SECTION 01 5705

TEMPORARY CONTROLS AND COMPLIANCE REQUIREMENTS

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LANL MASTER SPECIFICATION SECTION

Word file at <https://engstandards.lanl.gov>

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| Rev. 6 Summary of Changes: Updates throughout |

This template must be edited for each project. In doing so, specifier must add job-specific requirements. Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer. Once the choice is made or text supplied, remove the brackets. This Section must also be edited to delete specification requirements for processes, items, or designs that are not included in the project -- and specifier’s notes such as these. To seek a variance from requirements in the specifications that are applicable, contact the Engineering Standards Manual (ESM) Civil [POC](http://engstandards.lanl.gov/POCs.shtml#civil). Please contact the POC with suggestions for improvement as well.

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

Specification developed for Management Level (ML)-4 projects. For ML-1, 2, and 3 applications, additional requirements and independent reviews should be added if increased confidence in procurement or execution is desired; see ESM Chapter 1, Section Z10 Specifications and Quality sections.

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1. GENERAL
   1. SECTION INCLUDES
      1. Erosion and Sediment Control
      2. Storm Water Management
      3. Site Stabilization
      4. Spill Control and Response
      5. Debris Control
      6. Air Quality
      7. Dust Suppression
      8. Rodent Control
      9. Environmental Restoration Sites
      10. Hazardous Waste
      11. Traffic Control
      12. Water Discharge
      13. Grading, Excavating and Trenching
      14. Washout, Potholing, Directional Drilling
   2. ACTION SUBMITTALS
      1. Submit the following in accordance with project submittal procedures.
         1. For projects operating under a National Pollutant Discharge Elimination System (NPDES) Construction General Permit:
            1. 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. The completed SWPPP Plan shall be certified by both LANL and a responsible corporate officer of the Subcontractor prior to the Notice of Intent (NOI) submittal.
            2. Submit the NOI to the United States Environmental Protection Agency (EPA) at least 14 days prior to start of any construction activities. Provide documentation of same to LANL Environmental Protection Compliance – Compliance Programs (EPC-CP).

* NOTE: Any earth-disturbing or pollutant generating activities shall not begin until at least 14 days after the EPA has acknowledged receipt of the complete NOI and has identified the permit status as “Active”. (Ref: <https://www.epa.gov/npdes/submitting-notice-intent-noi-notice-termination-not-or-low-erosivity-waiver-lew-under>)
* Submit such additional information to and otherwise cooperate and work with LANL to maintain/modify the SWPP Plan throughout the duration of this contract.
  + - * 1. Following a review and approval by LANL, submit a Notice of Termination (NOT) to the EPA within 30 calendar days after any one of the conditions in Part 8.2 of the NPDES CGP occurs. Transfer of the site before final stabilization may be negotiated through LANL prior to termination of the Subcontract.
      1. New Mexico Environment Department Notice of Intent (NMED NOI)
         1. For projects not subject to the LANL NPDES CGP, the LANL Subcontract Technical Representative (STR) will contact LANL EPC-CP at [lanlstormwater@lanl.gov](mailto:lanlstormwater@lanl.gov) prior to the Subcontractor using fertilizer, hydraulically applied mulches, dust suppression additives, soil stabilizers, washouts, potholing fluids, directional drilling fluids, and other substances that are applied to the ground. EPC-CP will determine whether the substances will require a NOI to Discharge be submitted to the NMED.   
            Action submittal: Provide information as necessary to obtain the NMED NOI.
      2. Traffic Control Plan
         1. Submit a temporary traffic control plan and subsequent proposed changes to the plan to the LANL STR who will coordinate with the LANL Traffic Engineer for review and approval.

1. PRODUCTS

Not Used

1. EXECUTION
   1. Erosion and Sediment Control
      1. Properly install best management practices (BMPs) as shown on the drawings, identified in the SWPP Plan or per the LANL EXID requirements, prior to any earth disturbing activity. (Refer to [P351, *Integrated Review Tool [IRT]*](https://int.lanl.gov/policy/management-systems.shtml).)
      2. Install perimeter sediment controls around disturbed areas and all soil stockpiles and implement controls as necessary to minimize sediment track-out onto streets, sidewalks, and other paved areas.
      3. Maintain BMPs in accordance with SWPP Plan, manufacturer’s recommendations, and the LANL Storm Water Best Management Practices Manual.
      4. When practical, implement permanent BMPs during the construction phase to meet the objectives of temporary sediment and erosion controls.
      5. Disturb only the minimum amount of soil necessary and preserve native topsoil on site unless infeasible. Give special attention to protecting established vegetation.
   2. Storm Water Management

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Refer to the ESM [Civil](https://engstandards.lanl.gov/ESM_Chapters.shtml#esm3) Chapter 3, G10 Site Preparation and G20 Site Improvements (VAR-10468 Revised Stormwater Material), for Storm Water Management design requirements.

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* + 1. 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.
    2. In accordance with EISA 438 requirements, all development or redevelopment projects with a footprint that exceeds 5,000 square feet must maintain or restore, to the maximum extent technically feasible, the predevelopment hydrology of the property regarding the temperature, rate, volume, and duration of flow.
    3. 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.
    4. 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.
  1. site stabilization
     1. Stabilize all disturbed areas with permanent stabilization measures. Do not leave any disturbed areas as barren soil. Final stabilization shall be approved by LANL EPC-CP. The LANL STR will contact LANL EPC-CP at [lanlstormwater@lanl.gov](mailto:lanlstormwater@lanl.gov) to schedule the final walkdown and acceptance.
     2. 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 32 9219, *Seeding*. Begin stabilizing disturbed areas immediately after construction activities have temporarily or finally ended in the area.
     3. If permanent stabilization is impracticable due to seasonal conditions, use temporary stabilization measures.
     4. Do not apply fertilizer, hydraulically applied mulches, or soil stabilizers in watercourses.
  2. Spill control and response
     1. In the event of a spill, immediately notify the LANL STR who will contact LANL Emergency Operations Support Center (EOSC) at 667-2400. The Subcontractor is responsible for remediation of any spill.
     2. Store all fuels, lubricants, chemicals, material stockpiles, construction materials, waste material, and other potential pollutants in a designated area on site. Provide controls including secondary containment, covering, or leak-proof containers to prevent discharges of pollutant and to minimize contact with storm water. When aboveground petroleum storage capacity is greater than 1,320 gallons (including all equipment and containers 55 gallons or larger), notify the LANL STR who will contact LANL EPC-CP at 667-0666 to initiate the development of a Spill Prevention Control and Countermeasure (SPCC) Plan.
     3. 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 tank registration, and State notification. The AST system must be registered with NMED – Petroleum Storage Tank Bureau (PTSB) prior to being placed in service. Personnel who install AST systems must be certified by the NMED-PTSB.
     4. The LANL STR will contact EPC-CP (667-0666) at least 60 days prior to performing repairs or modifications to existing AST systems. If the repair or modification is an emergency repair, notify EPC-CP as soon as possible following the repair. Personnel who modify or repair AST systems must be certified by the NMED-PTSB.
     5. Installation of underground petroleum storage tanks at LANL is not permitted.
  3. Debris Control & Soils management
     1. Use good housekeeping practices to keep sites free of construction debris and trash. Provide containers for deposit of debris and trash.
     2. Cover all roll-off bins to prevent storm water contact with its contents and to prevent accumulation of storm water in the bin. If storm water accumulates in a roll-off bin, notify STR for guidance on discharge requirements.
     3. Metal shavings, cuttings, grinding residue, or other small metal particles shall be placed in leak-proof containers to prevent storm water contact with its contents.
     4. 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).
     5. 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.
     6. Do not bury construction waste, sanitary waste, or trash on site.
     7. 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 contaminates before movement; all transferred soil must be characterized.
     8. Segregate all materials prior to sending material to the LANL Material Recycle Facility (MRF). The LANL STR will contact EPC-CP to obtain instruction on required sampling and documentation procedures. Material shall be clean of all contaminates.
  4. Air quality
     1. The LANL STR will contact the LANL EPC-CP Air Quality Compliance Team prior to the Subcontractor operating portable and stationary fuel burning equipment (e.g., generators, rock crushers, asphalt plants). Drivable equipment does not require notification of EPC-CP.
     2. The LANL STR will contact EPC-CP Air Quality Compliance Team if the Subcontractor stores over 500 pounds of chemicals at the site.
     3. The LANL STR will contact EPC-CP Air Quality Compliance Team prior to the Subcontractor bringing any new refrigerant-containing equipment on-site; or working on, maintaining, or removing any existing refrigerant-containing equipment.
     4. The LANL STR will contact EPC-CP Air Quality Compliance Team regarding the need for asbestos notifications for all demolition projects, roofing projects, and renovation projects where asbestos containing material may be disturbed.
  5. Dust suppression
     1. When applying potable water for dust control, ensure compliance with Section 01 3545, *Water Discharge Requirements*.
     2. Do not add additives to potable water for dust control until receiving approval. Notify the LANL STR who will contact EPC-CP. Comply with all conditions specified by EPC-CP and the applicable federal and state agencies. Apply all liquids in a manner that does not result in runoff.
     3. Do not apply dust suppression additives or other substances in watercourses.
  6. PEST Control
     1. Contact LOG-HERG pest-control services (667-6112) to recommend practices to minimize attraction and harboring of rodents and other pests and to perform extermination and control procedures at regular intervals so the project will be free of pests and their residues at Substantial Completion. Pest control actions must be performed exclusively by LOG-HERG personnel.
     2. Do not use any pesticide (rodenticide) or herbicides without the written approval of LANL.
  7. environmental restoration site

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Refer to the Civil Chapter, Section [G10](https://engstandards.lanl.gov/ESM_Chapters.shtml#esm3) Site Preparation, for environmental restoration design requirements.

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* + 1. Storm water runoff shall not be allowed across solid waste management units (SWMUs) or areas of concern (AOCs) that are identified in the contract documents.
    2. Existing BMPs, including vegetative cover, located at an SWMU or AOC shall not be disturbed without coordination with a LANL EPC subject matter expert (SME).
    3. SWMUs or AOCs cannot be disturbed without LANL EPC approval and oversight. The LANL STR will contact EPC – Waste Management Program (WMP). Any worker conducting work within the boundary of an SWMU or AOC must be made aware, by the LANL STR, of the potential contaminants present in soils and other materials at the site and the potential hazards associated with those contaminants.
    4. Any soil or other material removed from an SWMU or AOC boundary and not returned to the point of excavation must be managed, characterized, and disposed of by the Subcontractor in accordance with all applicable LANL waste management requirements including approved Waste Profile forms, waste accumulation areas, etc. If the project causes additional runoff to cross the site, install appropriate sediment & erosion controls prior to construction activities. Best Management Practices must be in place for all projects prior to the start of any soil-disturbing activities to prevent potential contaminant migration.
  1. Hazardous Waste
     1. Store, treat, and/or dispose of hazardous (or mixed) wastes in accordance with applicable laws and regulations, and LANL requirements.
     2. Register satellite accumulation areas or central accumulation areas with LANL EPC–WMP prior to storing, handling, treating, or disposing of hazardous or mixed waste.
     3. Contact EPC-WMP for more information on the management of hazardous waste, New Mexico special waste (e.g., petroleum contaminated soil, spills, chemical products, asbestos waste, infectious waste), PCBs, construction and demolition debris, and other types of solid waste.
  2. Traffic control

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Refer to the LANL ESM Civil Chapter 3, Section G2010 Roadways, for traffic consideration design requirements.

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* + 1. A Temporary Traffic Control Plan (TTCP) shall be prepared by a registered professional engineer during design phase and submitted to the LANL Traffic Engineer for review and approval. The LANL Traffic Engineer shall provide approval of initial plans, exceptions, and any proposed changes of the TTCP, through all stages of the project.
    2. The TTCP shall address the safety of pedestrians and bicycles by providing an alternate, safe route per the Manual on Uniform Traffic Control Devices (MUTCD), current edition.
    3. The TTCP shall follow NMDOT Standard Specification for Highway and Bridge design Section 618.1 through 618.4: Traffic Control Management, with the following exceptions:
       1. “The Department” refers to LANL Transportation Engineer.
       2. “District Traffic Engineer” refers to LANL Transportation Engineer.
       3. “Project Manager” refers to LANL Project Manager.

The LANL Transportation Engineer will determine the need and guidelines for a Traffic Control Diary depending on project size and need.

* + 1. The TTCP shall address and be used in construction phase (and, as required, restoration phase).
  1. Water discharge
     1. Follow Section 01 3545, *Water Discharge Requirements.*
  2. Grading, excavating, and trenching
     1. Follow Section 31 2000, *Earth Moving* for earth moving requirements.
  3. Washout, Potholing, Directional Drilling
     1. Do not discharge substances to the ground until an NOI has been obtained (see Section 01 3545, *Water Discharge Requirements*) or approval from EPC-CP has been received. Follow all conditions of the NOI, if required, and guidance from EPC-CP. Discharges must be documented to the LANL EPC-CP Water Quality Group.
     2. Washout shall pertain to any generation of wastewater from the washout and/or cleanout of project materials including concrete, stucco, paint, form release oil, curing compounds, or other related construction materials. Washout must be performed within a leak-proof container or leak-proof pit designed so that no overflows can occur due to inadequate sizing or precipitation. Properly dispose of all hardened excess materials (ensuring hazardous/mixed waste requirements, Section 3.10 are followed). Washout areas cannot be placed in or on an SWMU or AOC, watercourses, treatment storage disposal facilities (TSDFs), or storm water drainages.
     3. Potholing materials generated from within an SWMU or AOC cannot be discharged to the environment. Potholing material not generated from within a SWMU or AOC and managed on site, must be placed within a defined area within the project site limits (not within an SWMU or AOC) surrounded by a Triangular Silt Dike™, compacted earth berm, or other appropriate control, until the liquids evaporate. Remaining solids must be appropriately managed, and the disturbed area must be stabilized. Do not discharge polypropylene glycol, propylene glycol, ethylene glycol, or any other anti-freeze substance.
     4. Horizontal Directional Drilling at LANL is covered under an approved NOI from NMED. Contact EPC-CP to ensure all applicable requirements are met. Directional-drilling mud must be placed within a lined retention pond until the liquids evaporate or are properly disposed of. Land application of drill cuttings must follow the NMED-approved Decision Tree.

END OF SECTION

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Do not delete the following reference information.

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THE FOLLOWING STATEMENT IS FOR LANL USE ONLY

This project specification section is based on LANL Master Specification Section 01 5705, Rev. 6, dated June 15, 2022.