



**STATE OF TENNESSEE
TENNESSEE DEPARTMENT OF TRANSPORTATION
6601 CENTENNIAL BOULEVARD
NASHVILLE, TENNESSEE 37243-0360**

AMENDMENT OF GEOTECHNICAL REPORT

DATE: October 9th, 2017

TO: Clint Butler

FROM: Travis W. Smith, Civil Engineering Manager 1
Geotechnical Engineering Section

PROJECT: PE No.: 19014-1169-04
PIN: 125325.00

SUBJECT: Reconstruction of I-440: From I-40 to I-24, Davidson County

DISCUSSION:

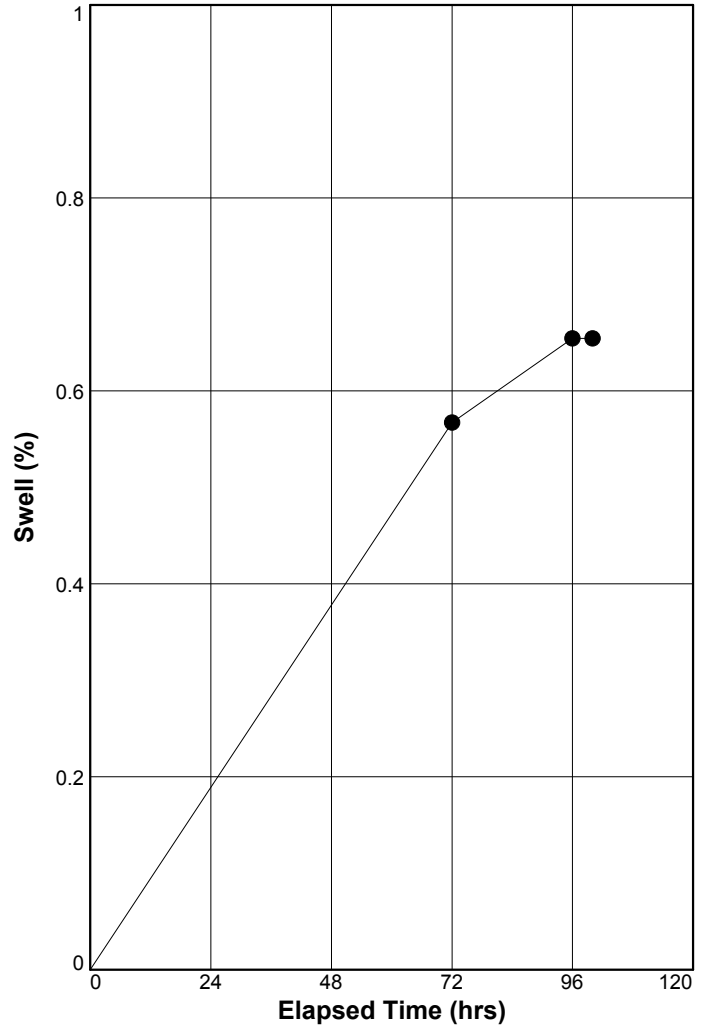
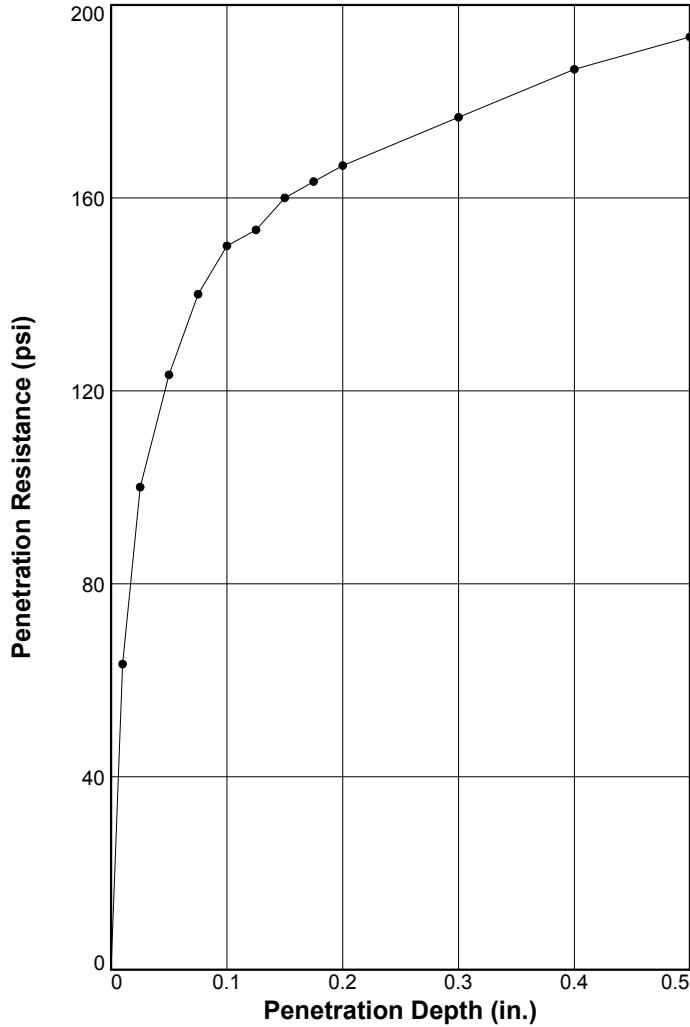
This amendment presents geotechnical laboratory results from the TDOT Geotechnical Engineering Section (GES) for California Bearing Ratio testing (CBR) for the referenced project. The laboratory data regarding CBR that was included on the geotechnical report named *125325-00-MainlineSoilsGeoRpt-GES1912416* dated September 21, 2017 were revised. The CBR values for the project range from 4.4 to 11.1, the revised CBR results are attached. Any questions concerning this addendum should be directed to the Geotechnical Engineering Section.

Besmir Zenelaku, E.I.
Transportation Project Specialist
October 9, 2017

Travis W. Smith, P.E.
Civil Engineering Manager 1

BEARING RATIO TEST REPORT

ASTM D 1883-05



	Molded			Soaked			CBR (%)		Linearity Correction (in.)	Surcharge (lbs.)	Max. Swell (%)
	Density (pcf)	Percent of Max. Dens.	Moisture (%)	Density (pcf)	Percent of Max. Dens.	Moisture (%)	0.10 in.	0.20 in.			
1 ○	111.1	94.2	13.3	110.4	93.6	16.7	15.0	11.1	0.000	12.64	0.7
2 △											
3 □											
Material Description							USCS	Max. Dens. (pcf)	Optimum Moisture (%)	LL	PI
lean CLAY, with gravel, brown, moist, very stiff							CL	118	12.7	31	10

Project No: 216-137

Project: I-440

Location: B-5

Sample Number: 1 **Depth:** 3.0

Date: 9/14/2017

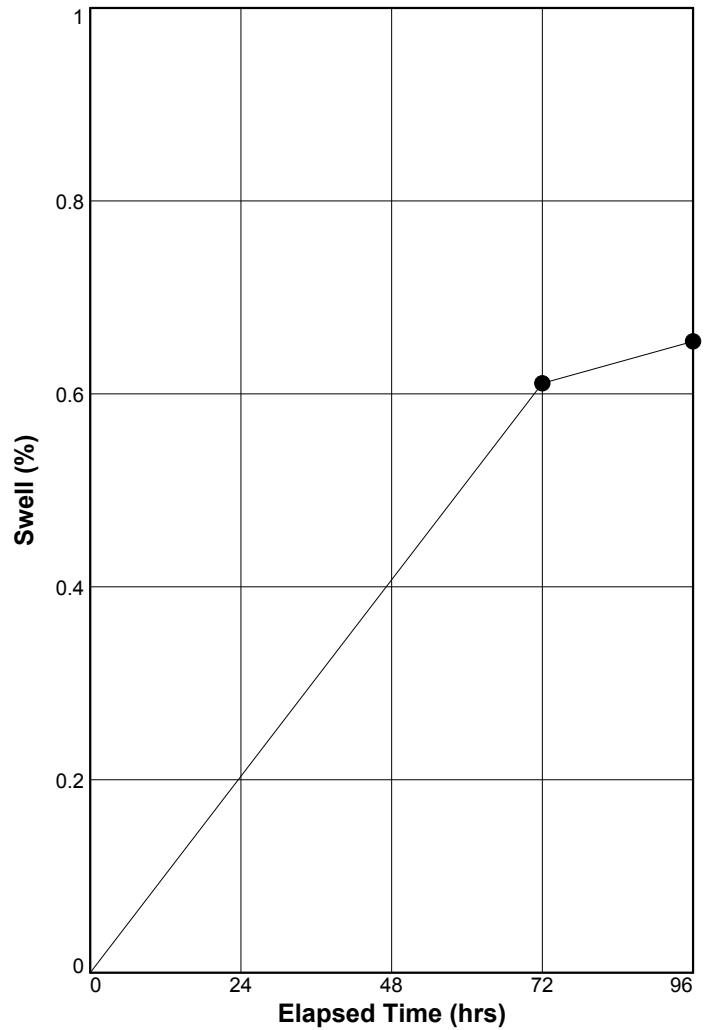
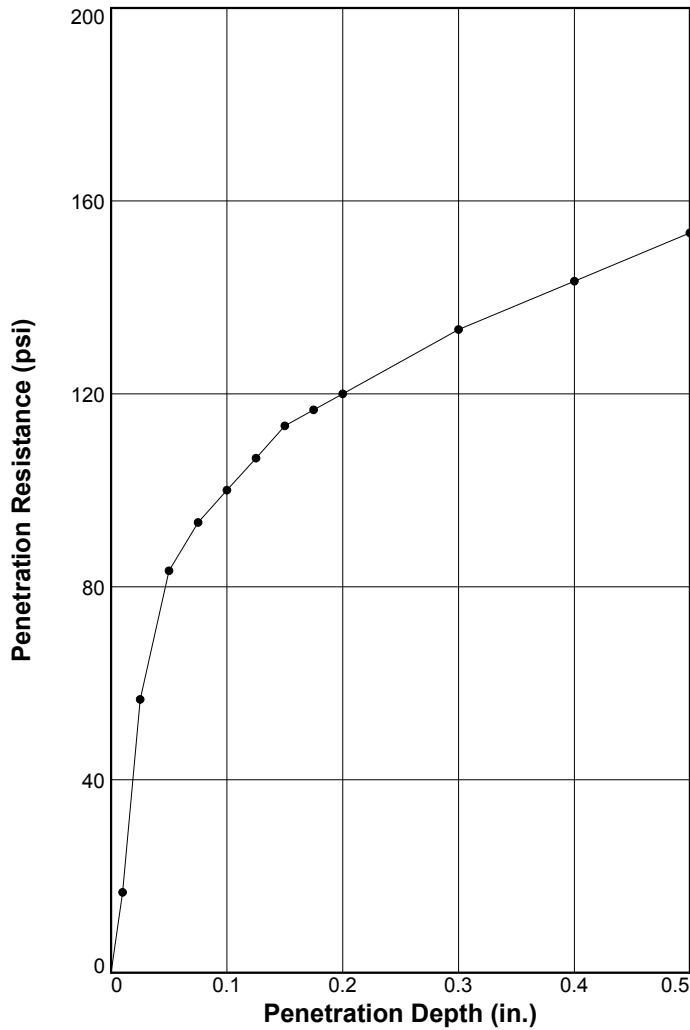
BEARING RATIO TEST REPORT
American Engineers, Inc.
Field Services Center

Test Description/Remarks:

Figure _____

BEARING RATIO TEST REPORT

ASTM D 1883-05



	Molded			Soaked			CBR (%)		Linearity Correction (in.)	Surcharge (lbs.)	Max. Swell (%)
	Density (pcf)	Percent of Max. Dens.	Moisture (%)	Density (pcf)	Percent of Max. Dens.	Moisture (%)	0.10 in.	0.20 in.			
1 ○	98.5	97.6	24.8	97.9	97	5517.1	10.0	8.0	0.000	12.44	0.7
2 △											
3 □											
Material Description							USCS	Max. Dens. (pcf)	Optimum Moisture (%)	LL	PI
fat CLAY, trace fine gravel, yellowish brown to light brown, moist, stiff							CH	100.9	23.9	52	29

Project No: 216-137

Project: I-440

Location: B-31

Sample Number: 1 **Depth:** 4

Date: 9/14/17

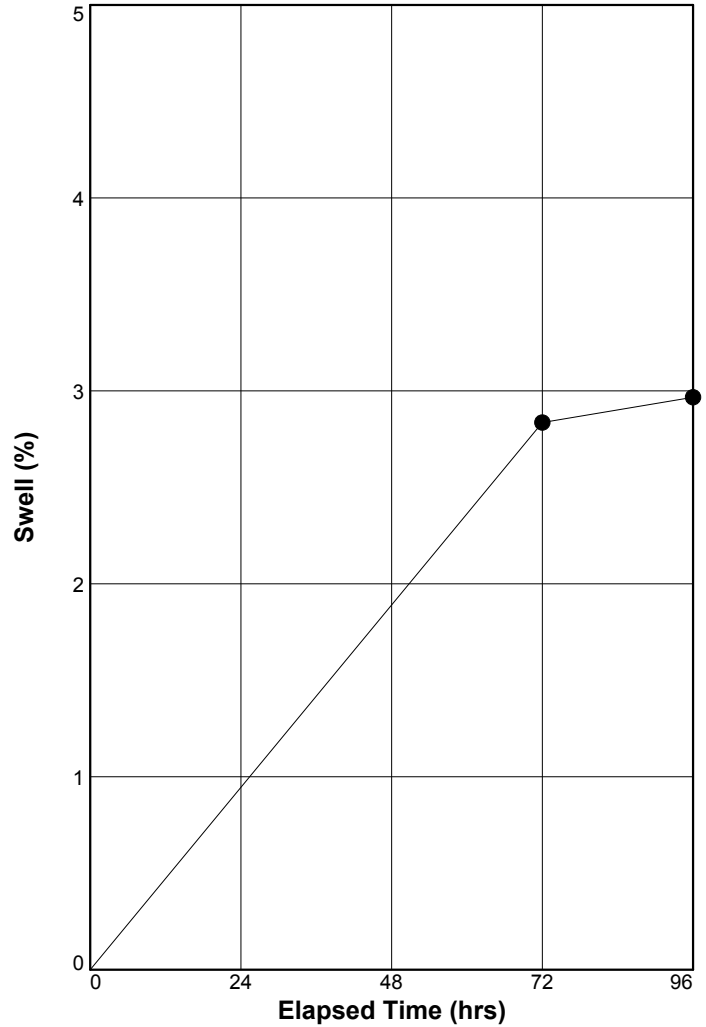
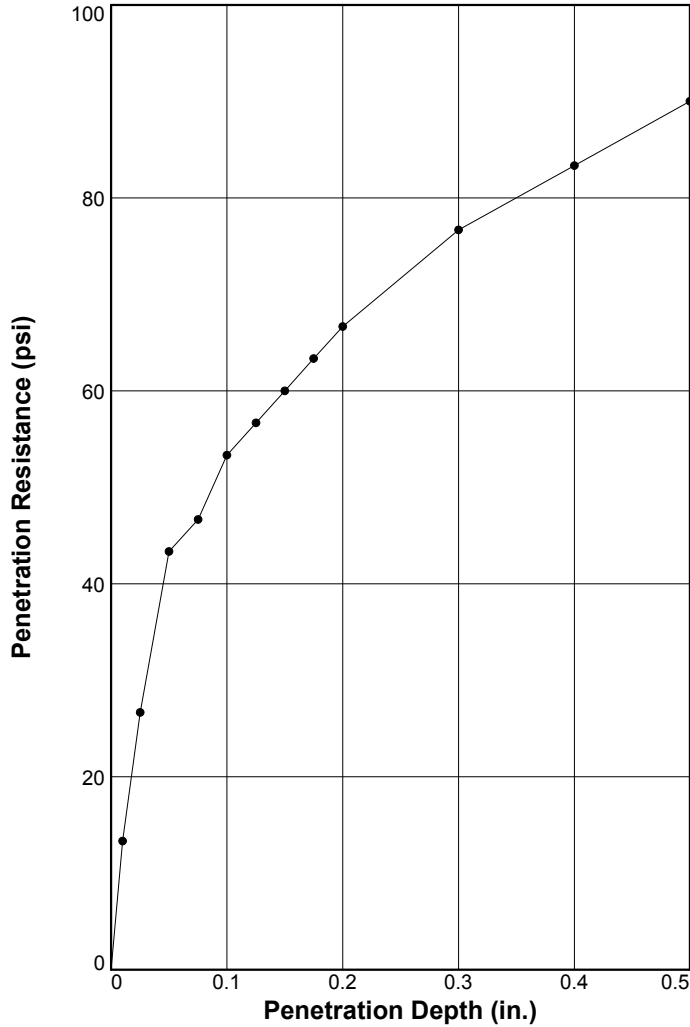
BEARING RATIO TEST REPORT
American Engineers, Inc.
Field Services Center

Test Description/Remarks:

Figure _____

BEARING RATIO TEST REPORT

ASTM D 1883-05



	Molded			Soaked			CBR (%)		Linearity Correction (in.)	Surcharge (lbs.)	Max. Swell (%)
	Density (pcf)	Percent of Max. Dens.	Moisture (%)	Density (pcf)	Percent of Max. Dens.	Moisture (%)	0.10 in.	0.20 in.			
1 ○	96.5	97.2	23.5	93.7	94.4	27.0	5.3	4.4	0.000	12.52	3
2 △											
3 □											
Material Description							USCS	Max. Dens. (pcf)	Optimum Moisture (%)	LL	PI
fat CLAY, brown, moist, stiff							CH	99.3	23.3	66	40

Project No: 216-137

Project: I-440

Location: B-71

Sample Number: 1 **Depth:** 2

Date: 9/14/17

BEARING RATIO TEST REPORT
American Engineers, Inc.
Field Services Center

Test Description/Remarks:

Figure _____