

Stantec Consulting Services Inc.

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September 21, 2018 File: 175527006

Attention: Thomas J. Powell, PE
District Design Engineer
Ohio Department of Transportation, District 4
Planning & Engineering Administration
2088 S. Arlington Road
Akron, Oh 43306

Dear Mr. Powell,

Reference: Addendum to Report of Geohazard Exploration – SUM-271-8.87 – PID: 103930 - FINAL Summit County, Ohio

The following addendum includes the updated slope stability analyses based on the additional survey provided by ODOT-District 4. It should be noted that the back calculated effective phi angle for the existing embankment fill material decreased from 22.9 degrees to 20.7 degrees. The change in the phi angle was a result of the additional survey data that was not provided at the initial exploration stage of this project. We appreciate the opportunity to provide you with these services, and please do not hesitate to contact us with any questions or comments.

Regards,

STANTEC CONSULTING SERVICES INC.

Ellist Magoto

Elliot Magoto, PE Geotechnical Engineer

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Rich Williams, PhD, PE

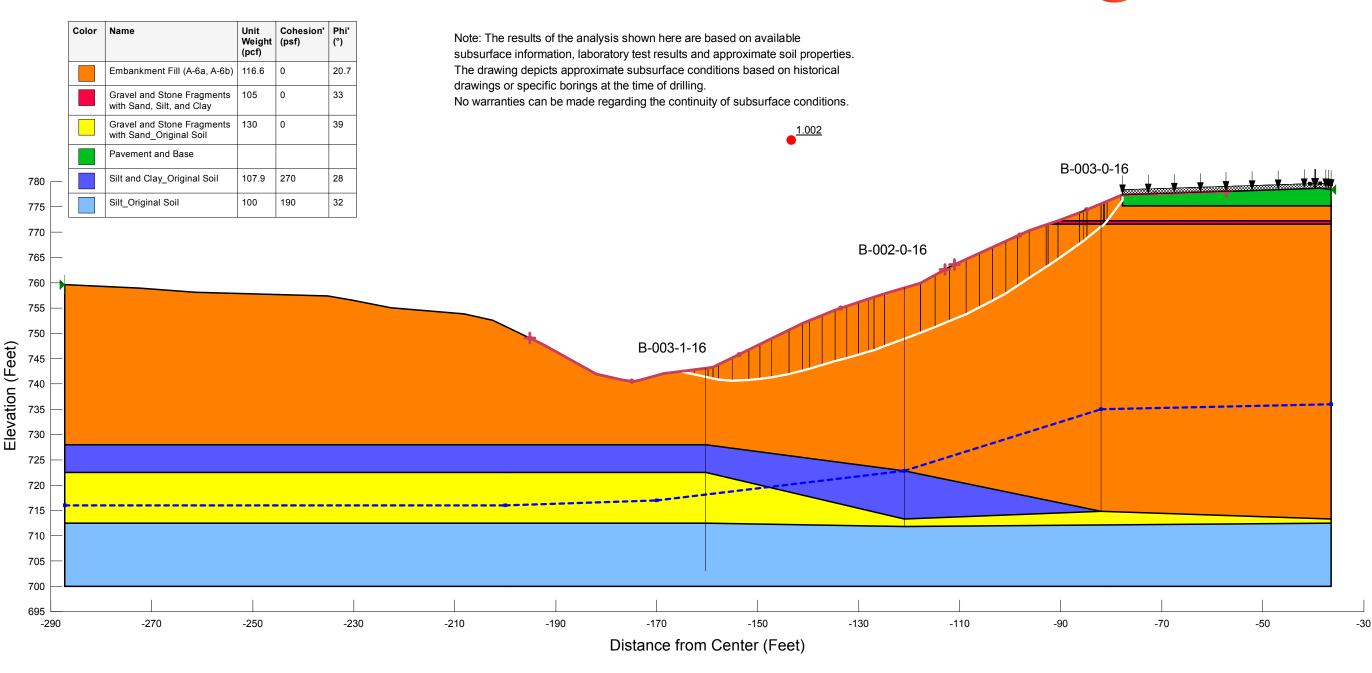
Principal

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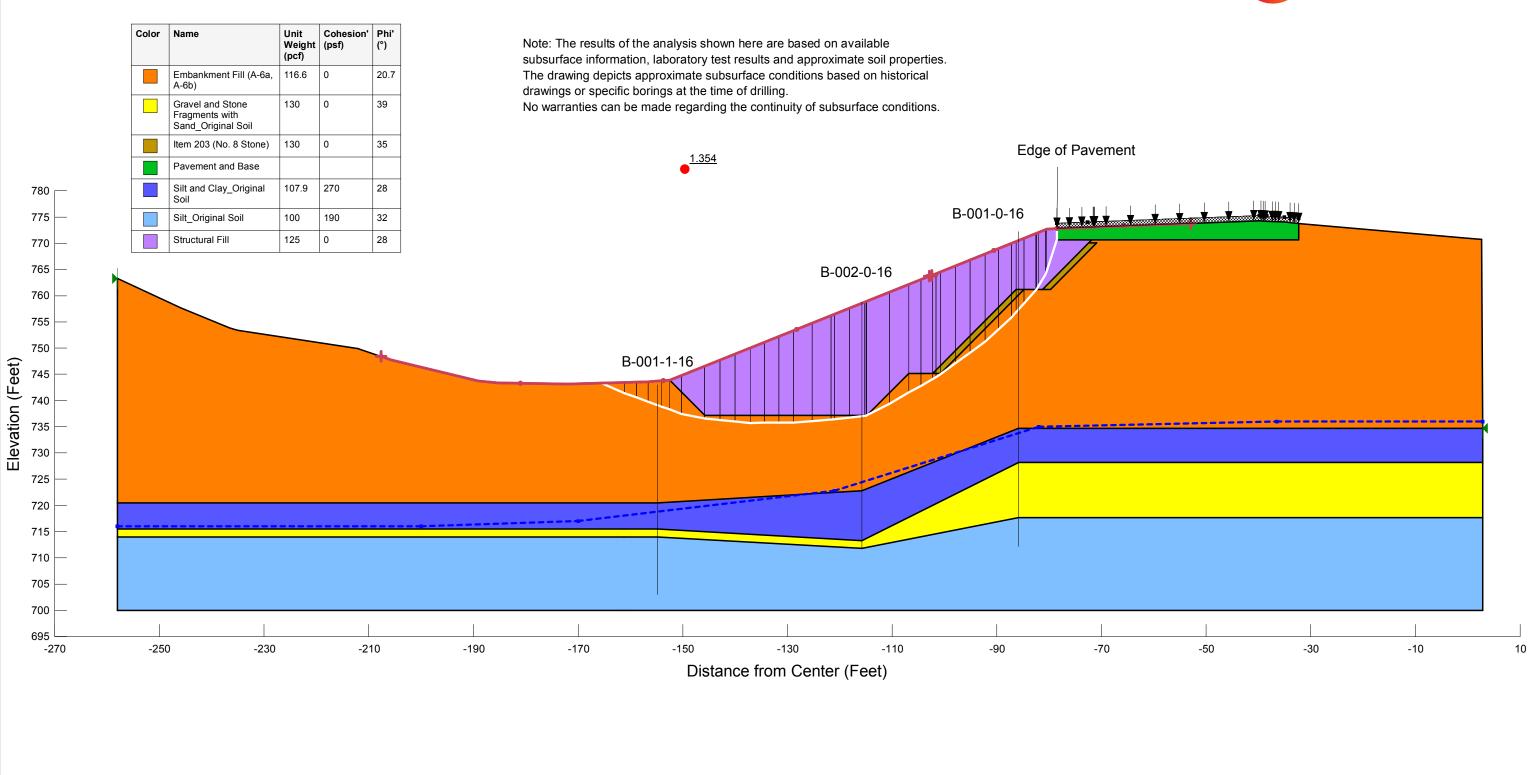
FS=1.0 - 10 ft Slip Surface





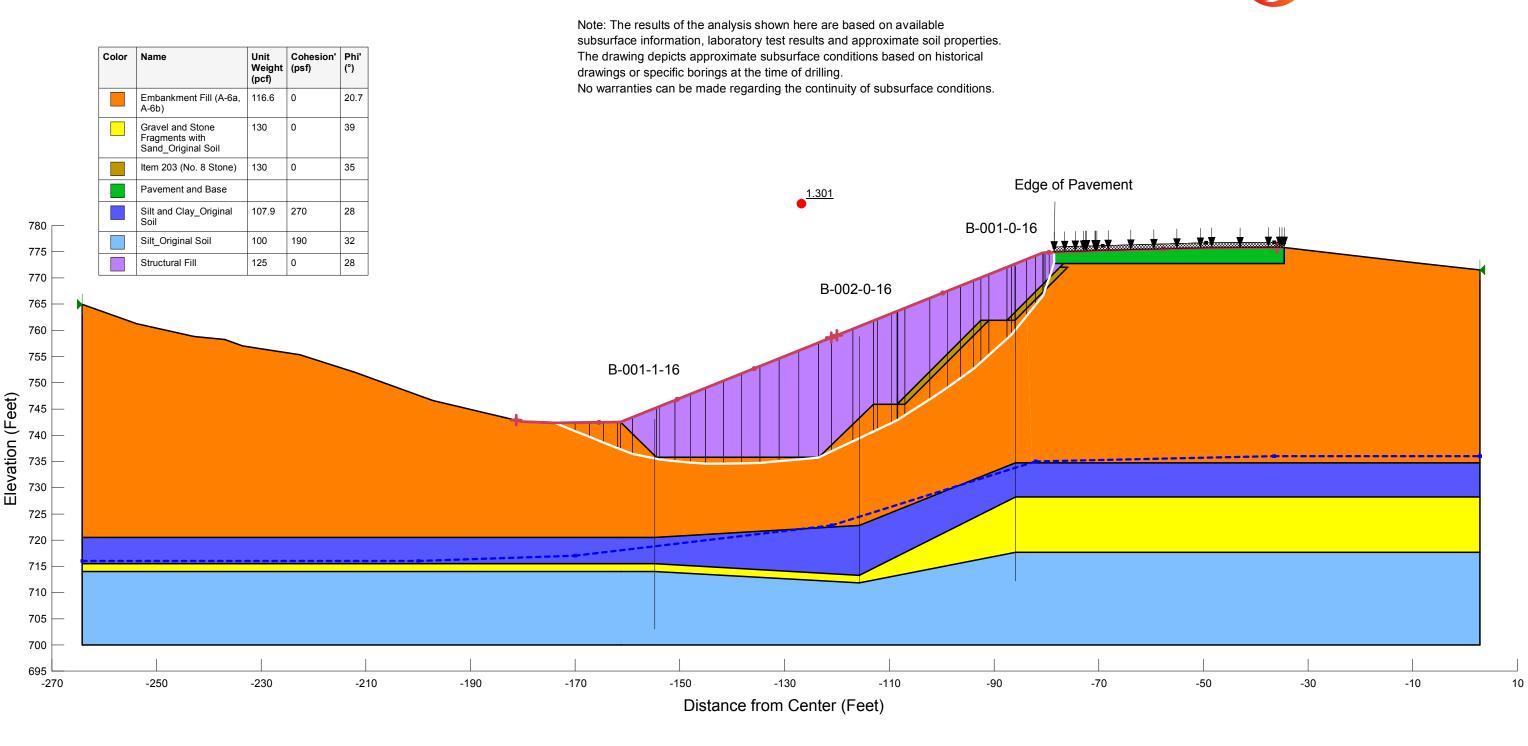
Station 465+00 - Benching Plan





Station 465+68.85 - Benching Plan





Station 466+80 - Benching Plan

Name	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)		Stante
Embankment Fill (A-6a, A-6b)	116.6	0	20.7		
Gravel and Stone Fragments with Sand, Silt, and Clay	105	0	33	Note: The results of the analysis shown here are based on available subsurface information, laboratory test results and approximate soil properties.	
Gravel and Stone Fragments with Sand_Original Soil	130	0	39	The drawing depicts approximate subsurface conditions based on historical drawings or specific borings at the time of drilling. No warranties can be made regarding the continuity of subsurface conditions.	
Item 203 (No. 8 Stone)	130	0	35	No warrantes can be made regarding the continuity of subsurface conditions.	
Pavement and Base				4 222	Edge of Pavement
Silt and Clay_Original Soil	107.9	270	28	<u>1.322</u>	
Silt_Original Soil	100	190	32		
Structural Fill	125	0	28		B-003-0-16
				B-002-0-16 B-003-1-16	

Station 468+00 - Benching Plan



