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**Washroom Buildings Recapitalization**  
**Buildings 32, 34 & 38**  
**Newman Sound Campground**  
**Terra Nova National Park, NL**  
**Proj. No.: R.079272.001**

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PART 1 - GENERAL

**1.1 Related Sections**

- .1 Section 06 20 00 - Finish Carpentry.

**1.2 References**

- .1 American Society for Testing and Materials (ASTM)
  - .1 ASTM D 3960-05, Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.
- .2 Canadian General Standards Board (CGSB)
  - .1 CAN/CGSB-85.10-99, Protective Coating for Metals.
  - .2 CAN/CGSB-85.100-93 Painting.
- .3 Canadian Painting Contractors' Association (CPCA).
  - .1 Painting Specifications Manual, latest edition.
- .4 Environmental Protection Agency (EPA)
  - .1 EPA-SW-846, Test Methods for Evaluating Solid Wastes.
- .5 National Fire Code of Canada 2005.
- .6 Steel Structures Painting Council (SSPC).
  - .1 Systems and Specifications Manual, Latest Edition.
- .7 Architectural Painting Specifications Manual by the Master Painters Institute(MPI).

**1.3 Product Data**

- .1 Submit product data in accordance with Section 01 33 00 - Shop Drawings and other Submittal Procedures.

**1.4 Samples**

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.

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- .2 Submit 300 x 200 mm sample panels of each paint, and stain type, colour, and texture specified.
- .3 Submit full range of available colours where colour availability is restricted.
- .4 Use 3 mm plate steel for finishes over metal surfaces. Use 12.5 mm birch plywood for finishes over wood surfaces. Use 50 mm concrete block for finishes over concrete or concrete masonry surfaces. Use 12.5 mm gypsum board for finishes over gypsum board and other smooth surfaces.

### 1.5 Quality Assurance

- .1 Retain purchase orders, invoices and other documents to prove that all materials utilized in this contract meet requirements of the specifications. Produce documents when requested by Departmental Representative.
- .2 Standard of Acceptance:
  - .1 Walls: No defects visible from a distance of 1000 mm at 90 degrees to surface.
  - .2 Ceilings: No defects visible from floor at 45 degrees to surface when viewed using final lighting source.
  - .3 Final coat to exhibit uniformity of colour and uniformity of sheen across full surface area.
- .3 All materials, preparation, and workmanship shall conform to requirements of the latest edition of the Architectural Painting Specifications Manual by the Master Painters Institute(MPI).
- .4 All paint manufacturers and products shall be listed under the approved product list section of the MPI painting manual.

### 1.6 Delivery, Storage and Handling

- .1 Deliver and store materials in original containers, sealed, with labels intact.
- .2 Indicate on containers or wrappings:
  - .1 Manufacturer's name and address.
  - .2 Type of paint.
  - .3 Compliance with applicable standard.
  - .4 Colour number in accordance with established colour schedule.
- .3 Remove damaged, opened and rejected materials from site.
- .4 Provide and maintain dry, temperature controlled, secure storage.
- .5 Observe manufacturer's recommendations for storage and handling.
- .6 Store materials and supplies away from heat generating devices.

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- .7 Store materials and equipment in a well ventilated area with temperature range 7 to 30 °C.
- .8 Store temperature sensitive products above minimum temperature as recommended by manufacturer.
- .9 Keep areas used for storage, cleaning and preparation, clean and orderly to approval of Departmental Representative. After completion of operations, return areas to clean condition to approval of Departmental Representative.
- .10 Provide minimum one 9 kg fire extinguisher adjacent to storage area.
- .11 Remove only in quantities required for same day use.
- .12 Fire Safety Requirements:
  - .1 Store oily rags, waste products, empty containers and materials subject to spontaneous combustion in ULC approved, sealed containers and remove from site on a daily basis.
  - .2 Handle, store, use and dispose of flammable and combustible materials in accordance with the National Fire Code of Canada.

### **1.7 Environmental Requirements**

- .1 Safety: comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling storage, and disposal of hazardous materials.
- .2 Ventilation:
  - .1 Ventilate area of work as directed by Departmental Representative by use of approved portable supply and exhaust fans.
  - .2 Provide continuous ventilation during and after application of paint. Run ventilation system 24 hours per day; provide continuous ventilation for 7 days after completion of application of paint.
- .3 Apply paint finishes only when temperature at location of installation can be satisfactorily maintained within manufacturer's recommendations.
- .4 Substrate and ambient temperature must be within limits prescribed by manufacturer to approval of Departmental Representative.
- .5 Maintain minimum substrate and ambient air temperature of 5°C for Alkyd and 7°C for latex paints. Maximum relative humidity 85%. Maintain supplemental heating until paint has cured sufficiently.
- .6 Provide temporary heating where permanent facilities are not available to maintain minimum recommended temperatures.
- .7 Apply paint finish only in areas where dust is no longer being generated by related construction operations such that airborne particles will not affect the quality of the finished surface.
- .8 Apply paint only when surface to be painted is dry, properly cured and adequately prepared.

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- .9 Painting in occupied facilities to be carried out during silent hours only. Schedule operations to approval of Departmental Representativesuch that painted surfaces will have dried and cured sufficiently before occupants are affected.
- .10 Provide minimum 270 lx on surfaces to be painted.

### **1.8 Scheduling**

- .1 Submit work schedule for various stages of painting to Departmental Representative for approval. Submit schedule minimum of 48 hours in advance of proposed operations.
- .2 Obtain written authorization from Departmental Representative for any changes in work schedule.
- .3 Schedule painting operations to prevent disruption of occupants in and about the building.

### **1.9 Extra Materials**

- .1 Submit maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Submit one - four litre can of each type and colour of primer, and finish coating. Identify colour and paint type in relation to established colour schedule and finish formula. Paint can to be unopened.
- .3 Deliver to Departmental Representative and store where directed.

### **1.10 Waste Management**

- .1 Place materials defined as hazardous or toxic waste, including used sealant and adhesive tubes and containers, in containers or areas designated for hazardous waste.
- .2 Return solvent and oil soaked rags for contaminant recovery and laundering or for proper disposal.
- .3 Close and seal tightly all partly used sealant and adhesive containers and store protected in well ventilated fire-safe area at moderate temperature.
- .4 Do not dispose of paints or solvents by pouring on the ground. Place in designated containers and ensure proper disposal.
- .5 Solvent based paints, wood preservatives, stains and finishes which cannot be reused must be treated as hazardous waste and disposed of in an appropriate manner in accordance with hazardous waste regulations. Empty paint cans are to be dry prior to disposal or recycling (where available).

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- .6 Where paint recycling is available, collect all waste paint by type and provide for delivery to recycling or collection facility.
- .7 Paints, stains, and finishes are regarded as hazardous products and are subject to regulations for disposal. Information on these controls can be obtained from the Provincial Ministries of Environment and Regional levels of Government.

## PART 2 - PRODUCTS

### **2.1 Materials**

- .1 Only materials (primers, paints, coatings, fillers, etc.) listed in the latest edition of the MPI approved product list (APL) are acceptable for use on this project. All such materials shall be from a single manufacturer.
- .2 All materials used shall be lead and mercury free, and shall have a low VOC content where possible.
- .3 Use only materials having a MPI rating of E2.

### **2.2 Finish & Colours**

- .1 Departmental Representative will provide Colour Schedule after contract award.
- .2 Colour schedule will be based upon the selection of no more than 20 base colours and 8 accent colours with a maximum of one deep or bright colour.
- .3 Selection of colours will be from manufacturers full range of colours.
- .4 Perform all colour tinting operations prior to delivery of paint to site. On-site tinting of painting materials not permitted.
- .5 Second coat in a three coat system to be tinted slightly lighter colour than top coat to show visible difference between coats.
- .6 Except as noted herein or indicated on the finish schedule, interior walls and ceiling surfaces shall be painted in accordance with the following criteria over an appropriate prime/sealer coat:
  - .1 All areas (except as noted): washable latex with G3 (eggshell) finish.
  - .2 Washrooms, shower areas: epoxy G5 (semi-gloss) finish for wet surfaces.
  - .3 Food preparation areas: epoxy G5 (semi-gloss) for dry surfaces.
- .7 Doors shall be painted a different colour than frames, with a G5 (semi-gloss) finish.

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- .8 Access doors, prime coated butts and other prime coated hardware, and exposed mechanical and electrical panels/heaters are to match adjacent wall/ceiling surface colour, sheen, and texture.

### PART 3 - EXECUTION

#### **3.1 Preparation**

- .1 Prepare all surfaces in accordance with MPI requirements.
- .2 As painting operations progress, place "WET PAINT" signs in occupied areas to approval of Departmental Representative.

#### **3.2 Protection**

- .1 Cover or mask floors, windows and other ornamental hardware adjacent to areas being painted to prevent damage and to protect from paint drops and splatters. Use non-staining coverings.
- .2 Protect items that are permanently attached such as Fire Labels on doors and frames.
- .3 Protect factory finished products and equipment.

#### **3.3 Existing Conditions**

- .1 Investigate moisture content of surfaces to be painted and report findings to Departmental Representative . Do not proceed with work until conditions fall within acceptable range as recommended by manufacturer.
- .2 Maximum moisture content as follows:
  - .1 Wallboard: 12%.
  - .2 Masonry/Concrete: 12%.

#### **3.4 Cleaning**

- .1 Clean all surfaces to be painted as follows:
  - .1 Remove all dust, dirt, and other surface debris by vacuuming, wiping with dry, clean cloths.
  - .2 Wash surfaces with solution of T.S.P. bleach and clean warm water using a stiff bristle brush

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- to remove dirt, oil and other surface contaminants.
- .3 Rinse scrubbed surfaces with clean water until foreign matter is flushed from surface.
- .4 Allow surfaces to drain completely and allow to dry thoroughly.
- .5 To prepare surfaces for water-based painting, water-based cleaners should be used in place of organic solvents.
- .6 Use trigger operated spray nozzles for water hoses.
- .7 Many water-based paints cannot be removed with water once dried. However, minimize the use of kerosene or any such organic solvents to clean up water-based paints.

### 3.5 Application

- .1 Method of application to be as approved by Departmental Representative. Apply paint by roller. Conform to manufacturer's application instructions unless specified otherwise.
- .2 Use dipping, sheepskins or daubers only when no other method is practical in places of difficult access and only when specifically authorized by Departmental Representative.
- .3 Apply each coat of paint as a continuous film of uniform thickness. Repaint thin spots or bare areas before next coat of paint is applied.
- .4 Tint each coat of paint progressively lighter to enable confirmation of number of coats.
- .5 Unless otherwise approved apply a minimum of 4 coats of paint to deep or bright colours to achieve satisfactory results.
- .6 Allow surfaces to dry and properly cure after cleaning and between subsequent coats for minimum time period as recommended by manufacturer.
- .7 Sand and dust between each coat to remove visible defects from a distance up to 1000mm.
- .8 Finish closets and alcoves as specified for adjoining rooms.
- .9 Finish top, bottom, edges and cutouts of doors after fitting as specified for door surfaces.

### 3.6 Mechanical Electrical Equipment

- .1 In finished areas: paint exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment. Colour and texture to match adjacent surfaces, except as noted otherwise.
- .2 In mechanical and electrical rooms: paint exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment.
- .3 In other unfinished areas: paint conduits, piping, hangers, ductwork and other mechanical and electrical equipment.

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- .4 Touch up scratches and marks on factory painted finishes and equipment with paint as supplied by manufacturer of equipment.
- .5 Do not paint over nameplates.
- .6 Keep sprinkler heads free of paint.
- .7 Paint inside of ductwork where visible behind grilles, registers and diffusers with primer and one coat of matt black paint.
- .8 Paint disconnect switches for fire alarm system and exit light systems in red enamel.
- .9 Paint all fire protection piping red.
- .10 Paint both sides and edges of backboards for telephone and electrical equipment before installation. Leave equipment in original finish except for touch-up as required, and paint conduits, mounting accessories and other unfinished items.

### **3.7 Interior Paint and Coating System**

- .1 Formula 1 (Latex): for gypsum board walls and ceiling apply:
  - .1 One coat Interior Latex Primer Sealer MPI#50.
  - .2 Two coats Interior Latex, Gloss Level 3 MPI#52.
- .2 Formula 2 (Latex): for shop primed ferrous metal surfaces, joist and ductwork apply:
  - .1 Touch up shop primer with primer as provided by fabricator.
  - .2 Spot repairs of Surface Tolerant Metal Primer MPI#23.
  - .3 Two coats Interior Latex, Gloss Level 3 MPI#52.
- .3 Clean and re-install all hardware items that were removed before undertaken painting operations.
- .4 Remove protective coverings and warning signs as soon as practical after operations cease.
- .5 Remove paint splashings on exposed surfaces that were not painted. Remove smears and spatter immediately as operations progress, using compatible solvent.
- .6 Protect freshly completed surfaces from paint droppings and dust to approval of Departmental Representative. Avoid scuffing newly applied paint.
- .7 Restore areas used for storage, cleaning, mixing and handling of paint to clean condition as approved by Departmental Representative.