

4-50.60 Erosion & Sediment Control Plan

TEA 21 reauthorizes ISTEA. Section 1057 of ISTEA requires the United States Secretary of Transportation to develop erosion control guidelines for the states to follow when designing and constructing Federal-aid funded highway projects.

On July 26, 1994, in **Federal Register** Volume 59, No. 142, 37935-37939, the FHWA published a final rule revising 23 CFR 650, Subpart B, Erosion and Sediment Control on Highway Construction Projects.

The revision formally adopts Volume III of the AASHTO Highway Drainage Guidelines 1992, as guidelines to be followed on all projects funded under Title 23, United States Code. The adoption of the AASHTO Highway Drainage Guidelines fulfills the requirement of Section 1057 of ISTEA.

The U.S. Environmental Protection Agency (EPA) National Pollution Discharge Elimination System (NPDES) permit currently addresses projects of more than 2 ha. Alaska Administrative Code 18 (18 AAC) requires monitoring of water quality for all projects with disturbed ground regardless of size.

18 AAC 72.600 requires written Alaska Department of Environmental Conservation (DEC) approval of all plans which construct, alter, install, modify or operate any part of a nondomestic wastewater treatment works or disposal system. The project Erosion and Sediment Control Plan (ESCP) requires DEC approval prior to advertising.

Wetland use as a vegetative buffer strip requires approval from the Corps of Engineers. Include the use of wetlands as a buffer strip in the narrative of the project COE 404 permit.

To comply with FHWA direction and AAC 18, ADOT&PF adopts the AASHTO Highway Drainage Guidelines, Volume III, as modified by section 1120-04 of this manual and chapter 16 of the Alaska Highway Drainage Manual.

1120.04 EROSION & SEDIMENT CONTROL PLAN (ESCP)

Develop an ESCP for all projects with disturbed ground that meet either of the following conditions:

- owned by the Department
- designed (or design administered by) and constructed (or construction administered) by the Department,

Projects not owned by the Department (such as utilities projects constructed separately from, but in consort with, a Department project) do not require Department involvement in development of an ESCP.

The ESCP for simple projects (such as signal projects or overlays) may be shown directly on the plan and profile sheets. Develop more complex ESCP's on separate "site map" plan sheets.

Use Chapter 16 of the Alaska Highway Drainage as a reference for design of erosion and sediment control structures. Additional guidance is available from the AASHTO Highway Drainage Guidelines.

Provide written descriptions or narratives whenever needed to clarify the ESCP.

Include the following items in the ESCP for projects with disturbed ground of more than 2.0 hectare:

- The total area of the project in hectares. (Include the area within the right-of-way and any known off site disturbed areas supplied as materials sources, stockpile sites, etc. The on site and off site areas of the project should be listed separately.)
- Location of disturbed areas. Include areas of excavation, grubbing, embankment, waste, borrow/quarry sites (when known), stockpile sites (when known), etc.
- The area of disturbed ground in hectares. Include excavated areas, embankments, etc. Do not include the area of pavement removal or overlay if the work does not remove the aggregate underlying the pavement. List on site and off site disturbed areas separately.
- Drainage patterns.
- Slopes (both naturally occurring and constructed) anticipated after completion of grading activities. Slopes may be shown by contours, typical sections or notation on the site map.

- The design rainfall and runoff coefficients during construction and following completion of construction.
- The location of all known temporary and permanent erosion and sediment control measures to be included in the project. Include existing vegetation to be used in control of erosion and sediment. Provide an indication of temporary erosion and sediment control measures that may require installation, relocation and/or removal during construction. Use symbols presented in Chapter 16 of the Alaska Highway Drainage Manual to identify erosion and sediment control measures on the ESCP.
- The location and known names of surface waters.
- The location and known names of any sensitive wetlands or wetlands which may be utilized for the purpose of controlling erosion and sedimentation. (Provided by the Regional Environmental Coordinator.)
- The location of any impaired waters. (Provided by the Regional Environmental Coordinator.)
- Locations where storm water is discharged to a surface water.
- Listed threatened or endangered species, or their critical habitat, found in proximity to the project. (Provided by the Regional Environmental Coordinator.)

Include the following items in the ESCP for projects with disturbed ground of 2.0 hectare or less:

- The area of disturbed ground in hectares. Include excavated areas, embankments, etc. Do not include the area of pavement removal or overlay if the work does not remove the aggregate underlying the pavement. List on site and off site disturbed areas separately.
- The location of all temporary and permanent erosion and sediment control measures to be included in the project. Include existing vegetation to be used in control of erosion and sediment. Provide an indication of temporary erosion and sediment control measures that may require installation, relocation and/or removal during construction. Symbols presented in Chapter 16 of the Alaska Highway Drainage Manual shall be used to identify erosion and sediment control measures on the ESCP.
- The location and known names of surface waters.
- The location and names (if known) of any sensitive wetlands or wetlands which may be

