

2520. Drainage Design

2520.1. Erosion & Sediment Control Plans (ESCP)

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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 lighting projects or overlays, may be shown directly on the plan and profile sheets. Develop more complex ESCPs on separate "site map" plan sheets.

Use Chapter 16 of the *Alaska Highway Drainage Manual* as a reference for design of erosion and sediment control structures. The *AASHTO Highway Drainage Guidelines* provide additional guidance.

Include the following items in the ESCP for projects with disturbed ground of 1 acre or more:

- A description of the nature and extent of the construction activity
- A general area location map and a site map
- The total area of the project in acres (to the nearest quarter acre). Include the area within the right-of-way and any known off-site disturbed areas supplied as materials sources, stockpile sites, etc. List the on-site and off-site areas of the project 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 acres (to the nearest quarter acre). 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. You may show slopes by contours, typical sections, or notation on the site map.
- 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 of any wetlands or wetlands that may be used for controlling erosion and sedimentation (provided by the regional environmental coordinator)
- The location of any impaired waters (provided by the regional environmental coordinator)
- The location of any waters with approved and final Total Maximum Daily Loads (TMDLs) for Alaska (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)

- Information on historic or archaeological sites, including (1) whether any sites listed on the National Register of Historic Places may be affected by storm water discharges, and (2) whether any written agreement is in place with the state historic preservation officer (provided by the regional environmental coordinator)