

GENERAL NOTES

ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THECURRENT EDITION OF STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION BY WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND STANDARD PLANS AND SPECIFICATIONS OF THE CITY OF FERNDALE.

CONTRACTOR WILL OBTAIN A PUBLIC WORKS PROJECT PERMIT, A REVOCABLE ENCROACHMENT PERMIT FOR WORK IN THE PUBLIC RIGHT OF WAY, AND ALL OTHER REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY ENGINEER'S OFFICE PRIOR TO BEGINNING WORK. CONTRACTOR SHALL CONTACT THE OFFICE OF THE CITY ENGINEER 24 HOURS PRIOR TO COMMENCING WORK WITHIN THE CITY RIGHT-OF-WAY.

CONTRACTOR SHALL CONTACT THE CITY OF FERNDALE DEPARTMENT OF PUBLIC WORKS 24 HOURS IN ADVANCE OF ANY INSPECTIONS OUTLINED AS FOLLOWS:

UPON PLACEMENT OF SEDIMENTATION AND EROSION CONTROL DEVICES.

UNDERGROUND DRAINAGE: UPON PLACEMENT OF PIPE AND PRIOR TO BACKFILLING.

DURING PLACEMENT OF BACKFILL.

GENERAL ROADWAY: UPON COMPLETION OF UNDERGROUND UTILITIES AND SUBGRADE INCLUDING GRAVEL BALLAST.

UPON COMPLETION OF BASE COURSE AND CURBING. UPON PLACEMENT OF CRUSHED SURFACING COURSE, PRIOR TO PLACEMENT OF ANY PAVEMENT

DURING PLACEMENT OF ASPHALT PAVEMENT. OVERALL INSPECTIONS OF SHOULDERS, SIDEWALKS, DITCHES, MONUMENTS, DRAINAGE PIPES, STORM INLETS FINAL SITE GRADING AND CLEAN-UP.

END OF MAINTENANCE PERIOD PRIOR TO RELEASE OF SECURITY DEPOSIT.

ALL WORK WITHIN THE RIGHT OF WAY MUST BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF THE CITY OF FERNDALE ENGINEERING DIVISION AND 24 HOURS NOTICE MUST BE GIVEN PRIOR TO STARTING WORK OR TO

CONTRACTOR SHALL RESTORE ALL PUBLIC AND PRIVATE PROPERTY DISRUPTED BY THE PROJECT.

ALL CUT AND BACKFILL SLOPES SHALL BE SEEDED AND FERTILIZED FOR EROSION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR SLOPE EROSION UNTIL VEGETATION IS FIRMLY ESTABLISHED.

CONTRACTOR SHALL INSTITUTE PRACTICES FOR PREVENTION OF EROSION DURING CONSTRUCTION. EROSION CONTROL WORK SHALL CONFORM TO THE REQUIREMENTS OF SECTION 8.01 OF THE STANDARD SPECIFICATIONS AND CHAPTER 11 OF THE FERNDALE STANDARDS.

CONTRACTOR SHALL SUBMIT A LIST OF ITEM COSTS TO THE CITY ENGINEER COVERING ALL COSTS OF CONSTRUCTION AND SUBMIT A TWO-YEAR MAINTENANCE BOND COVERING DEFECTS IN MATERIALS AND WORKMANSHIP PRIOR TO CITY ACCEPTANCE OF THE PROJECT.

CONTRACTOR SHALL INFORM THE ENGINEER OF ANY PROPOSED CHANGES IN PLAN PRIOR TO CONSTRUCTION OF THAT CHANGE. CONTRACTOR SHALL MAINTAIN RECORDS OF ANY DEVIATIONS AND FORWARD TO ENGINEER. ENGINEER SHALL PROVIDE CITY WITH A CERTIFIED AS-BUILT MYLAR AT THE COMPLETION OF THE PROJECT

CONTRACTOR SHALL CONTACT UTILITIES COORDINATING 48 HOURS IN ADVANCE OF CONSTRUCTION (1-800-424-5555).

ALL COMPACTION TESTING REQUIRED DURING THIS CONSTRUCTION PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBGRADE MUST BE CERTIFIED BY THE ENGINEER PRIOR TO PAVING.

ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE TRUE AND CORRECT LOCATION.

A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

ROAD AND STORM DRAIN SPECIFICATIONS

STRIPPED ORGANIC MATERIAL AND EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE OFF SITE, OR AS DIRECTED BY THE OWNER.

STORM DRAIN PIPE SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE STANDARDS. BEDDING FOR PVC PIPE SHALL BE IN ACCORDANCE WITH STANDARD PLAN SS-15.

CATCH BASINS SHALL BE TYPE 1 PRECAST CONCRETE. CATCH BASINS SHALL BE ACCORDING TO DOT PLAN B-1. NON-PUBLIC RIGHT-OF-WAY CATCH BASINS SHALL BE CONSTRUCTED USING METAL FRAMES AND GRATES PER DOT PLAN B-2A

ALL EXISTING STORM PIPES SHALL BE CLEARED OF DEBRIS AND SEDIMENT AT THE COMPLETION OF THE PROJECT.

BIOFILTRATION SWALES SHALL BE CONSTRUCTED AS SHOWN. SWALES WILL BE SEEDED OR SODDED AS REQUIRED AND MAINTAINED UNTIL GRASS IS WELL ESTABLISHED.

CEMENT CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE SPECIFICATION R-9. SIDEWALK SHALL BE 6 INCHES THICK THROUGH DRIVEWAY SECTIONS.

CURB RAMPS SHALL BE CONSTRUCTED IN LOCATIONS SHOWN ON THE SITE PLAN AND SHALL CONFORM TO REQUIREMENTS OF CITY OF FERNDALE STANDARD PLAN R-14.

ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 5-04 OF THE STANDARD SPECIFICATIONS. DESIGN ENGINEER SHALL INSPECT SUBGRADE, RUN TESTS AS REQUIRED AND CERTIFY SUBGRADE FOR BEARING CAPACITY PRIOR TO PLACING BANK-RUN GRAVEL.

PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE STANDARD SPECIFICATION R-11.

RESIDENTIAL STREET LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF BELLINGHAM STANDARD PLAN ST-42. SECTION 707 OF THE DEVELOPMENT STANDARDS AND THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS. SUBMIT LIGHTING PLANS AND DETAILS TO THE PUBLIC WORKS DIRECTOR FOR REVIEW AND APPROVAL

SANITARY SEWER SPECIFICATIONS

FOUR INCH THROUGH TWELVE INCH SEWERS SHALL BE PVC PIPE CONFORMING TO ASTM D-3034, SDR-35 OR EQUAL. PIPE JOINTS SHALL BE MADE WITH FLEXIBLE GASKETS CONFORMING TO THE REQUIREMENTS OF SECTION 7-17.3(2)E OF THE STANDARD SPECIFICATIONS.

TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH SECTION 7-17.3(1)A OF THE STANDARD SPECIFICATIONS.

THE BEDDING SHALL BE IN ACCORDANCE WITH SECTION 7-17.3(1)B OF THE STANDARD SPECIFICATIONS. THE BEDDING FOR PVC PIPE SHALL BE PEA GRAVEL ACCORDING TO CITY OF FERNDALE STANDARD PLAN SS-1.

FOUR-INCH OR SIX-INCH SIDE SEWER INSTALLATIONS AND AS-BUILTS SHALL CONFORM TO FERNDALE STANDARDS, SEC. 706 AND STANDARD PLANS NO. SS-6, SS-13, AND SS-14. LOCATOR BOARDS SHALL BE INSTALLED AT THE ENDS

TRENCH BACKFILL UNDER ROADWAY AND SHOULDER SHALL BE BANK RUN GRAVEL COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST. TRENCH BACKFILL OUTSIDE OF ROADWAY SECTIONS MAY BE NATIVE MATERIAL COMPACTED TO 85% MAXIMUM DRY DENSITY. MINIMUM COVER SHALL BE 60 INCHES.

MANHOLES SHALL CONFORM TO CITY OF FERNDALE STANDARD PLAN NO. SS-2. FRAMES AND COVERS SHALL CONFORM TO STANDARD PLAN NO. SS-9. ALL MANHOLES SHALL USE CONE-TYPE RISERS WHEN THE TOTAL HEIGHT EXCEEDS EIGHT (8) FEET FOR 48" DIAMETER MANHOLES. ALL MANHOLES SHALL BE PRE-CHANNELED.

CLEAN OUTS SHALL CONFORM TO STANDARD PLAN NO. SS-5.

OF THE LATERALS AND SHALL BE PAINTED GREEN.

WATER MAIN & APPURTENANCES

ALL 6" AND 8" DIAMETER WATER MAIN SHALL BE OF AWWA STANDARDS H3-71, C151-71 AND CEMENT LINING C104-71, AND SHALL BE CLASS 50 DUCTILE IRON PIPE. ALL FITTINGS SHALL BE CLASS 150 AND SHALL CONFORM TO AWWA SPECIFICATION C-110-71 AND C-104-71. INSTALLATION SHALL CONFORM TO THE MANUFACTURERS INSTRUCTIONS AND THE REQUIREMENTS OF THE CITY OF FERNDALE.

PIPE LAYING SHALL MEET THE REQUIREMENTS OF SECTION 7-11 OF THE STANDARD SPECIFICATIONS.

TRENCH BACKFILL UNDER ROADWAY AND SHOULDER SHALL BE BANK RUN GRAVEL COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST. TRENCH BACKFILL OUTSIDE OF ROADWAY SECTIONS MAY BE NATIVE MATERIAL COMPACTED TO 85% MAXIMUM DRY DENSITY. MINIMUM COVER SHALL BE 42

CONCRETE THRUST BLOCKING SHALL BE AS SPECIFIED IN CITY OF FERNDALE STANDARD PLAN NO. W-2 THROUGH W-4, OR AS DIRECTED BY THE PROJECT ENGINEER. BLOCKS SHALL BE INSTALLED AS SPECIFIED IN SECTION 7-11.3(13) OF THE STANDARD SPECIFICATIONS. NO PRECAST BLOCKS ARE ALLOWED.

CONTRACTOR SHALL CONFER WITH THE CITY ENGINEER REGARDING METHOD OF FILLING AND PRESSURE TESTING PIPE PRIOR TO CONSTRUCTION. TEST PRESSURE SHALL BE A MINIMUM OF 200 PSI.

GATE VALVES SHALL BE AWWA APPROVED FOR PRESSURE CLASS 150 AND SHALL BE IRON-BODY, FULL-BRONZE MOUNTED, RESILIENT SEATED, CAST IRON VALVE BOXES SHALL BE IN ACCORDANCE WITH APWA STANDARD C509.

CONTRACTOR SHALL CONTACT THE ENGINEER AT THE TIME OF WATER SERVICE INSTALLATION IN ORDER THAT STATIONING OF CORPORATION STOPS CAN BE RECORDED. LOCATIONS OF WATER MAINS, BENDS, FITTINGS, VALVES, HYDRANTS, WATER SERVICES ETC. SHALL BE NOTED ON THE AS-BUILT PLAN IN ACCORDANCE WITH CITY

FIRE HYDRANT SHALL BE 6" (5-1/4" MVO) WITH DOUBLE HOSE AND SINGLE PUMPER OUTLETS FITTED WITH STORZ ADAPTERS, HYDRANTS SHALL COMPLY WITH CITY OF FERNDALE SPECIFICATIONS, CHAPTER 705. INSTALLATIONS SHALL CONFORM TO CITY STANDARD PLAN W-1. CONTRACTOR SHALL PLACE HYDRANT EXTENDERS AS NECESSARY TO BRING BASE FLANGE TO GRADE.

WATER SERVICES AS REQUIRED SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF FERNDALE STANDARD PLAN W-5, W-6 AND W-14. WATER SERVICE METER ASSEMBLIES, METER BOXES AND INSTALLATION SHALL CONFORM TO CITY OF FERNDALE REQUIREMENTS. METERS SHALL BE INSTALLED BY THE CITY AND PAID FOR BY THE DEVELOPER.

Table 4.1 represents the standard mix for those areas where just a temporary vegetative cover is required

Table 4.1 **Temporary Erosion Control Seed Mix** % Weight % Purity % Germination Chewings or annual blue grass Festuca rubra var. commutata or Poa anna Perennial rye -Lolium perenne Redtop or colonial bentgrass Agrostis alba or Agrostis tenuis White dutch clover Trifolium repens

Table 4.2 provides just one recommended possibility for landscaping seed

Table 4.2 Landscaping Seed Mix			
	CONTRACTOR OF THE PERSON NAMED IN COLUMN 2	% Purity	% Germination
Perennial rye blend Lolium perenne	70	98	90
Chewings and red fescue blend Festuca rubra var. commutata or Festuca rubra	30	98	90

This turf seed mix in Table 4.3 is for dry situations where there is no need for much water. The advantage is that this mix requires very little

Table 4.3 Low-Growing Turf Seed Mix			
	THE RESIDENCE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	THE RESERVE AND ADDRESS OF THE PARTY OF THE	% Germination
Dwarf tall fescue (several varieties)	45	98	90
Festuca arundinacea var.			, ,
Dwarf perennial rye (Barclay)	30	98	90
Lolium perenne var. barclay		, ,	,,
Red fescue	20	98	90
Festuca rubra		,,	70
Colonial bentgrass	5	98	90
Agrostis tenuis	_	20	70

Table 4.4 presents a mix recommended for bioswales and other intermittently wet areas.

Table 4.4 Bioswale Seed Mix*			
	% Weight	% Purity	% Germination
Tall or meadow fescue	75-80	98	90
Festuca arundinacea or Festuca elatior			
Seaside/Creeping bentgrass	10-15	92	85
Agrostis palustris			0.0
Redtop bentgrass	5-10	90	80
Agrostis alba or Agrostis gigantea	- 44		00

The seed mix shown in Table 4.5 is a recommended low-growing. relatively non-invasive seed mix appropriate for very wet areas that are not regulated wetlands. Other mixes may be appropriate, depending on the soil type and hydrology of the area. Recent research suggests that bentgrass (agrostis sp.) should be emphasized in wet-area seed mixes. Apply this mixture at a rate of 60 pounds per acre.

Table 4.5 Wet Area Seed Mix*			
	% Weight	% Purity	% Germination
Tall or meadow fescue Festuca arundinacea or Festuca elatior	60-70	98	90
Seaside/Creeping bentgrass Agrostis palustris	10-15	98	85
Meadow foxtail Alepocurus pratensis	10-15	90	80
Alsike clover Trifolium hybridum	1-6	98	90
Redtop bentgrass Agrostis alba	1-6	92	85

The meadow seed mix in Table 4.6 is recommended for areas that will be maintained infrequently or not at all and where colonization by native plants is desirable. Likely applications include rural road and utility rightof-way. Seeding should take place in September or very early October in order to obtain adequate establishment prior to the winter months. The appropriateness of clover in the mix may need to be considered, as this can be a fairly invasive species. If the soil is amended, the addition of clover may not be necessary.

* Modified Briargreen, Inc. Hydroseeding Guide Wetlands Seed Mix

Table 4.6 Meadow Seed Mix			
	% Weight	% Purity	% Germination
Redtop or Oregon bentgrass Agrostis alba or Agrostis oregonensis	20	92	85
Red fescue Festuca rubra	70	98	90
White dutch clover Trifolium repens	10	98	90

• Any seeded areas that fail to establish at least 80 percent cover (100 percent cover for areas that receive sheet or concentrated flows) shall be reseeded. If reseeding is ineffective, an alternate method, such as sodding, mulching, or nets/blankets, shall be used. If winter weather prevents adequate grass growth, this time limit may be relaxed at the discretion of the local authority when sensitive areas would otherwise be protected.

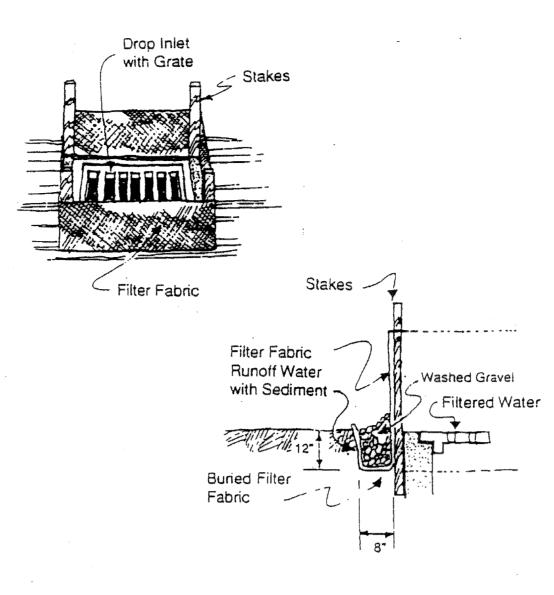
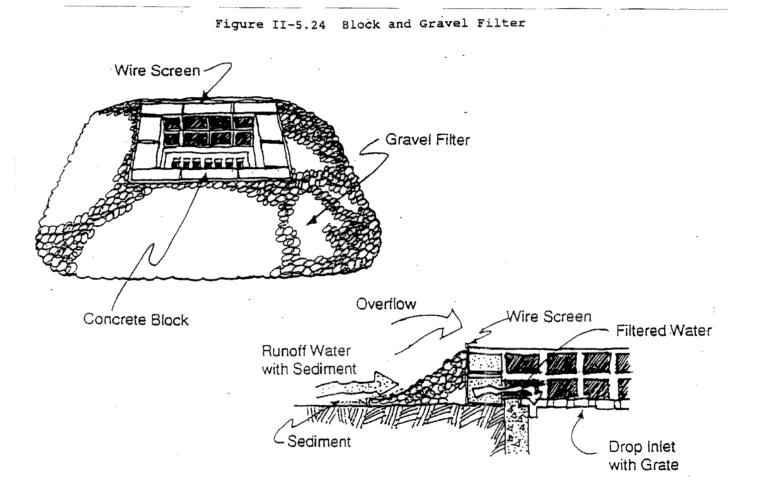
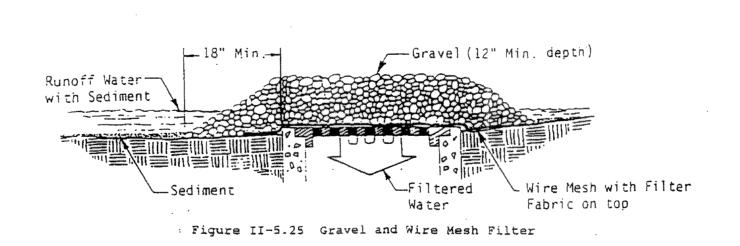


Figure II-5.23 Filter Fabric Fence Inlet Filter



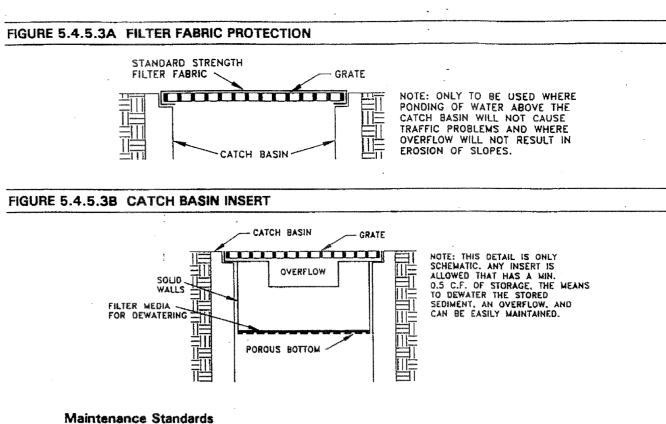


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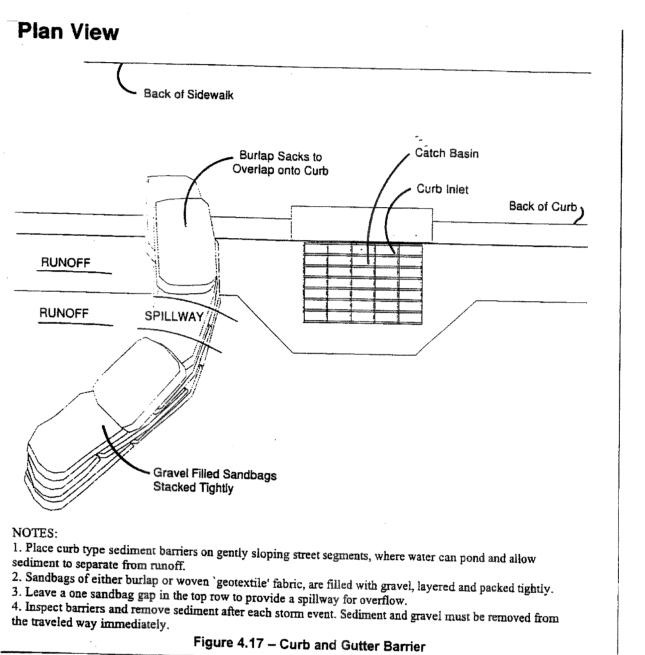
ALL TEMPORARY EROSION MEASURES PER

DOE STANDARDS, CURRENT EDITION, AS

REQUIRED BY THE CITY OF FERNDALE.



- Any accumulated sediment on or around the filter fabric protection shall be removed mmediately. Sediment shall not be removed with water, and all sediment must be disposed of as fill on-site or hauled off-site.
- Any sediment in the catch basin insert shall be removed when the sediment has filled onethird of the available storage. The filter media for the insert shall be cleaned or replaced at
- Regular maintenance is critical for both forms of catch basin protection. Unlike many forms of protection that fail gradually, catch basin protection will fail suddenly and completely if not maintained properly.



I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR CASCADE DAFO HAVE BEEN INSPECTED BY DIBBLE ENGINEERING AND THE CITY OF FERNDALE AND WERE CONSTRUCTED IN CONFORMANCE WITH THE PLANS APPROVED BY THE PUBLIC WORKS DIRECTOR FOR SAID DEVELOPMENT AND THE GENERAL SPECIFICATIONS ADOPTED BY THE CITY OF FERNDALE DEPARTMENT OF PUBLIC WORKS.



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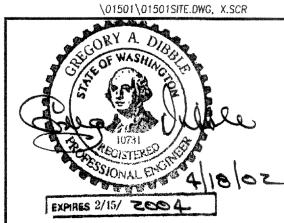
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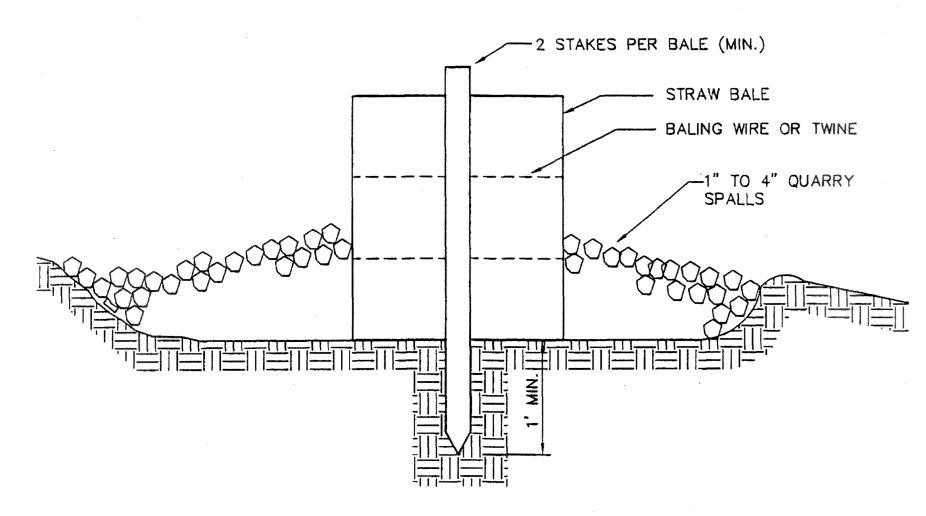
STRAW BALE MAINTENANCE

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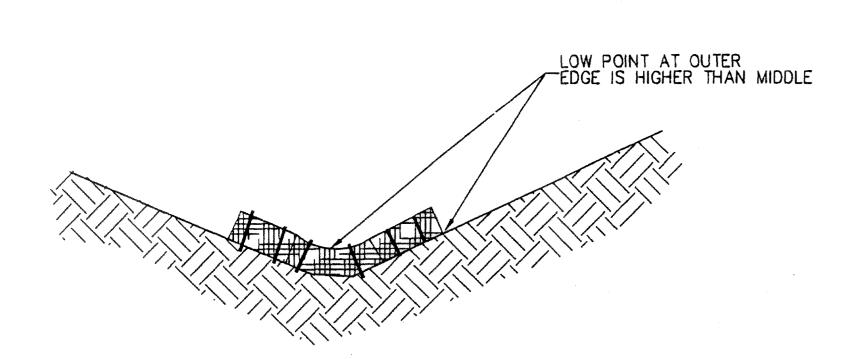
1. STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

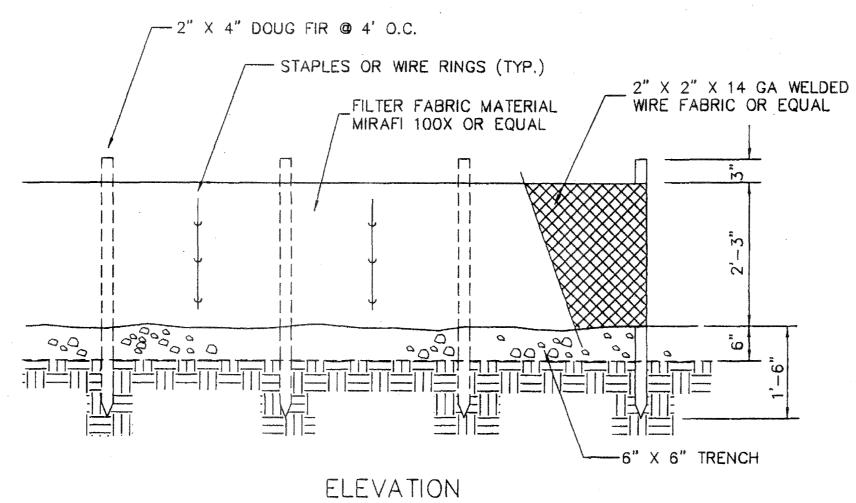
CONSTRUCTION ACCESS DETAIL

- 2. CLOSE ATTENTION SHALL BE PAID TO THE PROMPT REPAIR OF DAMAGED BALES, END RUNS. AND UNDERCUTTING BENEATH BALES.
- 3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED



STRAW BALE X-SECTION



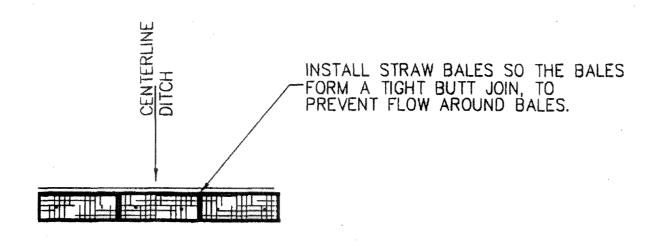


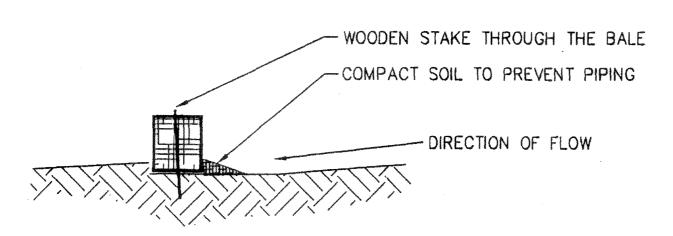
2" X 4" DOUGLAS FIR — OR EQUAL FILTER FABRIC MATERIAL 2" X 2" X 14 GA. W.W.F. 1' - 1 1/2" WASHED ROCK OR PEA GRAVEL 2" EXCESS OVERLAP — 6" X 6" TRENCH

TYPICAL CROSS SECTION

- 1. PLACE 1' OF 3/4" 1 1/2" WASHED ROCK OR PEA GRAVEL ON BOTH SIDES OF FENCE TO CREATE A BEVEL SHAPE.
- 2. FABRIC SHALL COVER BOTTOM OF 6" X 6" TRENCH AND EXTEND BEYOND THE LIMITS OF THE GRAVEL IN ORDER TO MAINTAIN AN EXCESS OVERLAP OF 2" MINIMUM ASSHOWN IN TYPICAL CROSS-SECTION.
- 3. STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- 4. CLOSE ATTENTION SHALL BE PAID TO THE PROMPT REPAIR OF DAMAGED BALES, ENDS AND UNDERCUTTING BENEATH BALES.

SILTATION FENCE DETAIL





STRAW BALE BARRIERS

NTS

EROSION AND SEDIMENTATION CONTROL MEASURES:

It should be noted that placement of any excess excavation from other portions of this project as it is constructed must be in a manner suitable for both erosion control and for future building pads. Areas receiving this material shall be stripped of topsoil and then filled in compacted lifts according to engineered fill standards. Any stockpiles of material shall be immediately bermed and stabilized to control possible erosion and sedimentation,

It is most important to note that as the development proceeds, any filling or lot-grading resulting from the excavation of dwelling crawispaces must be placed so that the site drainage continues to work as designed. Yards will need to be monitored periodically so that the local swales do not become filled or otherwise blocked and rendered in-operable by landscaping "improvements".

The potential for erosion and sediment impacts exists from working on this project. The downstream areas shall be protected by diverting as much runoff as possible onto the native vegetation and away from the construction zones (BMP's E1.25 and E2.55). Runoff from the disturbed areas under construction which can not sheetflow across native vegetation will be directed through filter fabric fences, straw barriers and gravel filter berms (BMP's E3.10,E3.15, E3.25 and E3.30).

Requirement #1: Stabilization and Sediment Trapping

Provide immediate protection of exposed soils during construction delays or over winter months. All areas left exposed more than 3 days from May 1 through September 30 and 12 hours from October 1 through April 30 shall be stabilized by mulching and seeding (BMP's E1.15 and E1.10). Apply straw mulch to a minimum thickness of 2 inches and crimp into the ground.

Requirement #2: Delineate Clearing and Easement Limits The clearing limits for each project stage shall be clearly marked

Requirement #3: Protect Adjacent Properties

Following delineation of the clearing limits and prior to any major land disturbance, a filter fabric fence or similar barrier shall be installed where required to protect the natural drainage routes across the lower end of the site (BMP E3.30). The fence or barriers shall be located such that any runoff from the site that does not directly enter a sedimentation basin will be filtered prior to leaving the site.

Requirement #4: Timing and Stabilization of Sediment Traps

Sediment ponds, traps, dikes and other sediment barriers intended to trap sediment on-site shall be constructed as a first step in grading. These devices shall be functional before land disturbing activities commence. Earthen structures shall be seeded and mulched according to the timing mentioned above.

Requirement #5: Cut and Fill Slopes

Cut and fill slopes shall be limited to a maximum of 2 horizontal to 1 vertical. Flatter slopes shall be utilized whenever possible. All construction slopes shall be stabilized immediately. Additionally, the following BMP's shall be implemented as appropriate:

- BMP E2.25 Pipe Slope Drain BMP E2.30 Subsurface Drains
- BMP E2.35 Surface Roughening
- BMP E2.55 Interceptor Drains BMP E2.75 Riprap Slope Protection

Requirement #6: Controlling Off-site Erosion

Waterways downstream of this site shall be protected from the increased runoff. Refer to the Permanent Stormwater Plan

Requirement #7: Stabilization of Temporary Channels and Outlets

Interceptor Berms and Swales (BMP E2.55) shall be placed on native soil providing a stable base. Following placement, these structures shall be stabilized by methods mentioned previously. Areas above the flow line shall be seeded and mulched.

Requirement #8: Storm Drain Inlet Protection

All storm drain inlets made operable during construction shall be protected from sediment entry by the installation of sediment filters (BMP E3.30).

Requirement #9: Underground Utility Construction

Utility construction shall be limited to 500 feet of open trench with the trench excavation placed on the uphill side of open trenches.

Requirement #10: Construction Access Routes

Prior to the start of general construction, entrances to the site shall be stabilized. The existing gravel drive may not require a rock pad (BMP E2.10 and BMP E2.15) until weather conditions degenerate. Where construction vehicle access routes intersect paved roads, provisions must be made to limit and minimize the transport of mud onto the pavement. When sediment is transported onto existing roads, those roads shall be cleaned thoroughly at the end of each day. Sediment shall be removed by shoveling or sweeping and transported to an acceptable location where it shall also be stabilized. Street washing will only be allowed after the sediment has been removed by the manner described above. Dust controls (BMP E2.20) shall apply during dry weather conditions.

Requirement #11: Removal of Temporary BMP's

All temporary erosion and sediment control BMP's shall be removed within 30 days after final site stabilization or when they are no longer needed. Trapped sediments shall be removed or stabilized in place, depending on location. Disturbed areas resulting from these removals shall be permanently stabilized immediately after removal.

All dewatering activities shall discharge to either a sediment trap or shall be conveyed to one of the site sediment basins. In no case shall the dewatering discharge be at a greater rate than the sediment trap or basin can safely handle.

Requirement #13: Control of Pollutants Other Than Sediment on Construction Sites

The following BMP's will be used to control pollution from sources other than sedimentation. This list is not to be construed as limiting the types of pollutants or BMP's which may be applicable. The Stormwater Manual shall be reviewed during construction for any other BMP's which may be relevant.

BMP C1.10 Pesticide Control. Pesticides may only be used in conjunction with an integrated pest management plan for the site. Application of all pesticides shall closely follow all label directions and governing agency instructions. Pesticides stored on-site shall be in an enclosed and secured location.

BMP C1.20 Petroleum Product Handling. The use of petroleum products shall be in such a manner as to prevent its discharge to the soil or other surfaces of the site. A staging area for equipment repair and fueling shall be established away from all drainage courses.

BMP C1.30 Nutrient Application. The application of fertilizers shall be in such a manner as to minimize the transport of its nutrients to waterways and groundwater.

BMP C1.40 Solid Waste Disposal. A waste disposal plan shall be implemented for the construction site addressing the disposal of trees and brush as well as general construction waste. All waste shall be disposed of in an acceptable manner.

BMP C1.80 Spill Control Plan. The construction site supervisor shall adopt an appropriate spill control plan for any hazardous substances used or stored on-site. The plan shall identify an individual responsible should a spill occur. A copy of the plan shall be kept at the job site and shall be available to all personnel.

BMP C2.00 Cleaning of Concrete Trucks and Spraying of Exposed Aggregate Surfaces. Washwater laden with Portland cement shall not be allowed to enter a drainage course. All concrete washwater shall be collected, allowed to dry, and either backfilled or removed from the site and disposed of in an approved manner.

Requirement #14: Maintenance

Erosion and sediment BMP's shall be inspected at regular intervals for damage and sediment accumulation. At a minimum, these facilities shall be inspected weekly and after any runoff-producing rains. Weekly inspections and repairs completed before the job is shut down for the weekend. These inspections shall continue during periods of work stoppage or until permanent cover has been established.

Specific inspection schedules for the various BMP's shall follow the recommendations in Chapter II-5 of the Stormwater Manual. It shall be the Contractors responsibility to keep a copy of this section at the job site for reference.

Requirement #15: Financial Liability

Performance bonds, letters of credit or other appropriate financial instruments which are satisfactory to the local jurisdiction shall be provided to ensure compliance with the approved erosion and sediment control plan.

Permanent Stabilization

NOTE:

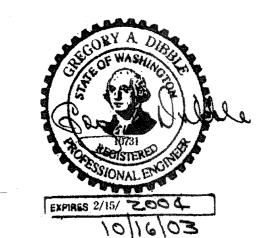
As soon as possible after the final grades are established, all disturbed soils will be stabilized with permanent ground cover to prevent wind and water erosion. Stabilization shall at least follow the guidelines of BMP E1.35 Permanent Seeding and Planting. The landscaping plan should provide additional guidance for the various plantings selected. The landscaping plan shall incorporate the natural preservation of the natural vegetation (BMP E1.25) wherever possible.

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ALL TEMPORARY EROSION MEASURES PER

DOE STANDARDS, CURRENT EDITION, AS

REQUIRED BY THE CITY OF FERNDALE.



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DATE: 10/08/98

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DIBBLE ENGINEERING 600 DUPONT STREET BELLINGHAM, WA 982 (360) 734 1288, FA

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FOR PERMITS