

6. EROSION CONTROL

6-A GENERAL

6-A-1 DESCRIPTION

- A. This section includes temporary measures to control water pollution, soil erosion, and siltration as shown in Clackamas County's current Technical Handbook on Erosion and Sedimentation Control or as ordered by the Engineer until final completion of the work. Erosion control devices or methods include the use of berms, dikes, dams, sediment basins, fiber mats, gravel, mulches, grasses, slope drains, and other techniques.
- B. Temporary erosion control is considered incidental to the work.

6-A-2 RELATED WORK SPECIFIED ELSEWHERE

Item Excavation and Embankment

Item Seeding

6-A-3 PERMITS

- (a) Clackamas County is the administrator of the NPDES General Permit 1200-CA for the Discharge of Construction Site Runoff to Public Waters on projects performed by or for Clackamas County. Permit regulations are on file at Water Environment Services, a Department of Clackamas County. Clackamas County is mandated by law to comply with these regulations. The Contractor shall obey applicable requirements of that permit. These specifications are intended to serve as a supplement to the general permit language.

6-A-4 SUBMITTALS FOR PRECONSTRUCTION MEETING

- (a) At the preconstruction meeting, the erosion control plans will be reviewed. No work shall begin until this plan has been reviewed and approved.
- (b) Submit as part of the erosion control plan a construction schedule with the following information:
 - 1. Construction start and completion dates.
 - 2. Dates when erosion control structures will be in place.
 - 3. Timing of site clearing and grading, fill, placement, and excavations.
 - 4. Projected date of removal of erosion control structures (after soil is stabilized by vegetation or pavement).

6-B-EXECUTION

6-B-1 GENERAL

- (a) Do not allow soil disturbance until the erosion control plan is reviewed and erosion control measures are available if weather requires implementation.
- (b) The Contractor shall be responsible for implementing temporary erosion control measures during construction to correct unforeseen conditions. The Contractor shall be responsible for additional erosion control due to the Contractor's negligence, carelessness, or failure to install planned controls as a part of the work.
- (c) Schedule and perform clearing and grubbing operations so as to minimize the impact to the overall project.

6-B-2 CONSTRUCTION DETAILS

- (a) Gravel construction entrance and exit drives and parking areas to reduce the tracking of sediment onto public or private roads. Maintain for the duration of the project.
- (b) Unpaved roads on the site carrying more than 25 vehicle trips per day shall be graveled when prevailing conditions cause soil to adhere to tires or undercarriages of vehicles leaving the site. This requirement does not apply to roads used by equipment or trucks moving soil from one part of the site to another.
- (c) Preserve existing vegetation where practicable and revegetate open areas after grading or construction.
- (d) Stockpile topsoil and respread over exposed subsoils for quick revegetation. Protect stockpiled materials from erosion by seeding or covering.
- (e) Do not allow sediment to drain off the project site.
- (f) Provide ongoing maintenance, repair, and restoration of erosion control facilities to keep them continually functional.
- (g) Do not allow trucks dripping more than one gallon per hour to leave site.
- (h) Visible or measurable erosion material which leaves the construction site is prohibited. Visible or measurable erosion material is defined as:
 - 1. Deposits of mud, sediment or similar material exceeding 1/2 cubic foot in volume in any area of 100 square feet or less on public or private street, adjacent property, or into the storm and surface water system, either by direct

deposit, dripping, discharge, or as a result of the action or erosion.

2. Evidence of concentrated flows of water over bare soils; turbid or sediment laden flows; or evidence of on-site erosion such as rivulets on bare soil slopes, where the flow of water is not filtered or captured on the site.
 3. Earth slides, mud flows, earth sloughing, or other earth movement which leaves the property.
- (i) Sediment in excess of 1/2 cubic foot in volume in any area of 100 square feet or less which leaves the site shall be cleaned up within 24 hours and placed back on the site or be properly disposed. Under no conditions shall the sediment be washed into storm sewers or surface waters.

6-B-3 MONITORING AND REPORTING REQUIREMENTS

- (a) Inspect erosion control facilities at least once every 7 days and within 24 hours after any storm with precipitation greater than 0.5 inches per 24 hour period.
- (b) Inspect erosion control facilities daily during stormy periods or during periods of snow melt.
- (c) Visibly monitor storm water runoff to evaluate the effectiveness of the erosion control facilities or practices. If visible quantities of sediment are leaving the property, take corrective action immediately.
- (d) The Contractor shall keep a record of inspections. Uncontrolled releases of mud or muddy water, or measurable quantities of sediment found off the site, shall be recorded with a brief explanation as to the measures taken to prevent future releases as well as any measures taken to clean up the sediment that has left the site. This record shall be made available to Clackamas County and/or the DEQ upon request. Submit to Clackamas County upon final completion of the work.