	Female Male					
	Youth Adult					
SL1-ID513	503	501	A-8.2	25/A-8.4	11/A-8.9	door
	Female Male					
	Youth Adult					
SL1-ID514	520	502	A-8.2	26/A-8.4	12/A-8.9	door
	Custodian					
	<i>french translation</i>					
SL1-ID515	500	408	A-8.2	15/A-8.4	9/A-8.9	wall - latch side of door
	[room number braille]					
	Temporary Holding	(8)				
	<i>french translation</i>					
	<i>french translation</i>					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID600	600 [room number braille]	401	A-8.2	7/A-8.4	2/A-8.9	bracket
SL1-ID601	601 [room number braille] Quiet Room <i>french translation</i>	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
SL1-ID602	604 [room number braille] Custodian <i>french translation</i>	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
SL1-ID603	602 [room number braille] Electrical room <i>french translation</i>	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
SL1-ID604	603 [room number braille] Seasonal Clothing <i>french translation</i>	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
SL1-ID605	605 [room number braille] First Aid <i>french translation</i>	402	A-8.2	9/A-8.4	3/A-8.9	wall - latch side of door
SL1-ID606	Police Crest	602	A-8.2	16/A-8.4	7/A-8.8	centre on wall - refer to elevation
SL1-ID607	606 [room number braille] Coat Alcove <i>french translation</i>	402	A-8.2	SIM 8/A-8.4	3/A-8.9	centre on wall

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID608	606 [room number braille] Coat Alcove <i>french translation</i>	402	A-8.2	8/A-8.4	3/A-8.9	wall
SL1-ID609	608 [room number braille] (7)	404	A-8.2	20/A-8.4	5/A-8.9	door
SL1-ID610	607 [room number braille] Cubbies <i>french translation</i>	402	A-8.2	9/A-8.4	3/A-8.9	wall
SL1-ID611	609 [room number braille]	401	A-8.2	6/A-8.4	2/A-8.9	door
SL1-ID612	800 [room number braille] Officer Decontamination Exit Only <i>french translation</i> <i>french translation</i>	407	A-8.2	23/A-8.4	8/A-8.9	door
SL1-ID613	610 [room number braille] Staffroom <i>french translation</i>	402	A-8.2	SIM 8/A-8.4	3/A-8.9	centre on wall
SL1-ID614	tba tba <i>french translation</i> <i>french translation</i>	304	A-8.2	--	3/A-8.9	centre on exterior wall, ensure sign is clear of door

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID701	701 [room number braille]	403	A-8.2	17/A-8.4	4/A-8.9	door
	Men's Washroom and Lockers					
	<i>french translation</i>					
	<i>french translation</i>					
SL1-ID702	700 [room number braille]	405	A-8.2	11/A-8.4	6/A-8.9	bracket
	Fitness Facility					
	No Outside Shoes					
	<i>french translation</i>					
	<i>french translation</i>					
SL1-ID703	702 [room number braille]	403	A-8.2	17/A-8.4	4/A-8.9	door
	Women's Washroom and Lockers					
	<i>french translation</i>					
	<i>french translation</i>					

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID801	801 Archived Storage	301	A-8.2	2/A-8.4	2/A-8.8	door
SL1-ID802	802 Evidence Storage	301	A-8.2	2/A-8.4	2/A-8.8	door
SL1-ID803	803 Processing	301	A-8.2	2/A-8.4	2/A-8.8	door
SL1-ID804	804 Evidence Drying 1	301	A-8.2	2/A-8.4	2/A-8.8	door
SL1-ID805	805 Evidence Drying 2	301	A-8.2	2/A-8.4	2/A-8.8	door
SL1-ID806	806 Equipment Decontamination	301	A-8.2	2/A-8.4	2/A-8.8	door ***CHECK WIDTH- MAY NEED TO WIDEN***
SL1-ID807	Eye wash station instructions tba	303	A-8.2	4/A-8.4	4/A-8.8	mount above eyewash station
SL1-ID808	807 Officer Decontamination	301	A-8.2	2/A-8.4	2/A-8.8	door
SL1-ID809	808 Electrical	301	A-8.2	2/A-8.4	2/A-8.8	door D-G155; with SL1-R2
SL1-ID810	809 Women's Washroom	301	A-8.2	2/A-8.4	2/A-8.8	door
SL1-ID811	810 Men's Washroom	301	A-8.2	2/A-8.4	2/A-8.8	door
SL1-ID812	811 Utility Room	301	A-8.2	2/A-8.4	2/A-8.8	door
SL1-ID813	812 Large Evidence Storage	301	A-8.2	SIM 2/A-8.4	2/A-8.8	door
SL1-ID814	812 Large Evidence Storage	301	A-8.2	1/A-8.4	2/A-8.8	wall adj to door
SL1-ID815	Decontamination Sign Stage 1 tba	303	A-8.2	---	4/A-8.8	centre instructional sign on wall
SL1-ID816	Decontamination Sign Stage 2 tba	303	A-8.2	---	4/A-8.8	centre instructional sign on wall

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks

Sign No.	Sign Message	Type	Plan	Elevation	Detail	Remarks
SL1-ID817	Decontamination Sign Stage 3 tba	303	A-8.2	---	4/A-8.8	centre instructional sign on wall
SL1-ID818	Decontamination Sign Stage 4 tba	303	A-8.2	---	4/A-8.8	centre instructional sign on wall
SL1-R1	(4) No Smoking within 9 m of building entry <i>french translation</i>	201	A-8.2	2/A-8.3	1/A-8.8	glass door
SL1-R2	(6)	302	A-8.2	3/A-8.4	3/A-8.8	door D-G155; withSL1-ID809
SL1-R3	(4) No Smoking within 9 m of building entry <i>french translation</i>	201	A-8.2	2/A-8.3	1/A-8.8	glass door
SL1-R4	(4) No Smoking within 9 m of building entry <i>french translation</i>	201	A-8.2	2/A-8.3	1/A-8.8	glass door
SL1-R5	(4) No Smoking within 9 m of building entry <i>french translation</i>	201	A-8.2	2/A-8.3	1/A-8.8	glass door

Part 1 General

1.1 SECTION INCLUDES

- .1 Metal toilet compartments, floor mounted, head rail braced.
- .2 Urinal screens; wall mounted with floor to ceiling tube brace.
- .3 Stainless steel shower partitions.

1.2 RELATED SECTIONS

- .1 Section 06 10 00 - Rough Carpentry: Blocking for partition panel support for partition panel support.
- .2 Section 10 28 14 - Washroom Accessories.

1.3 REFERENCES

- .1 ANSI A117.1 - Safety Standards for the Handicapped.
- .2 ASTM A167 - Stainless and Heat Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- .3 ASTM A424 - Steel Sheet for Porcelain Enameling.
- .4 ASTM A653/A653M - Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

1.4 SUBMITTALS

- .1 Submit shop drawings to requirements of Section 01 33 00.
- .2 Shop Drawings: Indicate partition plan, elevation views, dimensions, details of wall, and floor supports, door swings.
- .3 Product Data: Provide data on panel construction, hardware, and accessories.

1.5 REGULATORY REQUIREMENTS

- .1 Conform to ANSI A117.1 applicable code for access for the handicapped.

1.6 FIELD MEASUREMENTS

- .1 Verify that field measurements are as indicated on shop drawings.

1.7 COORDINATION

- .1 Coordinate the work with placement of support framing and anchors in wall.

Part 2 Products

2.1 ACCEPTABLE MANUFACTURERS

- .1 Shanahans, Model SML O.B.
- .2 Hadrian, Model Academy
- .3 G.S.W., Model Epic .
- .4 Bobrick

2.2 MATERIALS

- .1 Steel Sheet: ASTM A653/A653M, with G90 zinc coating
- .2 Stainless steel: ASTM A240, Type 304 stainless steel.

2.3 ACCESSORIES

- .1 Pilaster Shoe: Formed ASTM 167
- .2 Head Rails: Hollow stainless steel tube, 25 x 41 mm size, with socket wall brackets.
- .3 Shower benches: solid Maple benches sized as shown on drawings.
- .4 Attachments, Screws, and Bolts: Stainless steel.
- .5 Hardware: Stainless steel:
 - .1 Pivot hinges, gravity type, adjustable for door close positioning.
 - .2 Nylon bearings.
 - .3 Thumb turn door latch with exterior emergency access feature.
 - .4 Door strike and keeper with rubber bumper.
 - .5 Coat hook with rubber bumper.
 - .6 Door pull for outswinging doors.
- .6 Urinal screen wall attachment: continuous U channel.

2.4 FABRICATION

- .1 Fabricate toilet components of steel sheet as follows:
 - .1 Panel and Door Faces: 0.9 mm.
 - .2 Pilaster Faces: 0.9 mm.
 - .3 Reinforcement: 1.90 mm.
- .2 Fabricate shower components of stainless steel sheet as follows:
 - .1 Panel and Door Faces: 0.9 mm.

- .2 Pilaster Faces: 0.9 mm.
- .3 Reinforcement: 1.90 mm.
- .3 Doors and Panels:
 - .1 Thickness: 32 mm
 - .2 Door Width: as noted on drawings
 - .3 Height: 1 473 mm
- .4 Pilasters: 32 mm thick, of sizes required to suit cubicle width and spacing.
- .5 Door, Panel, and Pilaster Construction: Sheet steel face, pressure bonded to sound deadening core, form and close edges, miter and weld corners, grind smooth.
- .6 Internal Reinforcement: Provide in areas of attached hardware and fittings. Mark locations of reinforcement for partition mounted washroom accessories.

2.5 FINISHING

- .1 Painted panels:
 - .1 Clean, degrease, and neutralize panels.
 - .2 Follow immediately with a phosphatizing treatment, prime coat and two finish coats baked enamel.
 - .3 Single Colour: colour as selected.
- .2 Stainless Steel Surfaces: No. 4 finish.
- .3 Aluminum: Natural Anodized.
- .4 Non-ferrous Surfaces: Satin chrome plated.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify correct spacing of and between plumbing fixtures.
- .2 Verify correct location of built-in framing, anchorage, and bracing.

3.2 INSTALLATION

- .1 Install partitions secure, rigid, plumb, and level in accordance with manufacturer's instructions.
- .2 Maintain 9 to 13 mm space between wall and panels and between wall and end pilasters.
- .3 Attached panel brackets securely to walls using anchor devices.
- .4 Attach panels and pilasters to brackets with through bolts and nuts. Locate head rail joints at pilaster center lines.

- .5 Anchor urinal screen panels to walls with single continuous length panel bracket and free end with vertical upright consisting of pilaster anchored to floor and ceiling.
- .6 Provide adjustment for floor variations with screw jack through steel saddles integral with pilaster. Conceal floor fastenings with pilaster shoes.
- .7 Equip each door with two hinges, one door latch, one coat hook and bumper; outswinging door with pull.
- .8 Install door strike and keeper with door bumper on each pilaster in alignment with door latch.
- .9 Field touch-up of scratches or damaged enamel finish will not be permitted.
- .10 Replace damaged or scratched materials with new materials.

3.3 ERECTION TOLERANCES

- .1 Maximum Variation From True Position: 6 mm.
- .2 Maximum Variation From Plumb: 3 mm.

3.4 ADJUSTING

- .1 Adjust and align hardware to uniform clearance at vertical edge of doors, not exceeding 5 mm.
- .2 Adjust hinges to position doors in partial opening full closed position when unlatched. Return out swinging doors to closed position.
- .3 Adjust adjacent components for consistency of line or plane.

END OF SECTION

PART 1 GENERAL

1.1 SECTION INCLUDES

- .1 Cubical Curtain track.
- .2 Shower Curtains
- .3 Privacy Curtains

1.2 RELATED SECTIONS

- .1 Section 09 21 16 - Gypsum Board Assemblies.
- .2 Section 12 24 13 - Roller Window Shades.

1.3 MAINTENANCE DATA

- .1 Prior to substantial performance, provide consultant with manufacturers instructions covering care and maintenance of equipment to be included in maintenance manual as per General Requirements.

PART 2 PRODUCTS

2.1 CUBICAL CURTAIN

- .1 Curtain track (DT-1): continuous one piece extruded aluminum profile, 17 mm wide x 32 mm wide; AA6063 – T6 alloy; #6170 bulkhead mounted with Screws every 600 mm. Track layout as indicated on drawings; aluminum finish satin clear anodized suspension system.
- .2 Gliders: No. 6148 safety glider; one carrier per 150 mm of track.

2.2 CUBICLE CURTAINS

- .1 Curtain shall start at track and end as noted in schedule.
- .2 Curtains to be 10% wider than track length and leave no gap when closed.
- .3 Curtain to be sewn and constructed to withstand heavy duty cleaning procedure to temperatures up to 160deg. F.
- .4 High quality thread shall be used and shall correspond in colour and content to curtains. Curtain to have a sewn-on tag n the b0ottom right hand facing side on hem. Tag to list content of fabric for drape, cleaning instructions and fire retardant coding. Curtain shall have a top hem 50 mm wide of triple thickness material. Bottom hem 50 mm wide interlock and be two needle stitched, edges turned.
- .5 For shower curtains provide #0 nickel plated brass grommets placed every 150 mm.
- .6 Fabric (FB-1): shower liner; Milliken Shower shield; 100% Dacron polyester with Visa XL finish; 721” wide material; colour - Snow; fire retardant and antimicrobial.

- .7 Fabric (FB-2): Maharam privacy Curtain; fabric name- Segus 511310; 002 Linen colour' 50% Trevira CS Bioactive polyester, 50% polyester; 72 “ wide material.
- .8 Fabric (FB-3): Momentum Textiles; pattern name - Tribute; 100% polyester; 54” wide material; colour 09028303 Melon.

PART 3 EXECUTION

3.1 EXAMINATION

- .1 Verify that surfaces are ready to receive work.

3.2 CUBICLE CURTAIN AND TRACK

- .1 Install cubical curtain track to locations indicated on drawings.
- .2 Provide one ceiling mounted support at mid span of straight track and at corner of bent track.
- .3 Install track to bottom of bulkhead or ceiling.
- .4 Safety gliders to be sewn directly onto curtain fabric.
- .5 Where curtain has a liner curtain sew together at top of curtain with safety gliders.

3.3 SCHEDULE

Room No. / Name	Drapery Type	Total Number of Curtains Required	APPROXIMATE Overall Size MM – Dimensions are for reference only. Contractor to verify on-site dimensions/ conditions	Refer to Drawing
G121 Quiet Room	FB-2	1	Curtain to run entire width of room in west to east direction. Room width is 3785mm. Curtain to hang 100 mm from floor. Ceiling height is 2700 mm. Install Drapery Track DT-1.	A1.3
G130A Men’s Showers	FB-1	14		A1.3
G132A Women’s Showers	FB-1	6		A1.3
G141B Officer Decontamination	FB-1	1		A1.3

G174 Search Alcove	FB-3 FB-1	1 – entry 1- entry (liner)	Width of opening and pocket is 2170 mm. Ceiling height is 3000 mm. Curtain to hang 200 mm from floor. Install Drapery Track DT-1.	A1.3
	FB-3	1- entire north wall at window W-G174	Curtain to run across entire north wall at window W-G174. Width of room is 2130 mm. Dimension from ceiling to 60 mm below bottom window frame is 1650 mm. Install Drapery Track DT-1.	11/A6.2
G175 Search Alcove	FB-3 FB-1	1 – entry 1- entry (liner)	Width of opening and pocket is 2130 mm. Ceiling height is 3000 mm. Curtain to hang 200 mm from floor. Install Drapery Track DT-1.	A1.3
	FB-3	1- entire north wall at window W-G175	Curtain to run across entire north wall at window W-G175. Width of room is 2130 mm. Dimension from ceiling to 60 mm below bottom window frame is 1650 mm. Install Drapery Track DT-1.	11/A6.2

END OF SECTION

Part 1 General

1.1 SECTION INCLUDES

- .1 Toilet, shower, and washroom accessories.
- .2 Grab bars.
- .3 Attachment hardware.

1.2 RELATED SECTIONS

- .1 Section 08 80 00 - Glazing: Wall mirrors.
- .2 Section 09 31 00 - Thin Set Tiling.
- .3 Section 10 21 13 - Metal Toilet Compartments.

1.3 REFERENCES

- .1 ASTM A123/A123M - Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- .2 ASTM A167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- .3 ASTM A269 - Seamless and Welded Austenitic Stainless Steel Tubing for General Service.
- .4 ASTM A1008/A1008M - Steel, Sheet, Cold-Rolled Carbon, Structural, High-Strength Low Alloy and High Strength Low Alloy with Improved Formability.
- .5 ASTM B456 - Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.

1.4 SUBMITTALS

- .1 Section 01 33 00: Submission procedures.
- .2 Product Data: Provide data on accessories describing size, finish, details of function, attachment methods.
- .3 Samples: Submit two samples of each component, illustrating colour and finish when requested by Contract Administrator.

1.5 REGULATORY REQUIREMENTS

- .1 Conform to applicable code for access for the handicapped.

1.6 FIELD MEASUREMENTS

- .1 Verify that field measurements are as indicated on product data. instructed by the manufacturer.

1.7 COORDINATION

- .1 Coordinate the work with the placement of internal wall reinforcement and reinforcement of toilet partitions to receive anchor attachments.

Part 2 Products

2.1 MATERIALS

- .1 Sheet Steel: ASTM A366.
- .2 Stainless Steel Sheet: ASTM A167, Type 304.
- .3 Tubing: ASTM A269, stainless steel. .
- .4 Adhesive: Two component epoxy type Contact type, waterproof.
- .5 Fasteners, Screws, and Bolts: Hot dip galvanized, tamper-proof, and security type.
- .6 Expansion Shields: Fibre, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.2 FABRICATION

- .1 Weld and grind joints of fabricated components, smooth.
- .2 Form exposed surfaces from single sheet of stock, free of joints. Form surfaces flat without distortion. Maintain surfaces without scratches or dents.
- .3 Fabricate grab bars of tubing, free of visible joints, return to wall with concealed end attachment flanges. Knurl grip surfaces.
- .4 Shop assemble components and package complete with anchors and fittings.
- .5 Provide steel anchor plates, adapters, and anchor components for installation.

2.3 KEYING

- .1 Supply four keys for each accessory to The City.
- .2 Master key all accessories.

2.4 FINISHES

- .1 Galvanizing: ASTM A123 to 380 g/sq m. Galvanize ferrous metal and fastening devices.
- .2 Shop Primed Ferrous Metals: Pre-treat and clean, spray apply one coat primer and bake.
- .3 Enamel: Pre-treat to clean condition, apply one coat primer and minimum two coats electrostatic baked enamel.
- .4 Chrome/Nickel Plating: ASTM B456, Type SC 2 satin finish.

- .5 Stainless Steel: No. 4 satin lustre

- .6 Back paint components where contact is made with building finishes to prevent electrolysis.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify that site conditions are ready to receive work and dimensions are as indicated on shop drawings.

- .2 Verify exact location of accessories for installation.

3.2 PREPARATION

- .1 Deliver inserts and rough-in frames to site for timely installation.

- .2 Provide templates and rough-in measurements as required.

3.3 INSTALLATION

- .1 Install accessories in accordance with manufacturers' instructions and ANSI A117.1.

- .2 Install plumb and level, securely and rigidly anchored to substrate.

3.4 SCHEDULE

- .1 Refer to drawing A4.1 for accessory schedule.

END OF SECTION

Part 1

General

1.1 SECTION INCLUDES

- .1 Standard Lockers.
- .2 Police lockers.
- .3 Evidence lockers.
- .4 Property lockers.
- .5 Gun lockers.
- .6 Custom pass through lockers.
- .7 Metal bases, tops, and filler panels.
- .8 Locker benches.

1.2 RELATED SECTIONS

- .1 Section 06 10 00 - rough carpentry: blocking.
- .2 Section 06 20 00 - Finish Carpentry: boot rack / base.

1.3 REFERENCES

- .1 ASTM A653/A653M - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

1.4 SUBMITTALS FOR REVIEW

- .1 Section 01 33 00: Submission procedures.
- .2 Product Data: Provide data on locker types, sizes and accessories.
- .3 Shop Drawings: Indicate locker plan layout, numbering plan, key codes and locking details.
- .4 Samples: Submit two samples 75 x 150 x mm in size, of each colour selected; applied to specified base metal.

1.5 DELIVERY, STORAGE, AND PROTECTION

- .1 Section 01 61 00: Transport, handle, store, and protect products.
- .2 Protect locker finish and adjacent surfaces from damage.

Part 2 Products

2.1 GENERAL PURPOSE LOCKERS

.1 Materials

.1 Sheet Steel: Mild, cold rolled and levelled unfinished steel; to the following minimum thicknesses:

- .1 Body and Shelf: 0.6 mm
- .2 Door Outer Face: 1.2 mm
- .3 Door Inner Face: 0.9 mm
- .4 Door Frame: 1.5 mm
- .5 Hinges: 1.9 mm
- .6 Base: 0.9 mm
- .7 Sloping Top: 0.9 mm
- .8 Trim: 0.9 mm

.2 Fabrication

.3 Locker Units - (Room G109): 457 mm x 457 mm x 1830 mm; 4 tier; Surface mounted; sloped top with closures; equipped for padlock hasps; 100 mm metal base; provide one double pronged hook in each tier.

.4 Locker Units - (Room G121): 457 mm x 457 mm x 1830 mm; single tier; recessed mounted; closures; equipped for padlock hasps; 100 mm metal base; provide two double prong wall hooks, hat shelf, rubber bumper.

.5 Locker Units - (Room G178): 457 mm x 610 mm x 1830 mm; double tier; surface mounted; sloped top with closures; 100 mm metal base; provide two double prong wall hooks, rubber bumper. Integral Cylinder Lock master keyed ; provide two keys per lock and four master keys

.6 Locker Body: Formed and flanged; with steel stiffener ribs; electric spot welded.

.7 Frames: Formed channel shape, welded and ground flush, welded to body , resilient gaskets and latching for quiet operation.

.8 Doors: Hollow sandwich construction, 30 mm thick; welded construction, channel reinforced top and bottom with intermediate stiffener ribs, acoustic insulation fill, grind and finish edges smooth.

.9 Hinges: Two for doors under 1 050 mm high; three for doors over 1 050 mm high; weld securely to locker body and door.

.10 Number Plates: Provide rectangular shaped aluminum plates.

.11 Provide ventilation openings at top and bottom of each locker.

.12 Form recess for operating handle and locking device.

.13 Finish edges smooth without burrs.

- .14 Fabricate sloped metal tops , ends and closure pieces.

2.2 SPECIALTY LOCKERS

.1 Materials

- .1 Sheet Steel: Mild, cold rolled and levelled unfinished steel; to the following minimum thicknesses:
 - .1 Body and exterior panels: 1.5 mm
 - .2 Door Outer Face: 1.5 mm ; 3.4 mm for gun lockers.
 - .3 Door Inner Face: 1.2 mm
 - .4 Door Frame: 1.9 mm
 - .5 Hinges: 2.5 mm
 - .6 Base: 1.5 mm
 - .7 Sloping Top: 1.5 mm
 - .8 Trim: 1.5 mm

.2 Fabrication

- .1 Locker Units - (Room G130 and G132 Men's and Women's Lockers): welded construction; 610 mm x 610 mm x 1524 mm; double doors; mounted on boot tray; sloped tops; lockable compartment inside; cylinder locks on each locker, keyed alike with interior lockable compartment; all lockers master keyed ; provide two keys per lock and four master keys. Refer to drawings for locker configuration and locations.
- .2 Locker Units - (Room G157 Evidence Storage): Evidence storage lockers; front access only; welded construction; cylinder locks on each door, provide two keys per lock and two master keys, master key all locks in this room. Provide sloping tops and 100 mm base. Refer to drawings for size and configurations.
- .3 Locker Unit - (Room G177 Gun Lockers): Gun lockers; welded construction; cylinder locks on each door, felt lined compartments; provide two keys per lock and two master keys, master key all locks in this room. Refer to drawings for size and configurations.
- .4 Locker Units - (Room G141 / G144): pass through locker; welded construction; door on front and back; 300 mm x 300 mm x 450 mm; mounted side by side as shown on drawings; provide double prong hooks on each side wall.
 - .1 Locking requirements: each unit to be keyed differently; door on each side of each unit to be keyed alike for access from both sides. Doors must be lockable/unlockable from the inside of the locker (capable of being unlocked or locked from opposite room).

.3 Fabrication General

- .1 Locker Body: Formed and flanged; with steel stiffener ribs; fully welded.
- .2 Frames: Formed channel shape, welded and ground flush, welded to body , resilient gaskets and latching for quiet operation.
- .3 Doors: Hollow sandwich construction, 30 mm thick; welded construction, channel reinforced top and bottom with intermediate stiffener ribs, acoustic insulation fill, grind and finish edges smooth.

- .4 Hinges: Two for doors under 1 050 mm high; three for doors over 1 050 mm high; weld securely to locker body and door.
- .4 Number Plates: Provide rectangular shaped aluminum plates.
- .1 Provide ventilation openings at top and bottom of each locker door edge perimeter.
- .2 Form recess for operating handle and locking device.
- .3 Finish edges smooth without burrs.
- .4 Fabricate sloped metal tops , ends and closure pieces where required..
- .5 Provide end panels and filler strips.

2.3 FINISHES

- .1 Clean, degrease, and neutralize metal; prime and finish with two coats of baked enamel.
- .2 Colour: colours as selected from manufacturer's standard range.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify that prepared bases are in correct position and configuration.
- .2 Verify bases and embedded anchors are properly sized.

3.2 INSTALLATION

- .1 Install in accordance with manufacturer's instructions.
- .2 Install lockers plumb and square.
- .3 Secure lockers with anchor devices to suit substrate materials. Minimum Pullout Force: 445 N.
- .4 Bolt adjoining locker units together to provide rigid installation.
- .5 Install end panels, filler panels, sloped tops, and bases.
- .6 Install accessories.
- .7 Replace components that do not operate smoothly.

3.3 CLEANING

- .1 Section 01 74 00: Cleaning installed work.
- .2 Clean locker interiors and exterior surfaces.

Project No. 2003-191
Winnipeg Police Service
East District Police Station
1750 Dugald Road

Section 10 51 13
METAL LOCKERS

Page 5

END OF SECTION

Part 1 General

1.1 SECTION INCLUDES

- .1 Closed type metal storage shelving

1.2 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.

1.3 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM A653/A653M-01a, Standard Specification for Steel Sheet, Zinc-Coated, (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.81-M90, Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
 - .2 CAN/CGSB-1.88-92, Gloss Alkyd Enamel, Air Drying and Baking.
 - .3 CGSB 31-GP-107Ma-90, Non-inhibited Phosphoric Acid Base Metal Conditioner and Rust Remover.
- .3 Canadian Standards Association (CSA)
 - .1 CSA-G40.20/G40.21-98(June 2000), General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
 - .2 CSA W59-M1989(R2001), Welded Steel Construction (Metal Arc Welding) (Metric Version).

1.4 DESIGN REQUIREMENTS

- .1 Design shelving to accommodate vertical adjustment of shelves in 50 mm increments and to permit easy assembly, expansion, dismantling and re-use of shelving component parts.
- .2 Each shelf to accommodate minimum 135 kg evenly distributed load.

1.5 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Indicate shelving layouts, number of bays, number of shelves, number and size of drawers, bins, number of dividers, system of bracing and anchoring devices.

Part 2 Products

2.1 MATERIALS

- .1 Galvanized steel sheet: commercial grade to ASTM A653/A653M with Z275 zinc coating.
- .2 Steel sections and plates: to CAN/CSA G40.20/G40.21, Type 400 W.
- .3 Steel bolts, nuts and washers: to ASTM A490M.
- .4 Welding materials: to CSA W59.

2.2 SHELVING

- .1 Storage shelving: Industrial steel shelving; Distributed by Wearing Williams Ltd.
 - .1 Size: width 600 mm, length 1200 and 912 mm x 2134 high with 5 bays.

2.3 COMPONENTS

- .1 Uprights: roll formed steel tees with perforations to accommodate shelves and other components.
- .2 Shelves: brake formed sheet metal, 1.2 mm thick steel, reinforced to carry specified loads. Punch holes in shelves to accommodate dividers and other components.
- .3 Kickplates: formed sheet metal to close opening between bottom shelf and floor on front and on sides of shelving bay.
- .4 Back: 0.6 mm core thickness steel sheet to enclose shelving bay extending from bottom shelf to top shelf.
- .5 Side panels: 0.6 mm core thickness steel sheet panels to close ends of shelving bays or sections and as partitions between adjacent bays.
- .6 Gusset plates: heavy gauge metal plates to reinforce corner connections of shelving components.
- .7 Base plates: metal or plastic plates to take uprights and to protect floor surfaces.

2.4 FINISH

- .1 Finish shelving system painted in standard light grey .
- .2 Condition metal by applying one coat of metal conditioner to CGSB 31-GP-107Ma.
- .3 Apply one coat type 2 primer to CAN/CGSB-1.81 and bake.
- .4 Apply two coats of type 2 enamel to CAB/CGSB-1.88 and bake to hard durable finish.
- .5 Manufacturers or brand names on face of units are not acceptable.

Part 3 Execution

3.1 INSTALLATION

- .1 Do metal storage shelving work except where specified otherwise.
- .2 Install metal storage shelving in accordance with reviewed layout.
- .3 Brace, secure and anchor shelving units in place.
- .4 Make good baked enamel surfaces damaged during shipment or installation.

3.2 SCHEDULE

- .1 Archived Storage G 156: 9 units 1200 mm wide, 1 unit 914 mm wide.
- .2 Janitor G 122: 3 units 1200 mm wide.
- .3 Storage G 19: 5 units 1200 mm wide.
- .4 Janitor G164: one unit 1200 mm wide.
- .5 Evidence Storage G154: 3 Units 1200 mm wide.
- .6 Broom G148: 1 unit 1200 mm wide.
- .7 Auto supplies G151: 2 units 1200 mm wide.
- .8 Storage G110: 5 units 1200 mm wide.

END OF SECTION