

SECTION 12. ENVIRONMENTAL STANDARDS

12.1 ASBESTOS AND LEAD BASED PAINT

A statement must be included on the drawings as to whether or not asbestos and/or lead paint is present. If either material is present the designer must specify the material and its location. All asbestos/lead paint surveying and documentation will be the responsibility of the designer. Mountain Home Air Force Base has an asbestos survey of some of the structures on the Base.

Asbestos and lead based paint removal shall comply with all current regulations and standards.

All projects involving asbestos removal shall have an industrial hygienist hired to observe and certify procedures and regulations.

Projects shall have observations ports installed for Base Inspectors to observe asbestos removal.

A permitted asbestos landfill is currently available on-base for disposal of asbestos. No appliances, barrels, tires, batteries or unauthorized hazardous waste shall be placed in the landfill.

Contractors shall be required to have asbestos disposal forms signed by Base inspectors. Asbestos loads shall be permitted onto landfill only with an accompanying Base inspector or with the signed forms.

Inspectors shall verify bag count.

Twenty-four hour notification must be given to civil engineering personnel before asbestos material will be accepted for disposal. The quantity of asbestos should be provided at the time of notification.

12.2 WASTE DISPOSAL

Waste generated on Mountain Home AFB may be disposed of on base. Mountain Home encourages recycling of material prior to material being brought to disposal areas. In addition to the Asbestos Landfill mentioned above, Mountain Home AFB has the following waste disposal areas:

12.2.1 Municipal Landfill

Material brought to the Municipal Landfill shall have recyclable material separated out prior to being brought to the landfill. Contractors not willing to participate in recycling are required to haul municipal waste off base and dispose at Contractor's expense in a permitted landfill.

12.2.2 Recycling Center

Mountain Homes recycling center accepts aluminum, cardboard, newspapers, and other mixed paper products.

12.2.3 Surface Disposal Area

Surface Disposal Area accepts concrete, asphalt, rubble and soil classified as unsatisfactory.

12.2.4 Construction Debris Landfill

Woods and metals can be disposed of in the Construction Debris Landfill as long as material is crushed prior to disposal.

12.2.5 Soil Farm

A soil farm is available on base for disposal of soils contaminated with hydrocarbons.

Coordination with civil engineering personnel is required prior to disposal of material into the Surface Disposal Area, Construction Debris Landfill and Soil Farm.

12.3 ENVIRONMENTAL PERMITS

Processing of all required environmental permits (i.e., air emissions, etc.) shall be the responsibility of the designer.

12.4 SANITARY DRAINS

Do not use oil/water separator in draining areas where grease or oil is encountered. Use a closed loop drainage system.

12.5 LIQUID STORAGE TANKS

Above-ground storage tanks are preferred. Meet all current regulations and code requirements.

SECTION 01061

ENVIRONMENTAL PROTECTION

PERMITS REQUIRED PRIOR TO CONSTRUCTION

- IDEQ (Idaho) Wastewater System Checklist – fully coordinated
- IDEQ (Idaho) Drinking Water System Checklist – fully coordinated
- NPDES Storm Water – if project disturbs over 5 acres, and over 1 acre after March 10, 2003. Fully coordinated.
- For Rock Crushers, Hot Mix Asphalt Plants, Batch Plants, and Associated Generators the Contractors must have a processed Idaho Permit for their equipment prior to construction – CEV requires copies and through-put quantities to include generator hours.

PART 1 GENERAL

1.1 SCOPE

- A. This Section covers protection of the environment from work under this contract, compliance with pertinent Air Force, local, state, and federal environmental regulations, and recycling.
- B. For the purpose of this specification, environmental pollution and damage is defined as the presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances of importance to human life; affect other species of importance to man; or degrade the utility of the environment for esthetic, cultural, and historical purposes. The control of environment pollution and damage, or environmental protection, requires consideration of air, water, and land, and includes management of esthetics, noise, solid waste, and other pollutants.
- C. The Contractor is responsible for complying with all Air Force, local, state, and federal laws and regulations regarding protection of the environment and natural resources.

1.2 QUALITY CONTROL

- A. Establish and maintain quality control for environmental protection of all items set forth in this specification. Record any problems in complying with laws, regulations, ordinances, and corrective actions taken.
 - 1. Subcontractors: Assurance of compliance with this section by subcontractors shall be the responsibility of the Contractor.

1.3 NOTIFICATIONS

- A. The Contracting Officer (CO) will notify the Contractor in writing whenever noncompliance with Federal, state, or local laws, regulations, or permits is observed. After receipt of such notice, inform the Contracting Officer of proposed corrective actions and take such actions after approval of the CO. If prompt action to comply with the pertinent law or regulation is not taken, the CO may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No time extensions will be granted for work stoppage due to noncompliance with environmental laws and regulations. Costs or damage will not be allowed to the Contractor for any such suspension.
- B. Hazardous Waste Transportation: Notify the CO before transporting any hazardous substance, as determined by the Environmental Protection Agency (EPA), on Mountain Home AFB (MHAFB). Identify the type and quantity of substance, the origin or destination on MHAFB, and intended route of travel. By law, hazardous waste cannot be transported onto MHAFB. Notify the CO if any hazardous substance or waste is produced as a by-product of work activities. The Contractor shall be responsible for the proper handling, transporting, and disposal of such substances (see 1.4 part E).
- C. Asbestos: In the event asbestos abatement is required, send copies of each 10-day notification, asbestos manifest, and landfill forms through the CO to the Environmental Office. Submit Notification Revisions if the abatement periods change.
- D. In the event of an uncontrolled spill the contractor shall notify the fire department by calling 911. CEV then receives notification via the established MHAFB notification system that is initiated by the fire department.

1.4 PROTECTION OF ENVIRONMENTAL RESOURCES

- A. Protect environmental resources within the project boundaries and those affected outside the limits of permanent work under this contract during the entire period of this contract. Confine activities to areas defined in the drawings and specifications.
- B. Protection of Land Resources: Do not remove, cut, deface, injure, or destroy land resources including trees, shrubs, vines, grasses, topsoil, and land forms without special permission from the Contracting Officer except as otherwise specified or indicated. Do not disturb, drive through, or fill areas designated as wetlands.
- C. Disposal and Cleanup:
 - 1. Refuse Disposal: Refuse shall be defined as debris other than organic materials like trees, brush, leaves, grass, stumps, etc. Include the cost of refuse disposal, such as transportation, handling, dumping fees as applicable, and similar cost, in the contract price. Place refuse in containers that are emptied on a regular schedule. Conduct all handling and disposal of refuse to prevent contamination of the environment. Dispose of refuse off site, in accordance with all local, state, and federal rules and regulations, at the Contractor's expense.
 - 2. Asbestos Disposal: Approval may be given by the Contracting Officer for use of the MHAFB Asbestos landfill on a case-by-case basis. In such instances, the contractor shall

fill out all necessary forms showing content of materials, location from which the materials have been removed, and quantities. Coordinate with the CO in advance exact times for dumping to allow proper inspection. MHAFB disposal area is noted on the vicinity map on the drawings. Coordinate with contracting officer's representative (COR) for location in landfill for disposal.

3. Dumping of asphalt, concrete, and rock rubble and waste materials at the MHAFB Hard Fill Area shall be approved in advance on a case-by-case basis. Do not dump at the MHAFB rubble area without specific approval from the Government for the exact location, composition, and quantity of material. The contractor from the MHAFB Civil Engineering (BCE) Pavement and Equipment Foreman through the project inspector must receive this approval in advance. All materials dumped at the MHAFB rubble area shall be spread, graded and covered daily as directed by the BCE Pavements and Equipment Foreman. All materials must be weighed before dumping at the MHAFB rubble area. Scales available for use are located at DRMO, building 1322. Weight tickets must be forwarded to 366 CES/CEVQ on a monthly and/or end of project basis.
- D. Additional Restrictions: Do not deposit refuse in existing containers or dumpsters. Do not dispose of any batteries, tires, appliances, recyclable materials, liquids, hazardous materials, or hazardous wastes in the MHAFB landfill. Do not pour, drain, or wash cleaners and other solutions into plumbing fixtures, sanitary sewers, or storm sewers. Refuse shall not be burned. Burning of vegetation or tree stumps will not be allowed unless the work site is in an area approved for burning and approval is obtained from the CO.
- E. Disposal of Chemical or Hazardous Waste:
1. Hazardous waste generated by construction operations remains the property of the Contractor and shall be removed from Mountain Home AFB for proper disposal. MHAFB still retains liability. The contractor must complete a uniform hazardous waste manifest as required in paragraph E.6. below.
 2. Contractor operations shall be in compliance with the Resource Conservation and Recovery Act (RCRA), 40 CFR, and Idaho Rules, Regulations and Standards for Hazardous Waste, (Idaho Code 16.01) at all times.
 3. No more than 55 gallons, total, of hazardous waste shall be accumulated by the Contractor on site. Once the 55-gallon limit is reached, the Contractor has 72 hours to remove the waste from Mountain Home AFB and dispose of properly.
 4. Submit a Hazardous Materials/Hazardous Waste Control Plan to the CO for approval and coordination if any materials will be used that are corrosive, flammable, toxic, or reactive.
 5. Submit Material Safety Data Sheets (MSDS) to the CO for approval and coordination for all paints, protective coatings, solvents, adhesives, and all other chemical products. Have available for inspection at the job site MSDS's for all products and materials used for the contract.
 6. Hazardous wastes shall be manifested off of MHAFB and the MHAFB Environmental Office, 366 CE/CEV, shall be the only approval authority.

- F. Disposal of Discarded Materials: Discarded materials, other than those that can be included in the solid waste category, shall be handled as directed by the CO.
- G. Protection of Water Resources: Keep construction activities under surveillance, management, and control to avoid pollution of surface and ground waters. If the project disturbs over 5 acres of contiguous land, submit a NPDES storm water permit to the EPA through the CO and MHAFB Environmental Office and comply with the conditions of the permit. Projects that will occur after March 10, 2003, or that will still be in work at that date, and that disturb greater than 1 acre must obtain a NPDES storm water permit. In all cases of land disturbance, each storm water removal and treatment structure must be in conformance with the *Catalog of Storm Water Best Management Practices for Idaho Cities and Counties*, and these best management practices will be employed to control storm water runoff. Ensure there are no unauthorized discharges to the storm water collection system. Ensure all discharges to the sanitary sewer system are in accordance with the requirements of the wastewater treatment plant NPDES and wastewater land application permits. MHAFB project designs that require completion of Idaho Department of Environmental Quality (IDEQ) checklists are:

- Sewer line construction
- Production well construction
- Water lift station construction
- Water line construction

The A & E design shall be responsible for obtaining and completing all IDEQ checklists and submitting all project design proposals to IDEQ with courtesy copies to the MHAFB Environmental Office, 366 CES/CEVQ. Coordination with IDEQ must be completed prior to construction or execution.

- H. Protection of Air Quality: Control dust particles, aerosols, and gaseous by-products from construction and demolition activities, processing, and preparation of materials at all times, including weekends, holidays, and hours when work is not in progress. Control hydrocarbons and carbon monoxide emissions from equipment to Federal and state allowable limits at all times.

If required by the contract, **portable concrete batch plant, portable rock crushing plant, hot mix asphalt plant, and associated generators must be permitted in State of Idaho** by the contractor prior to construction. Copies of the permits must be submitted to the Contracting Office and coordinated through the COR and the Civil Engineering Environmental Flight (CEV). Location of the plant(s) must be coordinated through the CO. The Contractor shall provide monthly through-put quantities and generator hours to CEV through the COR. While operating at MHAFB, contractors are responsible for their own permit requirements/conditions.

- I. Noise: Use low noise emission equipment and products certified by the EPA to the maximum extent possible.
- J. Assume all facilities on Mountain Home AFB contain asbestos and lead-based paint unless otherwise notified by the CO. Brief all employees and subcontractors on the potential presence of asbestos and lead-based paint in facilities before work is started.

- K. Comply with all applicable regulations and laws when transporting hazardous waste and materials. These include, but are not limited to, Department of Transportation (DOT), EPA, and Idaho Department of Environmental Quality (IDEQ) regulations (40 CFR, 29 CFR, IDAPA 16.01).
- L. Hazardous Materials: Contractors must submit for approval/disapproval Material Safety Data Sheets (MSDS) to the COR for coordination with HAZMART for potentially hazardous material (including paints, solvents, thinners, etc) intended for use at MHAFB. An inventory of all approved potentially hazardous materials shall be submitted to the COR/HAZMART prior to bringing material onto MHAFB for use. The inventory shall include the material name/trade name, container size, quantity, and intended use. Prior to using the hazardous material at MHAFB, HAZMART will provide bar-code labels for the tracking of hazardous materials. Contractors bring hazardous materials onto MHAFB without authorization is responsible for any punitive or regulatory actions. The contractor shall be responsible for proper disposal of all containers/hazardous material. Coordination of proper disposal shall be accomplished through the Civil Engineering Inspector/COR.

Hazardous materials shall be properly stored in accordance with all Federal, state, local, and Air Force regulations.

- M. Ozone Depleting Substances: All Class I ODSs waivers must be obtained from either HQ ACC/LGEM (for logistics) or HQ ACC CES/CEOI (for civil engineering) prior to use at MHAFB. All Class I ODSs approved for use at MHAFB must be obtained from the Department of Defense (DoD) through its Defense Logistics Agency (DLA) which has established an ODS Reserve at the Defense Supply Center Richmond (DSCR). All used ODS obtained through the center must be returned to the DSCR for reclamation. Currently, the only new Class I ODSs waivers being approved for use at MHAFB is for aircraft support (fire suppression systems).
- N. Use backflow protection devices if tapping into a hydrant to gain a water source for activities.

1.5 PROTECTION OF CULTURAL RESOURCES

- A. Cultural resources shall be defined as historic or prehistoric artifacts, pictographs, human remains, and any other evidence of historic human activity.
- B. Do not disturb any site that contains evidence of cultural resources. If evidence of cultural resources are discovered, stop work and notify the COR. The COR will then notify the MHAFB Cultural Resource Manager at 828-1685 or 828-6351. Do not resume work until notified by the COR or CO.

1.6 RADIOACTIVE MATERIALS

- A. Radioactive Materials: Submit requests to bring radioactive materials or nuclear devices on Mountain Home AFB 30 days prior to planned activities using the material or devices. Such devices include those required to test soil density by nuclear methods, lead paint meters, and any apparatus containing radioactive material. Requests shall be submitted to the CO for review by the MHAFB Radiation Safety Officer (RSO).

1. The request shall include the following:
 - a. A description of the proposed activities on Nuclear Regulatory Commission (NRC) Form 241, Report of Proposed Activities in Non-Agreement States. Include proposed activities, locations of use, and traffic routes to be used.
 - b. The procedures established to ensure the health and safety of personnel while the device is on MHAFB.
 - c. A current and valid copy of the applicable NRC or Agreement State license. The license must state Mountain Home AFB by name, or state approval for work at temporary work sites where the NRC or Agreement State maintains jurisdiction. In lieu of a license, submit a written certification of exemption from NRC licensing requirements, and cite the applicable exemption of 10 CFR.
 - d. The most current leak detection test results. Provide new results to the CO if updating of the leak detection test is required during the Project.
 - e. A copy of that part of the contract describing work to be done at MHAFB and the inclusive dates of the work.
 - f. Agreement State licensees using NRC regulated materials shall supply a copy of the NRC Form 241 approved by MHAFB's NRC Region according to 10 CFR 150.20.
2. Obtain permission from the CO prior to storing the radioactive devices at MHAFB overnight.
3. The RSO may make periodic checks to ensure proper radiation safety practices are being followed.

1.7 RECYCLING

- A. Recycling is required to the maximum extent practicable for all waste generated by the contractor if the contractor chooses to use the MHAFB landfill. Demolition projects must utilize deconstruction practices as much as feasible. All materials removed from facilities prior to demolition for re-use must be weighed and weights must be reported to 366 CES/CEVQ monthly or at the end of the project if lasting less than one month.
- B. Recycling shall consist of sorting and delivering recyclable items to the appropriate recycle processors, which are private or government entities currently accepting material for the purpose of recycling. Contractor loads not properly sorted will be turned away from the MHAFB landfill, or removed from the landfill if already dumped, and shall be transported from MHAFB to an off-base disposal area, all at the contractor's expense. The MHAFB recycling center may or may not accept the contractor's recyclables.
- C. Recyclable items include: wood, glass, metals, cardboard, limited plastics, and paper.
- D. Submit a Waste Disposal and Recycling Plan for the Government's approval prior to contract start. (See sample "Waste Disposal and Recycling Plan" below). When preparing the plan, the contractor may contact the MHAFB Recycle Center at 828-4212 or the Solid Waste

Manager at 828-6124 or 828-6351 for advice and suggestions on how to best satisfy the recycling requirement. Submit the plan to the Contracting Officer for coordination with the MHAFB Environmental Office, 366 CES/CEV. The plan shall include, at a minimum:

1. Brief description of work done under the contract,
 2. Identification of the major waste stream (categories of waste, e.g. wood, fixtures, cardboard, etc) to be generated,
 3. Intended method and location of disposal or recycling for each waste system
- E. The contractor may choose to dispose of any or all of the waste streams in the following manner:
1. Dispose of any or all of the waste streams off-base,
 2. Recover any or all of the waste streams by sending them to an off-base recycling company or center.
 3. Turn in some waste streams to the MHAFB recycling program with the Government's approval. The acceptance of these waste streams depends on the Government's ability to process the waste stream and the contractor's ability to adequately prepare the waste stream to meet the Government's condition requirements. The Government is currently encouraging the recycling of the following items on MHAFB:
 - a. Wood
 - b. Scrap Metal
 - c. Corrugated Cardboard
 - d. Glass
 - e. Paper
 - f. Limited plastics

F. SAMPLE Waste Disposal and Recycling Plan

CONTRACT # _____

Brief description of Work done under the contract:

Renovate 6000 sq. ft. in building XYZ. Plumbing, electrical, and mechanical systems are scheduled to be replaced. Floor plan to be changed with new floors, walls, and ceilings. Asbestos abatement planned on existing floor tile mastic and insulation.

Identification of the major waste stream (categories of waste, e.g., wood, fixtures, cardboard, etc.) to be generated.

1. Scrap Metal
2. ACM
3. Wood Waste
4. Fixtures
5. Mixed Demo Debris
6. Inert Debris

Intended method and location of disposal or recycling for each waste stream

1. Scrap Metal: Existing water pipe (copper), ductwork (steel), and electrical wiring (copper) will be turned in to the MHAFB Recycling Center.
2. Asbestos Containing Material: ACM removed prior to renovation will be deposited in the MHAFB Asbestos landfill IAW all federal, state, and local regulations.
3. Wood Waste: Contractor will keep re-usable wood scraps and turn in smaller scraps to the MHAFB Recycling Center free of other bulk building material.
4. Plumbing and Electrical Fixtures: Contractor will salvage existing fixtures to be removed for re-use in later projects or sale to others. Fixtures will be removed from Mt Home AFB prior to the end of the contract. List of re-used items will be provided to 366 CES/CEVQ.
5. Mixed Demo Debris: (if less than 10cy) dispose of in MHAFB landfill. (If greater than 10cy) will be ground into a 6-inch minus bulk and disposed of in the MHAFB landfill.
6. Inert Debris: Disposed of at the MHAFB inert debris site as directed by the Chief of Heavy Repair, 366 CES/CEOH.

1.8 SPILL PREVENTION AND CONTROL

- A. Spill Response Plan: Develop a Spill Response Plan that addresses prevention and control of spills for each type chemical and fuel used or stored at each site occupied under this Contract. The Plan must be site-specific. Each employee must be familiar with the Plan so risk of spills is minimized and response to spills can be dealt with in a manner to minimize impact to the environment. The Contractor shall be responsible for all costs associated with cleanup and restoration of sites contaminated by chemicals from Contractor activities. The elements of the plan should include the following:
 1. Prevention: Methods and procedures established by the Contractor to prevent spills from occurring. Examples include ensuring connections are tight, providing containment when drawing off chemicals from a container or transferring chemicals, closing containers when not in use, and using proper equipment for the job.
 2. Control: Procedures to control the spread of a substance or chemical should a spill, release, or leak occurs. The intent is to minimize environmental contamination without physical harm to people in the area.
 - a. Supplies: Provide necessary supplies and equipment on hand to control any spills, leaks, or releases. These include pads and other absorbent material, trays, mats to cover manholes and drains, etc.
 3. Training: The Plan must ensure employees, including subcontractors working on the job, are educated and trained in the prevention and response procedures that are tailored to the specific site and task.
- B. Procedure Outline: An outline of expected procedures to be followed in the event of a release or spill of a chemical is provided for the Contractor's use. The Contractor is ultimately

responsible for ensuring spills do not occur and responding in a manner to prevent harm to people and minimize environmental contamination.

The person discovering the spill or release is responsible for initiating the Spill Response Plan and providing initial defensive actions without undue risk of personal injury. Implement the following actions as necessary upon discovery of the spill or release.

1. Initiate evacuation if required.
2. Notify the Fire department (911) and provide the following information if known or can be reasonably determined:
 - a. Name, and company, of individual reporting the spill
 - b. Location of the spill or release
 - c. Number of injured personnel and nature of injuries (if applicable)
 - d. Substance spilled or released, based on knowledge, labels, signs, etc.
 - e. Estimated rate of substance release
 - f. Time spill occurred
 - g. Extent to which spill has traveled
 - h. Any additional information that might aid the Fire Department, such as other potential hazards at the site
3. Stop the spill or release at the source whenever possible without risking personal injury.
4. Contain the spilled material to prevent further spread and release to drainage ditches, pipes, manholes, storm water drop inlets, etc.
5. Secure the area to ensure unauthorized personnel do not approach or become endangered.
6. Ensure all sources of ignition are restricted and prevented in the area when flammable substances are involved.
7. Contact the CO and CEV (828-6351) and inform them of the situation. The CO is to ensure the proper paperwork is completed for release. **If the release is over the reportable quantity, CEV is to make all state and federal notifications.**
8. Note: Small spills that can be contained and cleaned up by the Contractor without any damage to the environment may not require all the steps above. Ultimately, the responsibility for proper cleanup to Environmental Protection Agency (EPA) and state of Idaho Department of Environmental Quality (IDEQ) standards rests with the Contractor. In all cases, the CO must be notified as soon as possible.

1.9 MAINTENANCE OF POLLUTION CONTROL FACILITIES

- A. Maintain all constructed facilities and portable pollution control devices for the duration of the contract or for that length of time construction activities create the particular pollutant.

1.10 PROTECTION OF TREES DURING EXCAVATION

- A. Exercise care when excavating trenches near trees. Where roots are 2 inches in diameter or greater, excavate the trench by hand and tunnel under the roots. When large roots are exposed, wrap them with heavy burlap for protection and to prevent drying. Trenches dug by machines adjacent to trees having roots less than 2 inches in diameter shall have the sides' hand trimmed making a clean cut of the roots. Trenches having exposed tree roots shall be backfilled within 24 hours unless the roots are adequately protected by moist burlap or canvas.

1.11 RESTORATION OF LANDSCAPE DAMAGE (VEGETATION - SUCH AS TREES, PLANTS, AND GRASSES)

- A. Restore all landscape features, such as trees, plants, shrubs, grasses, etc, damaged or destroyed during Contractor operations outside and within the work areas. Restoration shall be to a condition similar to that which existed prior to construction activities unless otherwise indicated on the drawings or in the specifications. This restoration shall be done at no additional cost to the Government. If the Contractor fails or refuses to repair the damage promptly, the Contracting Officer may have the necessary work performed and charge the cost to the Contractor.
- B. Replace trees in kind with a minimum 4-inch caliper nursery stock. Shrubs, vines, and ground cover shall be replaced in kind; size to be approved by the Contracting Officer.
- C. All plant material shall meet specifications outlined in ANSI Z60.1, "American Standard for Nursery Stock."
- D. Replace grass areas in kind by sodding or seeding. Sod shall be required in all regularly maintained lawn areas and shall be installed in accordance with Section 02900 [American Sod Producers Association Guideline Specifications to Sodding].
- E. Install grass seeding on a minimum 2-inch topsoil and according to Section 02900 [as recommended by the local county extension service].
- F. Acceptable replacement plant species are in Schedule A to Section 02900.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

(Not Used)

END OF SECTION