

December 11, 2017

Mr. Benny Kim AIA Benny Kim and Lydia Design 7415 Lake Ballinger Way Edmonds, WA 98026

Re: 8114 W Mercer Way, Mercer Island, WA (Lot 3B) – Field Verification to Verify the Water Source at the Beginning of Drainage Pipe System at East End of Lake View Lane Draining to Lot 3B North and South Property Lines as Shown on the Mercer Island Watercourse Map.

To Whom It May Concern:

City of Mercer Island is requesting additional field verification documentations demonstrating that the pipe system does not convey naturally occurring surface runoff at the upstream of the pipe drainage system. This letter is to supplement the document prepared by C2MY Engineers, LLC dated November 27, 2017 for the verification of Source of Water.

A field visit was conducted on December 5, 2017 at 1 pm. The weather was sunny and 50° F. The beginning of the drainage pipe system is located at the catch basin at Lake View Lane in front of the single-family house number 7939 (Lot 4 of Dacres Short Plat). The catch basin collects pavement runoff from Lake View Lane and drains easterly approximately 108 l.f. through an 8" CMP to a Type 2 catch basin located at the hammer head turn around, a dead-end street. There is a 4" PVC in concrete sleeve connected to the catch basin running in northeast direction to the single-family house number 7942 (Lot 1 of Dacres Short Plat). This 4" PVC pipe collects the rockery wall footing drain at the north side of Lake View Lane/property line of Lot 1. There is no open channel, swale, ditch or any other pipe entering the catch basin. Please refer to photos 1 to 4.

The watercourse route as indicated on Mercer Island Water Course Map does not exist. The route is covered by driveway with concrete retaining wall of singlefamily house number 7934, west of Lot 1 and yard block retaining wall of Lot 1 Please refer to photos 6 - 8 for upstream view of catch basin.



Based on these field information, it is in our professional opinion that the upstream of the mapped piped water course does not consist of any natural channel with a bed, banks or sides to the upstream of the drainage system.

If you have any comments or questions, please do not hesitate to contact us.

Sincerely,

C2MY Engineers, LLC.

Choomeng Chin, P.E. Principal

Attachments: Existing catch basin photos Upstream CB view photos







1 - Upstream Existing CB



2 - Existing CB 8" CMP Outlet



<u>3 - Existing CB 4" PVC Inlet Rockery</u> Wall Drain



4 - Existing CB - 4" PVC Inlet Rockery Wall Drain Direction





5 - Existing CB Upstream, Looking Direct North



6 - Existing CB Downstream, Looking East.



7 - View of Upstream per Watercourse Map North Direction (House No. 7934)



8 - View of Upstream per Watercourse Map North Direction (Closeup)





November 27, 2017

Mr. Benny Kim AIA Benny Kim and Lydia Design 7415 Lake Ballinger Way Edmonds, WA 98026

Re: 8122 W Mercer Way, Mercer Island, WA (Lot 3B) – Source of Water Verification at the North and South Property Lines as Shown on the Mercer Island Watercourse Map.

To Whom It May Concern:

The Mercer Island Watercourse Map indicates a mapped piped water course located on the west and south property of the subject property. City of Mercer Island is requesting documentations demonstrating that the pipe system does not convey naturally occurring surface or ground water.

The location of the watercourse consists of manmade pipes from 8" to 12" ø CMP for drainage and 6" ø PVC and DI pipes for side sewer services. The manmade pipes were created as part of the drainage system with detention when the site was subdivided per the Dacres Short Plat (SP No. M.I.-85-12-19 (J-3), Road and Utility Plan dated November 1985 and approved by City of Mercer Island dated April 1, 1987, see the Road and Utility Plan attached.

Based on the approved plan, the manmade pipes were installed to serve Lots 1, 2, 3, 4 and roadway drainage as well as Lot 4A above this subject property Lot 3B. The Road and Utility Plan clearly indicated the drainage service stubs to each of the 4 lots and lot 4A with 4" ø PVC lot drains and catch basins for the roadway drainage. The drainage system flows along the west property line and then turns to south property line of Lot 3B within the recorded 10' wide utility easement. It then enters into the 104 I.f., 72" ø detention tank located under the access driveway at the south side of Lot 3A. The detention tank discharges into a 12" ø CMP between Lot 1 and 2, south of Lots 3B and 3A.

Based on the as-built record drainage design and the other information available as discussed, it is in our professional opinion that the water source from the mapped water course does not receive naturally occurring surface or ground water. Furthermore, naturally occurring surface and ground water do not require detention before discharging.

If you have any comments or questions, please do not hesitate to contact us.

Sincerely,

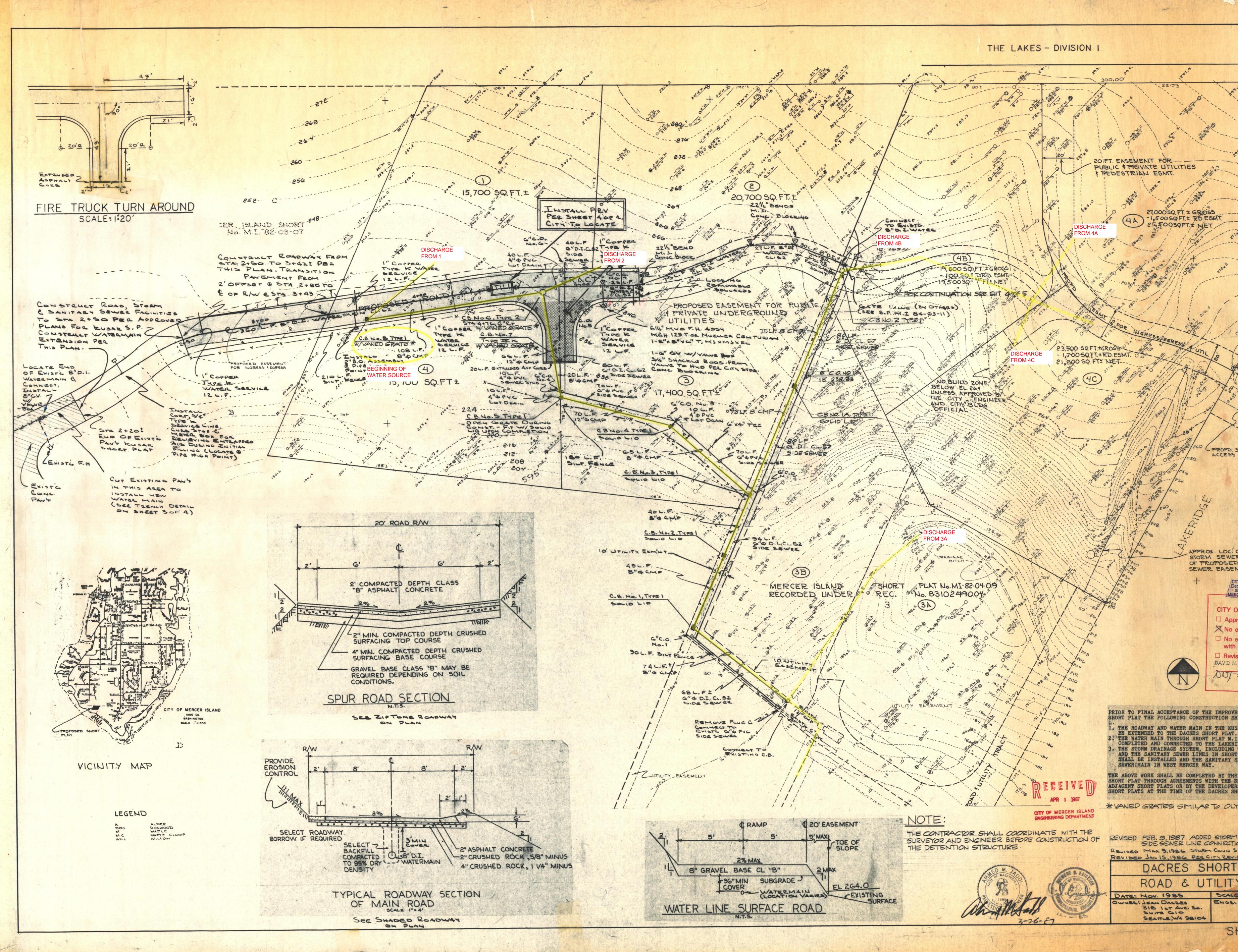
C2MY Engineers, LLC.

Choomeng Chin, P.E. Principal

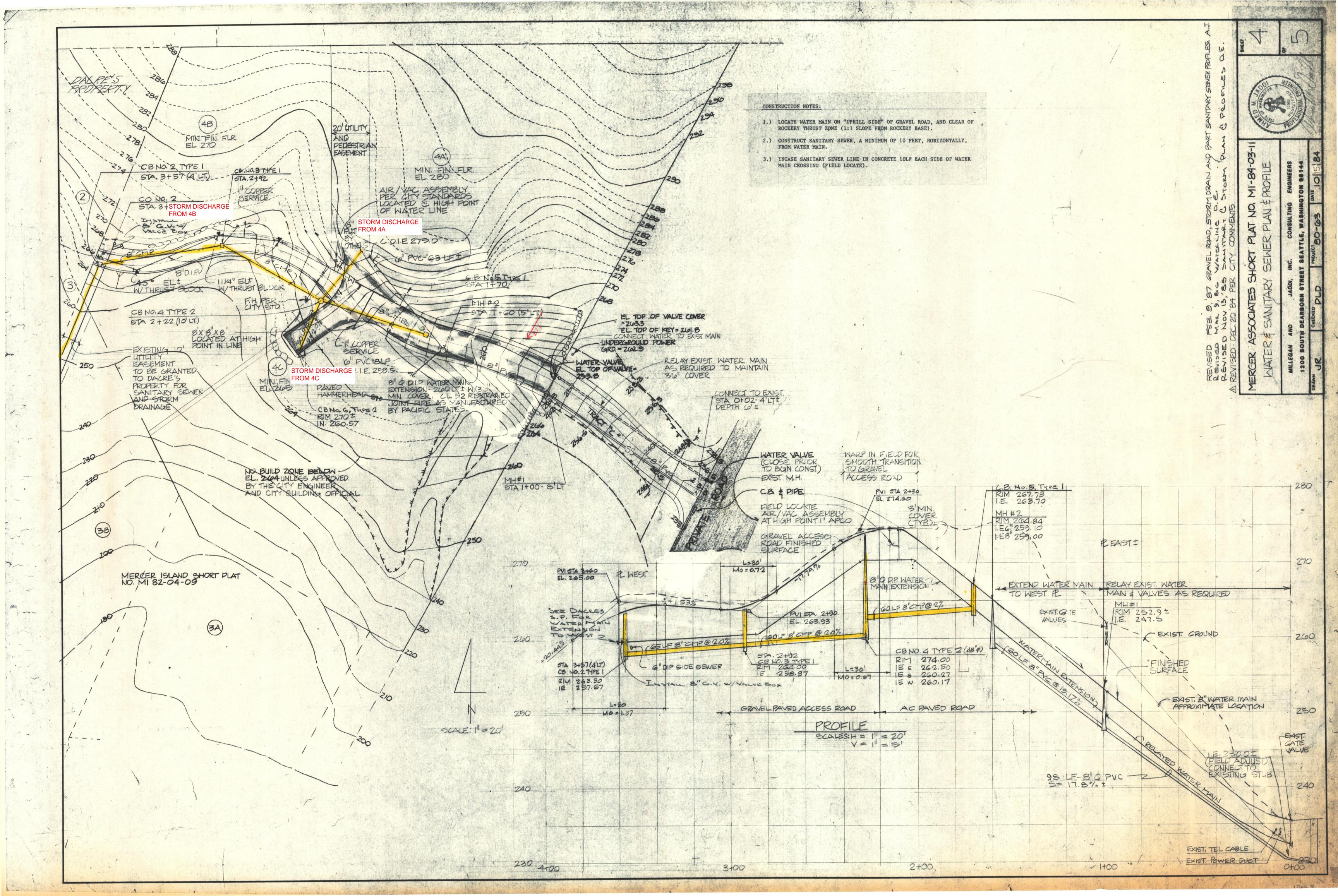


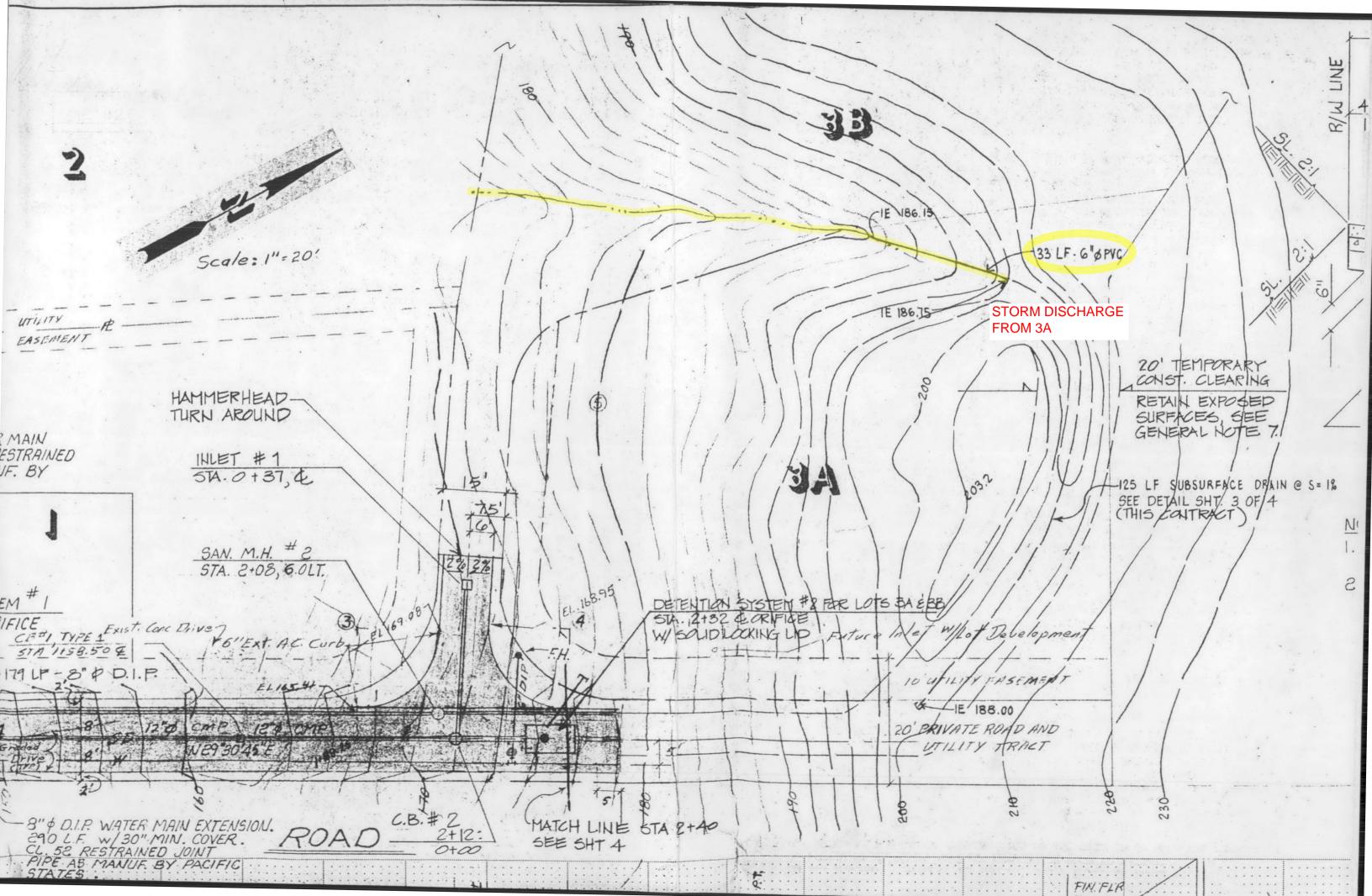
Attachments: Dacres Short Plat – Road and Utility Plans Dacres Recorded Plat Detention System Information.

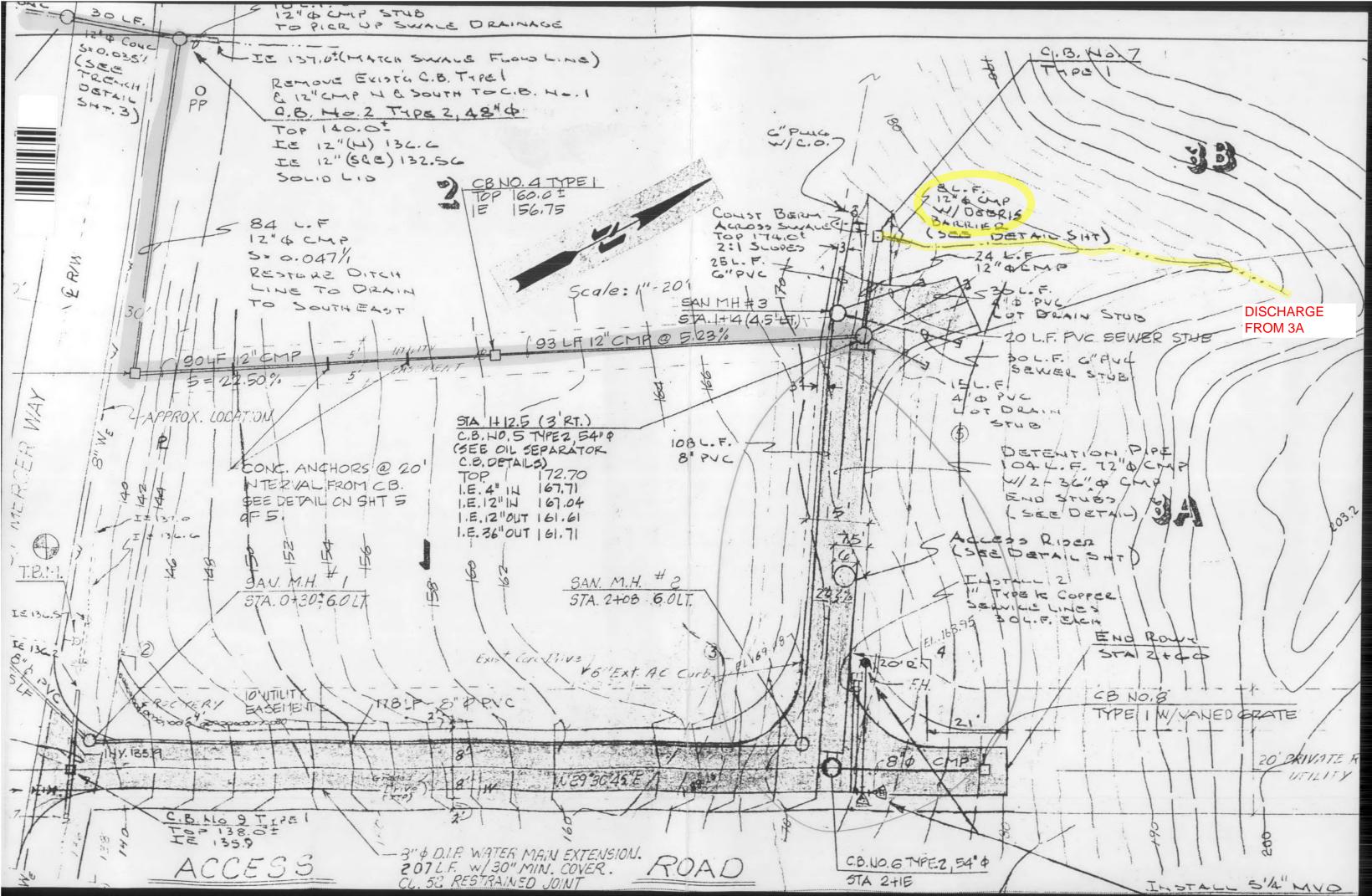




1,500 SQ FT + GROSS UNDERGI GRD. = 26 Z WATER VALVE PROPD. 30-FOOT ACCESS ESMT APPROX. LOC. OF PROPOSED STORM SEWER LINE AND & OF PROPOSED 10'STORM SEWER EASEMENT CITY OF MERCER ISLAND Department of Engineering 3505 • 88th Ave. S. E. MERCER ISLAND, WA 98040 CITY OF MERCER ISLAN Approved X No exception taken No exception taken with corrections shown Revise & Resubmit DAVID N. TORGESON PRIOR TO FINAL ACCEPTANCE OF THE IMPROVEMENTS IN THE DACRES SHORT PLAT THE FOLLOWING CONSTRUCTION SHALL BE COMPLETED: THE ROADWAY AND WATER MAIN IN THE KUSAK SHORT PLAT SHALL THE WATER MAIN THROUGH SHORT PLAT M.I. 84-03-11 SHALL BE COMPLETED AND CONNECTED TO THE LAKERIDGE WATER SYSTEM. THE STORM DRAINAGE SYSTEM, INCLUDING THE DETENTION SYSTEM AND THE SANITARY SEWER LINES IN SHORT PLAT M.I. 82-04-09 SHALL BE INSTALLED AND THE SANITARY SEWER CONNECTED TO TH THE ABOVE WORK SHALL BE COMPLETED BY THE DEVELOPERS OF DACRES ORT PLAT THROUGH AGREEMENTS WITH THE DEVELOPERS OF THE ADJACENT SHORT PLATS OR BY THE DEVELOPERS OF THE ADJACENT HORT PLATS AT THE TIME OF THE DACRES SHORT PLAT CONSTRUCTION * VANED GRATES SIMILAR TO OLYMPIC SMGOV. REVISED FEB. 9, 1987 ADDED STORM DRAIN AND SIDE SEWER LINE CONNECTION. A.J. REVISED MAR 9,1986 STORM CONN SP 82.04.09 D.E. REVISED JAN 15, 1986 PER CITY REVIEW D.E. DACRES SHORT PLAT ROAD & UTILITY PLAN SCALE: 11 20' ENGE DEL ERICESON 15020 S.E. 46TH BELLEVUE, WA Tel: 747-5825 SHEET I OF 4









Location: 8114 West Mercer Way Date of Photo: Oct 16, 2012 Page 1 of 14

