

Land Use Planning Division 1600 SE 190th Ave. Multnomah Portland OR 97233 Phone: 503-988-3043 land.use.planning@multco.us https://multco.us/landuse/

STORMWATER DRAINAGE CONTROL CERTIFICATE >500 SQUARE FEET OF NEW / REPLACED IMPERVIOUS SURFACES

NOTE TO PROPERTY OWNER/APPLICANT: Please have an Oregon Licensed Professional Engineer fill out this Certificate and attach a signed site plan, stamped and signed storm water system details, and stamped and signed storm water calculations used to support the conclusion. Please note that replacement of existing structures does not provide a credit to the square footage threshold.

Property Address or Legal Description: 34002 Mershon Rd. Corbett, OR

Description of Project: <u>Replacement dwelling</u>

The following stormwater drainage control system will be required:

Use of Gutter, downspout, and splash block drainage control system;

Natural Infiltration Process; or

Construction of an on-site storm water drainage control system.

The rate of stormwater runoff attributed to the new/replaced development for a 10-year/24-hour storm event will be no greater than that which existed prior to any development as measured from the property line or from the point of discharge into a water body with the use of the designated system [MCC 39.6235].

I certify the attached signed site plan showing the areas needed for the chosen system type, stamped and signed storm water system design details, and stamped and signed calculations dated 3 27/21, 4/18/21 will meet the requirements listed above.

Signature: buugh funans	Engineer's Stamp Below:
Print Name: David Gorman	
Business Name: Ecological Engineering	US TERED PROFESSION
Address: 2016 SE Henkle Rd., Corbett, OR	hund 12 funa
Phone #: 503-704-6013	OREGON OF
Date: April 27, 2021	CANNO R. GORMAN

NOTE TO ENGINEER: Please check one box above. Multnomah County does not use I Expines? 6/30/2 storm wate ordinance. As part of your review, MCC 39.6235 requires that you must consider all new replaced, and existing structure and impervious areas and determine that the newly generated stormwater from the new or replaced impervious surfaces is in compliance with Multnomah County Code for a 10-year/24-hour storm event. This Storm Water Drainage Control Certificate does not apply to shingle or roof replacement on lawfully established structures.

Storm Water Certificate

Ecological Engineering, LLC Water Resources and Habitat Restoration Engineering

MEMORANDUM

To: Jim Morgan and Barbara Liles, Owners

From: David Gorman, PE, Ecological Engineering, LLC

Date: April 18, 2021

Subject: 34002 Mershon Road, Oregon - Drainage Facility Relocation

The purpose of this memorandum is to modify the location for onsite stormwater management for the proposed replacement dwelling to be located at 34002 Mershon Road, Corbett, Oregon. For all supporting information, analysis, and design related to the stormwater infiltration facility, please refer to the Ecological Engineering memorandum dated March 27, 2020. The design and sizing of the facility has not changed. The Stormwater Drainage Control Certificate prepared by Ecological Engineering and dated March 27, 2020 shall remain valid and applicable for the site and proposed development.

In its review of the proposed onsite sanitary facilities, the City of Portland indicated a potential conflict between the proposed stormwater infiltration facility and the proposed sanitary drain field and replacement drain field. The conflict can be eliminated by moving the stormwater infiltration facility 70 feet south to a location that places it down slope from the sanitary drain field a distance of 50 feet and upslope from the replacement drain field a distance of 50 feet. The stormwater infiltration facility will have a 10-foot setback from the property line. See the attached site map to view the revised layout.

With this memorandum, Ecological Engineering modifies the design of the stormwater infiltration facility to a location that is 70 feet south of the location currently shown on the plans, with a 10-foot setback from the property line to the west. The soils in both locations are Mershon Silt Loam. I certify that, due to the fact that the soils and soil characteristics in the proposed new location for the facility are the same as those soils and characteristics in the originally presented location, all facility design and sizing remains valid. The NRCS Soil Survey map and legend for the site is attached for reference.

The proposed stormwater infiltration facility will function as designed in the revised location.







USDA Natural Resources

Conservation Service

	MAP LEGEND		1	MAP INFORMATION	
Area of Int Soils Area of Int Soils Special Special	MAP L erest (AOI) Area of Interest (AOI) Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Points Point Features Blowout Borrow Pit Clay Spot	EGEND	Spoil Area Stony Spot Very Stony Spot Wet Spot Other Special Line Features atures Streams and Canals	MAP INFORMATION The soil surveys that comprise your AOI were mapped at 1:20,000. Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale. Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service	
× ◇ X: : ◎ ∧ 4	Closed Depression Gravel Pit Gravelly Spot Landfill Lava Flow Marsh or swamp Mine or Quarry Miscellaneous Water Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip Sodic Spot	H A Backgrou	Rails Interstate Highways US Routes Major Roads Local Roads Ind Aerial Photography	 Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Soil Survey Area: Multnomah County Area, Oregon Survey Area Data: Version 18, Jun 11, 2020 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Jul 2, 2015—Sep 21, 2016 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. 	



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
27В	Mershon silt loam, 0 to 8 percent slopes	10.8	68.4%
27C	Mershon silt loam, 8 to 15 percent slopes	5.0	31.6%
Totals for Area of Interest		15.8	100.0%

