



Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Item 5F. Receive Information on Application of Atlas 14 Flood Levels to Blue Line LRT Project
BCWMC December 15, 2016 Meeting Agenda
Date: December 8, 2016

5F. Receive Information on Application of Atlas 14 Flood Levels to Blue Line LRT Project

Recommendations

- Information only

Background

At their January 2017 meeting, the Commission will hear the results of the BCWMC's watershed-wide XP-SWMM model, which will include changes to flood levels resulting from Atlas 14. The Commission Engineer has been in discussions with Blue Line LRT staff regarding appropriate flood elevations along the route. Preliminary (uncalibrated) Atlas 14 XP-SWMM model results indicate Bassett Creek flood levels are ½ foot higher than current (TP 40) flood levels along the portion of the route just north of Highway 55. The Blue Line LRT plan will come before the Commission later in the summer of 2017, after the new Atlas 14 flood levels are likely adopted by the Commission. Therefore, the Blue Line LRT project will use the BCWMC's preliminary Atlas 14 flood elevations in their project design. Early indications are that although there should not be issues with floodplain fill/mitigation due to the higher flood elevations, there are a couple of locations (pedestrian bridge at Plymouth Avenue and bridge over the old channel) where the Blue Line LRT may not be able to meet the Commission requirements regarding elevation of crossings above the flood elevation. As a result, there may be variance requests at these locations when the Blue Line LRT plans are submitted to the BCWMC for formal review.

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