SUMMARY OF FLOODPLAIN IMPACTS

Date: August 6, 2019

Project ID: PID 106406 FRA-104-4.43

Floodplain Affected: Scioto River

Description of Project: Widen SR 104 at White Road (CR 134) to provide a northbound left turn lane. Extend culvert to the north (SLM 4.81). Resurface to alleviate MOT scaring between SLM 4.23 and 4.85.

Why must this project be located in the Floodplain?
The existing culvert, located at SLM 4.81, is a 6’ x 7’ stone arch that conveys flow east to the Scioto River. The replacement of this culvert cannot be accomplished without being within the floodplain.

What alternative sites were considered, if any?
Alternative sites were not considered as this culvert is being replaced to maintain the conveyance of stormwater runoff and the traffic on SR 104.

Were any mitigation measures utilized on this project? If so, please describe.
Normal design criteria (NDC) grading will be implemented at the culvert. The typical section will include the northbound and southbound travel lanes, 8.0’ paved shoulders and 5.0’ of grading at a 6:1 slope before breaking into a 2:1 slope down to the proposed culvert headwall. Additionally, guardrail is proposed to be placed 10.0’ beyond the edge of travel way. Using this typical cross section at the culvert, this will yield a culvert length of 82.0’ which minimizes impacts to the existing channel (i.e. clear zone grading at the proposed culvert would yield a culvert length of 114.0’; resulting in additional impacts within the floodplain).

To the best of my knowledge, this project has complied with all applicable Local, State, and Federal Floodplain protection standards.

Print Name: Cory R. Lamb

Signature: Cory R. Lamb

Title: ASSOCIATE VICE PRESIDENT