

Part 1 General

1.1 SECTION INCLUDES

- .1 Roof curbs, perimeter nailers; parapets;
- .2 Blocking in wall and roof openings.
- .3 Sheathing.
- .4 Wood decking.
- .5 Wood furring and grounds; over head door bucks.
- .6 Roof / wall air - vapour barrier transition backing.
- .7 Concealed wood blocking for support of all items and equipment deriving support from the walls or ceilings.
- .8 Telephone and electrical panel back boards.

1.2 RELATED SECTIONS

- .1 Section 03 30 00 – Cast-In-Place Concrete: Concrete openings to receive wood blocking.
- .2 Section 04 22 00 – Concrete Unit Masonry System: Masonry openings to receive wood blocking.
- .3 Section 06 20 00 - Finish Carpentry.
- .4 Section 09 21 16 - Gypsum Board Assemblies.
- .5 Section 07 52 00 - SBS Modified Bituminous Roofing.
- .6 Section 07 62 00 - Sheet Metal Flashing.

1.3 REFERENCES

- .1 CSA O80M - Wood Preservation.
- .2 NLGA (National Lumber Grades Authority) - Standard Grading Rules for Canadian Lumber.
- .3 CSA O121M - Douglas Fir Plywood.
- .4 CSA O141 - Softwood Lumber.
- .5 CSA O151M - Canadian Softwood Plywood.

1.4 QUALITY ASSURANCE

- .1 Perform Work in accordance with the following agencies:
 - .1 Lumber Grading Agency: Certified by NLGA.
 - .2 Wood Treatment: CSA O80M.

Part 2 Products

2.1 MATERIALS

- .1 Lumber Grading Rules: NLGA
- .1 Miscellaneous Framing: CSA O141, Non-structural light grading 19 percent maximum moisture content.
- .2 Plywood: CSA O121M - Douglas Fir CSA O151M - Softwood type, with waterproof glue.
- .3 Roof decking: species Group D; No. 2 grade or better; Douglas Fir; tongue and grooved; factory prefinished. Distributed by Western Archrib

2.2 ACCESSORIES

- .1 Fasteners and Anchors:
 - .1 Fasteners: Hot dipped galvanized steel meeting CAN/CSA-G164, minimum coating of 300 g/m² for high humidity and treated wood locations, unfinished steel elsewhere.
 - .2 Anchors: Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolt or ballistic fastener for anchorages to steel.

2.3 FACTORY WOOD TREATMENT

- .1 Wood Preservative (Pressure Treatment): CSA O80M using water borne preservative with 0.30 percent retainage, manufactured by Wolman.

2.4 FINISH - WOOD DECKING

- .1 Wood deck members:
 - .1 Interior finish: Factory finish all surfaces of glued laminated members with 2 coats of Minwax "Wood Finish" semi-transparent stain installed as per manufacturers written instructions and aqua guard sealers. Colour to be Minwax 209 – natural.

Part 3 Execution

3.1 FRAMING

- .1 Set members level and plumb, in correct position.

- .2 Place horizontal members, crown side up.
- .3 Construct curb members of single pieces.
- .4 Space framing and furring 400 mm oc.
- .5 Curb roof openings except where prefabricated curbs are provided. Form corners by alternating lapping side members.
- .6 Coordinate curb installation with installation of decking and support of deck openings, roofing vapour retardant, parapet construction.
- .7 Place miscellaneous blocking, furring, strapping, canting, nailing strips, framing and sheathing where indicated on drawings and as required for secure support of anchorage of other specified materials. Place members true to lines and levels. Secure rigidly in place.
- .8 Coordinate the installation of bucks, anchors, blocking, electrical and mechanical work which is to be placed in or behind partitions. Allow such items to be installed after partition framing is complete. Ensure that allowance is made for thickness of wall finish to be applied.

3.2 SHEATHING

- .1 Place sheathing with end joints staggered. Secure sheets over firm bearing. Maintain minimum 1.5 mm and maximum 3 mm spacing between joints on walls. Place perpendicular to framing members.
- .2 Install telephone and electrical panel back boards with plywood sheathing material where required. Size the back board by 300 mm beyond size of electrical panel.

3.3 BLOCKING

- .1 Provide blocking for all other trades attaching items to walls or ceilings.

3.4 SITE APPLIED WOOD TREATMENT

- .1 Apply preservative treatment in accordance with manufacturer's instructions.
- .2 Brush apply one two coats of preservative treatment on wood in contact with cementitious materials and roofing and related metal flashings. Treat site-sawn cuts.
- .3 Allow preservative to dry prior to erecting members.

END OF SECTION

Part 1 General

1.1 SECTION INCLUDES

- .1 This specification shall cover the supply and installation hockey rink pens and boxes, play area timber edging. The Contractor shall furnish all superintendence, overhead, labour, materials, equipment, tools, supplies and all other things necessary for and incidental to the satisfactory performance and completion of all Work as shown on the Drawings and as specified herein.

1.2 RELATED SECTIONS

- .1 Section 31 21 13 - Rough Grading
- .2 Section 32 37 01 – Play Equipment and Site Furnishings

1.3 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CSA B111-[1974(R1998)], Wire Nails, Spikes and Staples.
 - .2 CAN/CSA-G164-[M92(R1998)], Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CSA O121-[M1978(R1998)], Douglas Fir Plywood.
 - .4 CAN/CSA-O141-[91(R1999)], Softwood Lumber.
 - .5 CSA O151-[M1978(R1998)], Canadian Softwood Plywood.
 - .6 Standard Grading Rules for Canadian Lumber [2000].

1.4 QUALITY ASSURANCE

- .1 Lumber identification: by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.

Part 2 Products

2.1 MATERIAL

- .1 All material shall be supplied as shown on the drawings. Lumber shall be hand selected and free of wanes, splits and cracks.
- .2 All fasteners shall be galvanized or better.

Part 3 Execution

3.1 WORKMANSHIP AND MATERIALS

- .1 All workmanship and all materials furnished and supplied under this Specification are subject to close and systematic inspection and testing by the Contract Administrator including all operations from the selection and production of materials through to final

acceptance of the specified work. The Contractor shall be wholly responsible for the control of all operations incidental thereto notwithstanding any inspection or approval that may have been previously given. The Contract Administrator reserves the right to reject any materials or works which are not in accordance with the requirements of this specification, the drawings, and accepted standards of good construction practices.

END OF SECTION

Part 1 General

1.1 SECTION INCLUDES

- .1 Finish carpentry items including shop prefabricated casework and countertops.
- .2 Hardware and attachment accessories.

1.2 RELATED SECTIONS

- .1 Section 06 10 00 - Rough Carpentry.
- .2 Section 08 14 16 - Flush Wood Doors.
- .3 Section 09 90 00 - Painting and Coatings.
- .4 Mechanical items in casework.
- .5 Electrical items in casework.

1.3 REFERENCES

- .1 ANSI A208.0 – Medium Density Fiberboard
- .2 ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.
- .3 NLGA (National Lumber Grades Authority) - Standard Grading Rules for Canadian Lumber.
- .4 AWI / AWMAC QSI - Quality Standards Illustrated.

1.4 SUBMITTALS

- .1 Shop Drawings: Indicate materials, component profiles and elevations, assembly methods, joint details, fastening methods, accessory listings, hardware location and schedule of finishes.
- .2 Submit two samples of wood trim, and door/ window framing material 300 mm long.

1.5 QUALITY ASSURANCE

- .1 Perform work in accordance with AWI /AWMAC QSI Custom Quality.

1.6 QUALIFICATIONS

- .1 Fabricator: Company specializing in fabricating the products specified in this section with minimum five years documented experience.

1.7 DELIVERY, STORAGE, AND HANDLING

- .1 Protect work from moisture damage.

- .2 Store materials in ventilated interior locations with constant minimum temperatures of 16 degrees C and maximum relative humidity of 55 percent.

1.8 COORDINATION

- .1 Coordinate the work with plumbing and electrical rough-in, installation of associated and adjacent components.

1.9 FIELD MEASUREMENTS

- .1 Verify that field measurements are as on shop drawings instructed by the manufacturer.

Part 2 Products

2.1 LUMBER MATERIALS

- .1 Softwood Lumber: Graded in accordance with AWMAC Custom; Clear Fir species, maximum moisture content of 6 percent, of quality suitable for transparent finish.

2.2 SHEET MATERIALS

- .1 Medium Density Fiberboard (MDF): ANSI A208.2; composed of wood fibre, 769 kg/m³ density, water resistant adhesive; sanded faces.
- .2 Hardboard: ANSI A135.4; Pressed wood fibre with resin binder, standard tempered grade, 6 mm thick, smooth one two sides.
- .3 Solid Surfaces (SCC-1): Corian; Cast, nonporous, filled polymer, of composite construction with through body colors meeting ANSI Z124.3 or ANSI Z124.6; 19mm thick; colour to be Gray Fieldstone (F).
- .4 Solid Surfaces (SCC-2): Corian; Cast, nonporous, filled polymer, of composite construction with through body colors meeting ANSI Z124.3 or ANSI Z124.6; 19mm thick; colour to be Gravel (F).
- .5 Stainless steel counter top: Type 304 No 4 finish 18 ga stainless steel laminated to substrate as per details.

2.3 PLASTIC LAMINATE MATERIALS

- .1 Plastic Laminate: to CAN3-A172- M; 0.050 inch General Purpose quality; colour, pattern, and surface texture as selected.
- .2 All laminate with a grain shall be installed with grain running vertical.
 - .1 PLAM-1: Nevamar Fine Sycamore Textured; W-8-351 T.
 - .2 PLAM-2: Formica 3690-58 Basalt Slate; Matte Finish.
 - .3 PLAM-3: Formica 3692-44; Labrador Granite, Matte Finish, Duraline high wear laminate, Note: This laminate is not a standard item, 3-4 week delivery lead time.
 - .4 PLAM-4: Pionite Gem on the Hill; AV991-Suede.

- .5 PLAM-5: Pionite Negotiating in Geneva PFA60. Suede Finish.
- .6 PLAM-6: Pionite Sable AG021. Suede Finish.
- .7 PLAM-7: Pionite Slate Element AV791. Suede Finish.
- .8 PLAM-8: Wilsonart 4882-60 HW, Grade EX HW107, Oiled Soapstone, High Wear Laminate, 2-3 week delivery lead time.
- .9 PLAM-9: Wilsonart 7949-38 Asian Night
- .10 PLAM-10: Arborite Tatami Wasabi P-297-CA

- .3 Laminate Backing Sheet: 0.020 inch Backing Sheet grade, undecorated plastic laminate; manufactured by .

2.4 FASTENERS

- .1 Fasteners: Of size and type to suit application.

2.5 ADHESIVE

- .1 Adhesive: low VOC type recommended by laminate manufacturer to suit application.

2.6 ACCESSORIES

- .1 Wood Filler: tinted to match surface finish colour.

2.7 EDGE TAPES

- .1 Edge Tape (ET-1): Doellken - Woodtape; Riviera Maple 3728; 3mm thick.
- .2 Edge Tape (ET-2): Woodtape Accent Edge PVC; Black 2416; 3mm thick.
- .3 Edge Tape (ET-3): Woodtape Accent Edge PVC; Dove Grey 2426; 3mm thick.
- .4 Edge Tape (ET-4): Woodtape Accent Edge PVC; Slate 2431; 3mm thick.

2.8 HARDWARE

- .1 Shelf Rests: Steel shelf standards and rests: Knape and Vogt 255 c/w 256 supports Nickel finish.
- .2 Drawer and Door Pulls: Richelieu model no 3487.143; 170 stainless steel finish; 5 5/8" c.c.
- .3 Coat rods: KV 770 1 Bright Chrome tubing; with #734 end flanges; provide one centre support per 1200 mm length, # 760.
- .4 Cabinet Locks: Keyed cylinder, two keys per lock, keyed differently and master keyed, steel with chrome finish. Provide locks on all doors and drawers.
- .5 Catches: Elbow catch on inactive leaf.

- .6 Drawer Slides: Galvanized steel construction, ball bearings separating tracks, full extension type. K V 1428, length to suit.
- .7 Hinges: concealed hinges, 176° opening, spring closed, steel with satin finish.
- .8 Grommet: 50 mm inside diameter circular black plastic.
- .9 Computer Keyboard / monitor hardware: concealed keyboard and monitor hardware; Flip It Generation II manufactured by cbt Supply; WWW.smartdesks.com.
- .10 Coat Hooks: Richelieu T5630-140 Chrome finish; location – Gymnasium Change Rooms and Electronics Lab Locker.
- .11 Computer Keyboard Tray: Humanscale Model No. 5G90091HG. Contact - tyurett@humanscale.com.
- .12 Stainless steel piano hinge.
- .13 Touch Latch: hardware:
- .14 Dual Swing Gate hinge.
- .15 Gate Catch with heavy duty lock.

2.9 FABRICATION CASEWORK

- .1 Fabricate to AWI /AWMAC QSI Custom standards.
- .2 Shop assemble work for delivery to site, permitting passage through building openings.
- .3 All casework shall be constructed as noted below unless otherwise noted on the drawings:
 - .1 All casework to be plastic laminate on 19 mm MDF core unless otherwise indicated.
 - .2 Drawers: plastic laminate on 16 mm MDF sides, front (box drawers) and back with 6 mm hardboard bottoms.
 - .3 Case body edges (gables, bottoms etc.) to have plastic laminate edging to match adjacent laminate.
 - .4 Drawer fronts and doors shall be plastic laminate on 19 mm MDF core.
 - .5 Cap exposed door edges, drawer edges and shelving edges with 3 mm PVC edge tape , colour as selected.
 - .6 Cap counter top edges with 3 mm PVC edge tape as shown on drawings , colour as selected.
 - .7 Apply edging to all edges of loose shelves.
 - .8 Bases and kicks to be Veneer core plywood core, finish as per schedule and drawings.

- .9 Cabinet backs to be 6mm prefinished masonite to match interior of cabinet
- .10 All plastic laminate with a grain shall run vertically.
- .4 Provide cut outs for plumbing fixtures, fixtures and fittings. Verify locations of cut outs from on-site dimensions. Seal cut edges.
- .5 When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.
- .6 Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 600 mm from sink cut-outs.
- .7 Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify adequacy of backing and support framing.
- .2 Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.

3.2 INSTALLATION

- .1 Install work in accordance with AWI /AWMAC QSI Custom Quality Standard.
- .2 Set and secure materials and components in place, plumb and level.
- .3 Carefully scribe work abutting other components. Do not use additional overlay trim to conceal larger gaps.
- .4 Wood trim shall be installed using the longest possible lumber lengths. Adjacent boards shall be selected and positioned for matching colour and grain. Butting joints shall be scarfed. Nails shall be set and holes filled to match wood colour.

3.3 INSTALLATION CASEWORK

- .1 Set and secure casework in place; rigid, plumb, and level.
- .2 Use fixture attachments in concealed locations for wall mounted components.
- .3 Use concealed joint fasteners to align and secure adjoining cabinet units and counter tops.
- .4 Carefully scribe casework abutting other components, with maximum gaps of 1.5 mm. Do not use additional overlay trim for this purpose.
- .5 Secure cabinet and counter bases to floor using appropriate angles and anchorages.

3.4 ERECTION TOLERANCES

- .1 Maximum Variation from True Position: 1.5 mm.

- .2 Maximum Offset from True Alignment with Abutting Materials: 1 mm.

END OF SECTION