SPECIFICATIONS

FIREHALL ADDITION KINMOUNT FOR CITY OF KAWARTHA LAKES

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CKL 23042/Specifications

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- 1.1. The client is City of Kawartha Lakes
- 1.2. Construction will be reviewed periodically by the Owner, the Architect, and subconsultants. The Architect will be the administrator of the contract.

2. WORK UNDER THIS CONTRACT

2.1. Work includes for:

Construct new single storey addition to existing Firehall including new gear storage rea, universal washroom, utility space and kitchenette. Also, demolition work in apparatus bay with new higher overhead door and lintel. Includes all mechanical/electrical services and related siteworks.

- 1. Cash allowances shall be expended only on the Architect's/owner's written instructions.
- 2. The Contractor's charges for overhead and profit on account of Cash Allowance shall be included in the Contract Amount in accordance with G.C. 4.1 of the General Conditions of the Contract as amended.
- 3. Credit the Owner with any unused portion of Cash Allowances in the statement for final payment.
- 4. If a test made under payment by a specified allowance proves that the material tested is unacceptable, then the subsequent testing and replacement materials shall be at Contractor's expenses.
- 5. Include in the stipulated sum quoted a single Cash Allowance in the amount of \$10,000.00.
 - 1) Inspection and testing
 - 2) Supply of finish door hardware

TOTAL \$10,000.00

- 1.1. Demolition and/or removal means the complete removal of all items and associated work from the site and the making good of all disturbed surfaces affected to acceptable finishes.
- 1.2. Electrical and mechanical demolition for installation of heating, ventilation, and electrical lighting including light fixtures and associated systems is the responsibility of the respective trade under supervision of the general contractor. See mechanical and electrical drawings.
- 1.3. Remove existing components as required for installation of new work as noted. Confirm locations of all existing services on site prior to demolition activities.
- 1.4 Provide adequate temporary support for existing load bearing components and structural revisions called for.
- 1.5 Remove existing finishes, insulation, and exterior wall components as indicated on the demolition drawings.
- 1.6 Confirm locations for bins for removals in advance of work.
- 1.7 Retain existing water service and floor drain piping for reuse.

2. EXECUTION

- 2.1. Note that work is being performed within an existing building and the contractor is to provide protection of the work and property including neighbouring structures and parking lots in accordance with Part 9 of CCDC 2.
- 2.2. Keep access areas to work reasonably clean during work and on completion perform final cleaning as specified.

- 1.1. Comply with requirements of Division 1 and co-ordinate with Section 02800 Site Work as well as review by inspection and testing company.
- 1.2. All asphalt paving preparation subbase and installation to design as below in accordance with the site plan.
- 1.3. Paint all line work demarking revised parking layout as per site plan.

2. MATERIALS & EXECUTION

2.1. Asphalt Paving - Patching & New Areas

- 2.1.1. Excavate and remove existing grade sufficiently for design for asphalt replacement/repair as follows:
 - 18" (450 mm) Granular B compacted to 95% Proctar
 - 6" (150 mm) Granular A compacted to 95% Proctar
 - 2" (50 mm) HL 8 Binder Course
 - 1 ½" (40 mm) HL 4 Surface Course
- 2.1.2. Provide drainage and slopes as per grading information on site plan.
- 2.1.3. All products and execution to MTO standards.

2.2 Concrete Walkways

- 2.2.1 5" thick concrete slab size noted with minimum compressive strength of 30 MPA at 28 days, 5-7% air entrainment, maximum 3"slump.
- 2.2.2 Welded steel mesh $6 \times 6 9/9$.
- 2.2.3 Excavate and remove existing grade sufficiently to place 6" compacted granular 'B' fill.
- 2.2.4 Install slab minimum 2% slope to grade and provide broom finish.
- 2.2.5 Provide control and expansion joints and all work to Municipal standards.

2.3 **Sod & Topsoil**

2.3.1 Use nursery sod on minimum 6" topsoil for landscaped areas as noted on site. Water and provide first cut.

- 1.1. Comply with requirements of Division 01.
- 1.2. Work of this section includes supply and placing of concrete at slab removals.
- 1.3. All workmanship to be performed by skilled and experienced workmen with a competent supervisor to be on site continuously throughout each work day.
- 1.4. Protect existing and new construction. Be responsible for repair and/or replacement of items damaged in the construction of this work.
- 1.5. Co-ordinate with Structural drawing and specifications.

2. MATERIALS

- 2.1. The ultimate 28 day compressive strength of concrete unless noted otherwise, shall be 25 Mpa with air entrainment content of 5.9% to 7% and maximum water/cement ratio by mass of 0.55.
- 2.2. The concrete supplier shall be responsible for concrete mix design conform to CSA A23.
- 2.3. Only read mix concrete is permitted on this job.
- 2.4. Vapor barrier to be 6 mil polyethylene
- 2.5. Joint filler to be non-extruded pre-moulded fibre type saturated in bituminous binder.

3. EXECUTION

- 3.1. Supply and install concrete, including placing, finishing and curing as shown in accordance with CSA A23 and CSAG30.
- 3.2. Install pre-moulded joint filler at all junctions of slab with foundation wall.

- 3.3. Provide new concrete slabs, as noted on the drawings, over vapour barrier steel trowel finish. Provide slopes to drain in storage building as called for.
- 3.4. Provide two coats of clear sealer.

- 1.1. Comply with General Requirements Division 01.
- 1.2. Submit samples of block and brick before delivery to site.
- 1.3. Building in all miscellaneous inserts, anchors, blocking sleeves, lintels, conduit and other accessories as required.
- 1.4. Co-ordinate work with Section 07411 Preformed Metal Siding, Ceiling & Soffits.

2. MATERIALS

- 2.1. Concrete Block: All hollow concrete block shall be autoclave block having a minimum compressive strength of 7.5 MPa on the gross area, standard metric to sizes as indicated on the drawings and details. Concrete block to be thickness as per drawings to Atlas Block Co. Ltd. or equal. Stone facing masonry to be Royal Stones. Limestone Aspen or equal complete with precast stone sills.
- 2.2. Mortar shall be type N grey colour conforming to CSA CAN 3-5304-M78 and type S for load bearing walls to CSA standard A179, mortar and grout for unit masonry.
- 2.3. Non Shrink Grout: M-bed by Sternson Ltd.
- 2.4. Flexible Membrane: Damp proof course and through wall flashing. Blue Skin TWF S.A. as manufactured by Henry Bakor.
- 2.5. Joint Reinforcement: Heavy Duty ladder type reinforcing for all single wythe masonry walls and extra heavy duty ladder type Blok-Lok for all walls with 2 wythes. Co-ordinate work with Structural drawings and Specifications.
- 2.6. Flexible anchors for cavity wall to be hot dipped galvanized 3/16" wire type BL 42 with adjustable Econo-Cavity Lock II complete with wedgelock insulation retainers as manufactured by Blok-Lok Ltd.
- 2.7. Cavity Wall Ventilators: shall be PVC Weephole Ventilators (brick type, approx. 60 mm high) as supplied by Goodco Ltd., Form & Build Supply Inc., Blok-Lok or approved equal.

- 2.8. Exterior wall insulation to be 64 mm thick polyisocyanurate R7/inch (conditioned R value) to C.G.S.B-51.26-M86 Type 1.
- 2.9. Self Adhesive Air Barrier: Blue Skin S.A. and Blue Skin primer as manufactured by Henry Bakor or equal for cavity walls.
- 2.10. Provide control joints maximum 25'-0" o/c or as indicated on drawings.
- 2.11. Mort Mat for Cavity Wall: Mortar dropping control device (cavity drainage mat) high density polyethylene or nylon mesh in trapezoidal configuration designed to facilitate effective drainage of moisture to weep holes; thickness to suit air space: "The Mortar Net" by JV Building Supply (905) 851-3744, or "Mortar Maze" by Form & Build Supply.

3. **EXECUTION**

- 3.1 Give other trades notice of intention to proceed and incorporate anchors and other components to ensure proper installation of later work.
- 3.2 Lay block in running bond (half-bond) pattern. Select units randomly from cubes so as not to create a defined pattern.
- 3.3 Provide and maintain protection for masonry walls at all times when work is interrupted or temporarily ceased to prevent moisture from entering unfinished walls.
- 3.4 Comply with CSA A371-94 and use CSA A224 for cold weather requirements.
- 3.5 Joints shall be neatly tooled to produce concave joints. All interior surfaces ready for paint finishes.
- 3.6 Masonry shall be carried up solid between joints and built tight around beams and lintels with all voids full. Provide minimum 6" bearing for steel lintels bearing on masonry. Bearing shall be on solid masonry 8" deep and projecting 8" on each side of beam or base plate.

- 3.7 Install reinforcing continuously at every second course securely fastened to substrate unless noted otherwise.
- 3.8 Brace and support work as required during operation until final set is achieved.
- 3.9 Install masonry reinforcing in 2 consecutive courses above and below all openings in walls, extending not less than 600 mm (2') on each side of opening. Install metal angles for all door and window opening perimeters as per details and fasten securely to block for support of door/window framing.
- 3.10 Build in hollow metal frames and ensure that anchors are solidly bedded. Fill hollow metal frames completely with grout. Install pressure treated wood blocking and securely anchor as per details.
- 3.11 Set lintels and other members that lay on masonry. Group them accurately in place and fill voids solid under joist and beam bearings, vertical reinforcing, and as noted on the drawings.
- 3.12 Install damp proof courses and through wall flashings on smooth bed, lap joints minimum 6" (see details) with mortar mat at base of all cavity walls and stud walls to receive brick.
- 3.13 Install through wall flashings at heads of all exterior openings, over shelf angles and loose lintels.
- 3.14 For air barrier areas install primer by brush, roller or spray and let dry for minimum 30 minutes followed by self-adhesive membrane over all block/stud sheathing surfaces returning into all openings around all metal supports behind door/window frames and connecting to attic vapour barrier for continuous air/vapour barrier system. Lap all joints minimum 2" and cut/fit neatly around all masonry anchors sealing with Air-Bloc 21. Install pressure-treated wood blocking supports around window and door perimeters as per details. Install insulation boards horizontally with staggered vertical joints and fill all joints. Install hook ties and wedgelock fasteners to secure insulation boards.
- 3.15 Carry through wall flashing not less than (8") back-up material before turning into joint and through back-up wall. Keep flashing (1") from the exterior face. Lay flashings in full mortar bed. Maintain all flashings and keep cavity clean during construction. Install vents at 2' o/c for all lintels and base flashings. Install mortar mat and keep cavity clean.

- 3.16. Install cavity wall ventilators at 800 mm o/c at the following locations:
 - at the bottom of all exterior cavity walls
 - elsewhere as indicated on wall section details
- 3.17. Install stone neatly in random pattern to align with openings in block substrate and tie in with reinforcing.
- 3.18. Clean masonry surfaces with water, detergent or proprietary masonry cleaner and brushes. Do not use muriatic acid.

- 1.1. Comply with requirements of Division 1.
- 1.2. Supply all fastening devises, nails, bolts, etc., for work of this section.
- 1.3. Store all products to maintain dimensional stability.
- 1.4. Comply with O.B.C. Section 9.3, 9.4, 9.17, 9.23.
- 1.5. Co-ordinate work with Section 07411 Preformed Metal Siding, Roofing, Ceiling & Soffits.

2. MATERIALS

- 2.1. Lumber: Spruce-Pine-Fir, species group designation of National Lumber Grades Authority No. 1 Grade except for studs, Stud Grade, for members exposed to view Appearance Grade, beams parts No. 1 Structural Grade. Reject any material subject to warping or twisting.
- 2.2. Strapping 1 x 3 spruce.
- 2.3. Plywood: sheathing grade, to thickness as indicated.
- 2.4. All wood material in contact with masonry or concrete and new deck work to be pressure treated.
- 2.5. Wood Trim: ½" finished plywood for concrete upstands and ¾" pine capping/sills for windows.
- 2.6. Roof Trusses see Structural drawings.

3. **EXECUTION**

- 3.1. Install work plumb, square, level, permanently secured, accurately fitted.
- 3.2. Include: Strapping, furring, sleepers, nailers, caulking, sill gaskets, and miscellaneous rough faming adequate for intended support. Ensure that adequate support is installed for all items requiring attachment.
- 3.3. Install all fastenings, rough hardware and straps.
- 3.4. Provide all temporary bracing and hardware where required and remove when no longer needed.
- 3.5. Provide coat of wood preservative to all concealed edges in contact with masonry/concrete or use pressure treated lumber.
- 3.6. Install wood stud framing and sheathing to locations called for. Ensure continuity of vapour barrier prior to installation.
- 3.7. Install pre-engineered wood trusses and hurricane clips as called for on structural drawings.
- 3.8. Install vertical strapping over exterior insulation on stud walls and around windows/doors as per details after complete by Section 07411.
- 3.9. Install door frames, doors, and hardware. Adjust for smooth operation.

- 1.1 Conform to General Instructions as applicable.
- 1.2 Millwork includes for new cabinetry as noted on the drawings. Co-ordinate mechanical & electrical service installation with Division 15 & 16
- 1.3 All millwork to A.W. MAC standards.
- 1.4 Site measure to confirm all existing conditions. Submit shop drawings and samples of laminates, door panels, edging & all hardware to Architect for selection prior to ordering.
- 1.5 Warranty all work against manufacturing defects, including warpage or delamination, for a period of five (5) years from substantial performance date. Make good or replace work showing defects in this period, as requested, at no cost to the owner.
- 1.6 Install hollow metal doors and finished hardware as called for on drawings.

2. **MATERIALS**

- 2.1 Finishing Work: Materials used for finish work shall be sound, free from defects that would mar finished appearance, well seasoned and air dried and of good quality for intended purposes. Wood laminates pressure bonded
- 2.2 All cabinetry to have plastic laminate Hard Rock Maple finish over particle board. All exposed edges to have 3mm PVC edge banding. All interiors of doors to be classified as exposed. Use ³/₄" for all shelving, door/drawer fronts and gables. Use ¹/₂" for drawer bottoms and cabinet backs.

- 2.3 All counter tops and counter edges/splashes & window sills covers to be faced with plastic laminate type 1 general purpose. Post form tops with 4" splash as indicated, and laminate all exposed surfaces. Use 3/4" plywood cores typical all locations.
- 2.4 All cabinetry to be frameless type complete with metal drawer slides (both sides) with ball bearings, 120^o self closing hinges, and metal d pulls brushed chrome finish. Use recessed chrome pilasters for shelf support (2 per side typical). Specific list as follows:

PULLS 4" long stainless steel functional pull 3311

BP221170 Richelieu complete with screws

DOOR HINGES 125 Degree Clip top BLUMOTION Soft Close

Hinges with Dowel 71B7580D180 and adjustable Cam Mounting Plates 173H710180 and Hinge

Cover Plates

DRAWERS Blum BLUMOTION Movento, Full Extension

Concealed undermount, soft closing drawer slides.

DOOR BUMPER Clear soft adhesive type (2 per door)

RECESSED PILASTER K & V #255 ZC PILASTER CLIP K & V #256 ZC

3. **EXECUTION**

- 3.1 Include for all finishing work indicated on drawings.
- 3.2 Edge all doors, shelves, drawer fronts etc. PVC banding with adhesive. Fasten all work blind using screws and secure to solid blocking/substrate.
- 3.3 Co-ordinate work with other finishing trades/ mechanical and electrical trades for installation of services. Note all kicks to receive vinyl base supplied/installed by Division 9.

- 3.4 Installation and assembly work on job shall be executed by skilled trades. Install all work level, plumb, & true in all respects.
- 3.5 Provide smooth surfaces with fastenings sunk and filled over to received finish. Use draw bolts in counter top joints.
- 3.6 Install all accessories in all locations noted.
- 3.6 Install all door hardware and adjust for smooth operation.

- 1.1. Conform to the General Conditions as applicable.
- 1.2. Performance of installed insulation shall comply with requirements of O.B.C. Section 9.26, Thermal Insulation and Vapour Barriers, or greater as may be indicated.
- 1.3. Flat roof insulation by Section 07530.

2. MATERIALS

- 2.1. Interior Rigid Insulation 2" rigid polystyrene meeting CGSB51-GP-20M Type A square edged, R5 per inch for foundation walls below grade.
- 2.2. Batt Insulation R20 Fiberglass batts + R60 blow in fiberglass for attics.
- 2.3. Vapour Barrier 6 mil polyethylene to CAN 2-51-33-M77
- 2.4. Tape pressure sensitive tape 2" wide
- 2.5. Exterior rigid insulation and air barrier for exterior walls by Section 04200 Masonry and 07411 Preformed Metal Siding, Ceilings & Soffits (supply and installed).

3. **EXECUTION**

- 3.1. Examine preceding work before commencing installation to ensure that space is provided for insulation in thickness as indicated and specified, and to ensure that specified performance requirements are met, supports are adequate, surfaces for adhesive applied insulation are smooth, free of projections, dirt and grease, and are otherwise acceptable for adhesive application.
- 3.2. Install insulation in locations indicated on drawings and where required to completely envelop insulated areas with no breaks or voids in continuity of insulation, or in air and vapour barriers.

- 3.3. Install insulation with a minimum number of joints and to fill all voids. Provide insulation stops in attic spaces as per details.
- 3.4. Support and anchor insulation to prevent movement and breaking of seals, air barriers and vapour barriers. Ensure continuity of all air and vapour barriers lap and seal as per details. Seal around all penetrations for air tight seal.
- 3.5. Cut and fit insulation tightly around penetrating elements.
- 3.6. Butt panels of insulation board in moderate contact. Cover exposed sections of rigid insulation with cement board as per details.
- 3.7. Install vapour barrier in locations called for. Lap and seal with tape. Connect vapour barrier to air barrier by others and seal.
- 3.8. Install Moore vents at soffits to provide clear ventilation space to attic space above attic insulation.

- 1.1. Conform to the General Conditions as applicable.
- 1.2. Submit samples of all materials for approval by Architect prior to ordering.
- 1.3. Co-ordinate with Division 4, Section 04200 Unit Masonry and Division 8, Section 08520 Aluminum Windows.

2. MATERIALS

- 2.1. Siding, Roofing, Ventilated Soffits, Ceilings, Fascias, Gutters and RWL's to be 26 gauge pre-painted galvanized steel 4-150 (roof and walls) as manufactured by Agway Metals Inc. or equal. Colour to be chosen later from manufacturer's standard QC line to match existing. Provide samples for review prior to ordering.
 - Include for all related trims, fastenings, self-adhesive membrane for roofing, ridge vents/wall roof vents, snow guards, and sealants to complete the work as per the manufacturer's recommendations.
- 2.2. Air/Vapour Barrier Blue Skin self-adhesive membrane and primer by Henry or equal. Use VP-160 for wood frame wall areas.
- 2.3. Insulation 64mm and 38m rigid polyiso R7 per inch see drawings for locations.

3. **EXECUTION**

- 3.1. Examine wall work done by others and confirm all is acceptable. Advise Architect if any concerns or sections require replacement.
- 3.2. Apply primer over all existing masonry and wood sheathing surfaces to receive air barrier using a roller strictly in conformance with the manufacturer's instructions and allow to dry minimum 30 minutes. Take care and do not coat other surfaces ie: windows etc. Install all metal flashing/closure strips.

- 3.3. Install air barrier in consecutive weather board method starting at the bottom and working up providing min 2" overlaps. Extend over flashings, into door frame returns, and connect seal to vapour barrier at top as per details. Seal at all terminations with Kop-R-Lastic sealant for a continuous waterproof seal.
- 3.4. Install matching trims, snow guards, and flashings as required by details and elevations.
- 3.5. Install siding and roofing in longest lengths possible to minimize joints using the fastenings at spacings as per the manufacturer's recommendations.
- 3.6. Install soffit panels perpendicular to building wall and fascias, as per elevations/details. Fasten securely to suspended metal framing provided. Install gutters and rwl's as per drawings and secure. Install ridge vent, wall roof vents and closures.
- 3.7. Caulk all areas as per details.
- 3.8. Remove all excess material from site and clean up.

- 1.1. Comply with General Requirements Division 01.
- 1.2. Thoroughly clean all sealant smears from adjacent surfaces upon completion.
- 1.3. Proven written warranty covering making good of defects in materials and workmanship for a period of 2 years.
- 1.4. Execute work in accordance with manufacturer's instructions.

2. MATERIALS

- 2.1. To O.B.C. Section 9.28 and CAN2-19.24-M80.
- 2.2. Equivalent to Tremco products or equal.
- 2.3. Type 1: Two component urethane for moving joints.
- 2.4. Type 2: One component, urethane base solvent covering for static joints.
- 2.5. Sealant Backing: Extruded, foamed, close cell, round polyethylene rod 25% wider than joint.

3. **EXECUTION**

- 3.1. Interior Caulking:
 - exposed control joints
 - metal at wood
 - concrete at wood
 - concrete at metal
- 3.2. Joints to be caulked shall be cleaned of dust, oil, grease, water, frost, loose mortar and other foreign matter. Cleaning shall ensure a clean, sound base surface for sealant adhesion.
- 3.3. When air temperature is below 40 deg. F. consult sealant manufacturer for recommendations regarding application.
- 3.4. Joints ¼" or more wide shall be packed with pre-moulded backup rope. Install a bond breaker behind sealer in joints less than ¼" in width. Caulked joints must have pre-moulded back or bond breaker behind sealant.
- 3.5. Apply sealant under pressure with hand actuated guns. Gun nozzle shall be of proper size to fit and fill and seal joint.
- 3.6. Remove all excess materials and debris from site.

- 1.1. Comply with General Requirements Division 01.
- 1.2. Submit shop drawings in accordance with Division 01.
- 1.3. Verify door and frame sized by site measures.
- 1.4. Tag frames and doors and deliver to site with identification marks indicating proper locations.
- 1.5. Co-ordinate work of this section with other sections.
- 1.6. Prepare for all hardware.

2. MATERIALS

- 2.1. Hollow metal door frames shall be fabricated of 16 ga. 316 stainless steel #4 brushed finish reinforced and welded as manufactured by S.W. Fleming or equal at locations called for. Minimum 6 anchors per frame.
- 2.2. Hollow metal doors shall be Type D-18 series as manufactured by S.W. Flemming Ltd., or equivalent, fabricated of 18 ga. wipe coat galvanized steel with no visible seams complete with 16 ga. end channels welded to top and bottom door.
 - Shall be sanded smooth, stiffened, insulation and sound deadened.
 - Shall be mortised, reinforced, drilled and tapped for hardware as scheduled.

3. **EXECUTION**

- 3.1. Installation of frames Division 4, Section 04200 Unit Masonry and Section 06200 Rough Carpentry.
- 3.2. Locate and anchor frames in alignment with other work. Anchor frames to retain position and clearance during construction of walls and partitions.
- 3.3. Brace frames solidly in position while being built in. Install temporary wood spreader at mid-height of frame to maintain width until adjacent wall work is completed.
- 3.4. Generally, anchorage of frames shall be by means of standard anchors. Where standard anchors cannot be used, provide suitable anchors to ensure proper installation. Method of anchorage shall not be visible when frames are installed.

- 1.1. Comply with requirements of Division 01.
- 1.2. Submit shop drawings in accordance with Division 01.
- 1.3. Verify door and frame sizes by site measurements.
- 1.4. Co-ordinate work of this section with other sections.
- 1.5. Provide 1 year written warranty on materials and workmanship/10 year on panel delamination.

2. MATERIALS

- 2.1. Door panels-sectional overhead doors to be ridged polyurethane insulated core with prefinished metal steel on each side, color white Thermatite T35-MR as manufactured by Richard Wilcox Canada or equal. Include for steel reinforcing for hardware, all weather stripping/seals, and 16 Ga. galvanized end caps.
- 2.2. Hardware track to be 3" commercial hot dipped galvanized mount to steel installation complete with 11 Ga. trac brackets, 1 ½" x 1 ½" 14 Ga. track hangers, 2-7/8" diameter ball bearing rollers/roller brackets, helically wound torsion spring counter balance, and interior slide bolt locks. Include for pusher springs, and manual chain hoist.
- 2.3. Power Operator to be wall mounted for each location and provide 3 remotes to operate all via separate codes.

3. **EXECUTION**

- 3.1. Install complete door installation in all locations strictly in accordance to the manufacturer's recommendations.
- 3.2. Adjust all doors to function and ensure all seals working properly for air tight installation.

- 1.1. Comply with requirements of Division 01.
- 1.2. Submit shop drawings indicating all materials and details and sample of all materials.
- 1.3. Provide 5 year extended warranty against all leaks, faulty workmanship and materials including caulking. 10 years on all hermetically sealed glazed units.
- 1.4. Work of this section shall be executed by skilled, experience personnel working for firm with a minimum of five (5) years proven first class experience that is thoroughly conversant with laws and regulations which governs and that is capable of workmanship of best grade of modern shop and field practice.

2. MATERIALS

- .1 <u>Aluminum Finish:</u> All aluminum extrusions shall be anodized to CAN3-A440-M90 Class 1, 18 mm.(0.004") thick. Finish to be clear anodized see drawings for locations. Note use anodized aluminum framing for all locations see drawings for finish type/locations.
- .2 <u>Glass Units:</u> Shall be hermetically sealed Low E argon insulating glass units fabricated in accordance with CAN2-12.8 M76 (25mm) for all window locations 5 mm annealed clear glass for interior light and 5 mm annealed clear glass for exterior light.
- .3 Foam Sealant: Shall be Polycel as manufactured by I.F. Industries (416) 827-6538.
- .4 <u>Caulking:</u> Shall be "Dymeric" by Tremco, EP-6000 by CGE, or approved equal multi-component chemical curing sealant meeting CAN2-19.24-M80.

.5 Windows:

.1 Aluminum windows shall be **Windspec 5400** Series or equal, 2" wide thermally broken framing, curtain wall window sections typically for all windows (see drawings for locations, frame depths and finishes) – fixed.

- .2 Each opening vent shall be equipped with (2) heavy duty Anderberg arms, one (1) allen key operated security lock, standard 4-sided weather stripping and aluminum framed aluminum mesh insect screen on exterior side of vent, complete with two(2) CAM handles for lower operating units. Limits all operator opening to maximum 200 mm.
- .3 Provide matching extruded aluminum sills to sizes and profiles as detailed. Provide matching L shaped end caps at each end and covers.
- .4 Security Screens to be clear anodized aluminum in frames complete with mechanical fastenings.

3. **EXECUTION**

- 3.1. Set in correct location, level, square, plumb and proper alignment to other work using appropriate finishing components with sills. Foam all perimeters completely.
- 3.2. Aluminum surfaces adjacent to masonry or other dissimilar materials be given a heavy coat of bituminous paint on contacting surfaces.
- 3.3. Caulk all joints at junctions.
- 3.4. Provide final cleaning to remove job site soilings.

- 1.1. Comply with Requirements of Division 01.
- 1.2. Install work within 1/8" of dimension location and flat within 1/8" maximum in 1/8" and 1/16" maximum in any running 12".
- 1.3. Proceed with work only in areas protected and closed from the elements with temperature above 10 deg. C.
- 1.4. Co-ordinate installation of grilles and light fixtures.

2. MATERIALS

- 2.1. Gypsum board: CSA A82.27-M1977 in thickness shown.
- 2.2. Corner beads steel galvanized, ½ bead.
- 2.3. Screws: self drilling Phillips head, drywall screws #6 x 1" for single thickness.
- 2.4. Joint cement, tape, topping compound: as recommended by wallboard manufacturer.
- 2.5. Fiberglass Reinforced Panels (FRP) to be .17" thick in 4' x 10' sections, pebbled pattern Class C, white, complete with all moulding, trims, rivets, and adhesive for a complete installation as manufactured by Avanta or equal. For Gear Storage Room only.

3. **EXECUTION**

- 3.1. Install gypsum board as recommended by Gypsum Association Specification No. GA-216-82 regarding temperature, finishing and methods of installation.
- 3.2. Frame openings and built in equipment with furring, furr in ducts, pipes and dropped beams occurring in finished areas.
- 3.3. Provide for integration of supports of equipment and components, and installation of flush mounted recessed components included in work of other sections only after consultation and verification with them of their requirements.
- 3.4. Framing and furring shown on drawings is indicative, but do not consider it as exact or complete. Construct work to withstand stresses imposed by use without either distortion or dimensional changes. Install wall framing to heights called for and brace all walls with diagonal supports to suit, full height to underside of roof deck for rated assemblies.
- 3.5. Make good drywall at cutouts for services and other work, and where defective. Fill in defective joints, holes and other depressions with joint compound, and ensure that surfaces are smooth and evenly textured to receive finish treatments.
- 3.6. Remove droppings and excessive joint compound from work of this and other sections before it sets.
- 3.7. Clean off beads and other metal trim, and leave all surfaces ready for specified finishes.
- 3.8. Install FRP panels in locations called for strictly in conformance with the manufacturer's recommendations.

- 1.1. Comply with General Requirements Division 01.
- 1.2. Meet standards specified in Architectural Painting Specification Manual, Ontario Edition published by the Canadian Painters Contractor's Association.
- 1.3. Submit samples of each specified paint, colour and wood finish.
- 1.4. Submit list of all materials, manufacturer catalogue numbers, etc.
- 1.5. Deliver to Owner on completion of work, one quart of each colour, clearly labeled.
- 1.6. Cover or make surfaces adjacent to those being finished and protect work of others from damage and/or paint spills.
- 1.7. Repainting of existing surfaces fully.
- 1.8. Concrete block to be painted to be allowed to cure for 30-60 days depending on drying conditions.

2. MATERIALS

- 2.1. Manufacturers approved for supply of materials are:
 - Canadian Industries Ltd. (CIL)
 - Color Your World
 - Pratt & Lambert Inc.
 - Canadian Pittsburgh Industries Ltd.
 - Benjamin Moore
 - Glidden
- 2.2. Supply only the best quality material for each specified line.
- 2.3. Materials used shall meet or exceed CGSB Specifications.

3. **EXECUTION**

- 3.1. Examine surfaces prior to application for moisture content and acid alkali balance. Acceptance of surfaces signifies responsibility for finished products.
- 3.2. Clean all surfaces and remove foreign materials, fill cracks, holes and depression and smooth for finish.
- 3.3. Paint all new and existing wall surfaces in work areas as indicated only full height to next change in wall plane.
- 3.4. Colours will be provided by Architect upon award of contract.
- 3.5. Finishes:

Interior Metal

- 1 coat primer
- 2 coats of acrylic semi-gloss finish

Interior New Painted Drywall

- 1 coat latex sealer
- 2 coats of latex eggshell finish

3.6. Clean-Up

3.6.1. Clean up daily. All paint rags, empty cans shall be removed from the site upon completion of each day's work. Upon Total Completion provide total clean up.

APPENDIX

FIREHALL ADDITION KINMOUNT

Wilcox Architects Inc. June 2025

ROOM FINISH SCHEDULE

Page 1 of 2

		WALLS					FLOOR & BASE		CEILING			
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. No.	Room Name		A	LL NEV	V U.O.N.							
100	EX FIRE HALL GAR.			NEW EX CB/ PT			EX CONC			EX DW		12' HT
101	GEAR STO. RM	NEW DW/ PT ON CB	NEW DW/ PT	NEW DW/ PT	NEW DW/ PT	FRP ALL WALLS	NEW CONC	V	CLR SEALER	NEW DW	PT	10' HT
102	CORR.	NEW DW/ PT ON CB	NEW DW/ PT		NEW DW/ PT		NEW CONC	V	CLR SEALER	NEW DW	PT	10' HT
103	NEW KIT.	NEW DW/ PT	NEW DW/ PT	NEW DW/ PT	NEW DW/ PT		NEW CONC	V	CLR SEALER	NEW DW	PT	10' HT

APPENDIX

FIREHALL ADDITION KINMOUNT

Wilcox Architects Inc. June 2025

ROOM FINISH SCHEDULE

Page 2 of 2

		WALLS					FLOOR & BASE		CEILING			
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. No.	Room Name		A	LL NEV	V U.O.N.							
104	NEW UTILITY ROOM	NEW DW/ PT	NEW DW/ PT	NEW DW/ PT	NEW DW/ PT		NEW CONC	V	CLR SEALER	NEW DW	PT	10' HT
105	NEW UNIV	NEW DW/ PT	NEW DW/ PT	NEW DW/ PT	NEW DW/ PT		NEW CONC	V	CLR SEALER	NEW DW	PT	10' HT
106	NEW LAUND.	NEW DW/ PT ON CB	NEW DW/ PT	NEW DW/ PT	NEW DW/ PT		NEW CONC	V	CLR SEALER	NEW DW	PT	10' HT

APPENDIX LIST OF ABBREVIATIONS

Wilcox Architects Inc. Page 1 of 4

A AB ABV A.C.	ARC Air Barrier Above Air Condition	ADJ AL, ALUM ARCH A.T.	Adjustable Aluminum Architectural Acoustic Tile
BL, BLK. BLDG BLKHD. BLW BM.	Block Building Bulkhead Below Beam, Beams	BR ANOD B/S BTM, B/ B.U.R.	Bronze Anodized Both Sides Bottom Of Built-Up Roof
CAB. CABS CAR C.B. CB CCS CLF CLG CLOS CNR	Cabinet Cabinets Carpet Catch Basin Concrete Block Clear Concrete Sealer Chain Link Fence Ceiling Closet Corner	COL CONC. CONT. CRS CS CT CTNG CTOP C/W	Column Concrete Continuous Course Concrete Slab Ceramic Tile Coating Counter Top Complete With
D.C. DIA D/G	Display Case Diameter Double Glazed	DN DR DW	Down Door Drywall
E EL ELEC,ELEC'L ELEV ENCL	East Elevation Electrical Elevator Enclosed	EQ E/S EX., EXIST EXT.	Equal Each Side Existing Exterior

APPENDIX LIST OF ABBREVIATIONS

Wilcox Architects Inc. Page 2 of 4

F FD FND F.E. FFL F/G F.H.	Female Floor Drain Foundation Fire Extinguisher Finish Floor Level Fixed Glazing Fire Hydrant	FIN FL FLS F.P. FR. F.R. FTG.	Finish Floor Flood Lights Fire Protection Frame Fire Rated; Fire Rating Footing
GALV. GL	Galvanized Glazing	GR GWG	Grade Georgian Wired Glass
H.C. HD HDWRE H.M. H.O.	Handicap Head Hardware Hollow Metal Hold Open	HORIZ H.P. HR HT, HGT. HTR.	Horizontal Hydro Pole Hour Height Heater
ID INC/ IND INFO	Inside Diameter Including Indicates Information	INSUL INT. I/S	Insulation Interior Inside
J	Joist		
LBL LOC LWR	Label Location Lower		

APPENDIX LIST OF ABBREVIATIONS

Wilcox Architects Inc. Page 3 of 4

M MANF MAT. MAX MECH,MECH'I M.H. MIN	Male Manufacture Material Maximum Mechanical Manhole Minimum	MIR M.L.B. MT MTD MTL M.U.A.	Mirror Micro-Lam-Beam Minute Mounted Metal Make-Up-Air Mechanical Unit
N.	North	N.I.C.	Not In Contract
OA	Overall	OH	Overhead
O.B.C.	Ontario Building Code	OPNG	Opening
O/H	Overhang	O.S.	Over Size
PART'N	Partition Pre-Cast Plate Plastic Laminate Plywood	POL.	Polethylene
P.C.		PR	Pair Prefinished
PL		PREFORM	Preformed
P.LAM		P.T.	Pressure Treated
PLY, PLYWD		PT	Paint
R	Radius	REF.	Reference
R.D.	Roof Drain	REV	Reversed
REF	Refrigerator	R.S.O.	Rough Stud Opening
REQ'D	Required	R & S	Rod and Shelf
RES	Resistance	R.W.L.	Rain Water Leader

APPENDIX

LIST OF ABBREVIATIONS

Wilcox Architects Inc. Page 4 of 4

S S.A.B. SAN. SC SCR SEP S/G SHLVS SHTG S.O.G.	South Sound Attenuation Blanket Sanitary Solid Core Screen Separation Single Glazing Shelves Sheating Slab On Grade	S.P. S.P.M. S.S. ST STD STL STR STRUCT`L ST.S	Splash Pad Single Ply Membrane Stop Sink Stain Standard Steel Stringers Structural Storm Sewer
T/ T.B. T. & B. TEX T. & G.	Top Of Thermal Broken Top And Bottom Textured Tongue & Groove	T.T. T. & WD TYP	Terrazo Tile Towel & Waste Disposal Typical
U/C U.O.N.	Under Counter Unless Otherwise Noted	UPR U/S	Upper Underside
V. VAL VAN V.B.	Vinyl Valance Vanity Vapour Barrier	VERT V.T. V.W.C.	Vertical Vinyl Tile Vinyl Wallcovering
W/ W.C. WD	With Water Closet Wood	WIN W.F. W.V.	Window Wood Fibre Water Valve