



Targeted Drainage Plan Submittal Checklist For Projects Vested Prior to September 30, 2010

Project Name: _____

Project File Number (PFN): _____

GENERAL SUBMITTAL REQUIREMENTS

- _____ 1. Drainage Plan Fees per SCC 30.86.510
- _____ 2. **10 sets** of plans (drawings) and **5 reports**
For single family residential (SFR) permit applications: **3 sets** of plans (drawings) and **3 reports**
- _____ 3. Plan sheet size of 24"x36" or 22"x34" per Engineering Design and Development Standards (EDDS) 10-02(A)(1). For SFR permit applications: may be a minimum of 8½x11 inches, if adequate details can be shown
- _____ 4. Plan copies shall comply with EDDS Chapter 10. EDDS deviations require EDDS Deviation Request form. Is a deviation request submitted? YES NO

Plan Copies Shall Meet the Following Specifications:

- _____ a. Plan View:
 - a. 1" = 50' for sites of 5 acres or less
 - b. 1" = 100' for sites of more than 5 acres but less than 20 acres
 - c. 1" = 200' for sites of more than 20 acresPlease indicate, on the overall plan view, an isolated enlargement of the site development area, to be shown at another location or on a separate sheet, at a minimum scale of 1" = 50'.
- _____ b. Details: 1" = 10' or 1" = 20'. Please choose the scale that will give the most information on the sheet selected. Individual details may require larger scales.
- _____ c. Profiles: Minimum 1" = 50' horizontal and 1" = 5' vertical
The ratio of the vertical to the horizontal scale shall be 1V:10H, except bridges plans which shall have horizontal and vertical scales of 1" = 20'
- _____ d. Cross sections: Minimum 1" = 50' horizontal and 1" = 5' vertical

Items Required on All Sheets

- _____ 5. Project file number. The project file number should be in bold larger type located at the lower right corner.

- _____ 6. Project title
- _____ 7. Sheet titles (Examples: "Site Plan," "Drainage Plan," "Erosion Control")
- _____ 8. Section, Township, and Range at the top of each sheet
- _____ 9. Graphic scale clearly indicated on plan view
- _____ 10. North arrow clearly indicated on plan view
- _____ 11. Current engineer's stamp, signature and date signed

Plan Information Required on the Cover Sheet or on Sheet One

When any of the above information is on other sheets of an application, it is not required to be duplicated on the targeted drainage plan for a complete application.

- _____ 12. Owner and Applicant's name, address, and phone and fax numbers and e-mail address
- _____ 13. Contact Person or Agent's name, address, phone and fax numbers and e-mail address (if applicable)
- _____ 14. Engineer's name, address, phone number and e-mail address
- _____ 15. Vicinity map with north arrow and scale
- _____ 16. Legal description of project site
- _____ 17. Site address, if applicable
- _____ 18. Property tax account number(s) of subject property and adjacent properties
- _____ 19. For large sites, show at least one sheet with full development
- _____ 20. Sheet index, if plan set contains more than 5 sheets

Maps, and Plans Required, Site and Topographic Information

- _____ 21. Existing contours (shown as dashed lines) USGS Quadrangle Contour Interval minimum for targeted plans, except targeted plans that are presented for public hearing, shall have a contour interval of either two (2) or five (5) feet depending on the steepness of the terrain
- _____ 22. Proposed contours (shown as solid lines) at the same interval as the existing intervals
- _____ 23. Datum and note on benchmark used, tied to Mean Sea Level (MSL), (NGVD 29) or (NAVD 88) with equation for MSL when required

- _____ 24. Property lines shown with bearings and distances and ties to controlling corners, or subdivision corners. Surveys shall only be required for SFRs upon request by Planning and Development Services
- _____ 25. Location, size and type of any **existing** structures, impervious areas, drainage facilities, wells, drainfields, drainfield reserve areas, roads, easements, and utilities on the site
- _____ 26. Location, size and type of all **proposed** structures, impervious areas, drainage facilities, wells, drainfields, drainfield reserve areas, roads, easements, and utilities on the site
- _____ 27. Building setback lines, if previously established and required or proposed setback lines. For plats and short plats, building setback lines which are in Chapter 30.23 SCC are not required to be shown
- _____ 28. Pre-existing drainage pattern(s), (i.e. ditch lines, culverts, catch basins, French drains, and surface drainage or sheet flows)
- _____ 29. Post development drainage pattern(s). Include pipe and stream flow directions with arrows. Show flow directions in swales with notes, broad drainage courses and when needed sheet flow areas with notes.
- _____ 30. Location of all property boundaries, easements, lakes, streams, creeks and structures on site and within 15 feet of site boundaries.
- _____ 31. Locations of all critical areas including:
 - a. Wetlands and fish & wildlife habitat conservation areas within 300 feet of the site, including required buffers (SCC 30.62A.130);
 - b. Geologically hazardous areas on or within 200 feet of the site (SCC 30.62B.130);
 - c. Location, size and type of all aquifer recharge areas on the subject property (SCC 30.62C.130).
- _____ 32. Location of all existing native growth protection areas (NGPAs) or native growth protection areas easements (NGPAE), and proposed critical area protection areas (CAPA) (see SCC 30.62A.160)
- _____ 33. Flood hazard areas and identify the Community Panel number of the Flood Insurance Rate Map
- _____ 34. Boundaries of site disturbance, grading or clearing
- _____ 35. Show existing structures within 15' of the subject properties boundaries and identify their use. Show structures farther when they will be affected by the construction.
- _____ 36. Identify existing and proposed stormwater pollution prevention and source control, detention, stormwater drainage facilities on-site and within 15' of the site, or farther than 15" when they may be affected by the activities on site.

- _____ 37. Map existing wells, drainfields, and drainfield reserve areas located within 100 feet of the proposed development (relates to Snohomish Health District regulations)
- _____ 38. Location and type of soils, and vegetative cover before and after completion of clearing or grading

Drainage Analysis and Reports

- _____ 39. The Drainage Information Summary sheet is attached.
- _____ 40. Basin maps or plans for the site and offsite areas which show the location of basins and sub-basins which correspond to the analysis for the site, as well as the upstream and downstream areas.
- _____ 41. The **upstream analysis** with narrative and other supporting information.
- _____ 42. The **downstream analysis** extending for at least a quarter mile downstream of the subject property. The analysis shall include a narrative and visual photographic record of the downstream drainage.
- _____ 43. Engineer's stamp, signature and date, when required.
- _____ 44. Calculate and depict effective impervious surfaces within the buffers of all wetlands, streams, lakes and marine shorelines; and within 300 feet of all wetland, streams, lakes and marine shorelines containing salmonids [SCC 30.62A.320(1)(c)].

DRAINAGE INFORMATION SUMMARY FORM

Project Total Area: _____

Project Development Area: _____

Number of Lots (if applies): _____

Summary Table

Drainage Basin Information	Individual Basin Information			
	A	B	C	D
On-Site Sub-basin Area (acres)				
Type of Storage Proposed				
Approx. Storage Volume (cu. ft.)				
Soil Type(s)				
Pre-developed Runoff Rates				
Q (cfs.)	2 yr.			
	10 yr.			
	100 yr.			
Redevelopment Area				
Post-development Runoff Rates				
Q (cfs.)	2 yr.			
	10 yr.			
	100 yr.			
Offsite Upstream Area				
Number of acres				
Offsite Downstream Flow				
Q (cfs)	100 yr			

Provide a written executive summary of the plan (2 pages maximum).

- Drainage plan description, outline the concept(s) to comply with the code.
- Water quality measures being proposed, identified in Storm Water Pollution Prevention Plan (SWPPP).
- Describe the drainage basins and sub-basins on-site and off-site, existing and proposed (refer to basin maps in the report).
- Describe or sketch of the drainage system proposed for the development.
- Downstream analysis, summary of key issues and limitations.
- Upstream analysis, summary of key issues to be addressed.
- List all proposed stormwater pollution source control BMP's.

AUTHORITY: Snohomish County Code 30.70.030 authorizes the Director of Planning and Development Services to establish and revise submittal requirements for all permit applications. These requirements are hereby established as shown above, and shall be on file with the department. Due to site-specific circumstances, the Director or his designee may waive individual requirements on a case-by-case basis.