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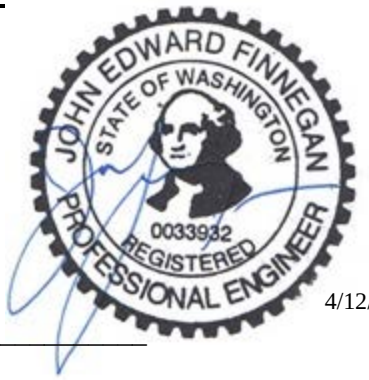
TECHNICAL MEMORANDUM
To: Mike T. Kinney
Sundance Meadows, LLC.
From: Jason Pritzl, LG, and
John Finnegan, PE
Date: April 12, 2022
Project: S201056 Sundance Meadows
Subject: Reclaimed asphalt pavement



4/12/2022

This memorandum addresses subgrade observation in excavations by Eller Construction within proposed road alignment "Q" for the housing development.

The proposed alignment has been extended approximately 500 feet west past Station 10+00.[1] The contractor incorporated reclaimed asphalt pavement (RAP) into the road embankment fill. Asphalt pavement was reclaimed - from demolition of cart paths and the golf course club-house parking lot. We understand there are concerns about the presence of RAP potentially causing settlement.

Encountered Conditions

We visited the site on April 8, 2022. Utilities were not yet installed. The contractor used a Volvo EC160 track-mounted excavator to dig test pits in six locations in the alignment. Existing grade elevations ranged from approximately 1,665 to 1,666 feet; existing grade was approximately 3 feet lower than proposed final grade. Subgrade soil consisted of sand with silt, gravel, and cobbles.

RAP was observed in the excavations beginning approximately 3 feet below existing grade (BEG). RAP was incorporated into sandy soil, and extended to a maximum depth of 5 feet BEG. RAP particles ranged in thickness from approximately 2 to 3 inches; the maximum long dimension observed was 11 inches. Soil appeared to be dense, consistent with earthwork special inspection results.[2] Voids in the subgrade were not observed.

Discussion

RAP appeared to have been well broken-up and distributed across the fill by the contractor for use as fill. We did not observe large, concentrated slabs or nested asphalt fragments in excavations that could otherwise result in creation of void spaces and lead to potential subsidence. RAP incorporated into the fill soil does not pose a subsidence or differential settlement risk to the roadway and utilities, in our opinion.

[1] Stationing and alignment based on plans from WCE dated 8/27/20.
[2] Earthwork special inspection being completed by BAI and reported separately.

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