

City of Santa Fe, New Mexico

200 Lincoln Avenue, P.O. Box 909, Santa Fe, N.M. 87504-0909 www.santafenm.gov

Alan Webber, Mayor

Councilors: Signe I. Lindell, Mayor Pro Tem, District 1

Renee Villarreal, District 1

Michael J. Garcia, District 2

Carol Romero-Wirth, District 2

Roman "Tiger" Abeyta, District 3

Chris Rivera, District 3

Jamie Cassutt-Sanchez, District 4

JoAnne Vigil Coppler, District 4

ADDENDUM NO. 3 CITY OF SANTA FE, NEW MEXICO JUNE 17, 2021

TO: All Planholders

RE: Santa Fe Regional Airport – Runway 02 Runway Safety Area (RSA) Grading, May 2021, AIP 3-35-0037-054-2021; NMDOT SAF-21-02; City ITB 21/38/B

The following Addendum shall be incorporated into the Contract Documents for the above-referenced project.

A. PROJECT MANUAL

- 1. ITEM P-152 EXCAVATION, SUBGRADE AND EMBANKMENT:
 - a. Remove Page Item P-152-5, Paragraph 152-2.10 and replace in its entirety with the following:

"152-2.10 Compaction requirements. The subgrade under areas to be paved shall be compacted to a depth of 12 inches and to a density of not less than 95 percent of the maximum dry density as determined by ASTM D1557. The subgrade in areas outside the limits of the pavement areas shall be compacted to a depth of 12 inches and to a density of not less than 90 percent of the maximum density as determined by ASTM D698."

B. CONSTRUCTION DRAWINGS

- 1. SHEET G-102, CONSTRUCTION PHASING/SAFETY PLAN:
 - a. Under CONSTRUCTION SEQUENCE PHASING, CLOSURES, change "RUNWAY 2-20 WILL BE CLOSED MONDAY THROUGH FRIDAY FROM 7:00 A.M. TO 4:00 P.M. MST TO ALLOW FOR CONSTRUCTION." to:

"RUNWAY 2-20 WILL BE CLOSED MONDAY THROUGH FRIDAY FROM 7:30 A.M. TO 4:00 P.M. MST TO ALLOW FOR CONSTRUCTION."



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C. CLARIFICATIONS

A mandatory virtual Pre-Bid Conference was held on June 15, 2021 at 2:00 p.m. local prevailing time. A copy of the Meeting Minutes including a listing of Attendees is attached hereto and made a part of this Addendum No. 3. Be advised that oral statements made at the Pre-Bid Conference, which are not explicitly documented in writing, are non-binding.

A Geotechnical Report for a separate Santa Fe Municipal Airport Taxiway D project, Geo-Test Inc. Geotechnical Engineering Services Job. No. 1-90217 Taxiway "D" Realignment Santa Fe Municipal Airport, New Mexico, August 2019 is included in this Addendum No. 3. This Report is for Contractor reference only. It does not cover the areas to be excavated in this project but provides a general idea of soil types near the current project area.

MOLZEN CORBIN

Kent S. Freier, P.E.

Date

City of Santa Fe Santa Fe Regional Airport Runway 02 RSA Grading

Pre-Bid Conference June 15, 2021, 2:00 p.m.

Bid opening is June 24, 2021. Bids due by 3:00 p.m. as stated in the bid schedule on page 13 and as issued by Addendum.

Electronic bid submittal. Page 13, Bid Schedule, provides a link to view the bid opening.

SAF has badging requirements. Superintendents or foremen must be badged and can then escort employees.

Project involves excavation on the west side of the runway, grading the RSA as shown on the drawings. Excavated material shall be placed on east side as shown on drawings. Any excess material will be disposed of on site.

There is a PNM power service cable to the glide slope antenna. It is shown on the drawings. Project includes cutting this cable and splicing it in order to relocate one pull box.

Work hours will be 7:30 a.m. to 5:00 p.m., not 7-5 as shown on drawings. Runway will be closed enabling the construction. Runway to be open to traffic from 5 p.m. to 7:30 a.m.

Airport provides lighted X's. Contractor to maintain them (lights, fuel). There are four locations shown where low profile barricades will be needed.

Construction water. Must use effluent from WWTF across the street from airport.

Final grading to be ½" in 12 foot straight edge.

NTP should be issued in early to middle August, after council has approved of bid award and the grant is executed.

Site visits can be scheduled with Mark Baca at 505-629-5255.

Page 10 in specs, US DOT Policy: Being a women owned business does not mean that the business qualifies for DBE credit. To gain DBE credit, the firm must register with the NMDOT civil rights office who audits and inspects the business to make sure that it is a legitimate business for certification. There is not only ownership but also maximum net worth limitations. This is the position of the FAA Civil Rights office.

A geotechnical report was not done for this project. Concern was raised over presence of rock. An old project geotechnical report will be made available by addendum for estimating type of soil to be encountered.

Two addenda have been issued so far.

City of Santa Fe Santa Fe Regional Airport Runway 02 RSA Grading

Pre-Bid Conference June 15, 2021, 2:00 p.m

Name	Representing	Contact
Mark Baca	City of Santa Fe	mdbaca@santafenm.gov
Kent Freier	Molzen Corbin	kfreier@molzencorbin.com
Dale Salazar	Molzen Corbin	dsalazar@molzencorbin.com
Zach Torma	Molzen Corbin	ztorma@molzencorbin.com
Daniel Gonzales	TLC	
Gregory Smith	EMCO	
Kevin Harrison	EMCO	
Rob Gross	MSCI	
Trace Musgrave	Meridian	
John Guldemann	Sparling Construction	
Tyler Richtor	Guzman	

DEO-IEST

GEOTECHNICAL ENGINEERING SERVICES JOB NO. 1-90217 TAXIWAY "D" REALIGNMENT SANTA FE MUNICIPAL AIRPORT, NEW MEXICO

GEO-TEST, INC. 3204 RICHARDS LANE SANTA FE, NEW MEXICO 87507 (505) 471-1101 FAX (505) 471-2245

8528 CALLE ALAMEDA NE ALBUQUERQUE, NEW MEXICO 87113 (505) 857-0933 FAX (505) 857-0803

2805-A LAS VEGAS CT. LAS CRUCES, NEW MEXICO 88007 (575) 526-6260 FAX (575) 523-1660 PREPARED FOR:

MOLZEN CORBIN & ASSOCIATES

Addendum No. 3 June 17, 2021



May 30, 2019 Job No. 1-90217

Molzen Corbin & Associates 2701 Miles Road SE Albuquerque, New Mexico 87106

ATTN:

Kent Freier, P.E., C.F.M.

RE:

Geotechnical Engineering Services Report

Taxiway "D" Realignment

Santa Fe Municipal Airport, New Mexico

Dear Mr. Freier:

Submitted herein is the Geotechnical Engineering Services report for the above referenced project. The report contains the results of our field investigation, laboratory testing.

It has been a pleasure to serve you on this project. If you should have any questions, please contact this office.

Respectfully submitted:

Reviewed by:

Robert D Booth, F

GEO-TEST, INC.

Timothy Matson, Staff Engineer

cc: Addressee

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INTRODUCTION

This report presents the results of a geotechnical investigation performed by this firm for the proposed realignment of Taxiway "D" at the Santa Fe Municipal Airport in Santa Fe, New Mexico.

The objective of this investigation is to:

- 1) Evaluate the nature and engineering properties of the subsurface soils underlying the proposed new taxiway.
- 2) Provide data to Molzen Corbin & Associates for use in aviation pavement design.

The investigation includes subsurface exploration, selected soil sampling, laboratory testing of the samples, performing an engineering analysis and preparation of this report.

PROPOSED CONSTRUCTION

It is understood that the project consists of realignment of Taxiway "D".

Should details vary significantly from those outlined above, this firm should be notified for review and revision of recommendations contained herein.

FIELD EXPLORATION

Eight exploratory borings were drilled to approximately 5½ feet below existing site grade. The approximate locations of the borings are shown on the attached Boring Location Map, Figure 1. The soils encountered in the borings were continuously examined, visually classified and logged during the drilling operation. The boring logs are presented in a following section of this report. Drilling was accomplished using a truck mounted drill rig equipped with 5.5-inch diameter continuous flight hollow stem auger. Subsurface materials were sampled at five-foot intervals or less utilizing an open tube split barrel sampler driven by a standard penetration test hammer. In addition, bulk samples of the auger cuttings were taken in the upper 5.0 feet.

LABORATORY TESTING

Selected samples were tested in the laboratory to determine certain engineering properties of the soils. Moisture contents were determined to evaluate the various soil deposits both with depth and laterally. Sieve analysis and Atterberg limits tests were performed to aid in soil classification. In

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Taxiway "D" Reconstruction Job No. 1-90217

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addition, California Bearing Ratio (CBR) tests were performed on the bulk samples to provide data for taxiway reconstruction. Results of these tests are presented in the Summary of Laboratory Results and on the individual test reports presented in a following section of this report.

SUBSURFACE SOIL CONDITIONS

As indicated by the exploratory borings, the soils underlying the proposed new alignment consist primarily of clayey sands with lesser amounts of silty sand and sandy silty clay. These soils were generally low plasticity and ranged from loose and soft to medium dense and moderately firm. Composite bulk samples of the auger cuttings had CBR values ranging from 6 to 10.

No free groundwater was encountered in any of the borings. Soil moisture contents were generally low throughout the extent of the borings.

CLOSURE

The data and analyses presented herein are:

- 1) Based upon our evaluation and interpretation of the findings of the field and laboratory program.
- 2) Based upon an interpolation of soil conditions between and beyond the explorations.
- 3) Subject to confirmation of the conditions encountered during construction.
- 4) Based upon the assumption that sufficient observation will be provided during construction.
- 5) Prepared in accordance with generally accepted professional geotechnical engineering principles and practice.

This report has been prepared for the sole use of Molzen Corbin & Associates, specifically to aid in the design of the realignment of Taxiway "D" at the Santa Fe Municipal Airport, New Mexico and is not for the use by any third parties.

We make no other warranty, either express or implied. Any person using this report for bidding or construction purposes should perform such independent investigation as he deems necessary to satisfy himself as to the surface and subsurface conditions to be encountered and the procedures to be used in the performance of work on this project. If conditions encountered during

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Taxiway "D" Reconstruction Job No. 1-90217

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construction appear to be different than indicated by this report, this office should be notified.

All soil samples will be discarded 60 days after the date of this report unless we receive a specific request to retain the samples for a longer period of time.

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BORING LOCATION MAP

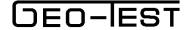


Taxiway D Reconstruction Santa Fe Municipal Airport, New Mexico Job No. 1-90217

Figure 1



GEOTECHNICAL ENGINEERING AND MATERIAL TESTING



Date: 04/15/2019 Project No: 1-90217

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

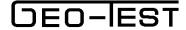
NO: 01 During Drilling: none After 24 Hours:

F					SA	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	POO	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	blo	N ws/ft 60	80
LOG OF TEST BORING 1-90217 TAXIWAY D REALIGNMENT, SANTA FE REGIONAL AIRPORT.GPJ GEO TEST.GDT 4/24/19	5 —			SS AC SS	3-3-8 11 2-3-3 6	13		SC	CLAYEY SAND, fine grained, low plasticity, medium dense to loose, slightly moist to dry, brown to tan Stopped Auger @ 4 feet Stopped Sampler @ 5.5 feet	•91 			

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 04/15/2019 Project No: 1-90217

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

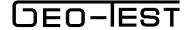
NO: 02 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	POO	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pdf)	nsc	DESCRIPTION	20	blo 40	N ws/ft 60	80
LOG OF TEST BORING 1-90217 TAXIWAY D REALIGNMENT, SANTA FE REGIONAL AIRPORT.GPJ GEO TEST.GDT 4/24/19	5 —			SS AC SS	3-4-6 10 2-1-2 3	9		SC	CLAYEY SAND, fine grained, low plasticity, medium dense to loose, slightly moist to dry, brown to tan Stopped Auger @ 4 feet Stopped Sampler @ 5.5 feet	•7			

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 04/15/2019 Project No: 1-90217 5.5" OD HSA

Elevation: Type:

LOG OF TEST BORINGS

GROUNDWATER DEPTH

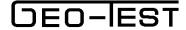
NO: 03 During Drilling: none After 24 Hours:

				SAI	MPLE			SUBSURFACE PROFILE			
DEPTH (Ft)	POO	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N ows/ft) 60	80
LOG OF TEST BORING 1-90217 TAXIWAY D REALIGNMENT, SANTA FE REGIONAL AIRPORT.GPJ GEO TEST.GDT 4/24/19 0			SS AC SS	2-4-3 7 5-6-2 8	8		SM	SILTY SAND, fine grained, low plasticity, loose, slightly moist to dry, brown to tan Stopped Auger @ 4 feet Stopped Sampler @ 5.5 feet	• 5 · · · · · · · · · · · · · · · · · ·		

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 04/15/2019 Project No: 1-90217

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

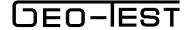
NO: 04 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	P007	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pdf)	nsc	DESCRIPTION	N blows/ft 20 40 60 8			80
LOG OF TEST BORING 1-90217 TAXIWAY D REALIGNMENT, SANTA FE REGIONAL AIRPORT.GPJ GEO TEST.GDT 4/24/19	5 —			AC SS SS	5-6-8 14 5-10-16 26	9		SM	SILTY SAND, fine grained, low plasticity, medium dense, slightly moist to dry, tan Stopped Auger @ 4 feet Stopped Sampler @ 5.5 feet	14	261	- · + · + · + · + · + · + · + · + · + · + · + · + · + · + · + · + · - ·	

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 04/15/2019 Project No: 1-90217

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

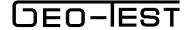
NO: 05 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
i i	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	blo	N ws/ft 60	80
LOG OF TEST BORING 1-90217 TAXIWAY D REALIGNMENT, SANTA FE REGIONAL AIRPORT.GPJ GEO TEST.GDT 4/24/19	5 —			AC SS SS	3-4-6 10 7-7-6 13	8		CL-ML	SANDY SILTY CLAY, fine grained, low plasticity, moderately firm, dry, tan Stopped Auger @ 4 feet Stopped Sampler @ 5.5 feet				

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Taxiway D Realignment Project:

Project No: 1-90217 Date: 04/15/2019 5.5" OD HSA

Elevation: Type:

LOG OF TEST BORINGS GROUNDWATER DEPTH

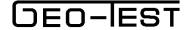
NO: 06 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	106	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N ows/ft	80
LOG OF TEST BORING 1-90217 TAXIWAY D REALIGNMENT, SANTA FE REGIONAL AIRPORT.GPJ GEO TEST.GDT 4/24/19	5 —			AC SS SS	3-3-2 5 1-3-2 5	8		ML-CL	SANDY SILTY CLAY, fine grained, low plasticity, soft, dry, brown to tan Stopped Auger @ 4 feet Stopped Sampler @ 5.5 feet	•5		

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 04/15/2019 Project No: 1-90217

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

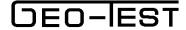
NO: 07 During Drilling: none After 24 Hours:

				SAI	MPLE			SUBSURFACE PROFILE				
DEPTH (Ft)	POO	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pdf)	nsc	DESCRIPTION	20	blo	N ows/ft	
10 1			AC SS SS	7-7-6 13	8		sc	CLAYEY SAND, fine grained, low plasticity, medium dense to loose, slightly moist to dry, brown to tan Stopped Auger @ 4 feet Stopped Sampler @ 5.5 feet				

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 04/15/2019 Project No: 1-90217

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: 08 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
DEPTH (Ft)	6.2	POOT	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pdf)	nsc	DESCRIPTION	N blows/ft 20 40 60			80
LOG OF TEST BORING 1-90217 TAXIWAY D REALIGNMENT, SANTA FE REGIONAL AIRPORT.GPJ GEO TEST.GDT 4/24/19	5 -			AC SS	4-3-1 4 2-2-4 6	9		SC	CLAYEY SAND, fine grained, low plasticity, loose, dry, tan Stopped Auger @ 4 feet Stopped Sampler @ 5.5 feet				

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed

SUMMARY OF LABORATORY RESULTS

												EVE ANAI CENT PA					
TEST HOLE	DEPTH (FEET)	UNIFIED CLASS	(%) MOIST	LL	PI	NO 200	NO 100	NO 40	NO 10	NO 4	3/8"	1/2"	3/4"	1"	1 1/2"	2"	4"
Bulk 1-2	2.5	SC		28	8	47	59	79	91	96	98	98	100				
Bulk 3-4	2.5	SM		27	4	40	54	76	90	94	98	100					
Bulk 5-6	2.5	CL-ML		28	7	50	62	81	94	98	99	99	100				
Bulk 7-8	2.5	SC		33	13	46	58	77	89	93	95	96	100				

DEO-IEST

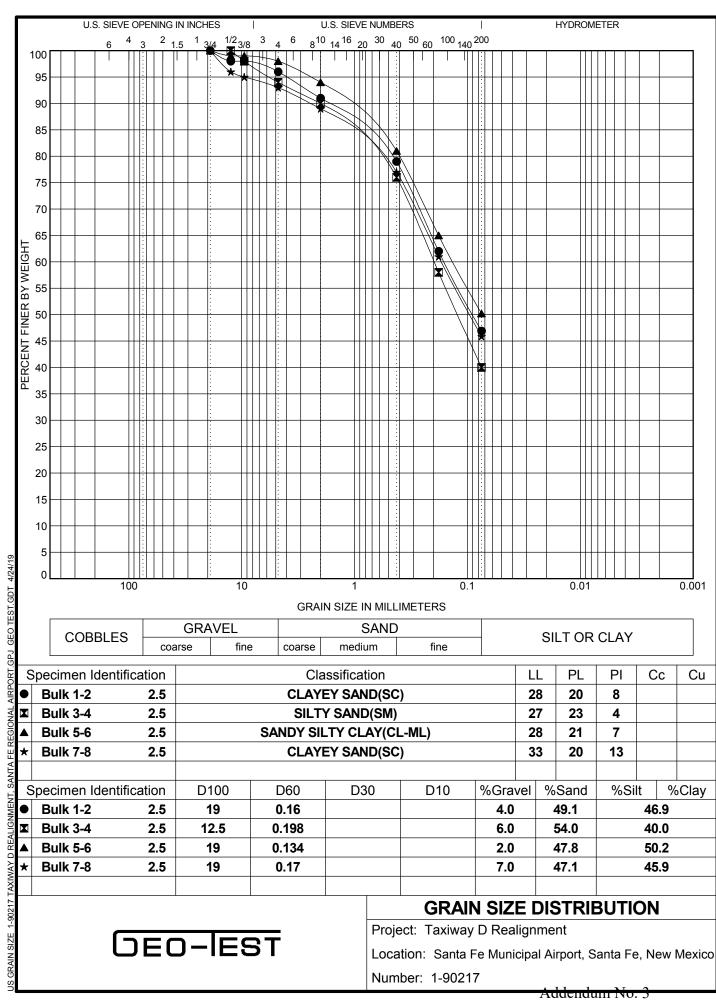
LL = LIQUID LIMIT
PI = PLASTICITY INDEX
NP = NON PLASTIC or NO VALUE

Project: Taxiway D Realignment

Location: Santa Fe Municipal Airport, Santa Fe, New Mexico

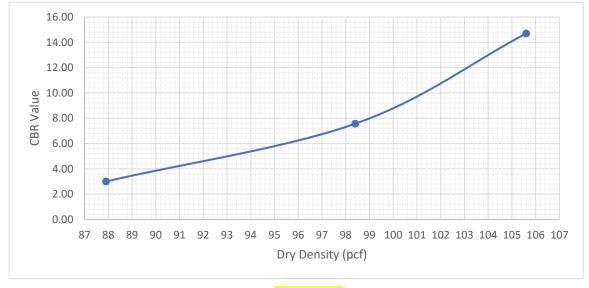
Number: 1-90217

Addendum No. 3



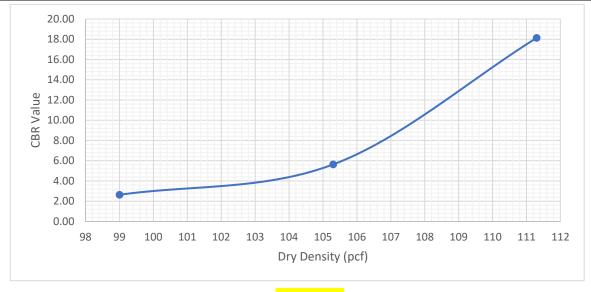
Project: Taxiway D Realignment Project #: 1-90217 Load Cell: 23976 Location: CBR #1&2 Soil Description: **USCS** Classification: SC Clayey Sand Maximum Dry Density (D-1557): 104.3 pcf 95% of Max Density: 99.1 pcf Optimum Moisture: 18.8 %

	10 Blows			25 Blows			56 Blows	
Mo	old #	1	Mo	old #	2	Mo	old #	3
I	Before Soak	ing	В	efore Soakii	ng	В	efore Soakir	ng
Dry Densit	y (pcf):	87.9	Dry Densit	y (pcf):	98.4	Dry Densit	y (pcf):	105.6
% Moiture		19.3	% Moiture		18.8	% Moiture		19.2
	After Soaki	ng	ı	After Soakin	g	,	After Soakin	g
Wet Weigh	nt (g):	1248.5	Wet Weigl	nt (g):	1604.8	Wet Weigh	nt (g):	1863.8
Dry Weigh	t (g):	984.1	Dry Weigh	t (g):	1305.6	Dry Weigh	t (g):	1552.3
% Moisture	e:	26.9	% Moistur	e:	22.9	% Moistur	e:	20.1
	Swell/Cons	ol		Swell/Conso	ol	!	Swell/Conso	ıl
	Initial (in):	0.482		Initial (in):	0.505		0.591	
	Final (in):	0.521		Final (in):	0.538		Final (in):	0.609
Diff	Difference (in): 0.0			erence (in):	0.033	Diff	erence (in):	0.018
Strain	Load	Stress	Strain	Load	Stress	Strain	Load	Stress
0	0	0.0	0	0	0.0	0	0	0.0
0.025	42	14.0	0.025	67	22.3	0.025	152	50.7
0.05	63	21.0	0.05	134	44.7	0.05	280	93.3
0.075	78	26.0	0.075	188	62.7	0.075	371	123.7
0.1	90	30.0	0.1	227	75.7	0.1	441	147.0
0.125	98	32.7	0.125	257	85.7	0.125	494	164.7
0.15	106	35.3	0.15	280	93.3	0.15	534	178.0
0.175	0.175 111 37.0			296	98.7	0.175	567	189.0
0.2				309	103.0	0.2	593	197.7
0.3	0.3 128 42.7			348	116.0	0.3	658	219.3
CBR @ 0.1: 3.00			00 CBR @ 0.1:		7.57		CBR @ 0.1:	14.70
	CBR @ 0.2:	2.58		CBR @ 0.2:	6.87		CBR @ 0.2:	13.18



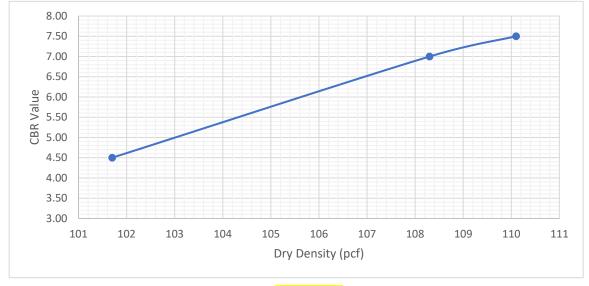
Project: Project #: 1-90217 Taxiway D Realignment Load Cell: 23976 Location: CBR #3&4 Soil Description: **USCS** Classification: Silty Sand SM Maximum Dry Density (D-1557): 113.4 pcf 95% of Max Density: 107.7 pcf Optimum Moisture: 13.4 % 10 Blows 56 Blows 25 Blows

10 Blows			25 Blows			56 Blows			
Mold # 1			Mold # 2			Mold # 3			
Before Soaking			Before Soaking			Before Soaking			
Dry Density (pcf): 99		Dry Density (pcf):		105.3	Dry Density (pcf):		111.3		
% Moiture			% Moiture		13.4	% Moiture		13.4	
After Soaking			After Soaking			After Soaking			
Wet Weigh	Wet Weight (g): 2147.4		Wet Weight (g):		1534	Wet Weight (g):		1588.6	
Dry Weight (g): 1773		1773.7	Dry Weight (g): 1282.		1282.6	Dry Weight (g):		1353.2	
% Moisture			% Moisture: 19.6		% Moisture:		17.4		
Swell/Consol			Swell/Consol			Swell/Consol			
	Initial (in): 0.285		Initial (in):		0.222	Initial (in):		0.354	
	Final (in):	0.059		Final (in):	0.059		Final (in):	0.062	
Difference (in):		-0.226	Difference (in):		-0.163	Difference (in):		-0.292	
Strain	Load	Stress	Strain	Load	Stress	Strain	Load	Stress	
0	0	0.0	0	0	0.0	0	92	30.7	
0.025	20	6.7	0.025	47	15.7	0.025	220	73.3	
0.05	39	13.0	0.05	85	28.3	0.05	350	116.7	
0.075	61	20.3	0.075	131	43.7	0.075	457	152.3	
0.1	79	26.3	0.1	169	56.3	0.1	544	181.3	
0.125	96	32.0	0.125	199	66.3	0.125	619	206.3	
0.15	114	38.0	0.15	231	77.0	0.15	688	229.3	
0.175	131	43.7	0.175	259	86.3	0.175	755	251.7	
0.2	147	49.0	0.2	285	95.0	0.2	955	318.3	
0.3	203	67.7	0.3	339	113.0	0.3	2071	690.3	
	CBR @ 0.1:	2.63		CBR @ 0.1:	5.63		CBR @ 0.1:	18.13	
CBR @ 0.2:		3.27		CBR @ 0.2:	6.33		CBR @ 0.2:	21.22	



Project: Taxiway D Realignment Project #: 1-90217 Load Cell: 23976 Location: CBR #5&6 Soil Description: **USCS** Classification: Sandy Silty Clay CL-ML Maximum Dry Density (D-1557): 110.6 pcf 95% of Max Density: 105.1 pcf 16.0 % Optimum Moisture: EC Blows

	10 Blows		25 Blows			56 Blows			
Mold # 1		Mold #		2	Mold #		3		
Before Soaking			Before Soaking			Before Soaking			
Dry Density (pcf): 101.7		Dry Density (pcf):		108.3	Dry Density (pcf):		110.1		
% Moiture	% Moiture 16.3		% Moiture		16.4	% Moiture		16.3	
After Soaking			After Soaking			After Soaking			
Wet Weigh	Wet Weight (g): 1774.1		Wet Weight (g):		2056.4	Wet Weight (g):		1834	
Dry Weight (g): 1487.		1487.9	Dry Weight (g): 1757.5		Dry Weight (g):		1565.4		
% Moistur	% Moisture: 19.2		% Moisture: 17.0			% Moisture:		17.2	
Swell/Consol			Swell/Consol			Swell/Consol			
	Initial (in): 0.396		Initial (in):		0.224	Initial (in):		0.384	
	Final (in):	0.311		Final (in):	0.237		Final (in):	0.398	
Difference (in):		-0.085	Difference (in):		0.013	Difference (in):		0.014	
Strain	Load	Stress	Strain	Load	Stress	Strain	Load	Stress	
0	0	0.0	0	0	0.0	0	0	0.0	
0.025	50	16.7	0.025	65	21.7	0.025	94	31.3	
0.05	97	32.3	0.05	118	39.3	0.05	141	47.0	
0.075	117	39.0	0.075	151	50.3	0.075	175	58.3	
0.1	135	45.0	0.1	210	70.0	0.1	225	75.0	
0.125	142	47.3	0.125	218	72.7	0.125	300	100.0	
0.15	149	49.7	0.15	234	78.0	0.15	336	112.0	
0.175	159	53.0	0.175	249	83.0	0.175	364	121.3	
0.2	176	58.7	0.2	294	98.0	0.2	391	130.3	
0.3	193	64.3	0.3	321	107.0	0.3	465	155.0	
	CBR @ 0.1: 4.50		CBR @ 0.1:		7.00	CBR @ 0.1:		7.50	
	CBR @ 0.2: 3.91		CBR @ 0.2:		6.53	CBR @ 0.2:		8.69	



Project: Taxiway D Realignment Project #: 1-90217 23976 Load Cell: Location: CBR #7&8 Soil Description: **USCS** Classification: SC Clayey Sand Maximum Dry Density (D-1557): 111.3 pcf 95% of Max Density: 105.7 pcf Optimum Moisture: 14.6 %

10 Blows			25 Blows			56 Blows			
Mold# 4			Mold # 5			Mold# 6			
Before Soaking			Before Soaking			Before Soaking			
Dry Density (pcf): 103.9		Dry Density (pcf):		111.4	Dry Density (pcf):		116.2		
		% Moiture		14.8	% Moiture		14.2		
After Soaking			After Soaking			After Soaking			
Wet Weight (g): 1534.7		Wet Weight (g): 1511.2			Wet Weight (g):		2219.6		
Dry Weight (g):		1290	Dry Weight (g):		1304.3	Dry Weight (g):		1938.1	
% Moisture: 19.0		% Moisture: 15.9			% Moisture: 14.5				
Swell/Consol			Swell/Consol			Swell/Consol			
	Initial (in):	0.497		Initial (in):	0.485		Initial (in):	0.593	
	Final (in):			Final (in):			Final (in):		
Difference (in):		0.044	Difference (in):		0.029	Difference (in):		0.032	
Strain	Load	Stress	Strain	Load	Stress	Strain	Load	Stress	
0	0	0.0	0	0	0.0	0	0	0.0	
0.025	41	13.7	0.025	141	47.0	0.025	151	50.3	
0.05	69	23.0	0.05	283	94.3	0.05	355	118.3	
0.075	93	31.0	0.075	395	131.7	0.075	570	190.0	
0.1	115	38.3	0.1	502	167.3	0.1	780	260.0	
0.125	133	44.3	0.125	582	194.0	0.125	985	328.3	
0.15	150	50.0	0.15	655	218.3	0.15	1169	389.7	
0.175	166	55.3	0.175	725	241.7	0.175	1361	453.7	
0.2	180	60.0	0.2	765	255.0	0.2	1521	507.0	
0.3	229	76.3	0.3	1075	358.3	0.3	2071	690.3	
	CBR @ 0.1:	3.83		CBR @ 0.1:	16.73		CBR @ 0.1:	26.00	
	CBR @ 0.2:	4.00		CBR @ 0.2:	17.00		CBR @ 0.2:	33.80	

