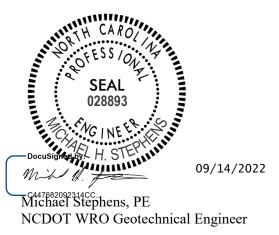


## STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

Roy Cooper Governor	J. ERIC BOYETTE Secretary
September 14, 2022	
MEMORANDUM TO:	David Stutts, PE Project Engineer - PEF/Program Mgt.
ATTENTION:	Hoang T. Dieu, PE Team Leader - Project Mgt/PS&E
FROM:	John Pilipchuk, LG, PE State Geotechnical Engineer
STATE PROJECT: COUNTY: DESCRIPTION:	48063.1.FR1 (B-5869) Burke Replace Bridge No. 110099 on US 64/US70 (Fleming Drive) over Southern Railroad
SUBJECT:	Geotechnical Report – 1.5:1 (H:V) End Slope Evaluation

The Geotechnical Engineering Unit presents the attached slope analysis for the proposed 1.5:1 (H:V) bridge end slopes located within Railroad Right of Way. Slope stability analysis was performed at End Bent 1, which represents the worst-case scenario within the Railroad Right of Way. The analysis yields a Factor of Safety of 1.5, which is acceptable.

Respectfully Submitted,



Attachments: End Bent Slope Stability Analysis

*Telephone:* (919) 707-6850 *Customer Service:* 1-877-368-4968 *Location:* 1020 BIRCH RIDGE DRIVE RALEIGH, NC 27610

Website: www.ncdot.gov

