

Erosion Control Plan Checklist

I. CONTRACT PROPOSAL

- _____ A. Provide a description of the project.
(Contract Proposal cover sheet and General special provision)
- _____ B. Explain the nature of the construction activity.
(Contract Proposal cover sheet and Scope of Work special provision)
- _____ C. Include any special erosion control requirements, such as scheduling or staging of construction, that must be relayed to the contractor. See the Environmental Protection and/or Erosion Control special provisions in [FDM 19-15-55](#) and [FDM 19-15-60](#) respectively.
- _____ D. Describe the sensitive areas on or near the project and any special considerations for those areas.
(Environmental Protection special provision)
- _____ E. Include any limitations to the amount of erodible surface area which may be exposed at any one time.
(Erosion Control special provision)
- _____ F. Describe the interim and permanent stabilization practices to be used on the site. Include over-winter and maintenance measures.
(Erosion Control special provision)
- _____ G. Describe the structural practices to be used on the site such as those used to divert flow away from exposed soils, store flows, or limit runoff and the discharge of pollutants. Unless otherwise specifically approved in writing by the DNR, structural measures are to be installed on upland sites.
(Erosion Control special provision)

II. STANDARD BID ITEMS

- _____ A. The following standard bid items should be included, as a minimum, on all grading projects, unless otherwise justified:

- Item #62702 - Mulching
- Item #62811 - Erosion Bales, Delivered
- Item #62812 - Erosion Bales, Installed
- Item #62815 - Silt Fence, Delivered
- Item #62816 - Silt Fence, Installed
- Item #62817 - Silt Fence, Maintenance
- Item #62819 - Mobilizations, Erosion Control
- Item #62821 - Mobilizations, Emergency Erosion Control
- Item #62824 - Erosion Mat, Delivered, Class I, Type B *
- Item #62825 - Erosion Mat, Installed, Class I, Type B *
- Item #62902 or #62905 - Fertilizer, Type A or B, respectively (depends on the project)

Item #63002 - Seeding

- Item #63003 - Seeding, Temporary **

* Other types of erosion mat may be substituted when appropriate.

** When used in conjunction with Item #63002, Seeding, apply at ½ to 1/3 the normal rate.

III. TITLE SHEET

_____ A. Indicate the quarter, quarter-quarter, section, township, range and the county in which the project is located, unless otherwise shown on the right-of-way plat or erosion control plan sheet(s).

_____ B. List the location of the erosion control plan sheets on the "Order of Sheets".

Example 1: When erosion control plans are on a separate plan sheet:

ORDER OF SHEETS

Section No. 2 Typical Sections and Details
(includes erosion control plans)

Example 2: When erosion control plans are included in the Plan and Profile Sheets:

ORDER OF SHEETS

Section No. 5 *Plan and Profile*

(includes erosion control plans)

IV. GENERAL NOTE SHEET

_____ A. Include in the Standard Detail List all pertinent erosion control standard detail drawings.

_____ B. List the name, address and phone number of the district DNR area liaison. DNR liaison staff:
<http://dnr.wi.gov/topic/sectors/transportation.html>.

V. CONSTRUCTION DETAIL SHEETS

_____ A. Include all non-standard erosion control construction detail drawings.

VI. EROSION CONTROL PLAN SHEETS

_____ A. Illustrate the location of all erosion and sediment control devices. Separate plan sheets are recommended in order to:

1. Avoid cluttering the plan and profile sheets.

2. Make it easier for the contractor or subcontractor to understand and implement the plan. The use of separate plan sheets is especially important for complex projects or when grading is to be done near sensitive areas. For less complex projects, it may be appropriate to illustrate the location of the devices on the plan and profile sheets.

In some cases (such as for very small, less complex projects) it may be appropriate to show only those less pertinent devices by station and location on the miscellaneous quantity sheets. Again, the object being to not clutter the plan. When this alternative is chosen, a general note indicating which erosion control devices are located on the miscellaneous quantity sheets should be noted on the plan.

_____ B. Include a north arrow on all plan drawings.

_____ C. Indicate right-of-way, easements, slope intercepts and construction limits.

- _____ D. Include velocity dissipation devices at discharge locations and along the length of any outfall channel, as necessary, to provide a non-erosive flow from the structure to a water course.
- _____ E. Include a legend on each erosion control plan sheet identifying the erosion control symbols or other symbols used. However, when the erosion control measures are shown on the plan and profile sheets, then the erosion control symbols should be included with the legend on the Title Sheet.
- _____ F. Show topographic features such as buildings, roads, tree lines and driveways.
- _____ G. Show the abutting boundaries of and label all environmentally sensitive areas such as lakes, streams and wetlands.
- _____ H. Include the name of the immediate receiving water from the United States geological service 7.5 minute series, topographic maps or other appropriate source. If desired, this information can be placed on the Project Overview Sheet instead.
- _____ I. Show existing and proposed drainage patterns. This may be indicated by the use of drainage arrows, contour mapping or spot elevations on topographic mapping. It is particularly important that existing drainage be indicated where overland flows enter or leave the highway right-of-way.
- _____ J. Show drainage devices such as storm sewer inlets, culverts, bridges and detention ponds.
- _____ K. Identify the locations where storm water is discharged to a surface water or wetland.
- _____ L. Include the runoff coefficient of the site before and after construction. To satisfy this requirement, [FDM 10-5 Attachment 60.2](#) of this procedure should be included as a detail on the erosion control plan sheet. This figure can be accessed via CADDs for plan preparation purposes. See [FDM 10-15 Attachment 5.1](#).
- _____ M. Estimate the total area of the project and the total area expected to be disturbed by construction activities. The total area of the project is typically the area bounded by the project and right-of-way limits. The total area expected to be disturbed is typically the area where bare soil is exposed. On the bottom of the CADDs detail, discussed in Item VI (L) above, space has been allocated for listing the total area and total disturbed area of the project. As an alternative, however, designers could include this information as a general note on the erosion control plan sheet.

VII. MISCELLANEOUS QUANTITY SHEETS

- _____ A. List the location and estimate the quantities needed for the erosion control measures identified in the plan. See Section II for items that should be specified on all grading projects. When using these items, up to an additional 25% of the total estimated quantity should be included as "Undistributed" (does not apply to mobilization items).

VIII. CROSS SECTION SHEETS

- _____ A. Show all existing and proposed drainage features such as channel and slope sections, intercepting embankments, culvert pipes and other drainage structures, as well as, slope intercepts, right-of-way and easement lines.

IX. SOILS REPORT

- _____ A. Include existing data describing the surface soil as well as the subsoils.
- _____ B. Include depth to groundwater, as indicated by soil conservation service soil information, where available. When permanent infiltration systems are used the depth to groundwater shall be identified as outlined in items C and/or D below. Contact the DNR liaison to help determine locations where this information is needed. *
- _____ C. When permanent infiltration systems are used, appropriate on-site testing shall be conducted to determine if seasonal high water (groundwater) is within 5 feet (1.5 m) of the bottom of the proposed infiltration system. *

* Items IX B, C and D can be supplied as a separate document.

- _____ D. If permanent infiltration structures are to be used and there is a municipal well within 400 feet (**120 m**) or a non-public well within 100 feet (**30 m**), the groundwater flow must be identified in accordance with the provisions specified in either ch. NR 110 or 214 (DNR Administrative Code). *

* Items IX B, C and D can be supplied as a separate document.

RUNOFF COEFFICIENT TABLE

	Hydrologic Soil Group											
	A			B			C			D		
	Slope Range (Percent)			Slope Range (Percent)			Slope Range (Percent)			Slope Range (Percent)		
Land Use:	0 - 2	2 - 6	6 & Over	0 - 2	2 - 6	6 & Over	0 - 2	2 - 6	6 & Over	0 - 2	2 - 6	6 & Over
Row Crops	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
Median Strip Turf	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
Side Slope Turf			.25			.27			.28			.30
			.32			.34			.36			.38
Pavement												
Asphalt	.70 - .95											
Concrete	.80 - .95											
Brick	.70 - .80											
Drives, Walks	.75 - .85											
Roofs	.75 - .95											
Gravel Roads, Shoulders	.40 - .60											

Total Project Area = _____ Acres

Total Area Expected To Be Disturbed By Construction Activities = _____ Acres

File Name: de_hwys_std:erosionc.cel
Cell Name: RCCHRT