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MEETING NOTES

Attendees:	Company:
Michael Bateman	City of Poulsbo
Marla Powers	City of Poulsbo
Chad Wallin	Grette Associates
Nam Siu	WDFW
Joanne Bartlett	Ecological Land Services
Berni Kenworthy	Axis Land Consulting
Juliet Nolan	KPFF
Jeremy Febus	KPFF

Not Attending but cc'd:	Company:
Alison Osullivan	Suquamish Tribe
Diane Lenius	City of Poulsbo
Mark Perkoski	Edward Rose
Russ Redmer	Edward Rose
Joe Neuzil	KPFF

Date:	Jan 22, 2021
Project:	Oslo Bay Apartments
Subject:	Stormwater Pond Outfalls
Mtg. Place:	On-Site Walk

Overview

These notes are intended to summarize the findings and conclusions of the cooperative applicant and public agency field walk of the proposed pond outfalls. The goal of this meeting was to solicit public agency input early in the construction design and review process. The applicant will subsequently provide plans, sections, details and reports to support the design proposal.

The development proposes two major stormwater mitigation facilities referred to simply as the "East Pond" and "West Pond". An exhibit from the project entitlement TIR is shown on the next page just for reference. Based on earlier discussions with City of Poulsbo Staff and with Suquamish Tribal Fisheries, we have developed a concept whereby high-frequency low flows from the pond outfall are directed to the headwater of the downstream natural drainage; were-as infrequent high-flows bypass to the man-made conveyance at the edge of SR-305. This is primarily what was reviewed in person on-site.

We visited first the East Pond and then the West Pond low flow outfalls, and so notes are listed below in that order.

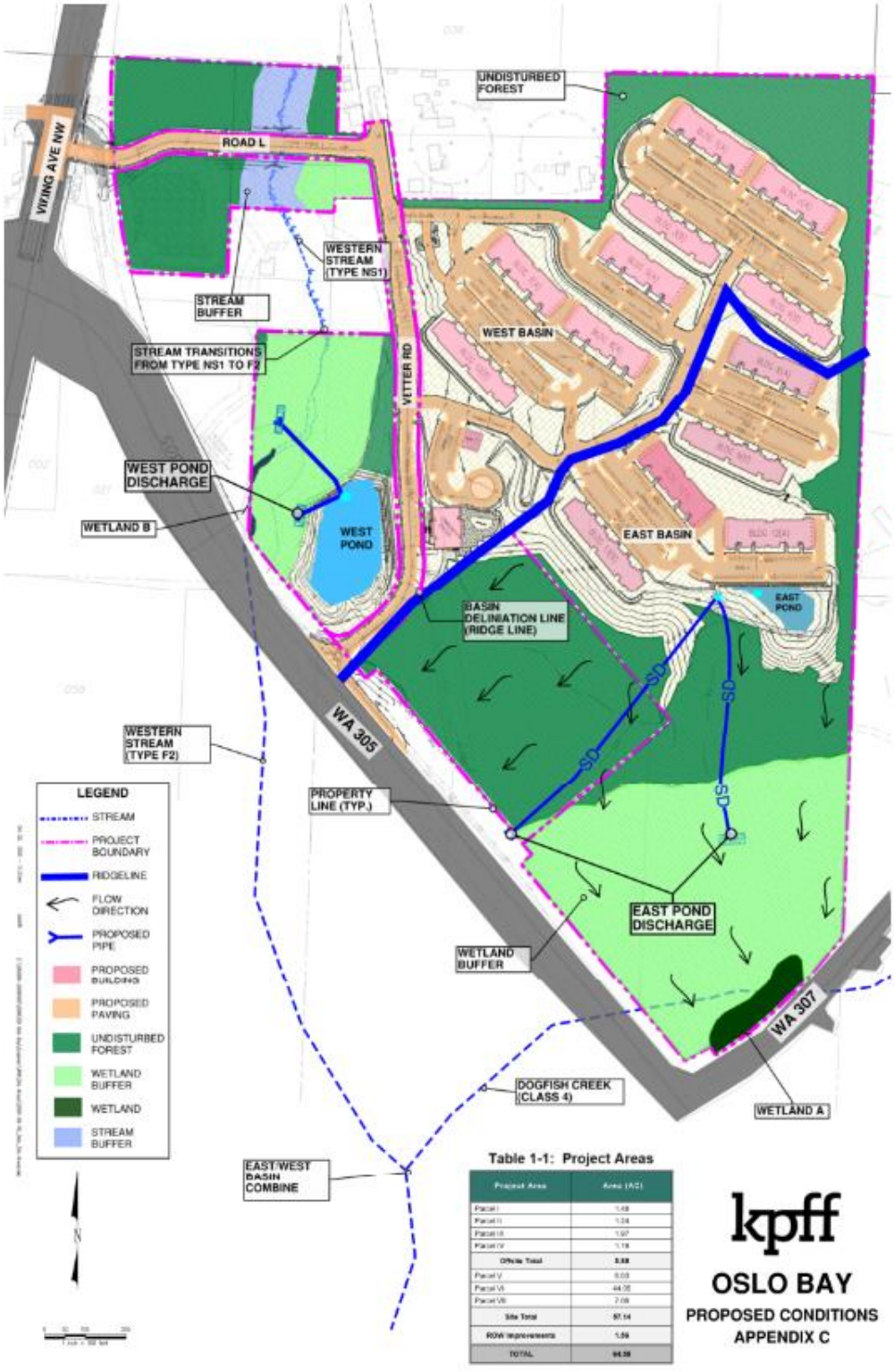

Figure: Excerpt From TIR for Reference

East Pond

The low flow outfall to Wetland A is proposed to occur through an overland, smooth-welded HDPE pipe laid on the ground surface. The general area of the outfall is a low-sloping draw in the topography with thick native vegetation (see figure below). The feedback from WDFW and the City was that the general area, ground cover and topography were appropriate for a dissipated low-flow discharge. WDFW requested that the outfall be at the edge of the Wetland A buffer without encroaching in to it. KPFF communicated an engineering preference for an armored culvert outfall as opposed to a dissipater pipe or trench based on record of performance issues with pipe and trench dissipaters. WDFW communicated strong preference for a dissipater, and Eco-Land suggested a past approach of an in-line dissipater (see figure next page) that has been acceptable to WDFW and Suquamish Fisheries. KPFF, WDFW, and the City expressed support in concept.

Figure: East Pond Low Flow Outlet Area

Figure: Example of in-line dissipater from Bennett's Addition in Silverdale (provided by Eco-Land)

West Pond

The low flow outfall to the un-named on-site stream and Wetland B is similarly proposed to occur through an overland, smooth-welded HDPE pipe laid on the ground surface. In this case the project is proposing an outfall to the stream edge. WDFW expressed concern regarding discharge directly to the stream and requested that the project discharge ideally 10-15 feet from the edge of stream. Based on observed vegetation and topography, the group also discussed and generally agreed in concept that the outfall location would be better suited 20-30 feet north of the location staked in the field. This was due to the fact that the topography broke to a gentler slope a little farther from the stream edge. The attendees discussed the nature of the outfall, and generally agreed in concept that it should be an in-line dissipater as discussed above.

Figure: West Pond Low Flow Outlet Area Near Stream and Wetland B