

SECTION 01560

COMPLIANCE REQUIREMENTS

LANL MASTER CONSTRUCTION SPECIFICATION

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., a component that does not apply). To seek a variance from applicable requirements, contact the ESM Civil POC.

When assembling a specification package, include applicable specifications from all Divisions, especially Division 1, General Requirements.

Delete information within "stars" during editing.

Specification developed for ML-3 / ML-4 projects. For ML-1 / ML-2, additional requirements and QA reviews are required.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Erosion and Sediment Control
- B. Storm Water Management
- C. Site Stabilization
- D. Spill Control and Response
- E. Debris Control
- F. Air Quality
- G. Dust Suppression
- H. Rodent Control
- I. Environmental Restoration Sites
- J. Hazardous Waste
- K. Traffic Control
- L. Water Discharge
- M. Grading, Excavating and Trenching

1.2 SUBMITTALS

- A. Submit the following in accordance with Section 01330, Submittal Procedures.
1. For projects operating under a National Pollutant Discharge Elimination System (NPDES) permit:
 - a. Submit all requested information for the Storm Water Pollution Prevention (SWPP) plan within 14 days after award of the contract. Submit information in sufficient format and detail as may be required by LANL for completion of the SWPP Plan, including the calculations required by the New Mexico Environmental Department (NMED) Surface Water Quality Bureau (SWQB) state certification of the proposed NPDES permit NMR 150000 sections 9.c.1.a.i and 9.c.1.b:
<http://www.nmenv.state.nm.us/swqb/PSRS/NMR150000-Info.html> The completed SWPPP Plan shall be certified by both LANL and a responsible corporate officer of the Contractor prior to the Notice of Intent (NOI) submittal. The Contractor agrees to continue to submit such additional information to and otherwise cooperate and work with LANL to maintain/modify the SWPP Plan throughout the duration of this contract.
 - b. Construction shall not begin until at least 7 days after the United States Environmental Protection Agency (EPA) has acknowledged receipt of the complete NOI on their website at <http://www.epa.gov/npdes/stormwater/cgp> and the (EPA) has not delayed the authorization. The Contractor shall submit a complete Notice of Intent (NOI) for review to LANL at least 20 days prior to start of construction. The SWPP Plan shall be completed and approved prior to submission of the NOI. Once LANL has reviewed and approved the NOI, the Contractor shall submit the NOI to the EPA at least 8 days prior to start of construction.
 - c. Following a review and approval by LANL, submit a Notice of Termination (NOT) to the EPA within 10 days after final stabilization of the site. Release of the site before final stabilization may be negotiated through LANL prior to termination of the contract.
 2. New Mexico Environment Department Notice of Intent (NMED NOI)
 - a. The LANL Construction Inspector will contact the LANL Water Quality & Hydrology Group (ENV-WQH) at 665-0453 prior to the Contractor using fertilizer, hydraulically applied mulches, Bonded Fiber Matrix, dust suppression additives, and other substances that are applied to the ground. ENV-WQH will determine whether the substances will require a Notice of Intent (NOI) to Discharge be submitted to the New Mexico Environment Department (NMED) by Contractor. Provide information as necessary to obtain the NMED NOI and follow all conditions of the NOI.
 3. Traffic Control Plan
 - a. Submit a temporary traffic control plan and subsequent proposed changes to the plan to the LANL Traffic Control Engineer for review and approval.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.1 EROSION AND SEDIMENT CONTROL

- A. Properly install Best Management Practices (BMPs) as shown on the drawings or identified in the SWPP Plan, prior to any earth disturbing activity.
- B. Maintain BMPs in accordance with SWPP Plan and manufacturer's recommendations.
- C. When practical, implement permanent BMPs during the construction phase to meet the objectives of temporary sediment and erosion controls.
- D. Disturb only the minimum amount of soil necessary. Give special attention to protecting established vegetation.

3.2 STORM WATER MANAGEMENT

Refer to the Civil Chapter, G10 Site Preparation, for Storm Water Management design requirements.

- A. Provide methods to control surface water as identified in the Drawings or SWPP Plan to prevent damage to the Project, the site, and in adjoining areas.
- B. Use permanent storm water management controls (such as detention ponds, riprap, rock check dams, etc.) during the construction in place of temporary storm water management controls whenever practical.
- C. Ensure temporary and permanent storm water management controls are properly installed per Drawings and the SWPP Plan. Maintain controls per Drawings, the SWPP Plan, and manufacturer's installation recommendations.

3.3 SITE STABILIZATION

- A. Stabilize all disturbed areas with native perennial vegetation, gravel, riprap, pavement, buildings, or other permanent stabilization measures. Do not leave any disturbed areas as barren soil. Final stabilization shall be accepted by LANL Utilities and ENV-WQH. The LANL Construction Inspector will contact LANL Utilities at 665-0106 and ENV-WQH at 665-0453 to schedule the final walk down and acceptance.
- B. For seeded areas, establish an evenly distributed native perennial vegetative cover with no large bare areas and an average density of 70% of the native background vegetative cover for the area. Refer to Section 02936, Seeding.
- C. Begin stabilizing disturbed areas no more than 14 days after construction activities have finally or temporarily ended in the area.

- D. Do not apply fertilizer, hydraulically applied mulches, or Bonded Fiber Matrix in watercourses.

3.4 SPILL CONTROL AND RESPONSE

- A. In the event of a spill, immediately notify the LANL Construction Inspector who will contact Emergency Management and Response (EM&R) at 667-6211. The Contractor shall be responsible for remediation of any spill.
- B. Store all fuels, lubricants, chemical storage, material stockpiles, and other potential pollutants in a designated area on-site. Provide secondary containment and controls including berming lined with an impervious material, covering, or other appropriate BMPs. When aboveground petroleum storage capacity is greater than 1,320 gallons (including all containers 55 gallons or larger), notify the LANL Construction Inspector who will contact ENV-WQH at 665-0453 to initiate the development of a Spill Prevention Control and Countermeasure (SPCC) Plan.
- C. When an aboveground petroleum storage tank (AST) is being constructed with a storage capacity greater than 1,320 gallons and less than 55,000 gallons, submit information in sufficient format and detail as required by LANL for completion of the Corrosion Prevention Plan (CPP), the tank registration, and state notification. The CPP must be certified by a corrosion expert or a PE and approved in writing by New Mexico Environment Department – Petroleum Storage Tank Bureau (NMED-PTSB) prior to installation of the tank system. The AST system must be registered with NMED-PTSB prior to being placed in service. Personnel who are certified by the NMED-PTSB shall install all AST systems.
- D. The LANL Construction Inspector will contact ENV-WQH (665-0453) at least 60 days prior to performing repairs or modifications to existing AST systems. If the repair or modification is an emergency repair, notify ENV-WQH as soon as possible following the repair. Personnel who are certified by the NMED-PTSB shall perform all modifications or repairs to AST systems.
- E. The LANL Construction Inspector will contact ENV-WQH (665-0453) at least 60 days prior to installing any underground petroleum storage tanks to ensure that all LANL requirements are met.

3.5 DEBRIS CONTROL & SOILS MANAGEMENT

- A. Use good housekeeping practices to keep sites free of construction debris and trash. Provide containers for deposit of debris and trash.
- B. Do not drive or move any vehicle on any public road unless the vehicle is constructed, loaded, secured or covered in a manner that will prevent any of its load from dropping, sifting, leaking, or otherwise escaping (except when purposefully cleaning, maintaining, or sanding for traction).
- C. Securely fasten all load covers to vehicles prior to driving on public roads so that the covering does not come loose or become a hazard to others.
- D. Do not bury construction waste, sanitary waste, or trash on-site.

- E. Perform washout of concrete trucks and the cleaning of concrete tools and equipment in a designated area on-site and upslope of appropriate BMPs.
- F. Do not move soil or other material between Technical Areas (TAs) without first obtaining written approval from the receiving TA. Material must be clean of all contaminants before movement; all transferred soil must be characterized. See Part 3.9C.
- G. Segregate all materials prior to sending material to the LANL Material Recycle Facility (MRF). The LANL Construction Inspector will contact LANL Solid Waste Regulatory Compliance (ENV-SWRC) at 667-0666 to obtain instruction on required sampling and documentation procedures. Material shall be clean of all contaminants.
- H. Contact ENV-WQH at 665-0453 prior to performing any potholing activities to ensure an NOI is submitted to New Mexico Environment Department (NMED). Do not discharge polypropylene glycol, propylene glycol, ethylene glycol, or any other anti-freeze substance without first contacting ENV-WQH and the ENV-SWRC Group (667-0666) to ensure that all environmental requirements have been met. Potholing material may not be removed from the site; refer to Part 3.5F.

3.6 AIR QUALITY

- A. The LANL Construction Inspector will contact the ENV-MAQ Group (665-855) prior to the Contractor operating portable and stationary fuel burning equipment (e.g., generators, rock crushers, asphalt plants). Drivable equipment does not require notification of ENV-MAQ.
- B. The LANL Construction Inspector will contact ENV-MAQ Group Office (665-8855) if the Contractor stores over 500 pounds of chemicals at the site.

3.7 DUST SUPPRESSION

- A. When applying potable water for dust control, ensure compliance with Section 01325, Water Discharge Requirements.
- B. Do not add additives to potable water for dust control until receiving approval. Notify the LANL Construction Inspector who will contact ENV-WQH. Comply with all conditions specified by ENV-WQH and the applicable federal and state agencies. Apply all liquids in a manner that does not result in runoff.
- C. Do not apply dust suppression additives or other substances in watercourses.

3.8 RODENT CONTROL

- A. Do not use any pesticide (rodenticide) without the written approval of LANL. Comply with New Mexico Pesticide Control Act, Chapter 76, Article 4, Sections 1-39.

3.9 ENVIRONMENTAL RESTORATION SITE

Refer to the Civil Chapter, Section G10 Site Preparation, for environmental restoration design requirements.

- A. No storm water runoff or soil disturbance shall be allowed across a Potential Release Site (PRS), includes Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) that are identified in the contract documents.
- B. A PRS cannot be disturbed without LANL Remediation Services (ENV-RS) Project approval and oversight. The LANL Construction Inspector will contact ENV-RS at 665-5138 or 665-2198. Any worker conducting work within the boundary of a PRS must be made aware, by the LANL Project Manager, of the potential contaminants present in soils and other materials at the site and the potential hazards associated with those contaminants.
- C. Any soil or other material removed from a PRS boundary and not returned to the point of excavation must be managed, characterized, and disposed of by the Contractor in accordance with all applicable LANL waste management requirements including approved Waste Profile forms, waste accumulation areas, etc., or if the project causes additional runoff to cross the site, install appropriate sediment & erosion controls prior to construction activities. Best Management Practices (BMPs) for the Storm Water Pollution Prevention (SWPP) Plan and/or soil erosion control must be in place for all projects prior to the start of any soil disturbing activities within a PRS to prevent potential contaminant migration.

3.10 HAZARDOUS AND MIXED WASTE

- A. Store, treat, and/or dispose of hazardous or mixed wastes in accordance with applicable laws and regulations, and LANL requirements.
- B. Register satellite accumulation areas or less than 90 days storage areas with LANL ENV-SWRC Group prior to storing, handling, treating, or disposing of hazardous or mixed waste.
- C. Contact the ENV-SWRC Group (667-0666) for more information on the management of hazardous or mixed waste, New Mexico special waste (such as petroleum contaminated soil, spills, chemical products, asbestos waste, infectious waste, etc.), PCBs, construction and demolition debris, and other types of solid waste.

3.11 TRAFFIC CONTROL

Refer to the Civil Chapter, Section G2010 Roadways, for traffic consideration design requirements.

- A. A temporary traffic control plan shall be prepared by a registered Professional Engineer (PE) who is certified as a Professional Traffic Operations Engineer (PTOE). The detail shall be appropriate to the complexity of the work project and submit to the LANL Traffic Control Engineer for review and approval. The LANL Traffic Control Engineer shall approve any proposed changes in the temporary traffic control plan.
- B. The temporary traffic control plan shall start in the planning phase and continue through the design, construction, and restoration phases. The temporary traffic control plans and devices shall follow the principles set forth in the MUTCD, latest addition. Temporary traffic control plans may deviate from the typical applications described in the MUTCD based upon engineering judgment, to allow for conditions and requirements of a particular site.

- C. Consider and address the safety of pedestrians in the Traffic Control Plan, and if altering pedestrian traffic, provide an alternate pedestrian route.
- D. Traffic control devices shall be properly maintained during the project.

3.12 WATER DISCHARGE

- A. Follow Section 01325, Water Discharge Requirements.

3.13 GRADING, EXCAVATING, AND TRENCHING

- A. Follow Section 02310, for soil disturbance requirements.

END OF SECTION

Do not delete the following reference information:

FOR LANL USE ONLY

This project specification is based on LANL Master Construction Specification, Rev. 2, dated November 18, 2004.