

**SECTION 02 51 34
REMOVAL OF PAINTED COMPONENTS**

PART 1 GENERAL

1.01 REFERENCE STANDARDS

- A. 29 CFR 1926.62 - Lead; current edition.
- B. 40 CFR 261 - Identification and Listing of Hazardous Waste; Current Edition.

1.02 SECTION INCLUDES

- A. General
 - 1. All painted components (e.g. steel bar fence, chain link fence, pipe handrails, posts, concrete/other structures, etc.) to be removed and all concrete to be sawcut and removed shall follow the dust/lead hazard control procedures as stated in this section. The Contractor must adhere to OSHA's Lead In Construction Standard 29 CFR 1926.62. NYCHA's Technical Services Department shall test the It is the Contractor's responsibility to perform an exposure assessment for each task.

PART 2 PRODUCTS

2.01 MATERIALS AND EQUIPMENT

- A. HEPA VAC
- B. HEPA equipped power tool (optional)
- C. Polyethylene sheeting (6m-mil fire retardant)
- D. Polyethylene bags (6 mil)
- E. Water mister or spray bottle
- F. Duct tape
- G. Knife
- H. Paper towels

PART 3 EXECUTION

3.01 PREPARATION

- A. Prior to commencement of the work:
 - 1. Restrict access to work area. Provide orange cones, saw horses, barrier tape, etc. to demarcate an area a minimum of 20 feet in all directions beyond the subject component(s).
 - 2. Place a sheet(s) of plastic on the ground, extending at least five feet beyond all areas of the subject component(s); use (6 mil) fire retardant polyethylene sheeting. Sheeting shall cover all ground cover within the work area including but not limited to concrete, asphalt, grass and shrubs. Weigh down the sheeting with heavy objects (e.g. 2" x 4" wooden boards).
 - 3. All openings (e.g. sewer drains) within 5 feet of the work area shall be covered with a single layer of six mil polyethylene sheeting and sealed. Windows must be closed, residents must be instructed not to open windows until the Contractor removes barriers.
 - 4. Residents in the immediate vicinity where work activity will occur, shall be informed of the nature of the work activity and asked to refrain from entering the work area, to keep all windows within 20' of working areas closed during work hours (including windows of adjacent structures).

3.02 3.02 PERFORMANCE OF WORK

- A. Work shall be performed as follows:
 - 1. For components that require cutting, area to be cut shall be wrapped with two layers of duct tape.

2. In order to limit the creation and dispersal of dust, lightly mist the surfaces to be disturbed with a fine spray of water. Also lightly mist the plastic sheeting beneath the work area. Periodically rewet the area while working.
3. Components that can be unscrewed/unbolted shall be unfastened and placed on sheeting.
4. Upon completion of all dismantling and cutting activities, the Contractor shall vacuum all loose paint chips from the metal components in the work area. The vacuum must have a High Efficiency Particulate Air filter (HEPA).
5. Contractor shall move components from work area to storage container or transport vehicle approved by NYCHA.
6. Observe safety precautions in the work area.
 - a. Do not smoke in the work area.
 - b. Do not eat or drink in the work area.
 - c. Keep polyethylene sheeting away from open flame, e.g., stoves, and blowtorches.
 - d. Exercise caution when spraying in the vicinity of electrical outlets.
 - e. Prevent children from entering the work area.
 - 1) Immediately repair torn sheeting using duct tape for minor tears; total sheet replacement may be necessary for major tears.

3.03 PROHIBITED WORK PRACTICES

- A. Open Flame Burning or Torching
- B. Machine Sanding, Grinding, Abrasive Blasting
- C. Heat Gun Above 1,100 Degrees Fahrenheit
- D. Extensive Dry Scraping And Dry Sanding

3.04 CLEAN-UP

- A. Upon completion of the task or at the end of each workday, the Contractor shall thoroughly clean the work site in the following manner. The Contractor shall never dry sweep dust or debris.
- B. DEBRIS REMOVAL
 1. Pick up all debris too large for a vacuum cleaner and place them in six-mil polyethylene bags. Avoid puncturing bags with pointed or jagged pieces of debris.
 2. HEPA vacuum remaining dust and debris from sheeting.
- C. CCLEANING OF TOOLS
 1. The Contractor must thoroughly wet wipe all tools and place in six-mil polyethylene bags.
- D. POLYETHYLENE SHEETING REMOVAL
 1. With a spray bottle, moisten the polyethylene sheeting and fold it inward upon itself, thereby trapping any residual dust.
 - a. After use, place the plastic sheeting into six-mil polyethylene bags. Close all bags with an airtight gooseneck seal, i.e., twist the bag, fold it over on itself, and wrap with duct tape.

3.05 CLEARANCE

- A. The Contract Inspector must visually inspect the work area after cleaning. The Inspector shall focus on child access areas such as bare soil, windowsills and play areas. The work area must be free of all visual dust and debris. The Inspector must complete a visual assessment form which details the scope of work, quantities and documents that the work area is free of all visual dust and debris that was generated by the work.

3.06 WASTE DISPOSAL

- A. Recycling of Metal Components
 1. The Contractor shall recycle all metal waste in a certified Recycling center.
 2. The Contractor shall submit to the Authority proof that the material was recycled. This shall consist of a bill of lading and weight receipt, and shall be forwarded to:

- a. Recycling Coordinator
- b. Technical Services Department
- c. New York City Housing Authority
- d. 23-02 49th Avenue
- e. Long Island City, NY 11101
- f. Phone: 718.707.5731

B. All other Waste

1. The Contractor shall dispose of all other waste as normal debris from construction. The Contractor shall submit to the Authority proof that the material was disposed of in a proper manner. This shall consist of a bill of lading and weight receipt, and shall be forwarded to:
 - a. Recycling Coordinator
 - b. Technical Services Department
 - c. New York City Housing Authority
 - d. 23-02 49th Avenue
 - e. Long Island City, NY 11101
 - f. Phone: 718.707.5731
2. Disposal Requirements: Contact the regional EPA, state, local and all other pertinent authorities to determine lead-based paint debris disposal requirements. Comply with requirements of the Resource Conservation and Recovery Act (RCRA) and with applicable federal, state, county, or local waste requirements.
 - a. Concentrated paint chips, sludge/liquids
 - 1) Concentrated waste that has been generated and drummed shall be representatively sampled through TCLP. The Contractor shall hire an independent consultant and laboratory (certified to collect/analyze TCLP samples) to collect and analyze TCLP samples.
 - 2) Samples shall be analyzed for and compared to the following standards
 - 3) TOXICITY
 - (a) Lead 5.0 ppm
 - (b) Arsenic 5.0 ppm
 - (c) Barium 100.0 ppm
 - (d) Cadmium 1.0 ppm
 - (e) Chromium 5.0 ppm
 - (f) Mercury 0.2 ppm
 - (g) Selenium 1.0 ppm
 - (h) Silver 5.0 ppm
 - 4) CORROSIVITY
 - (a) PH < 2 or > 12.5
 - 5) IGNITABILITY
 - (a) Liquids that have a flash point less than 140o F
 - 6) REACTIVITY
 - (a) In accordance with 40 CFR 261.23. Typically wastes that are unstable react violently or form explosive mixtures when mixed with water, generate toxic gases when mixed with water, or are capable of detonation or explosive reaction when heated or subject to shock.
 - 7) If TCLP sample results of waste are elevated for any of the above criteria, then all waste represented by the sample shall be transported/disposed of as hazardous. If all sample results are below the thresholds for the above criteria, then all waste represented by the sample shall be transported/disposed of as regular C&D debris.
3. A certified hazardous waste hauler must transport hazardous waste to a landfill and /or reclamation facility certified to receive and/or treat hazardous waste. Waste haulers and treatment/disposal facilities must be previously approved by NYCHA.

END OF SECTION 02 51 34