Part 1 GENERAL

1.1 SUMMARY

1. This section to conform to Division 1 General Requirements Section 01 01 00.

2. Work Included in this Section:

   1. The cleaning of all wood surfaces including floors, beams, trim, mouldings, casings, baseboards, wainscoting, doors, frames, bookshelves, cupboards, and windows.

   2. Cleaning shall include but not be limited to;

   3. Removal of paints, stains, adhesives and all existing finishes

3. Scope and Intent of Cleaning:

   .1 Cleaning shall be carried out to all wood surfaces to remove all existing paint and stain finishes without causing damage to the substrate. Removal of adhesives is required to prepare wood floors for refinishing.

1.2 RELATED WORK SPECIFIED ELSEWHERE

1. Wood Finishing: Section 09 91 00

2. Heritage Carpentry Restoration: Section 06 01 20 91

3. Surface Preparation: Section 09 03 01 01

1.3 SUBMISSIONS AND MOCK-UPS

1. Submit samples, literature and details of methods, tools, machinery and equipment proposed.

1.4 QUALIFICATIONS

1. The work of this trade shall be executed by a company having a minimum of 5 years proven first class experience in this type of work and having adequate equipment and skilled personnel.

1.5 ENVIRONMENTAL REQUIREMENTS

1. Coordinate work with Designated Substances Removals. Comply with the requirements of the following Federal and Provincial Legislation related to the transportation use and disposal of all cleaning materials.

   1. Federal Transportation of Dangerous Goods Act.
   2. Ontario Regulation number 309: Liquid industrial and hazardous waste regulation.
   3. All such waste shall be carried by an approved Ministry of the Environment

Haulage carrier and disposed of at a Ministry of the Environment approved receiving facility.

2. Provide copies of certificates related to transportation use and disposal of all cleaning materials to Architect.

1.6 PROTECTION

1. Submit complete details of all protection measures prior to commencing cleaning for approval by Architect.

2. Protect the general public and adjacent spaces from contact with cleaning materials by erecting properly constructed protection, positioned to confine and prevent any overspray of blast media. Provide complete details of such protection for approval by the Architect.

3. Any materials that may be damaged by the effects of any of the cleaning operations shall be protected as described herein.

4. In addition, employ polyethylene sheet with adhesive tape, stripable latex caulking and closed cell backer rod to protect all other situations as necessary.

5. Protect all other surrounding areas as recommended by the product manufacturer or as directed by the Architect. Such areas include, adjacent walls, ceilings and floors, fixtures and metal surfaces.

6. Operatives shall be aware of hazardous nature of cleaning operations and shall wear appropriate safety equipment and clothing at all times during cleaning operations.

1.7 SCHEDULE

1. Provide schedule of cleaning operation prior to commencing work for approval by Architect.

2. Provide Architect with minimum 48 hours notice of intent to commence cleaning operations.

Part 2 PRODUCTS

2.1 MATERIALS

1. Water: potable, clean and free from contaminants.

2. Where water has high iron or other metal content, pre-treat with complexing agents before use to reduce risk of staining.

3. Abrasives:

    1. Abrasives shall be corn-cob grit to approval of Architect.
    2. Silica

3. Abrasives for use with proprietary cleaning systems shall be approved by the Architect.

4. Paint Strippers

1. Do not use sodium hydroxide (lye) based strippers.

2. Methylene chloride base, gel type. The following materials are acceptable:

1. Sure-Klean 509 Paint Stripper by ProSoCo.
2. Alkaline base. Sure-Klean Heavy Duty Paint Stripper by ProSoCo.

3. Organic ester base. The following materials are acceptable:

1. 3M Safest Stripper, Minnesota Mining and Manufacturing Company, St Paul, Minnesota 55144-1000, Telephone (612) 733-1100.
2. Peel-Away 6, as manufactured by Dumond Chemical Inc., 1501 Broadway, New York, NY, Telephone (212) 869-6350.
3. Savogran Stryp Safer, as manufactured by Savogran Company, P.O. Box 130, Norwood, Massachusetts 02062, Telephone (617) 762-5400.

5. Fasteners

1. Brass nails and screws.

6. Consolidant Materials

1. Epoxy Resin 332, Dow Chemical.
2. Epoxy Diluent RD2, Ciba-Geigy.
3. Jeffamine D230 (Flexibilising Amine Curing Agent), Jefferson Chemical.

7. Semi-rigid Patching Compound Materials

1. Epoxy Resin 331 (epoxy resin), Dow Chemical.
2. LP-3 (polysulphide rubber), Thiokol Chemical or Versamid 140, Versamid Chemical
3. EH 330 (amine curing agent), Thiokol Chemical.

2.2 CLEANING EQUIPMENT

1. Tools:

1. Brushes: soft fibered nylon, natural soft and stiff bristle or phosphor bronze.

2. Scrapers: wood, plastic or stainless steel.

3. Trowels: corrosion resistant.

~~*2.3 Abrasive Equipment*~~

~~*2.3.1 Portable light abrasive cleaning machine designed to operate in the 0-35 kpa range controlled at the nozzle by a trigger, and for use with a variety of nozzles from 2-6 mm in diameter. Acceptable products: Clemco 10289 CLR Classic Portable Abrasive Blast Cleaning Machine, complete with remote control valve, air filter, dial pressure regulator, and abrasive metering valve, to permit surge-free cleaning with 70 mesh and finer abrasives and equipped with 2 mm and 3 mm nozzles or approved alternative by Schmidt.*~~

Part 3 EXECUTION

3.1 PREPARATION

1. All Methods: Provide protection as required and described herein and obtain approval of Architect.

3.2 TESTING

1. Carry out test panels for each technique to determine detailed optimum procedures for paint and stain removal.

2. Test locations shall be selected by the Architect.

3. If initial methods prove unsatisfactory, combinations of methods shall be tried from acceptable alternatives.

4. Submit written results of tests, outlining methods, materials, concentrations of chemicals, dwell times etc. Obtain approval of Architect before proceeding.

3.3 AIR ABRASIVE CLEANING

1. Air abrasive cleaning may be employed for the removal of paint/stain finishes on all smooth, flat existing wood surfaces. Air abrasive cleaning may not be employed on delicate and hand-carved elements.

2. The location of all air abrasive cleaning will be agreed to with the Architect.

3. Perform cleaning as determined by testing.

4. Testing will have determined the equipment type, the abrasive, and mesh size, nozzle and venturi combinations, and size where relevant pressure at the nozzle, working distance and level of clean.

5. Clean without damaging wood.

6. Allow for one half day of training of operatives under the direction of the Wood Cleaning Contractor for all abrasive techniques.

7. Perform all cleaning to the level of clean directed on site.

8. Collect and dispose of cleaning materials from the work area twice daily, at the mid-day break and at the end of the working day.

End of Section 06 01 40 51