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July 19, 2019

Washington 9 MK & S Investments
70222 E Mercer Way
Mercer Island, WA 98040

Drainage Plan – SWPP Report
Proposed Residence
4825 E Mercer Way
Mercer Island, Washington
PN: 2162000070
Job: 19-104 Hou.SWPP.doc

PROJECT CERTIFICATION

"I hereby state that this Construction Stormwater Pollution Prevention Plan for the Kondrauk residence has been prepared by me or under my supervision and meets the standard of care and expertise which is usual and customary in this community for professional engineers. I understand that Pierce County does not and will not assume liability for the sufficiency, suitability, or performance of Construction SWPPP BMPs prepared by me".

PROJECT DESCRIPTION

We are pleased to submit this "Drainage Plan" and SWPPP report for the proposed residence to be located at 4825 E Mercer Way in the City of Mercer Island, Washington. The site is currently undeveloped and appears to be forested. Based on our site visit and the plans our office has received, you intend to construct a single-family residence onsite with an access stemming from East Mercer Way. The proposed residence will measure 1,850 sqft in total roof area and the proposed driveway will measure 950 sqft for a total added impervious area of 2,800 sqft.

Specifically, the 13 elements have been addressed as follows;

1. *Mark Clearing Limits:* The clearing limits have been clearly shown on the engineered plan sheet C-1
2. *Establish Construction Access:* The construction access has been clearly shown on the engineered plan sheet C-1
3. *Control Flow Rates:* This will be accomplished through the provided erosion control plan and the permanent drainage system.
4. *Install Sediment Controls:* The provided plans include the location and appropriate notes and details for a Silt Fence BMP C233, Construction Entrance BMP C105, Mulching C121 and other erosion control methods.
5. *Stabilize Soils:* The limited amount of site disturbance and the nature of the project as a residence limit the opportunity for exposed soils. Temporary site stabilization will include mulching, with final site stabilization including amended soils, permanent landscaping, and driveway surfacing. BMPs to be used will include but not necessarily be limited to C120: Temporary and Permanent Seeding, C121: Mulching, C123: Plastic Covering, C124: Sodding, and C125 Topsoiling.
6. *Protect Slopes:* Slopes will be protected by using temporary and permanent seeding as well as mulching.

7. *Protect Drain Inlets:* There are no drain inlets to be protected.
8. *Stabilize Channels and Outlets:* This is not applicable to this project.
9. *Control Pollutants:* This is a single-family residential project; it is expected that there will be limited opportunity for construction pollution to be present on site. Contractors will be required to follow standard procedures concerning site cleanup, material storage etc.
10. *Control Dewatering:* This is not expected to be required for this project.
11. *Maintain BMPs:* It will be the owners and contractor's responsibility to maintain the installed BMPs and to maintain a clean and safe work site. Appropriate notes and details are included on the referenced plan sheets.
12. *Manage the Project:* It will be the owners and contractor's responsibility to manage the project. Again, due to the limited amount of clearing and nature of the project, it is expected that a minimal amount of effort will be required to manage the site construction stormwater.
13. *Protect Low Impact Development BMPs:* The infiltration trench will be put in service at the end of the project once the site is stabilized, see construction sequence.

CONSTRUCTION PHASING

No phasing is anticipated for this project.

CONSTRUCTION SCHEDULE

The following represents the proposed construction sequence, which is also listed on the Engineered Plan sheet C-0.

1. FLAG CLEARING LIMITS AS SHOWN.
2. INSTALL TEMPORARY QUARRY ROCK CONSTRUCTION ENTRANCE.
3. INSTALL FILTER FENCE. CLEAR AND GRUB SITE. INSTALL TEMPORARY EROSION CONTROL MEASURES (SILT FENCE) AS CONSTRUCTION ACTIVITIES PROGRESS. ADDITIONAL FILTER FENCE MAY BE REQUIRED AROUND THE PERIMETER TO PREVENT SILT LADEN WATER FROM LEAVING THE SITE.
4. ANY AREA STRIPPED OF VEGETATION, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 7 DAYS (2 DAYS DURING WET SEASON), SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED EROSION & SEDIMENT CONTROL METHODS, (E.G., SEEDING, MULCHING, NETTING, EROSION & SEDIMENT CONTROL METHODS.)
5. ROUGH GRADE SITE, CONSTRUCT RESIDENCE AND DRIVEWAY.
6. HYDROSEED AND MULCH AND AMMEND ALL EXPOSED AREAS.
7. REMOVE TEMPORARY EROSION CONTROL FACILITIES, ONLY, AFTER ENTIRE SITE IS STABILIZED AND THE POTENTIAL FOR EROSION HAS PASSED.
8. CLEAN ANY SILT THAT HAS ACCUMULATED IN THE PERMANENT STORM DRAINAGE SYSTEM.

FINANCIAL/OWNERSHIP RESPONSIBILITY

The property owner is ultimately relying on the Contractor and their subs to follow and implement appropriate BMPs to prevent sediment from leaving the site. For this project, it is anticipated that there will be limited opportunities for sediment transport to occur. No bonds or other financial securities are expected.

We trust this is sufficient for your current needs. Should you have any questions, or require additional information, please contact us at your earliest convenience.

Respectfully submitted,

Development Engineering, PLLC



Glen Coad, PE
Owner