

WSF 2021 Annual Report #5253

DMR Section 205 Flood Reduction Project

Project Progress

This is the second annual report. This report covers all activity from April 2020-April 2021. The building of the concrete flume by Dr. Admiral and the UNL engineering department continues to take place. Coivid-19 and some remodeling of the lab at UNL have caused some delays. They hope to be able to run some flows late this summer to simulate the storm events that happen near the Burlington Northern Bridge. FYRA engineering continues to model the detention basin that is located near UNL ball fields that would detain and delay some of the flows from the peak discharges on DMR. The COE is awaiting empirical results from the flume physical model to complete the hydrologic and hydraulic numerical modeling of the project. The COE continues to survey DMR so land right acquisition maps can be prepared, and survey data can be used to optimize the channel width from 48th to Cornhusker Road.

Local Sponsor Progress

The LPSNRD and the City of Lincoln have hired FYRA engineering to model the basin and verify the need for certain project features such as the detention basin and some additional modeling of DMR basin. This work hope to be wrapped up this fall so 60% percent plans and specifications can be provided by the COE for the sponsor's review later this year and in early 2022. WSP continues to design the three bridges ,33rd street, Huntington St bridge on UNL East campus, and the 48th street bridge.

2020-2021 WSF Budget

Design of the 48 th St, 33 Rd Street, and Huntington Bridges =	\$ 43,000.00
Completion of Modeling the Detention Basin to Maximize its size=	<u>\$184,000.00</u>
Total	\$ 227,000.00

WSF portion of local dollars for the next year is $\$227,000 \times 60\% = \mathbf{\$136,200.00}$

Submitted by Mike Murren *Michael J Murren* Sent 4/11/22