VTSID-02: ESC Plan Preparer/Reviewer Checklist

V9-17



ESC PLAN PREPARER/REVIEWER CHECKLIST

Instruction: The checklist shall be completed if an ESC Plan and Narrative is required per the VT Annual Standards and Specifications for ESC and SWM. The completed checklist shall be provided with the ESC Plan submittal. The Plan and Narrative submitted for review shall be signed and sealed by a licensed professional. This checklist is not inclusive. The licensed professional is responsible for ensuring plans address all applicable ESC laws and regulations.

Project Name:			Project Location:	
Submi	ittal Da	ate:	Date on Plans:	
Design	n Engin	neer (Printed):	Email:	
Yes	N/A	General		
		CHECKLIST – Completed ESC checklist provided in the ES	C Narrative.	
		VTAS&S – Note the applicable Virginia Tech Annual Stan	dards and Specifications version on both covers.	
		PROFESSIONAL SEAL – The designer's original seal, signa	ature, and date are required on the cover sheet of	
		each Narrative and each sheet in a set of Plan sheets for	approval.	
		NUMBER OF PLAN SETS – One (1) complete full size set of	of plans must be submitted for review. One (1)	
		11x17 size set of plans must be submitted with the final	submittal for approval, digital signatures on seals	
		are acceptable for the 11x17 size plan set.		
		ELECTRONIC PLAN SUBMITTAL – PDF versions of all subm	mitted documentation shall be submitted for review.	
		Electronic versions can have digital signatures on seals.		
		REVIEW COMMENT RESPONSE LETTER – Submit a review	·	
		plan submittal that addresses all comments in the previous		
		VARIANCE – All required documentation submitted for S	SID review and submittal to DEQ for approval.	
		ADDITIONAL PERMITS - If the project impacts any wetland	nds or surface waters, are all correspondence and	
		permits concerning any proposed impacts to jurisdiction	al wetlands, stream and channels included?	
Yes N/A		ESC Narrative Requirements		
		PAGE NUMBERS/TABLE OF CONTENTS – Provide a clear	ly organized narrative with pages numbers.	
		PROJECT DESCRIPTION – Description of the purpose and	I nature of land disturbing activity and the area to be	
		disturbed. Include the pre- and post- development impe	rvious areas.	
		EXISTING SITE CONDITION – Description of existing topo	ography, ground cover, and drainage.	
		ADJACENT AREAS - Description of neighboring areas	such as agricultural areas, streams, lakes, roads,	
		floodplains, etc., that might be impacted by the land dist	turbance.	
		OFF-SITE AREAS - Description of any off-site land disturb	oing activities that may occur (disposal areas, etc.)	
		SOILS - Description of conditions, including hydrologic	soil groups, mapping unit, erodibility, permeability,	
		surface runoff, and a brief description of depth, texture	and soil structure. Mapping of soil variations should	
		be provided in the narrative.		
		CRITICAL AREAS - Description of areas that have potenti	·	
		sediment impacts (e.g., steep slopes, channels, wetlands		
		EROSION AND SEDIMENT CONTROL MEASURES - Descrip		
		site and their installation, inspection, and maintenance s	•	
		PERMANENT STABILIZATION - Description, including sp	pecifications, of how the site will be stabilized after	
		construction is completed.		
		STORMWATER RUNOFF DESCRIPTION - Description of	,	
		downstream erosion and flooding. The description shall		
		well as tables for quick reference to pertinent information		
		SWM FACILITY MAINTENANCE – Provide a table w	· · · · · · · · · · · · · · · · · · ·	
		maintenance along with the responsible party's name ar		
		STREAM CHANNEL EROSION – Verify adherence to 9VAC	C25-870-66B.	

FLOODING – Verify adherence to 9VAC25-870-66C.



		CALCS FOR TEMP. ESC MEASURES – Provide the calculations required by the standards and specifications.		
		STORMWATER MANAGEMENT CALCULATIONS – Provide exhibits showing the drainage areas, direction of		
		flow, and acreage of each of the site drainage areas that discharge runoff off-site, for pre- and post-		
		development. Provide supporting calculations from the drainage areas and verify that MS-19 is satisfied.		
		SPECIFICATIONS – Include for all site work and stormwater management structures.		
Yes	N/A	ESC Plan Requirements		
		LOCATION AND VICINITY MAP - Locate the site in relation to the surrounding area. Include any landmarks		
		and road information that might assist in locating the site.		
		RESPONSIBLE LAND DISTURBER - Provide a location on the Plan cover sheet for identification of the RLD.		
		NORTH ARROW – The direction of north in relation to the site.		
		LEGEND - List all ESC measures used, the VESCH uniform code symbol, and the standard and spec number.		
		EROSION AND SEDIMENT CONTROL GENERAL NOTES - Include (ES-1 through ES-17) found in the Appendix of		
		the Virginia Tech Annual Standards and Specifications.		
		EXISTING/PROPOSED CONDTIONS - Including existing contours (2' interval min.), surface waters and other		
		surface features, existing tree lines, buildings, parking lots, access roads, utility construction and features.		
		Show all physical items that could affect or be affected by erosion, sediment, and drainage.		
	EXISTING CONDITIONS GRAYED OUT - All existing conditions are to be shown as grayed out on all propo			
		plan sheets (i.e. site plan, grading plan, etc.).		
		PROPERTY/EASEMENT LINES - For each adjacent, non-Virginia Tech property, list the deed book and p		
	number and the property owner's name and address.			
		DEMOLITION PLAN - Identify features to be demolished and ESC measures required for the demolition		
		LIMITS OF DISTURBANCE – Clear delineation of the limits of disturbance, with total disturbed area called our		
		·		
		including utilities, laydown areas, staging areas, unpaved access roads, etc. Area to be staked at 100' intervals		
	for permitted projects. PROTECTION AREAS - Show fencing or other measures to protect areas that are not to be disturbed. CRITICAL AREAS - Clearly identify critical areas and their appropriate protections.			
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		ESC PRACTICE LOCATIONS – Note each location used on the site with a unique identification number for multiple practices (i.e., SF1, SF2, etc.).		
		OFF-SITE AREAS – Documentation of land disturbing approvals and identification of any off-site land		
		disturbing activities and their appropriate ESC controls.		
		FINISHED FLOOR ELEVATION - All buildings and pads on site, including basements.		
		STORM DRAINS – Provide profiles of all proposed storm drains and the plan shall include the pipe size, pipe		
		material, and flow direction arrows for all proposed and existing storm drains, excluding roof drains.		
		DETAILS - Site-specific details for all ESC measures included within the project. Proprietary measures shall		
		include any information for construction, maintenance, and inspection per the manufacturer's specifications.		
Yes	N/A	Minimum Standard Requirement (9VAC25-840-40)		
		Permanent or temporary soil stabilization shown where required on plans using standard symbols and		
		abbreviations in Chapter 3 of the VESCH. (MS-1, MS-3, and MS-5)		
		Stabilization and/or protection measures for soil stockpiles and borrow areas. (MS-2)		
		Detailed sequence of construction shown on the plan ESC plan sheet that includes the phasing of installation		
		of ESC measures with sediment trapping measures as a first step prior to upslope land disturbance. (MS-4)		
	Drainage area maps for sediment traps and sediment basins included in the narrative. (MS-6) Stabilization measures provided for slopes steeper than 3:1. (MS-7) Measures to prevent concentrated flow from flowing down cut or fill slopes (e.g. slope drains). (MS-8)			
	Measures to address water seeping from a slope face. (MS-9)			
		Inlet protection provided for all operational storm drain and culvert inlets. (MS-10)		
		Outlet protection and/or channel linings provided for all stormwater conveyance channels and receiving		
channels prior to being made operational (see sequence of construction). (MS-11)		channels prior to being made operational (see sequence of construction). (MS-11)		

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Measures to minimize encroachment and sediment transport for work in a live watercourse (MS-12)		
Temporary stream crossings of non-erodible material where a live watercourse must be crossed by construction vehicles more than twice in any six-month period. (MS-13)		
Applicable federal, state and local regulations pertaining to working in or crossing live watercourses are addressed and summarized on the plan. (MS-14)		
Stabilization measures for bed and banks of live watercourse subject to disturbance. (MS-15)		
Unique requirements for underground utility line installations have been addressed. (MS-16)		
Measures are shown on plan to minimize sediment transport onto public and/or paved roads. (MS-17)		
Adequacy of each receiving channel and pipe verified with calculations. (MS-19)		