Ann Machado - OGT Pier 2 Catwalk - Bottom Elevation Determination

From: Nicholas Ray < nicholas@tecassoc.com>

To: William Needelman < WBN@portlandmaine.gov>

Date: 1/5/2015 12:11 PM

Subject: OGT Pier 2 Catwalk - Bottom Elevation Determination

Bill,

I got your voicemail in regards to how the bottom elevation of the catwalk was determined.

The City of Portland requires that any new construction of any bridge in Zone VE shall be designed such that the lowest horizontal member is elevated to at least two (2) feet above the base flood elevation.

The OGT Pier that the catwalk will be constructed on is located in a coastal flood zone with velocity hazard (wave action) with a designation of Zone VE (EL 13). This denotes that the base flood elevation (BFE) in this area is 13.0' NAVD88.

The conversion value between NAVD88 and MLLW is 4.94' for Casco Bay. With this value, the elevation of 13.0' given on the Flood Elevation Map, and the 2.0' above BFE required by the City, this gives a bottom elevation of 13.0' + 2.0' + 4.94' = 19.94' MLLW.

Please let me know if you have any questions or would like to discuss this further.

Thank you,

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