

Pre-Design Information County Critical Areas Example

Total Parcel Area (not including lake portion of parcel): 24,759 ft²

Total Treatable Area (excludes the fully vegetated areas shown in silver on the map): 21,115 ft²

Minimum 25% Treatment: 5,278 ft²

Critical Area Review/Checklist (see checklist filled out in submittal packet paperwork): Due to the existence of bulrush on the lake-side of the bulkhead and squishy ground on the land-side of the bulkhead the critical areas checklist was filled out to determine if additional BMP placement restrictions were required due to a potential fringe wetland.

It was determined that wetland indicators were lacking and the location of the bulkhead between the bulrush and the rest of the property negated any further restriction on BMP placement other than the standard 25ft.

BMP Notes:

The proposed upland Media Filter Drain would most likely be longer than 50', which means there would need to be split into two MFDs with a break and connecting pipe at the 50 foot mark.

Conveyance – There is an existing outfall pipe that drains the entire roof and driveway that could be interrupted, run through an MFD and reconnected back to the original outfall.

For the native landscaping along the shoreline, the homeowner's goal is to deter geese, which means plants chosen should grow to knee height for best results.

A gate in the southwest corner could provide easy access for any equipment onto the property via the paved boat launch access road adjacent to the property.

Homeowner priorities:

- Keep some lawn
- Have native landscaping buffer along shoreline as a way to deter geese
- Treat runoff from hard surfaces

WHATCOM COUNTY

Planning & Development Services 5280 Northwest Drive Bellingham, WA 98226-9097 360-778-5900, TTY 800-833-6384 360-778-5901 Fax



Natural Resource Notification of Activity

Required Application Fee: \$35.00 (UFS8441) Make checks payable to Whatcom County Planning and Development Services

For Administration Use

Permit#(s)	Date Stamp	
a factor and the second second second		
Received by:		
Receipt #: Date Paid:-	Total Fees:	
Reviews: CA Wetland/HCA CA Geo Hazards	Flood Shoreline Watershed	

Notice of work to be performed in or near a Critical Area or Water Resource Special Management Area in compliance of the Whatcom County Code 16.16.235 and 20.80.735. This Notification should be submitted to the Whatcom County Planning and Development Services at least 10 working days before proposed starting date. No work shall commence until approval from Whatcom County is received. Review of this proposed activity may result in the requirement for a permit such as land disturbance, shoreline, etc. You will be notified if permits will be required for the proposed activity.

Notice of Activity Number (WCC16.16.235 Section /	
Check the Notice of Activity Number below that best descr A. Emergency Construction B. Maintenance	ribes your project. F. Routine Site Investigation G. Cleaning, Pruning, Revegetation
 C. Select Vegetation Removal D. Installation Navigation Aids/Boundary Markers 	 H. Fish, Wildlife, Wetland Restoration I. Household herbicides, Pesticides
I. Installation Mooring Buoys	 J. Routine Maintenance of Drainage Channels K. Alteration or Removal of Beaver Structures Less than 2 years old
Agent/Contact Name:	1
Mailing Address:	City
StateZip CodePhone #	()
Fax # ()Email	
Property Owner Name Mr. & Ms. Hip	
Mailing Address: 1234 Watershed Ave	City_ <u>Bellingham</u>
State_WAZip Code_98229Phone #	() <u> </u>
Fax # ()Email_XX	(@gmail.com

Property Information

Site address_1234 Watershed Ave, Bellingham, WA 98229

Assessor's Parcel Number P38032XXXXXXX

Parcel size: 24,759 in acres/square footage (if less than an acre please provide square footage)

Proposed start date June 1, 2018 Proposed finish date June 16, 2018

Type of affected Critical Area and/or watershed _Lake Whatcom

Describe activity to be conducted (if more space is needed attach additional information sheets). Provide a site plan with this notification. Clearly identify location of proposed activity on the site.

Install Lake Whatcom Homeowner Incentive Program project. See attached HIP submittal packet including project summary, project narrative, and site plan.

I / We understand this work and/or activity may have adverse effects on the Critical Area and/or watershed processes, and acknowledge that special care must be taken to reduce or eliminate adverse effects. Effective sediment and erosion control measures must be installed and disturbed areas shall be restored as near as possible to the previous condition.

Description of sediment erosion control measures and/or restoration

See attched HIP submittal packet including erosion and sediment controls on site plan and SWPPP.

SITE PLAN	SCALED SITE PLAN REQUIRED
	 The following information must be put on the scaled site plan and be consistent across the site plan. All buildings, existing and proposed.
	 Parking, access roads and driveways. Critical areas (e.g.: wetlands, streams) located. Ditches.
	 Property lines, corner pins. Topography (contours, slope grade). Utilities.
	 Erosion and Sedimentation Control Measures. Show any trees that are to be removed. Incomplete or inadequate site plan can significantly delay processing.
(j)	(Note: Incomplete applications are not accepted)

I / We the undersigned acknowledge and accept the responsibility for the progress and completion of this project. Any unforeseen problems or plan changes will immediately be brought to the attention of the County Technical Administrator.

Signed Mr. Hop	Date <u>3/15/18</u>	_ Signed Md, Hip	Date <u>3/15/18</u>
Mr. Hip Print Name		Ms. Hip Print Name	
FOR AGENCY USE			
Approved	*	Date	
Additional Information/permits	required		
Natural Resource Notification of Activity			Page 2 of 2

Property Owner: Site Address:

Mr. + Ms. Hip 1234 Watersheed Avenue

Submittal Requirements Checklist

Use this checklist to determine which submittal documents are required for your project. Please make sure all of the required documents are included in the submittal packet and check the appropriate boxes.

Part I: Submittal requirements for all HIP projects

- Project Summary & Project Narrative
- 🗹 🛛 Project Site Plan
 - Existing Conditions Sheet with utilities, including approximate location of rights-of-way

Proposed Improvements Sheet (BMP footprint, dimensions, and conveyance) Stormwater Pollution Prevention Plan (SWPPP) -required for all ground-disturbing projects

- SWPPP Narrative
- Erosion and Sediment Control Plan Sheet
- Erosion and Sediment Control Details
- Material Specifications

Part II: Submittal requirements for each primary BMP

Native Landscaping

- Design Submittal (Sections I II)
- Plant Density Calculator
- Plant List

Infiltration Trench

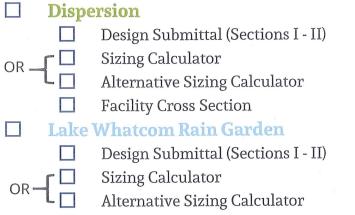
N

- Design Submittal (Sections I II)
- OR Sizing Calculator
 - Alternative Sizing Calculator
 - Facility Cross Section

🗹 🛛 Media Filter Drain

- Design Submittal (Sections I II)
- Sizing Calculator
 - _ Alternative Sizing Calculator
 - Facility Cross Section

Part II (continued)



Facility Cross Section

Part III: Submittal requirements specific to the City or County <u>City Only:</u>

- Stormwater Permit Application*
- Other City forms if applicable

*This project will not trip redevelopment thresholds regarding new or replaced impervious or partiallypervious surfaces. Therefore, this work qualifies for permitting exemptions for phosphorus- or flowlimiting projects as provided by applicable local codes and development standards.

County Only:

- Natural Resource Notification of Activity
 - Other County forms if applicable

Part IV: Signatures

	Printed Name	Signature	Date
Submittal Completed By:	HIP Coordinator	the Contrat	3/15/18
On Behalf Of:	Mr. & Ms. Hip	the	3/15/18

These requirements were developed in accordance with the minimum requirements found in the Stormwater Management Manual for Western Washington and local regulations.

Project Summary

Address: 1234 Watershed Ave	98229 Parcel #:	P38032XXXX
(street address)	(zip code)	
Owner:	Phone:	Email:
Mr. & Ms. Hip	360-XXX-XXXX	XX@gmail.com
HIP Staff:	Phone:	Email:
Venny Coe	360-306-4701	j coe @whatcomcd.org
Designer:	Phone:	Email:
HIP Designer	360-XXX-XXXX	XXX@
Short Description:		
Installation of two HIP BMPs	to address storm	water nunoff

Check boxes below to characterize the project:

from private property

Best Management Practices	Additional Practices	Stormwater Calculations
💢 Native Landscaping	Permeable Paving	□ None (Landscaping Only)
Infiltration Trench	□ Rainwater Harvesting	HIP Standard Calculations
💢 Media Filter Drain	□ Invasive Species Removal	□ WWHM Modeling
MFD Clean Beach	□ Other:	□ MGS-Flood Modeling
□ Dispersion		□ Other:
🛛 Lake Whatcom Rain Garden		

Measurement	Number	Notes
Total <u>Treatable</u> Area	21,249 ft2	
Area Landscaped by Project	3250 ft2	
Area Infiltrated by Project	ft²	
Area Dispersed/Treated by Project	13,820 ft2	Includes sheet-flow, piped flow and MFD trench square footages
New or Replaced Lawn	ft²	
New or Replaced Hard Surface	ft²	
Amount of Soil Excavated	600 yd ³	

Project Narrative

The following project, located at <u>1234</u> Watershed Are_______ is proposed as a voluntary stormwater retrofit designed to protect and restore water quality in and around Lake Whatcom. The attached and enclosed information details the proposed phosphorus-reducing best management practices (BMPs) to be installed at the project site.

A summary of these BMPs is as follows:

If the project contains more than three BMPs, additional information must be attached to this project narrative.



Design Submittal Media Filter Drain System

Section I: System and Sizing Summary

Ih	ave provided a site plan and facility cross-section.
I ha	ave defined the area that will drain into the MFD by piping.
	That area is <u>8400</u> ft ² of impervious surface and/or ft ² of lawn/landscape
I ha	ave defined the area that will drain into the MFD by sheet flow.
	That area is <u>620</u> ft ² of impervious surface and/or <u>4400</u> ft ² of lawn/landscape
	ave sized the MFD using approved methodology (HIP Sizing Calculator or stormwater Irological modeling software) and attached that data.
M	ly trench will need to be at least feet wide and _40 O ft² in filter area

Section II: Site-Specific Planning

I have determined that the MFD is at least 5' from known public and private utilities.
 I have determined that the MFD is at least 5' from structures with slab-on-grade foundations and 10' from structures with a basement or crawl space.
 I have determined that the MFD is not on or next to a slope steeper than 15% and not within 50' upgradient of a slope steeper than 35%.
 I have developed an erosion control plan for the excavation of the trench and completed a site-specific SWPPP that is included with this application.



Sizing Calculator Media Filter Drain System

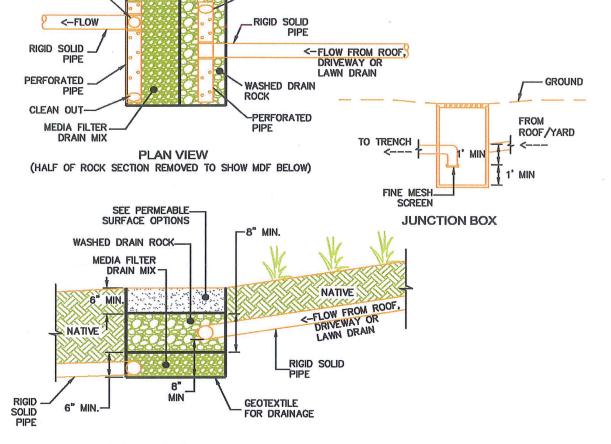
Instructions: Measure hard surface area and lawn/landscaping surface area draining to trench. Characterize flow as sheet flow or piped flow. Insert values in the table below and use the following formula to calculate the size of MFD trench that is needed to adequately manage the runoff directed to the system. Sheet flow trenches must be at least 2' wide while piped flow trenches must be at least 3' wide in order for this calculation to be applicable. Runoff from a pipe that crosses at least 25' of lawn or landscape before reaching the trench can be considered sheet flow.

Drainage Type	Hard Surface (square feet)	Hard Surface Multiplier	Lawn/Landscape (square feet)	Lawn/LS Multiplier	Minimum Trench Area (square feet)
Sheet Flow	[620 \$	\$ 0.03] =	- [4400 💲	\$ 0.01] 🗏	63
Piped Flow	8400 \$	¢ 0.04] ₹		3 0.01] 🗏	336
	Total are	ea of trench ne	eded (add trench	areas above):	400

(rounded from 399)



CLEAN OUT -



CLEAN OUT

SECTION VIEW

MEDIA FILTER DRAIN END-OF-PIPE CONFIGURATION HIP BMP "C.2", TYPICAL NTS

5



Design Submittal

Native Landscaping

Section I: System and Sizing Summary

I have defined the area that will be converted into native landscaping and have provided a site map showing the planting area.
Native landscaping will replace <u>3250</u> ft² of lawn/existing landscape and/or ft² of impervious surface
If any of my planting is in the public right-of-way, I have received written approval from the jurisdiction that manages the public area (City or County).
The size of the area of the Right-of-Way I plan to landscape isft ²
I have selected a vegetation layer combination for each unique planting area (e.g., right-of- way area, front yard, back yard, etc) and used the HIP plant density calculator to calculate the number of plants and yards of mulch required for each planting area.
The total combined quantities for <u>all</u> of my planting areas are: <u>4</u> cubic yards of approved mulch, trees, <u>67</u> shrubs, and <u>130</u> groundcovers.

Section II: Site-Specific Planning

I have determined that I will not be planting trees or shrubs within 5' of a known utility, including septic systems (on private property) or 10' from a utility (in public ROW).

I have determined that I will not need additional approvals for planting trees in the public right-of-way (if proposed, tree planting in ROW is not required).

I have determined that the planting area is not on or next to a slope steeper than 35%.

I have developed a plan to prevent erosion or runoff during my planting activities, including work during the wet season that complies with winter work provisions.





Plant Density Calculator Native Landscaping

Instructions: Select one of the options listed below for each unique planting area and calculate the minimum required planting density and mulch. Note that existing plants may be counted to meet required plant density numbers.

Option	Vegetation Layer Combination	Plant Layer	Project area (sq ft)	Density Divider	Number of Plants
,	Tree, Shrub, and Groundcover	Trees		225 (15' o.c.*)	
А		Shrubs		64 (8' o.c.)	
		Groundcovers	-	25 (5' o.c.)	
В	Tree and Shrub Only (No Groundcovers)	Trees	-	144 (12' o.c.)	
		Shrubs		36 (6' o.c.)	
					I
С	Tree and Groundcover Only (No Shrub)	Trees		144 (12' o.c.)	
		Groundcovers		16 (4' o.c.)	
D	Shrub and Groundcover Only (No Tree)	Shrubs	3250	49 (7' o.c.)	67
		Groundcovers	3250	25 (5' o.c.)	130
Cubic Yards of Mulch			3250	80	- 41

*The abbreviation "o.c." stands for "on center", a convention used to describe the average distance between plants. For example, a tree that is planted 15' o.c. would be, on average, 15' from its nearest neighbor.

Plant List

Instructions: submit a list of native plants proposed for the project categorized by tree, shrub, and groundcover. List plant name (scientific preferred) and quantity. Include number of existing plants used to meet plant density requirements. Identify non-natives and cultivars and limit to no more than 10% of total plants.

Native Plant List County Critical Areas Example

Native Landscaping BMP – 3250 ft²

Shrubs: 67 Groundcovers: 130

Shrubs:

Amelanchier alnifolia - Calycanthus occidentalis - Holodiscus discolor - Myrica gale- Phildelphus lewisii - Physocarpus capitatus - Ribes sanguieum - Vaccinium ovatum - Viburnum opulus var. americanum -

Groundcovers:

(10 of each) Asarum caudatum Deschampsia caespitosa Festuca idahoensis spp. Roemeri Brodiaea coronaria Camassia leichtlinii spp. suksdorfii Aruncus diocus Helenium autumnale Lupinus latifolius Lupinus polyphyllus Mahonia Repens Penstemon serrulatus Petasites firgidus v palmatus Symphyotrichum subspicatum spp. subspicatum

HIP Critical Areas Checklist

Purpose: This checklist will be used by the HIP Coordinator to identify likely critical areas on a HIP participating property and determine if further professional investigation is required prior to HIP project design.

Owner Name	Mr. & Mrs. HIP		
Address	1234 Watershed Avenue, Bellingham, WA		
Parcel #	P38032XXXXX		
HIP staff completing checklist	Jenny Coe, Emily Hirsch		
Date checklist completed	3/15/18		

A. Waterways:

- Are there any streams, regulated ditches, lakes, or ponds on the property? (Check Whatcom County GIS layer to identify regulated ditches).
 ⊠Yes □ No
- 2. If yes, show on project site plan. HIP BMP minimum requirements and design limitations for shorelines and creeks will apply.

Comments on waterways: Lake Whatcom shoreline

B. Slopes:

- 1. Are there any slopes steeper than 35% within 50ft of the proposed project area? \Box Yes \boxtimes No
- 2. If yes, identify on project site plan. HIP BMP minimum requirements and design limitations for slope will apply.

Comments on Slope:

C. Wetlands:

1. Is there ever standing water, squishy lawn, or indicators of standing water (water stained leaves, debris or sediment deposits, algal mats, surface soil cracks) within 25 ft of the proposed project area?

 \boxtimes Yes \square No

Two conditions have been observed on-site: There is bulrush growing on the lake-side of the bulkhead which will be adjacent to the proposed native landscaping buffer in the HIP design.

Squishy lawn was also observed on the land-side of the bulkhead; however the day of the site visit it was pouring rain and had been raining for multiple days prior. The homeowner stated that any standing water or squishy lawn was quick to drain when the rain stops.

2. Are there any dominant plant species that are FAC or wetter within 25ft of the proposed project area?

🛛 Yes 🗆 No

Bulrush was found on the lake-side of the bulkhead which would be within 25 feet of the proposed native landscaping buffer along the shoreline.

If yes to any of the above, dig a test hole(s) 12-24 inches deep within the project area. Stop at hard layers or the water table. (*Results from recent OSS soil tests can be used if available*). Complete USACE Wetland Determination Data Form.

A test hole was not dug on the water-side of the bulkhead. Small test holes were dug on the land-side of the bulkhead where standing water and squishy lawn were observed.

- a. Note depth to water table: **NO GROUND WATER OBSERVED**
- b. Note depth to restrictive layer: **NONE OBSERVED**
- c. Note soil texture: Sandy
- 4. Was a wetland identified using the Wetland Determination Form? See attached wetland data form.

☐ Yes ⊠ No See comments below.

If yes, locate the edge of the wetland with line and tape. Consult with PDS staff on appropriate location of proposed HIP BMPs within wetland buffer. Include a map showing edge of wetland on the project site plan.

If no, no further critical area investigation is required.

Comments on wetlands:

This property has a bulkhead in place that runs the entire distance of the shoreline. In one small section on the lake-side of the bulkhead, there is the presence of bulrush. On the land-side of the bulkhead wetland indicators were lacking, salal (FACU) was the dominant vegetation, and soil texture was sandy. Native landscaping is the only BMP that will be adjacent to the bulkhead and bulrush. The planned Media Filter Drain trench will be a minimum of 25ft away from the bulkhead in an area that had no evidence of wetland indicators.

See Existing Conditions Map for location of bulrush.

Include a copy of this checklist and any associated maps or support materials, as applicable, as an attachment to the Whatcom County Natural Resource Notification of Activity form submitted with the HIP application.

Material Specifications List

Check Here	Material Name in HIP 2.0 BMP Material Spec Book	Check Here	Material Name in HIP 2.0 BMP Material Spec Book	
\times			Pipe and Drains (Pages 9-10)	
Rock Materials (Pages 4-7)			Atrium Grate	
	Cascade Stone	\mathbf{X}	Catch Basin	
\times	Media Filter Drain Mix		Fine Mesh Screen	
	Pea Gravel		Perforated Pipe	
	Permeable Ballast	\times	Pipe Couplings and Fittings	
	Quarry Spalls		Rigid Solid Pipe	
	River Rock	\times	Solid Lids and Grates	
	Sand		Trench Drain	
	Shoreline Gravel		Trench Drain Grate	
\mathbf{X}	Washed Drain Rock		Type 1 Catch Basin	
		Permeable Pavement Materials (Pages 11-12)		
Mulch and Compost Materials (Pages 7-8)			Permeable Interlocking Paver System	
	Compost	T.	Permeable Pavers	
	Hog Fuel		Permeable Paver Joint Filler	
\times	Low-Phosphorus Mulch		Poured Permeable Surfacing	
Soil-Based Materials (Pages 8-9)			Edge Restraints	
~	Low-P Rain Garden Soil Mix		Grid Paver System	
	Low-P Topsoil			

Material Specifications List Continued						
Check	Material Name in HIP 2.0	Check	Material Name in HIP 2.0			
Here	BMP Material Spec Book	Here	BMP Material Spec Book			
Erosion Controls (Pages 12-14)		Other (Pages 14-15)				
\times	Catch Basin Inserts		Dispersion Trench Edging			
	Grass Seed		Dispersion Trench Support Post			
	Sandbags		Geotextile for Drainage			
	Silt Fencing		Rigid, Waterproof Barrier			
	Sod					
	Soil Coverage Tarp					
\times	Wattles					

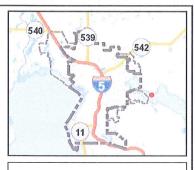
Include any additional modifications here:







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Legend

- Contours detail (ft) 1000 FOOT — 100 FOOT - 25 FOOT ---- 5 FOOT
- Sheet flow to MFD: 5,020 pt 2
- Piped flow to MFD: 8,400ft²
- NFD: 400 ft 2 · 2 trenches w/level bottoms · Connected via pipe at soft

Native Landscape 3,250 ft²

Conveyance: I - Junction 60X Cut outfall pipe upt down stream of MFD. Connect mflow to distb. pipe. Connect under dam to downstream outfall pipe.

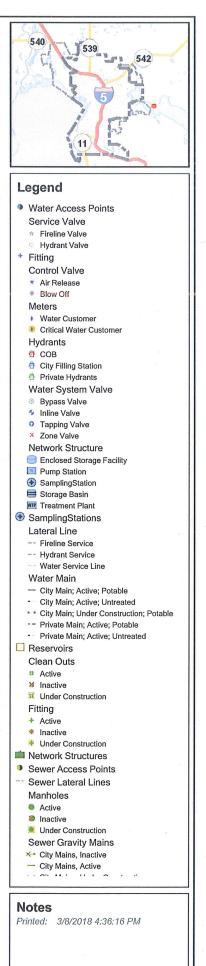
--- Distb. pipe 4" perf.

Underdrain pipe y"perf.

Notes Printed: 3/15/2018 10:43:38 AM



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Stormwater Pollution Prevention Plan (SWPPP)

Describe all elements below that apply to your project. Refer to the current edition of the Stormwater Management Manual for Western Washington for drainage project instructions. If you are <u>only</u> completing a landscaping project, describe elements below that you will implement during the winter work season.

Elements of the SWPPP

Element 1 – Mark Clearing Limits:

Clearing limits will be marked with orange fencing. All utilities will be marked with flags or paint.

Element 2 – Establish Stabilized Construction Access:

Construction access will be to the SE of the lot along a paved public boat launch access road. The lawn area between the road and the gate will be covered in 8" of hog fuel. If wheeled or tracked equipment is to be driven beyond the gate, plywood will be placed over lawn areas to prevent erosion and track out.

Element 3 – Control Flow Rates:

HIP Projects are not intended to increase flow rates or stormwater discharge volumes by any amount. Therefore, no flow controls are necessary during construction. If point-discharges are created during construction, they will be mitigated by proper installation of sediment controls and will be disconnected at the completion of the project.

Element 4 – Install Sediment Controls:

A mulch berm will be installed between the MFD construction area and the bulkhead and then used for the native landscaping BMP.



Element 5 – Stabilize Soils:

All disturbed, exposed, stockpiled, or uncovered soil materials will be covered using an approved material (durable tarp, mulch, straw, etc.) during all rain events occurring during construction. Unworked soils that will be left exposed for more than 48 hours will be covered at the end of the last working day prior to that 48-hour duration. All disturbed soils will be covered completely between October 1 and May 30.

Element 6 – Protect Slopes:

N/A

Element 7 – Protect Drain Inlets:

A catch basin insert will be placed in the junction box to protect it from dirt from getting into it during construction.

Element 8 – Stabilize Channels and Outlets:

There will be a temporary drain connected to the existing downspouts to divert any flow that comes through before the connection can be tied into the outlet at the bulkhead.

Element 9 – Control Pollutants:

No pollution-generating activities in excess of the approved HIP project are allowed. Spills and leaks of fuels, fluids, or chemicals will not be allowed to enter storm systems. Any fuel, fluid, or chemical pollutants entering storm systems, including ditches, must be reported to the City of Bellingham or Whatcom County immediately upon discovery.

Element 10 – Control Dewatering:

Dewatering is not an expected activity related to a HIP project. Trenches, drywells, and other stormwater systems will not be used as sediment traps at any time. If sedimentation occurs, restoration (including dewatering) will not cause the discharge of sediment-laden water from the site by either surface or piped flow.



Element 11 – Maintain BMPs:

All erosion control BMPs will be maintained per manufacturer's recommendations and as directed by HIP, City of Bellingham, or Whatcom County Staff.

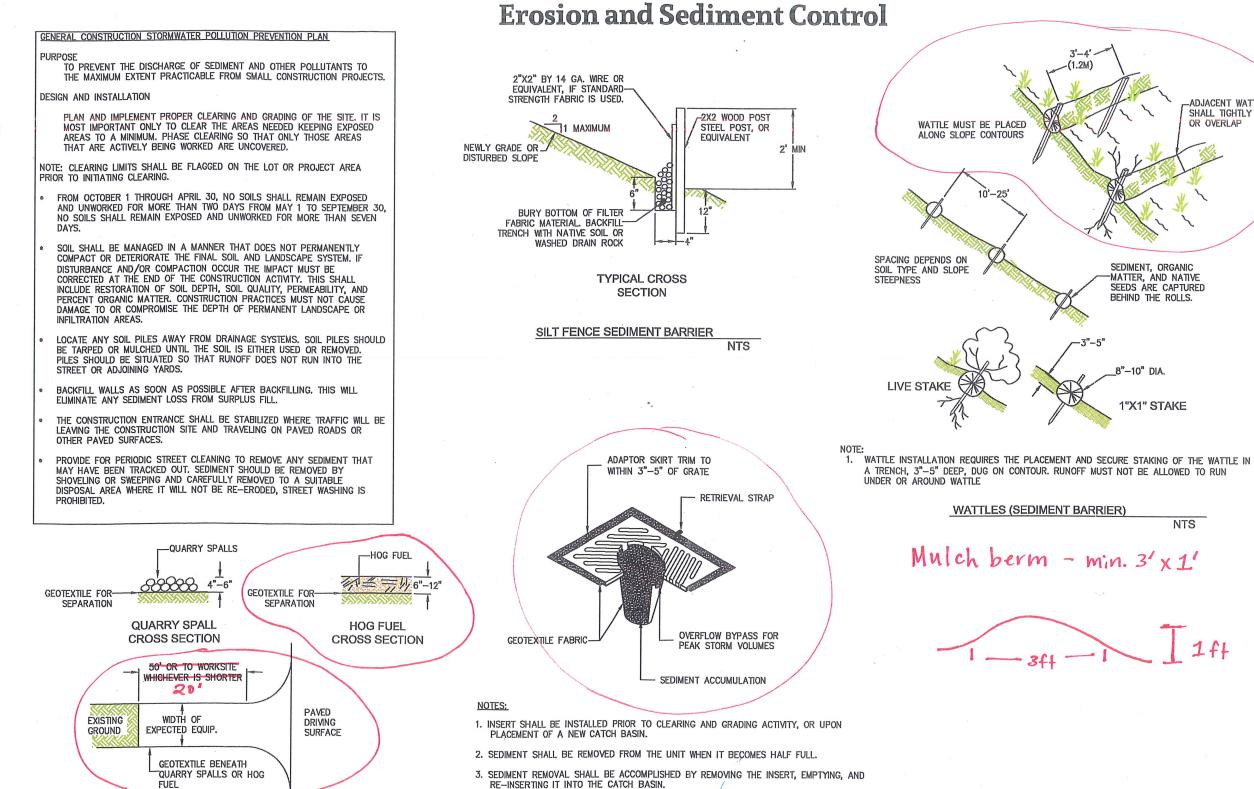
Element 12 – Manage the Project:

Work will occur as defined in an approved HIP project plan and per HIP rules and requirements. Contractor will exercise adaptive management to correct any unexpected deficiencies in erosion control efforts, as necessary. Adaptive management strategies may be reviewed by HIP, City of Bellingham, or Whatcom County staff to ensure compliance with applicable rules and regulations.

Element 13 - Protect LID Features:

If the MFD trench is to remain open for more than one working day, or will be constructed during inclement weather, a straw wattle will be placed on the uphill side of the MFD trench to prevent sediment from entering the facility during construction.

Design Guidance



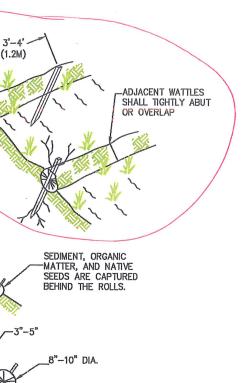
CONSTRUCTION ENTRANCE

NTS

CATCH BASIN INSERT (INLET PROTECTION) DETAIL

NTS





1"X1" STAKE

NTS

T 1ft