

SECTION 01 35 43

HAZARDOUS MATERIALS PROCEDURES

PART 1 GENERAL

1.01 SUMMARY

- A. Section 3.01 of this DPS Design and Construction Section may be deleted only where the project is new construction; unless the site falls under Section 02 82 00 and DPS Site Guidelines 00 90 00 for asbestos containing materials and existing buried structures. No other changes to the contents of this section are to be made.
- B. Hazardous Materials:
 - 1. Harardous material storage, transport and disposal must be handled in accordance with all Local, State, and Federal regulations and manufactures guidelines.
- C. OSHA Compliance:
 - 1. All contractors and their sub-contractors shall comply with all applicable worker protection standards, including but not limited to:
 - a) OSHA 1910.1200 Hazard Communication
 - b) OSHA 1910.134 Respiratory Protection
 - c) OSHA 1910.1001 Asbestos in General Industry
 - d) OSHA 1926.1101 Asbestos in Construction
 - e) OSHA 1926.62 Lead in Construction
 - f) OSHA 1926.1153 Respirable Crystalline Silica
 - g) OSHA 1926.55 Gases, Vapors, Fumes, Dusts and Mists

1.02 WORK BY OTHERS

- A. Asbestos Remediation:
 - 1. The School District has completed a survey of all school buildings to identify asbestos containing materials (ACM). Where asbestos materials were known to exist in locations affected by this project, abatement measures have been (or will be) taken by the Owner under separate contract. The Contractor shall coordinate their sequence and schedule with that of asbestos abatement work as defined in Section 02 82 00.

1.03 ASBESTOS AWARENESS

- A. Asbestos containing materials may exist within the general project area where such materials are not expected to be disturbed during the work. The Contractor shall review the A.H.E.R.A. report at the project site and become familiar with known asbestos containing materials in the work areas. If information is unclear as to the type of material that may be disturbed, it is the contractor's responsibility to consult with DPS Environmental Services for clarification.
- B. Denver Public Schools requires that all contractors working on District property possess at a minimum 2-hour asbestos awareness training to ensure that asbestos material is not accidentally disturbed during the construction process.

1.04 SPECIAL NOTICE OF SUPERFUND DESIGNATION

- A. General Note: When the contractor doing work on any DPS property detects free liquid products in the ground or when a solvent or petroleum odor is detected, the Contractor shall cease all operations in the area of concern and immediately notify the DPS Environmental Services.

- B. Note to Contractors doing earthwork at Swansea, Harrington, Bruce Randolph, Pioneer, Wyatt, Mitchell, and Cole: These schools are located within the Vasquez/I-70 Superfund site. The potential health concern for working at this site is exposure to metals by breathing in soil particles once they become airborne. Although the soil at these schools has been tested and found to be below EPA's action levels of 400 parts per million (ppm) for lead and 70 ppm for arsenic, contractors at these sites should take precautions to not allow excessive fugitive dust on the property and no off-property transfer of fugitive dust. Workers that are concerned about exposure can wear a dust mask to prevent inhalation of any dust. If you want specific sampling results for these sites, contact the DPS Environmental Services.
- C. Note to Contractors doing earthwork at Garden Place: This school is located within the boundary of the proposed ASARCO Globe Superfund site. The potential health concern for working at this site is exposure to metals by breathing in soil particles once they become airborne. The soil at this school has been tested and areas that contained greater than 73 parts per million (ppm) cadmium, 500 ppm lead or 70 ppm arsenic has been removed from the site. Although the soil has been tested and removed if necessary, contractors should take precautions to not allow excessive fugitive dust on the property and no off-property transfer of fugitive dust. Workers that are concerned about exposure can wear a dust mask to prevent inhalation of any dust.
- D. Note to Contractors doing earthwork/excavation at Ashgrove/RMSEL: This school is located within the Redfield Rifle Scope clean-up project. The concern at this school is groundwater contamination and not a health issue for workers at the site or for the school. If a contractor is doing excavation work at the site and detects a solvent odor, they should stop work and immediately contact DPS or the DPS Hazardous Materials Specialist.

1.05 EXISTING AND BURIED STRUCTURES

- A. Prior to any earthwork, drilling, or excavation at DPS sites, the work must be coordinated with DPS Environmental Services.
- B. Several DPS sites have buried original buildings that were demolished and buried prior to current and applicable, regulations that require remediation for the removal of soil contaminants per Section 02 82 00 Part 3.
- C. If suspected materials are discovered during any earthwork, the contractor is to stop work and contact DPS Environmental Services immediately.

1.06 SUBMITTALS

- A. Import and Export of Fill Dirt
 - 1. No materials may be removed from the project site nor imported to the project site without proper analysis and documentation of the contents of the soils.
 - 2. DPS will provide evidence of the testing of soils on DPS property and the analysis thereof. Soils containing hazardous materials that are removed from the site shall be disposed of in a manner approved by the EPA. Any contractor removing such material shall provide certification that the material was properly handled.
 - 3. Before any fill dirt is imported to the site, the contractor shall provide evidence that the material is free of hazardous materials.
 - a) For all import fill materials, provide Environmental analysis including test results for **RCRA8**, **TPH** and **BTEX** analyses provided by a certified independent testing agency.
 - b) Submit test results to DPS for review by DPS Environmental Services.
 - 4. The Asbestos Certification Letter for New Installed Building Materials for is required for all new materials installed in DPS buildings.

1.07 PROJECT/SITE CONDITIONS

- A. All existing vector deterrents and installations must be returned to their original state if the project is to impact these materials. Bird deterrent netting must be reinstalled on new unit installations if deterrents were present prior to the start of work.

1.08 ASBESTOS CONTAINING MATERIALS

- A. DPS Environmental Services maintains material and inventory information for asbestos-containing and non-asbestos-containing materials that are available by hard copy at the school or facility and electronically by request.
- B. Materials not detailed in DPS reports should be considered to be asbestos-containing until proven otherwise by a certified inspector.
- C. DPS Environmental Services maintains records and information regarding the presence of asbestos contaminated crawlspaces and attics. Records of known buried structures or soils with the potential of asbestos contamination are also available through DPS Environmental Services.
- D. All asbestos abatement projects shall be coordinated with DPS Environmental Services per Sections 02 82 00.

1.09 LEAD CONTAINING MATERIALS AND PAINT

- A. The School District has surveyed elementary schools built pre-1978 for lead based paint (LBP) as defined by the EPA RRP rule.
 - 1. Middle Schools and High Schools do not fall under this regulation and have not been surveyed for lead based paint. LBP in these schools is the contractors responsibility and must follow 29 CFE 1926.62 Lead in Construction Standard and disposal requirements.
 - 2. DPS shall provide LBP results in the Environmental Assessment Report.

PART 2 PRODUCTS

2.01 NEW BUILDING MATERIALS

- A. Any new building material installed in DPS buildings is to be free of asbestos and certified by a signed letter from the architect or project engineer as defined in Section 02 82 00.

PART 3 EXECUTION

3.01 ASBESTOS DISCOVERY

- A. The Contractor is cautioned to be alert to the possibility that his work may uncover asbestos containing materials. If suspected materials are found, the Contractor shall notify the District and stop all work in the area immediately. If the suspected materials prove to contain asbestos, the Owner will arrange to have the materials abated in a timely manner.

3.02 IMPORT FILL MATERIALS

- A. Before any fill materials are imported onto the project site, the Contractor shall provide all required information as to the suitability of the materials for the intended use and shall provide certification that materials are free of hazardous materials as outlined in section 1.06 of this section.

END OF SECTION 01 35 43