EASTSIDE CONSULTANTS, INC. ENGINEERS-SURVEYORS
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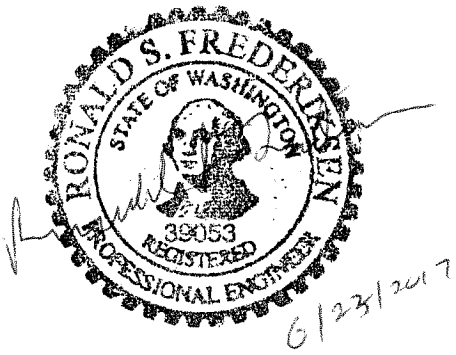
TECHNICAL INFORMATION REPORT

FOR

6059 77th Ave SE

Eastside Consultants, Inc. File No. 17090

June 23, 2017



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PROJECT SITE DESCRIPTION

The project consists of removing 743 sf of garage, a 1,422 sf driveway, and 2,039 sf of pavement for a total of 3,454 sf of existng impervious and replacing it with 1,289 sf of garage and 1,049 sf of driveway. This results in a net decrease of 1,866 sf of impervious for a total of 7,798 sf of impervious.

The project parcel is located on the western side of Mercer Island and will be directly discharging stormwater runoff through the existing bulkhead into Lake Washington.

The physical location of the site is 6059 77th Ave SE in Mercer Island, WA. There is single family residences to the north and south. 77th Ave SE borders the site to the east and Lake Washington borders the site to the west.

The runoff will primarily sheetflow off the roof into gutters and be transported via downspouts to a tighline to Lake Washington. The proposed driveway will be conveyed to a catch basin and tighlined to the outfall.

HYDROLOGIC CONDITIONS

A. Existing Runoff Conditions

The project consists of removing 743 sf of garage, a 1,422 sf driveway, and 2,039 sf of pavement for a total of 3,454 sf removed. Based on the City of Mercer Island Code, the existing runoff conditions were analyzed per the 1992 DOE Manual.

B. Proposed Runoff Conditions

The proposed development includes a new 1,289 sf garage addition, 1,049 sf of driveway. The drainage patterns for the proposed development will be to pick-up the roof in gutters and downspouts and discharge it directly to Lake Washington. The driveway will be picked up in a catch basin and directly discharge into Lake Washington.

OFF-SITE ANALYSIS

The site discharges directly to Lake Washington.

ADHERENCE TO 2014 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON MINIMUM TECHNICAL REQUIREMENTS 1-9

1. Minimum Requirement #1: Preparation of Stormwater Site Plans

A set of civil plans have been prepared and included with this submittal.

2. Minimum Requirement #2: Construction Stormwater Pollution Prevention

All exposed soils shall be either hydroseeded, sodded, mulched, covered with a plastic coating, or application of ground base on areas to be paved within the following time periods listed below. From October 1 through April 30, no soils shall remain exposed for more than 2 days. From May 1 through September 30, no soils shall remain exposed for more than 7 days.

Bmp's shall be siutable for the appropriate time of year construction takes place. These shall include but not limited to silt fence, catchbasin inserts, strawbale and rock checkdams, nad interceptor trenches.

Permanent catch basins used during the construction phase of the project will be protected using filter fabric barriers under the grate. These will be routinely replaced to prevent plugging.

All underground utility construction guidelines will be complied with according to erosion and sediment control requirement # 9.

A construction entrance will be established using quarry spalls. All temporary BMPs will be removed within 30 days after final site stabilization is complete.

All dewatering onsite will be detained in a temporary detention pond before entering any pipe.

All temporary and permanent control measures will be properly maintained and repaired as needed to assure proper performance measures. The contractor shall be bonded to assure compliance with the sediment and control plan.

3. Minimum Requirement #3: Source Control of Pollution

The main source of pollution in this project will be automobile oils and grease. Since the impact of this will be insignificant, no measures will be taken.

4. Minimum Requirement #4: Preservation of Natural Drainage Systems and Outfalls

Drainage from the proposed site will dischrge directly into Lake Washington. The proposed driveway will be directly discharged to Lake Washington since it is less than 5,000 sf. The stormwater is discharged in the natural downstream direction which enters Lake Washington.

5. Minimum Requirement #5: On-site Stormwater Management

Not Applicable

6. Minimum Requirement #6: Runoff Treatment

Not Applicable

7. Minimum Requirement #7: Flow Control

Not Applicable

8. Minimum Requirement #8: Wetlands Protection

Not Applicable

9. Minimum Requirement #9: Operation and Maintenance

Annual maintenance shall be performed on the catch basin.