

#### OFFICE OF PROCUREMENT SERVICES 335 FOUR MILE ROAD CONWAY, SC 29526-6005

#### AMENDMENT/ADDENDUM No. 1

Posting Date: Wednesday, March 31, 2021

Solicitation Number: 2021-50MJ Description: Track and Field Phase II

ADDENDA: Addenda shall be issued prior to the bid opening date and time for the purposes of modifying or interpreting the Contract Documents through additions, deletions, clarifications or corrections. No addendum shall be issued later than four (4) days prior to the bid opening date except to a) withdraw the Invitation for Bids, or b) to postpone the bid opening date and time. When an addendum is issued for the purposes of postponing the bid opening date and time, the addendum shall establish the new bid opening date and time no earlier than five (5) days after the addendum issue date. Addenda shall be posted on the on-line bidding source(s) stated in the Invitation for Bids. A Bidder shall acknowledge receipt of all addenda issued by identifying the addendum number and the date of issuance with the Bidder's initials in the spaces provided on the Official Bid Form or the bid shall be found non-responsive in accordance with the District's Procurement Code. If this solicitation is amended, then all terms and conditions which are not modified remain unchanged.

INTERPRETATIONS AND CLARIFICATIONS: Requests for additional information or questions regarding error, omission or clarification of any portion of the Bid Documents or the Contract Documents or any addendum, shall be submitted in writing to the District Bid Contact Person stated in the Invitation for Bids by e-mail or facsimile no later than five (5) days prior to the bid opening date and time unless an earlier date is stated on the Invitation for Bids or as may be amended. Any interpretations, corrections, or changes to the Bid Documents or the Contract Documents made in any other manner than by a written addendum shall not be binding, and Bidders shall not rely upon them. Any information given a prospective Bidder concerning a solicitation will be furnished promptly to all other prospective bidders as an addendum to the solicitation, if that information is necessary for submitting offers of if the lack of it would be prejudicial to other prospective bidders. See clause entitled "Bidder Representations." We will not identify you in our answer to your question. The District seeks to permit maximum practicable competition. Bidders are urged to advise the Procurement Specialist – as soon as possible – regarding any aspect of this procurement, including any aspect of the solicitation that unnecessarily or inappropriately limits full and open competition.

A mandatory pre-bid conference was held at HCS District Office on Thursday, March 25, 2021 at 3:00 p.m. Attached is the attendees.

Questions asked during the mandatory pre-bid, non-mandatory site visits and by email:

- 1. I see in the specs that the track equipment is x3 obviously for the 3 schools. Is that the same for the FG Posts as well?
  - Answer: New football goal posts (2) are required at North Myrtle Beach High School only.
- Can you please share the Horry Phase 2 cad drawings?
   Answer: AutoCAD files will not be provided for use during bidding. CAD files will be shared with the selected contractor after project award and following receipt of a signed release form.
- 3. Can you please provide boring report for clarification of existing stone base under track?

  Answer: Boring logs for each of the track asphalt borings are being provided with Addendum #1.

HCS-CC17 (10/00,1/05,3/20) 1 of 3

- 4. Sheet C-310, C-320, & C-330 indicates slot drain to be installed in curves, but there is also a 50MM drain indicated as well under asphalt. Please verify the 50MM drain is not needed at this location.

  Answer: 50mm underdrain is to be provided in the D-zone curves as shown in the bid documents.
- 5. Detail 1&2 on sheet C-600 indicate "Fill gap between new curb and existing concrete or asphalt with 4" thick concrete". Please verify this only refers to additional concrete that may be needed due from sawcut to add 12x12 curb.

Answer: The 4" thick concrete shall extend out to meet the existing concrete walk/pavement, typical around track where existing concrete/asphalt is within 3' of new outside perimeter curb. This is noted on C-110 Aynor HS Layout Plan.

- 6. See detail 9/C-602. Please verify if contractor or owner will provide metal shed. Answer: Contractor to provide metal shed.
- 7. Please verify if owner or contractor to provide concrete pad under storage shed. Answer: Contractor to provide concrete pad under metal shed.
- 8. See sheet C-230 for clarification. There appears to be a slope at track perimeter to match existing of existing pavement. Please verify TA elevations noted in curve at concessions building as correct. Answer: The entire back/visitors side straightway will be removed and rebuilt. The new outside perimeter concrete safety apron shall match existing where shown on C-230. At other points along this outer perimeter concrete apron, see proposed spot elevations.
- Can Plexitrac Accelerator be considered for an acceptable substitute for this project.?
   Answer: This is a water based polyresin product and therefore is not an approved equivalent to the specified polyurethane-based system.

**HORRY COUNTY SCHOOLS** 

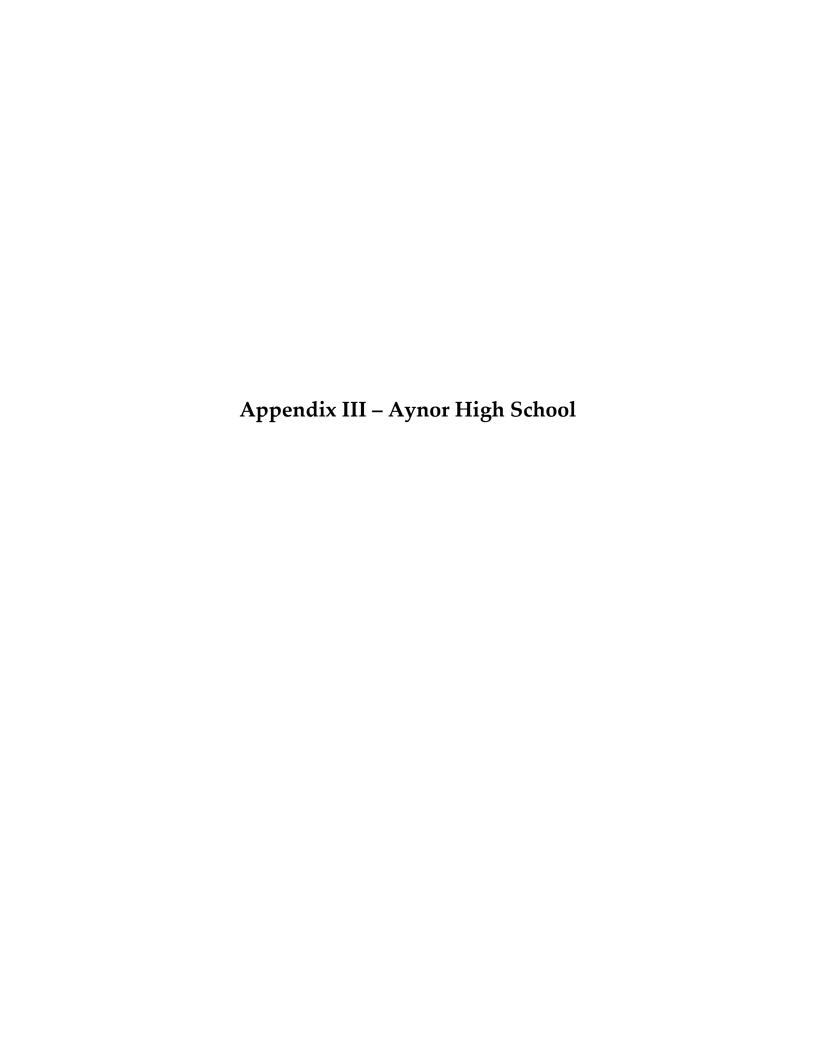
All other Work required in the Contract Documents to remain as described.

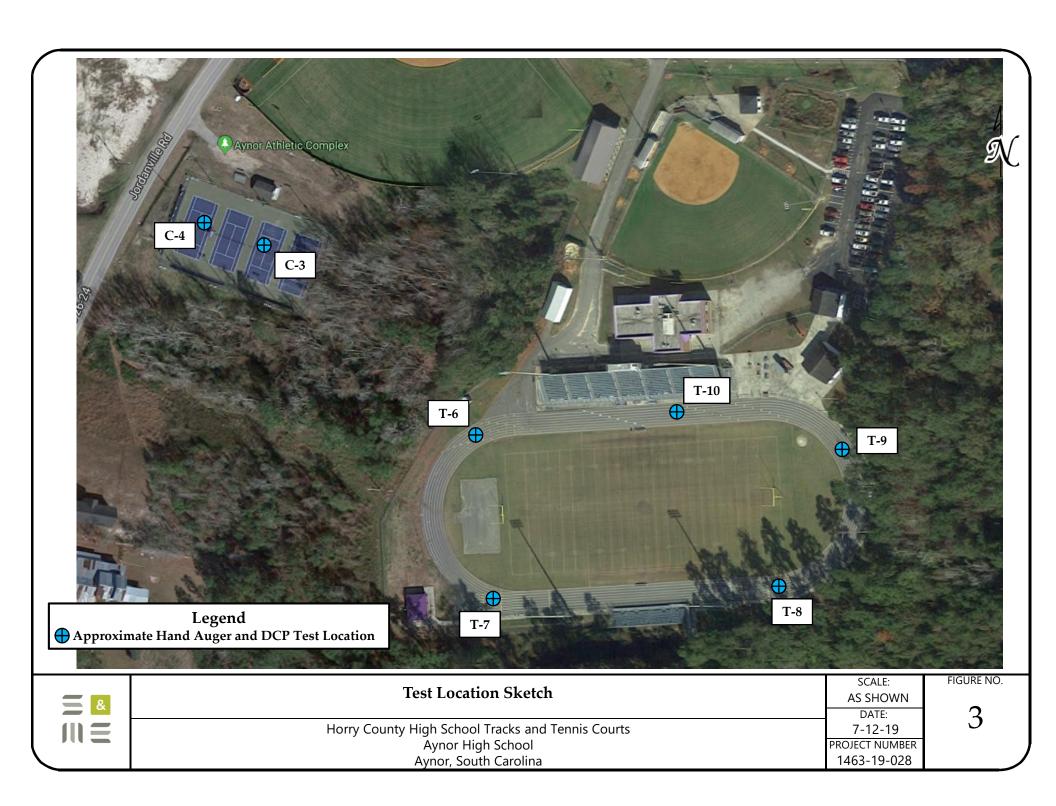
Ву:	
	Robin B. Strickland, CPPB
	Procurement Officer

#### **Attachments:**

- 1. AHS Track Boring Logs
- 2. GSFHS Track Boring Logs
- 3. NMBHS Track Boring Logs
- 4. Sign-In Sheet from Mandatory Pre-Bid Meeting

HCS-CC17 (10/00, 1/05, 3/20) 2 of 3





PROJE	ECT:	Horry (	County High Schools Trac Horry County, South 1463-19-028				Н	AND AUGER BORING LOG: T-6	
DATE	START	ED:	6/20/19	DATE FINISHED:	6/20/19			NOTES:	
								Elevation unknown.	
SAMPI	LING MI	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate				
WATE	R LEVE	L:	Not encountered.						
Depth (feet)	GRAPHIC LOG		MATERIAL DI			ELEVATION (feet)	WATER LEVEL	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60.80	: :
		ASPH	<b>ALT</b> - Approximately 5 inch	nes thick.					
		thick.	EY SAND BASE COURSE						
			LAY (CH) - Mostly medium and, orange, yellow, and gr		trace				
1 -		iiic sa	ind, orange, yenow, and gr	ay, moist, mm to stin.					
2 -							_	8	
3 -		\$	Stiff				_	10	)
			ли.						
4 -		<b>.</b>							_
•		Boring	terminated at 4 ft					14	ļ



PROJE	ECT:	Horry (	County High Schools Tra Horry County, South 1463-19-02	n Carolina			Н	AND AUGER BORING LOG: T-7	
DATE S	START	ED:	6/20/19	DATE FINISHED:	6/20/19			NOTES:	
								Elevation unknown.	
SAMPL	ING M	ETHOD:	: Grab Sample	PERFORMED BY:	K. Fugate				
WATER	RLEVE	L:	Not encountered.				1		
Depth (feet)	GRAPHIC LOG		MATERIAL D	ESCRIPTION		ELEVATION (feet)	WATER	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60.80	DCP VALUE
		ASPH	ALT - Approximately 4 1/2	2 inches thick.					
		thick.	EY SAND BASE COURSE						
1 -		to med	RLY GRADED SAND WITH dium sand, few non plasti m dense.						
-									20+
2 -							_		20+
3 -							_	•	16
	1.1	Poring	terminated at 2.25 ft						
		boring	g terminated at 3.25 ft						



PROJEC	CT:	Horry (	County High Schools Trac Horry County, South 1463-19-028	Carolina			Н	AND AUGER BORING LOG: T-8	
DATE S	TARTE	D:	6/20/19	DATE FINISHED:	6/20/19			NOTES: Elevation unknown.	
								Elevation unknown.	
SAMPLII	NG ME	THOD:	Grab Sample	PERFORMED BY:	K. Fugate				
WATER	LEVEL	:	Not encountered.						
Depth (feet)	GRAPHIC LOG		MATERIAL DI	ESCRIPTION		ELEVATION (feet)	WATER LEVEL	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60.80	DCP VALUE
	0000		ALT - Approximately 5 inch						
) (2000) (2000)		thick.	EY SAND BASE COURSE						
1 -	/.	to med	LY GRADED SAND WITH lium sand, few non plastic n dense.				_	7	20+
2 -							_		11
		FAT C	LAY (CH) - Mostly medium	to high plasticity fines,					
		orange	e and grey, moist, firm.  EY SAND (SC)- Mostly fine m to high plasticity fines, g	to medium sand, some	9				
3			<b>LAY (CH)</b> - Mostly medium nd, trace organics, gray, n		trace		_		8
4									
4		Boring	terminated at 4 ft						5



PROJE	ECT:	Horry (	County High Schools Trac Horry County, South 1463-19-028				Н	AND AUGER BORING LOG: T-9	
DATE	START	ED:	6/20/19	DATE FINISHED:	6/20/19			NOTES:	
								Elevation unknown.	
SAMPI	LING M	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate				
WATE	R LEVE	L:	Not encountered.						_
Depth (feet)	GRAPHIC LOG		MATERIAL DI	ESCRIPTION		ELEVATION (feet)	WATER	DYNAMIC CONE PENETRATION RESISTANCE (blows/1.75 in.) 10 20 30 60.80	DCP VALUE
		ASPH	ALT - Approximately 5 3/4	inches thick.					
1 -		thick.	EY SAND BASE COURSE  EY SAND (SC) - Mostly fine dium plasticity fines, orange.	e to medium sand, sone	e low		_		20+
2 -							-		20+
3 -									
3 -		orange	<b>ELAY (CH)</b> - Mostly medium e and grey, moist, very stiff	· ·	,		_		20+
			<b>ELAY WITH SAND (CH)</b> - Melity fines, few fine sands, gr		firm.				
		L	_arge root.						
4 -		Boring	terminated at 4 ft					<u> </u>	6
		231119	,						3



PROJE	ECT:	Horry (	County High Schools Trad Horry County, South 1463-19-028	Carolina			HA	AND AUGER BORING LOG: T-10	
DATE	START	ED:	6/20/19	DATE FINISHED:	6/20/19			NOTES:	
								Elevation unknown.	
SAMP	LING M	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate				
WATE	R LEVE	L:	Not encountered.						
Depth (feet)	GRAPHIC LOG		MATERIAL D	ESCRIPTION		ELEVATION (feet)	WATER LEVEL	DYNAMIC CONE PENETRATION RESISTANCE (blows/1.75 in.) 10 20 30 60.8	DCP VALUE
		ASPH	<b>ALT</b> - Approximately 4 1/4	inches thick.					
		thick.	EY SAND BASE COURSE						
1 -			LY GRADED SAND WITH lium sand, few non plastic				_	•	20+
2 -			LY GRADED SAND (SP) - moist, medium dense.	Mostly fine sand, trace	fines,		_	,	20+
			<b>EY SAND (SC)</b> - Mostly find iting the plasticity fines, orang						
3 -			<b>Y FAT CLAY (CH)</b> - Mostly		ity		_		7
4 -			some fine sand, orange ar	nd grey, moist, stiff.					
4 -		Boring	terminated at 4 ft						10



Form No: TR-D2216-T265-1

Revision No. 1

Revision Date: 08/16/17

## LABORATORY DETERMINATION OF WATER CONTENT



		AS	STM D 22	16	AASHTO T 2	265 L			
	S&I	ME, Inc Myrt	le Beach:	1330 Highw	ay 501 Busine	ess, Conway, S	C 29526		
Project #:	14	463-19-028-1 <sup>-</sup>	10			Report [	Date:	7/2/2019	
Project Name:	H	orry County H	S Track 8	Tennis - Aync	or	Test Da	te(s):	7/1/2019	
Client Name:	Cl	lough, Harbou	ır & Asso	ciates, LLP					
Client Address:	11	10 Traders Cro	ss, Ste 20	1; Bluffton, SC	29909				
Sample by:	K.	Fugate				Sample Da		6/20/2019	
Method:	<b>A</b> (1	%)	<b>B</b> (0.1	%) <u></u>	Balance ID. Oven ID.	19608 17745	Calibration D Calibration D		
Boring No.	Sample No.	Sample Depth	Tare #	Tare Weight	Tare Wt.+ Wet Wt	Tare Wt. + Dry Wt	Water Weight	Percent Moisture	N o
		ft. or m.		grams	grams	grams	grams	%	t e
T-6, T-8, T-9	Bulk-1	1'-4'	Norah	83.70	147.20	133.40	13.80	27.8%	
T-7, T-9, T-10	Bulk-2	1'-4'	Blue	83.40	237.30	215.50	21.80	16.5%	
Notes / Deviations	/ References								
ASTM D 2216: Labo	oratory Deter	mination of Wa	iter (Moist	ure) Content of S	Soil and Rock b	y Mass			
· · · · · · · · · · · · · · · · · · ·	n Forest, P.E. cal Responsibil Th	ity	t be reprodu	RPF Signature ced, except in full,	without the writte	Senior Revie  Position  en approval of S&		<u>17-Jul</u> Date	
		- <sub>F</sub> : : : : : : : : : : : : : : : : : : :	- F 3.0.	,		FF	,		

#### MATERIAL FINER THAN THE #200 SIEVE

Form No: TR-D1140-1 Revision No. 1

Revision Date: 8/2/17



	S&ME,	Inc Myrtle B	each: 1	330 Highway	501 Business, (	Conway, SC 29	9526	
Project #:	1463-19	-028-110				Report Date:	7/2/2	2019
Project Name:	Horry Co	ounty HS Track	& Tennis	s - Aynor		Test Date(s):	7/1/2	2019
Client Name:	Clough,	Harbour & Ass	ociates, L	.LP				
Client Address	s: 110 Trad	lers Cross, Ste	201; Bluff	ton, SC 29909				
Sample by:	K. Fugate	е				LAB#	49	85
					9	Sample Dates:	6/20/	2019
	lethod; A 🗌	В				oaked 🗸	Soak Ti	me 2 Hrs
Boring #	Sample #	Sample Depth	Tare #	Tare Weight	Tare Wt.+ Wet Wt	Tare Wt. + Dry Wt	Tare Wt. + Dry Wt. after	% Passing #200
		ft. or m.		grams	grams	grams	Wash grams	%
T-6, T-8, T-9	Bulk-1	1'-4'	Norah	83.70	147.20	133.40	96.90	73.4%
T-7, T-9, T-1	0 Bulk-2	1'-4'	Blue	83.40	237.30	215.50	175.80	30.1%
Balance ID.	19608	Calibration Do	ate: 2/2	28/2018 #2	00 Sieve	18775 Cal	ibration Date:	2/28/2019
Notes / Deviation	ons / References:	ASTM D1	140: Amoı	unt of Material i	n Soil Finer Thar	n the No. 200 (7	5-um) ) Sieve	
R	on Forest, P.E.		$\mathcal{R}_{\mathcal{L}}$	$\mathcal{P}\mathcal{F}$	Ser	nior Reviewer		<u>17-Jul</u>
	hnical Responsibility			ature		Position		Date
	This re	eport shall not be r	eproduced,	except in full with	out the written ap	proval of S&ME, Ir	nc.	

Form No. TR-D4318-T89-90 Revision No. 1

Revision Date: 7/26/17





	ASTM D 43	18 🗵	AASHTO	Т 89	□ AASH	HTO T 90				
	S&ME, Inc	Myrtle Bea	ach: 133	0 Highwa	y 501 Busii	ness, Co	nway, SC	29526		
Project	#: 1463-19-028-11	0					Report D	Date:	7/2/20	19
Project	Name: Horry County H	S Track &	Tennis - Ay	nor			Test Da	te(s)	6/28/20	)19
Client N			<del>-</del>							
Client A				SC 29909	)					
Boring #			ple #:	Bulk-		Sam	ple Date:	6/20/201	9	
Location			_AB #:	4985			Depth:			
			with Sand				Вериі.	· <del>-</del>		
	•	ID#	Cal Date:		and Specific	cation	5.8	ME ID #	Cal I	Date:
Balance		401	2/28/2018		ving tool	catton		11368		2018
LL Appar		301	9/1/2018	3.50	g :00:				3, .,	
Oven										
Pan	#			Liquio	d Limit				Plastic Limi	t
	Tare #	104	74	68				27	32	
Α	Tare Weight	14.85	14.92	14.24				14.25	14.35	
В	Wet Soil Weight + A	31.87	31.99	31.84				21.88	21.92	
С	Dry Soil Weight + A	25.55	25.55	24.94				20.24	20.28	
D	Water Weight (B-C)	6.32	6.44	6.90				1.64	1.64	
E	Dry Soil Weight (C-A)	10.70	10.63	10.70				5.99	5.93	
F	% Moisture (D/E)*100	59.1%	60.6%	64.5%				27.4%	27.7%	
N	# OF DROPS	34	24	15						
LL	LL = <b>F</b> * FACTOR	34	24	13				Moisture Co	STM D 221	-
Ave.	Average					$\overline{}$	1 /	One Point I	27.6%	
7	70.0					$\neg$ )	N	Factor	N	Factor
							20	0.974	26	1.005
						_	21	0.979	27	1.009
tend	65.0						22	0.985	28	1.014
Con '	35.0					_	23	0.99	29	1.018
ture Content			++				24	0.995	30	1.022
ist							25	1.000 NP, Non-Pl	actic	
% Moist	50.0					_	'	Liquid L		
			7					Plastic L		8
						_		Plastic L		3
4	55.0									
•	10 15 20	25 30	35 40	# of 1	Drops	100		Group Syn		
				# 01 1	orops			Iultipoint N		<b>✓</b>
Wat Dr	eparation Dry Prepa	ration 🗸	Air Drie	ed 🗸				ne-point N	netrioa	<u> </u>
	Peviations / References:	ation 🖆	All DITE	eu ∐						
TVOIES / L	pertations / References.									
ASTM D	ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils									
	Ron Forest, P.E.		$\mathcal{RPF}$		Senio	or Revie	ewer		7/17	/2019
	Technical Responsibility		Signature		<u>55.110</u>	Position				
	,	all not be seen	_	unt in full	ithout the		ual of CO.NA	- Inc	טנ	
	This report sh	ии пот ве гер	тоиисеа, ехсе	pi in fuil, Wi	unout the wrt	неп аррго	vul oj S&ME	, INC.		

#### **MOISTURE - DENSITY REPORT**

Form No. TR-D698-2 Revision No.: 1

Revision Date: 07/25/17

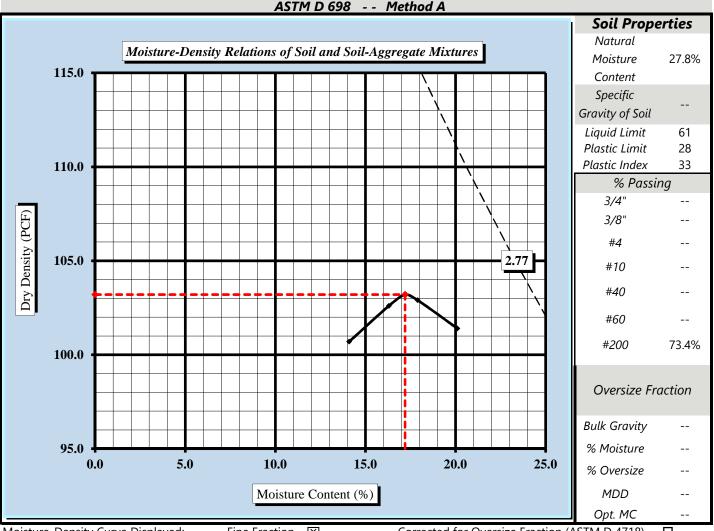


#### Quality Assurance

	S&ME, Inc Myrtle	e Beach: 1330 Highv	vay 501 Busines	s, Conway, SC 29526	
S&ME Project #:	1463-19-028-110	)		Report Date:	7/2/2019
Project Name:	Horry County HS	Track & Tennis - Ayno	or	Test Date(s):	6/26/2019
Client Name:	Clough, Harbour	& Associates, LLP			
Client Address:	110 Traders Cross	s, Ste 201; Bluffton, SC	29909		
Boring #:	T-6, T-8, T-9	Sample #:	Bulk-1	Sample Date:	6/20/2019
Location:	Track	Lab #:	4985	Depth:	1'-4'

Sample Description: Mottled Fat Clay with Sand (CH)

103.2 PCF. **Maximum Dry Density Optimum Moisture Content** 17.2%



Moisture-Density Curve Displayed: Fine Fraction Corrected for Oversize Fraction (ASTM D 4718) Sieve Size used to separate the Oversize Fraction: #4 Sieve 区 3/8 inch Sieve □ 3/4 inch Sieve □ Mechanical Rammer Manual Rammer Moist Preparation □ Dry Preparation ⊠

References / Comments / Deviations:

ASTM D 2216: Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass

ASTM D 698: Laboratory Compaction Characteristics of Soil Using Standard Effort

Ron Forest, P.E. **RPF** Senior Reviewer 7/17/2019 Technical Responsibility Signature Position This report shall not be reproduced, except in full, without the written approval of S&ME, Inc.

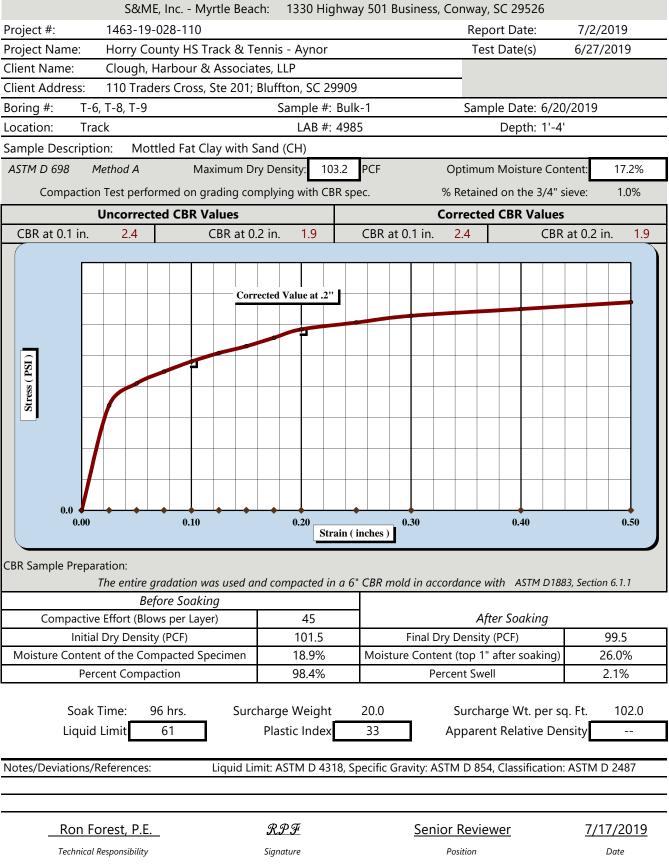
Conway, SC 29526

Date

### **CBR (CALIFORNIA BEARING RATIO)** OF LABORATORY COMPACTED SOIL

Revision No. 2 Revision Date: 08/11/17





Form No. TR-D4318-T89-90 Revision No. 1

### LIQUID LIMIT, PLASTIC LIMIT, & PLASTIC INDEX



Revision Date: 7/26/17

		ASTM D 4318	X	AASHTO	Т 89 🔲	AASHTO 1	Г 90 🔲				
	9	S&ME, Inc M	yrtle Bea	ch: 1330	Highway 5	01 Business,	Conway, SC	29526			
Project	#: 146	3-19-028-110					Report [	Date:	7/2/20	19	
Project	Name: Hor	ry County HS	Track & T	ennis - Ay	nor		Test Da	ite(s)	6/28/20	19	
Client N	lame: Clou	ugh, Harbour 8	પ્રે Associa	ites, LLP							
Client A	Address: 110	Traders Cross	, Ste 201;	Bluffton, S	SC 29909						
Boring =	#: T-7, T-9,	T-10	Samp	ole #:	Bulk-2	9	Sample Date:	ample Date: 6/20/2019			
Location	n: Track		L	AB #:	4985		Depth:	1'-4'			
Sample	Description:	Gray Clay	yey Sand (SC)								
	d Specification	S&ME IL		Cal Date:		nd Specification	n S&	ME ID #	Cal L		
Balance		0040		2/28/2018	Groovir	ng tool		11368	9/1/	2018	
LL Appai	ratus	1880		9/1/2018							
Oven Pan	#	1774		4/8/2019	Liquid Li	mit			Plastic Limit		
Pan	#	Tare #:	34	58	67	TIIL		107	115		
Α	Tare Weight	raic ".	14.87	14.66	14.67			14.58	14.63		
B	Wet Soil Weigh	ht + Δ	31.88	31.74	31.80			21.57	21.55		
С	Dry Soil Weigh		28.28	28.09	27.87			20.79	20.75		
D	Water Weight		3.60	3.65	3.93			0.78	0.80		
E	Dry Soil Weight		13.41	13.43	13.20			6.21	6.12		
				<u> </u>							
F	% Moisture (D	/E)" 100	26.8%	27.2%	29.8%			12.6%	13.1%		
N LL	# OF DROPS LL = <b>F</b> *	FACTOR	30	24	15				ontents dete STM D 2216	-	
Ave. Average				<u> </u>					12.9%		
	35.0 T							One Point I	Liquid Limi	t	
				1 1					Ν	Factor	
							N	Factor			
							20	0.974	26	1.005	
l III							20 21	0.974 0.979	26 27	1.005 1.009	
ontent	30.0						20 21 22	0.974	26 27 28	1.005	
e Content							20 21	0.974 0.979 0.985	26 27	1.005 1.009 1.014	
ure Coi							20 21 22 23	0.974 0.979 0.985 0.99	26 27 28 29	1.005 1.009 1.014 1.018	
Moisture Content							20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl	26 27 28 29 30	1.005 1.009 1.014 1.018	
oist	30.0						20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L	26 27 28 29 30 astic	1.005 1.009 1.014 1.018 1.022	
% Moisture Content	30.0						20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L Plastic L	26 27 28 29 30 astic .imit 2	1.005 1.009 1.014 1.018 1.022	
% Moist	25.0						20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L Plastic L	26 27 28 29 30 astic .imit 2 .imit 1 ndex 1	1.005 1.009 1.014 1.018 1.022	
% Moist	30.0	15 20	25 30	35 40		100	20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L Plastic L Plastic Ir Group Syn	26 27 28 29 30 astic .imit 2 .imit 1 ndex 1	1.005 1.009 1.014 1.018 1.022	
% Moist	25.0	15 20	25 30	35 40	# of Dro	100	20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L Plastic L Plastic Ir Group Syn	26 27 28 29 30 astic .imit 2 .imit 1 ndex 1 nbol S	1.005 1.009 1.014 1.018 1.022	
% Moist	25.0					pps 100	20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L Plastic L Plastic Ir Group Syn	26 27 28 29 30 astic .imit 2 .imit 1 ndex 1 nbol S	1.005 1.009 1.014 1.018 1.022	
Wet Pr	25.0 20.0 10 reparation	Dry Preparat		35 40		100	20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L Plastic L Plastic Ir Group Syn	26 27 28 29 30 astic .imit 2 .imit 1 ndex 1 nbol S	1.005 1.009 1.014 1.018 1.022	
Wet Pr	25.0	Dry Preparat				pps 100	20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L Plastic L Plastic Ir Group Syn	26 27 28 29 30 astic .imit 2 .imit 1 ndex 1 nbol S	1.005 1.009 1.014 1.018 1.022	
Wet Pr	25.0 20.0 10 reparation	Dry Preparat				ops 100	20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L Plastic L Plastic Ir Group Syn	26 27 28 29 30 astic .imit 2 .imit 1 ndex 1 nbol S	1.005 1.009 1.014 1.018 1.022	
Wet Pr	25.0 20.0 10 reparation	Dry Preparat rences:	ion 🗸	Air Drie	d 🗸	100	20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L Plastic L Plastic Ir Group Syn	26 27 28 29 30 astic .imit 2 .imit 1 ndex 1 nbol S	1.005 1.009 1.014 1.018 1.022	
Wet Pr	25.0  20.0  10  reparation  Deviations / Reference	Dry Preparat rences: it, Plastic Limit, a	ion 🗸	Air Drie	d 🗸	ops 100 Senior Re	20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L Plastic L Plastic Ir Group Syn	26 27 28 29 30 astic .imit 2 .imit 1 ndex 1 nbol S	1.005 1.009 1.014 1.018 1.022 7 3 4 C	
Wet Pr	25.0  20.0  10  reparation Deviations / Reference  4318: Liquid Lim	Dry Preparat rences: it, Plastic Limit, o	ion 🗸	Air Drie	d 🗸	pps	20 21 22 23 24 25	0.974 0.979 0.985 0.99 0.995 1.000 NP, Non-Pl Liquid L Plastic L Plastic Ir Group Syn	26 27 28 29 30  astic  imit 1 imit 1 ndex 1 nbol S Method Method	1.005 1.009 1.014 1.018 1.022 7 3 4 C	

#### **MOISTURE - DENSITY REPORT**

Form No. TR-D698-2 Revision No. : 1

Revision Date: 07/25/17

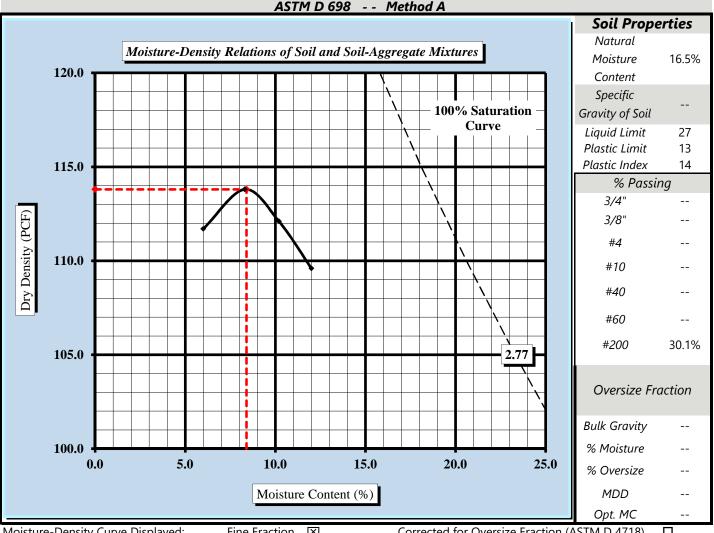


#### **Quality Assurance**

	S&ME, Inc Myrt	le Beach: 1330 High	way 501 Busines	ss, Conway, SC 29526	
S&ME Project #:	1463-19-028-11	0		Report Date:	7/2/2019
Project Name:	Horry County HS	Track & Tennis - Ayno	or	Test Date(s):	6/26/2019
Client Name:	Clough, Harboui	& Associates, LLP			
Client Address:	110 Traders Cros	ss, Ste 201; Bluffton, SC	29909		
Boring #:	T-7, T-9, T-10	Sample #:	Bulk-2	Sample Date:	6/20/2019
Location:	Track	Lab #:	4985	Depth:	1'-4'

Sample Description: Gray Clayey Sand (SC)

Maximum Dry Density 113.8 PCF. Optimum Moisture Content 8.4%



Moisture-Density Curve Displayed: Fine Fraction ⊠ Corrected for Oversize Fraction (ASTM D 4718) ☐
Sieve Size used to separate the Oversize Fraction: #4 Sieve ☑ 3/8 inch Sieve ☐ 3/4 inch Sieve ☐
Mechanical Rammer ☑ Manual Rammer ☐ Moist Preparation ☐ Dry Preparation ☑

References / Comments / Deviations:

ASTM D 2216: Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass

ASTM D 698: Laboratory Compaction Characteristics of Soil Using Standard Effort

Ron Forest, P.E. $\mathcal{RPF}$ Senior Reviewer7/17/2019Technical ResponsibilitySignaturePositionDate

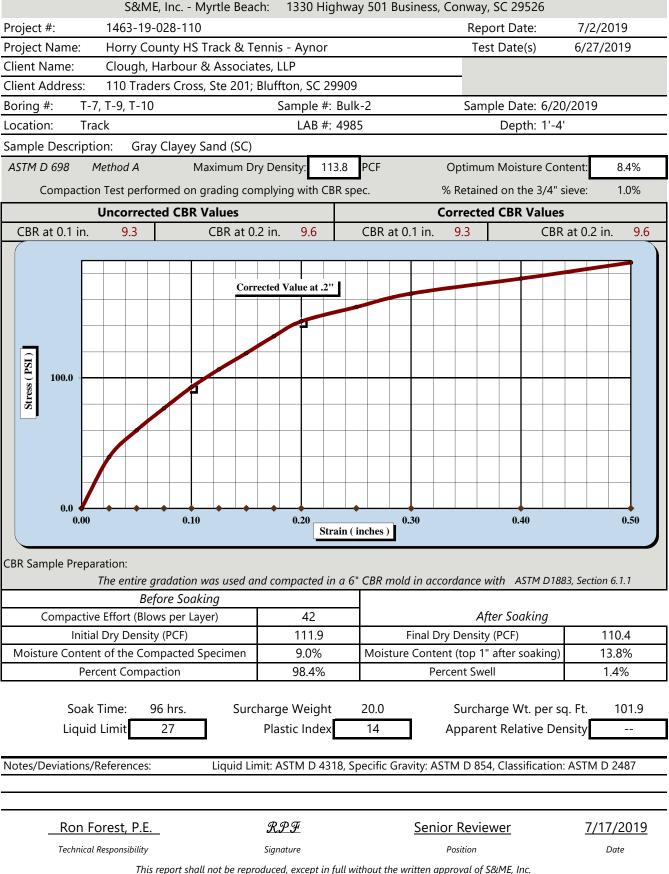
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### Revision No. 2

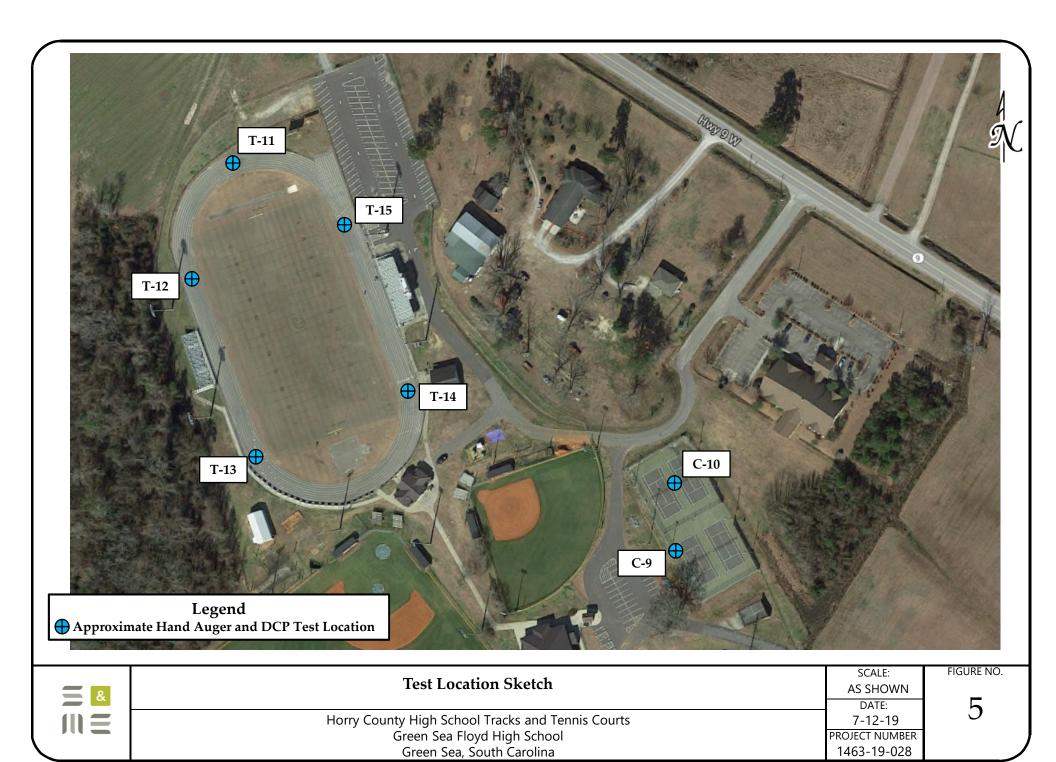
Revision Date: 08/11/17

### **CBR (CALIFORNIA BEARING RATIO)** OF LABORATORY COMPACTED SOIL









1463-19-028

PROJE	PROJECT: Horry County High Schools Tracks & Tennis Courts Horry County, South Carolina 1463-19-028						HAND AUGER BORING LOG: T-11						
DATE	DATE STARTED: 6/25/19 DATE FINISHED: 6/25/19							NOTES:					
								Elevation unknown.					
SAMPI	LING M	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate								
WATE	R LEVE	L:	Not encountered.										
Depth (feet)	lo l				ELEVATION (feet)	WATER LEVEL	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60.80	UC					
		ASPH	<b>ALT</b> - Approximately 2 1/4	inches thick.									
		inches	THE LIMESTONE BASE CONTINUES.  Y FAT CLAY (CH) - Mostly some fine sand, orange, re	medium to high plastici	ity								
4			<b>g</b> -,	-, g <b>,</b> ,,									
2 -			•				-						
ŭ		F							}				
4 -		Boring	terminated at 4 ft					<u> </u>	)				



PROJE	PROJECT: Horry County High Schools Tracks & Tennis Courts Horry County, South Carolina 1463-19-028							HAND AUGER BORING LOG: T-12						
DATE	DATE STARTED: 6/25/19 DATE FINISHED: 6/25/19						NOTES:							
								Elevation unknown.						
SAMPI	_ING M	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate									
WATE	R LEVE	L:	Not encountered.		1									
Depth (feet)	MATERIAL DESCRIPTION				ELEVATION (feet)	WATER LEVEL	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60.80	DCP VALUE						
		ASPHA	<b>ALT</b> - Approximately 2 1/4	inches thick.										
		MARINE LIMESTONE BASE COURSE - Approximately 4 inches thick.  SANDY FAT CLAY (CH) - Mostly medium to high plasticity												
			<b>Y FAT CLAY (CH)</b> - Mostly some fine sand, orange, re											
1 -							_		10					
2 -		F	Firm.				_		8					
3 -		S	Stiff.				_		9					
4 -														
7		Boring	terminated at 4 ft					•	9					



PROJECT: Horry County High Schools Tracks & Tennis Courts Horry County, South Carolina 1463-19-028							HAND AUGER BORING LOG: T-13					
DATE	STARTI	ED:	6/25/19	DATE FINISHED:	6/25/19			NOTES:				
			-					Elevation unknown.				
SAMPI	_ING MI	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate							
WATE	R LEVE	L:	Not encountered.									
Depth (feet)	0					ELEVATION (feet)	WATER	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60.80	DCP VALUE			
		ASPH	<b>ALT</b> - Approximately 2 3/4	inches thick.								
		inches	IE LIMESTONE BASE COL thick.  SAND (SM) - Mostly fine to									
					on							
1 -							-	21	0+			
2 -			<b>Y FAT CLAY (CH)</b> - Mostly some fine to medium sand				_	21	0+			
3 -			terminated at 4 ft	, crange and rea, mees,			-		5			
		Domig	Communication at 7 It						•			



PROJE	PROJECT: Horry County High Schools Tracks & Tennis Courts Horry County, South Carolina 1463-19-028						HAND AUGER BORING LOG: T-14						
DATE:	STARTI	ED:	6/25/19	DATE FINISHED:	6/25/19			NOTES:					
								Elevation unknown.					
SAMPL	_ING MI	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate								
WATE	R LEVE	<u>-:</u>	Not encountered.										
Depth (feet)	GRAPHIC LOG					ELEVATION (feet)	WATER LEVEL	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60.80	DCP VALUE				
		ASPH	<b>ALT</b> - Approximately 3 1/4	inches thick.									
		inches											
		SAND' fines, s	Y FAT CLAY (CH) - Mostly some fine sand, orange ar	medium to high plastici nd red, moist, firm to ver	ty y stiff.								
2 -		§		id rea, moist, tirm to ver	у ѕип.		-		9				
3 -		F	Firm. /ery stiff.				_		8				
4 -		Boring	terminated at 4 ft					· · · · · · · · · · · · · · · · · · ·	20+				



PROJE	PROJECT: Horry County High Schools Tracks & Tennis Courts Horry County, South Carolina 1463-19-028						HAND AUGER BORING LOG: T-15						
DATE	START	ED:	6/25/19	DATE FINISHED:	6/25/19			NOTES:					
								Elevation unknown.					
SAMPI	_ING M	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate								
WATE	R LEVE	L:	Not encountered.										
Depth (feet)	DH 90 COST MATERIAL DESCRIPTION				ELEVATION (feet)	WATER LEVEL	DYNAMIC CONE PENETRATION RESISTANCE (blows/1.75 in.) 10 20 30 60.80	DCP VALUE					
		ASPH	<b>ALT</b> - Approximately 2 1/4	inches thick.									
		MARINE LIMESTONE BASE COURSE - Approximately 5 3/4 inches thick.  SANDY FAT CLAY (CH) - Mostly medium to high plasticity fines, some fine sand, orange, grey and red, moist, stiff to firm.											
		111103, 3	some line sand, orange, gi	ey and red, moist, sun to	, , , , , , , , , , , , , , , , , , , ,								
2 -							-		9 9				
		F							6				
4 -		Boring	terminated at 4 ft					<u>i</u> ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	11				



Form No: TR-D2216-T265-1

Revision No. 1

Revision Date: 08/16/17

## LABORATORY DETERMINATION OF WATER CONTENT



ASTM D 2216 🖳 AASHTO T 265 🗀										
S&ME, Inc Myrtle Beach: 1330 Highway 501 Business, Conway, SC 29526										
Project #:	14	463-19-028-1	10			Report	Date:	7/3/2019		
Project Name:	Н	orry County H	S Track &	Tennis - Gree	n Sea	Test Da	ite(s):	7/1/2019		
Client Name:	C	lough, Harbou	ır & Assoc	ciates, LLP						
Client Address:	1	10 Traders Cro	ss, Ste 20	1; Bluffton, SC	29909					
Sample by:	K.	. Fugate				Sample Da		6/26/2019		
Method:	<b>A</b> (1	%)	B (0.1	%) <u>~</u>	Balance ID. Oven ID.	19608 17745	Calibration D Calibration D			
Boring No.	Sample	Sample	Tare #	Tare Weight	Tare Wt.+	Tare Wt. +	Water	Percent	N	
	No.	Depth			Wet Wt	Dry Wt	Weight	Moisture	o t	
		ft. or m.		grams	grams	grams	grams	%	е	
T-11 - T-15	Bulk-1	1'-4'	Blue	83.20	178.80	162.70	16.10	20.3%		
C-9, C-10	Bulk-2	1'-4'	MNO	82.60	332.10	307.90	24.20	10.7%		
Notes / Deviations ,	/ Poforoncos									
Titoles / Deviations	/ References									
-										
ASTM D 2216: Labo	oratory Deter	rmination of Wa	iter (Moist	ure) Content of S	Soil and Rock b	y Mass				
Ror	n Forest, P.E	<u>.                                    </u>		$\mathcal{RPF}$		Senior Revie	<u>ewer</u>	<u>12-Jul</u>		
Technic	Position Date									
	Th	nis report shall not	: be reprodu	ced, except in full,	without the writte	n approval of S&	мЕ, Inc.			

#### MATERIAL FINER THAN THE #200 SIEVE

Form No: TR-D1140-1 Revision No. 1

Revision Date: 8/2/17



	S&ME,	Inc Myrtle B	each: 1	330 Highway	501 Business, (	Conway, SC 29	9526	
Project #:	1463-19	-028-110	Report Date:	7/3/2	2019			
Project Name:	Horry Co	ounty HS Track	& Tennis	s - Green Sea		Test Date(s):	7/1/2	2019
Client Name:	Clough,	Harbour & Ass	ociates, L	.LP				
Client Address	:: 110 Trad	lers Cross, Ste	201; Bluff	ton, SC 29909				
Sample by:	K. Fugate	е				LAB#	49	87
					9	Sample Dates:	6/26/	
	lethod; A 🗌	В				oaked 🗸	Soak Ti	me 2 Hrs
Boring #	Sample #	Sample Depth	Tare #	Tare Weight	Tare Wt.+ Wet Wt	Tare Wt. + Dry Wt	Tare Wt. + Dry Wt. after Wash	% Passing #200
		ft. or m.		grams	grams	grams	grams	%
T-11 - T-15	Bulk-1	1'-4'	Blue	83.20	178.80	162.70	113.00	62.5%
C-9, C-10	Bulk-2	1'-4'	MNO	82.60	322.10	307.90	249.60	25.9%
Balance ID.	19608	Calibration Do	ate: 2/2	28/2018 #2	00 Sieve	18775 Cal	ibration Date:	2/28/2019
Notes / Deviatio	ns / References:	ASTM D1	140: Amoı	unt of Material i	n Soil Finer Thar	n the No. 200 (7	5-um) ) Sieve	
_ R	on Forest, P.E.		$\mathcal{R}_{i}$	$\mathcal{P}\mathcal{F}$	<u>S</u> er	nior Reviewer		<u>12-Jul</u>
	hnical Responsibility		Sign	ature		Position		Date
	<u>T</u> his re	except in full with	out the written ap	proval of S&ME, Ir	пс.			

Form No. TR-D4318-T89-90 Revision No. 1

### LIQUID LIMIT, PLASTIC LIMIT, & PLASTIC INDEX



Revision Date: 7/26/17

	AS	STM D 4318	$\boxtimes$	AASHTO '	т 89 🗆	AASI	HTO T 90				
	S&N	ΛΕ, Inc M	yrtle Bea	ch: 1330	Highway	501 Busi	ness, Co	nway, SC	29526		
Project #	#: 1463-1	9-028-110						Report [	Date:	7/3/20	19
Project I	Name: Horry C	County HS	Track & T	ennis - Gr	een Sea			Test Da	te(s)	6/28/20	19
Client N	ame: Clough	, Harbour 8	પ્રે Associa	ates, LLP							
Client A	ddress: 110 Tra	ders Cross	, Ste 201;	Bluffton, S	SC 29909						
Boring #	#: T-11 - T-15		Samp	ole #:	Bulk-1		Sam	ple Date:	6/26/201	9	
Location	n: Track		L	AB #:	4987			Depth:	1'-4'		
Sample	Description:	Mottled	Sandy Fa	t Clay (CH)	)						
Type and	Specification	S&ME IL	) #	Cal Date:	Туре с	and Specifi	ication	S&	ME ID #	Cal L	Date:
Balance		0040		2/28/2018	Groov	ring tool			11368	9/1/2	2018
LL Appara	atus	1880		9/1/2018							
Oven  Pan ‡	и.	1774	5	4/8/2019	المناسنا	Limaia				Dia ati a Liusit	
Pan Ŧ	#	Tare #:	81	96	Liquid 107	Limit			25	Plastic Limit 67	
Α	Tare Weight	Tale #.	14.77	14.69	14.67				14.87	14.93	
В	Wet Soil Weight +	۸	31.47	31.55	31.68				21.87	21.92	
С	Dry Soil Weight +		25.68	25.61	25.57				20.42	20.48	
D	Water Weight (B-C		5.79	5.94	6.11				1.45	1.44	
			10.91	10.92	10.90				5.55	5.55	
E	Dry Soil Weight (C										
F	% Moisture (D/E)*	100	53.1%	54.4%	56.1%				26.1%	25.9%	
N	# OF DROPS	CTOD	33	24	15					ontents dete STM D 2216	-
LL	LL = <b>F</b> * FAC								A		)
Ave.	Average	2						ı	D :	26.0%	
6	50.0 T			$\overline{}$			$\neg$ )	N	One Point I	Iquia Limi <b>N</b>	Factor
							_	20	0.974	26	1.005
								21	0.979	27	1.009
tent							_	22	0.985	28	1.014
Con							_	23	0.99	29	1.018
ture Content	55.0							24	0.995	30	1.022
oist			lack				_	25	1.000 NP, Non-Pl	actic	
% Moist			1	•			_		Liquid L		
<b>S</b>							_		Plastic L		
							_		Plastic Ir		
5	50.0							(	Group Syn		
	10 15	20	25 30	35 40	# of D	rops	100		1ultipoint N		<b>√</b>
									ne-point N		_
Wet Pre	eparation [	Dry Preparat	ion 🗸	Air Drie	d 🗸				- 1		
	Deviations / Referenc	•									
ACTM D	1210: Liquid Limit D	lastic Limit	Qı Dlastic I	nday of Caile	-						
ASTIN D2	4318: Liquid Limit, P		x riustic l		)	C ·	ou Deci			7/10	2010
•	Ron Forest, P.E	<u>.                                    </u>		$\mathcal{RPF}$		seni	or Revie	wer		<u>7/12/</u>	<u> </u>
		-						<u> </u>		_	
	Technical Responsibili	ity is report shall		Signature			Position			Da	te

#### **MOISTURE - DENSITY REPORT**

Form No. TR-D698-2 Revision No. : 1

Revision Date: 07/25/17

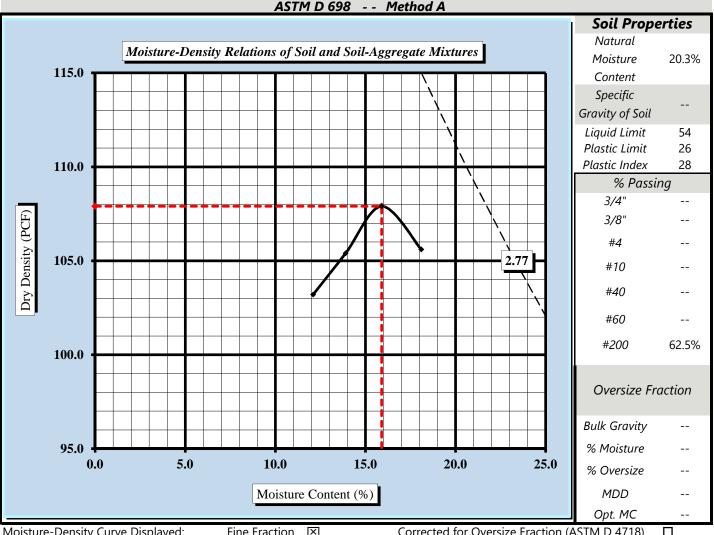


#### **Quality Assurance**

	S&ME, Inc Myrtle	e Beach: 1330 High	way 501 Busines	ss, Conway, SC 29526	
S&ME Project #:	1463-19-028-110			Report Date:	7/3/2019
Project Name:	Horry County HS	Track & Tennis - Gree	n Sea	Test Date(s):	6/28/2019
Client Name:	Clough, Harbour	& Associates, LLP			
Client Address:	110 Traders Cross	s, Ste 201; Bluffton, SC	29909		
Boring #:	T-11 - T-15	Sample #:	Bulk-1	Sample Date:	6/26/2019
Location:	Track	Lab #:	4987	Depth:	1'-4'

Sample Description: Mottled Sandy Fat Clay (CH)

Maximum Dry Density 107.9 PCF. Optimum Moisture Content 15.9%



Moisture-Density Curve Displayed:Fine Fraction☒Corrected for Oversize Fraction (ASTM D 4718)☐Sieve Size used to separate the Oversize Fraction:#4 Sieve ☒3/8 inch Sieve ☐3/4 inch Sieve ☐Mechanical Rammer☒Manual Rammer ☐Moist Preparation ☐Dry Preparation ☒

References / Comments / Deviations:

ASTM D 2216: Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass

ASTM D 698: Laboratory Compaction Characteristics of Soil Using Standard Effort

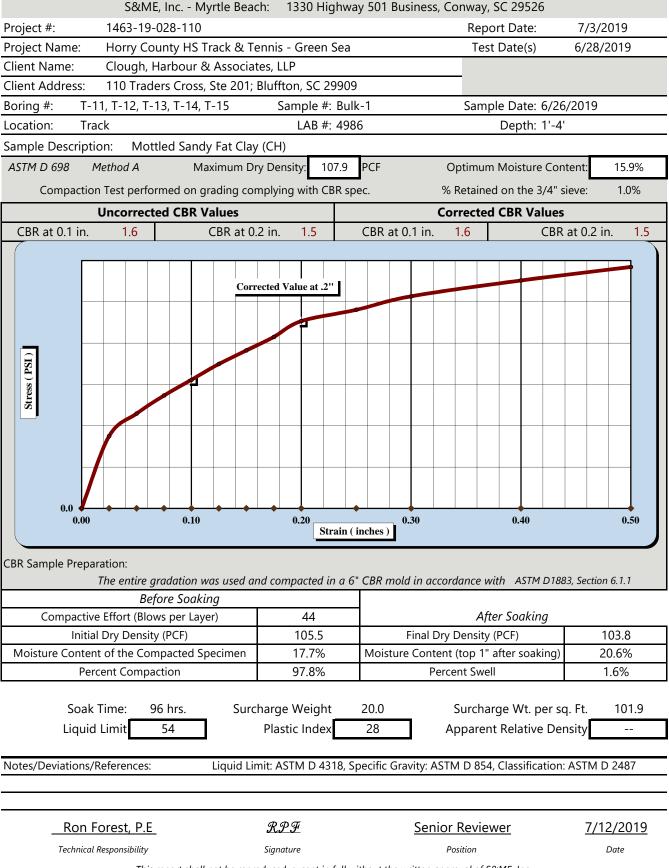
Ron Forest, P.E. $\mathcal{RPF}$ Senior Reviewer7/12/2019Technical ResponsibilitySignaturePositionDate

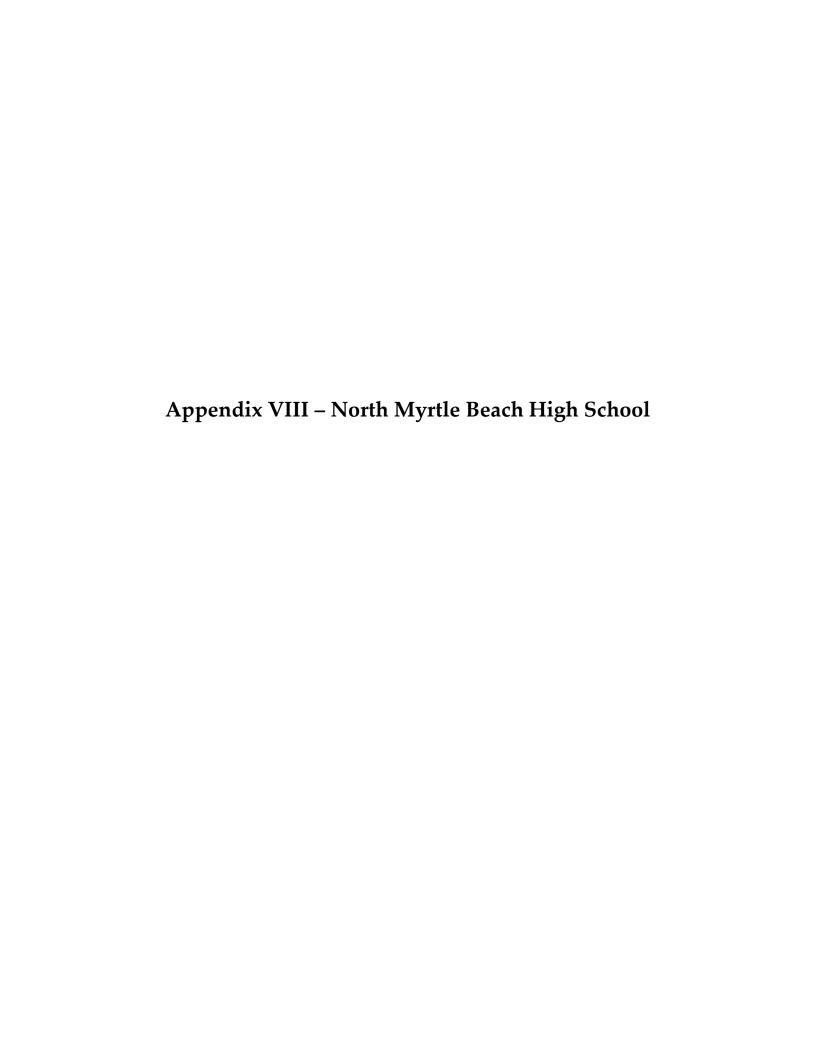
### Revision No. 2

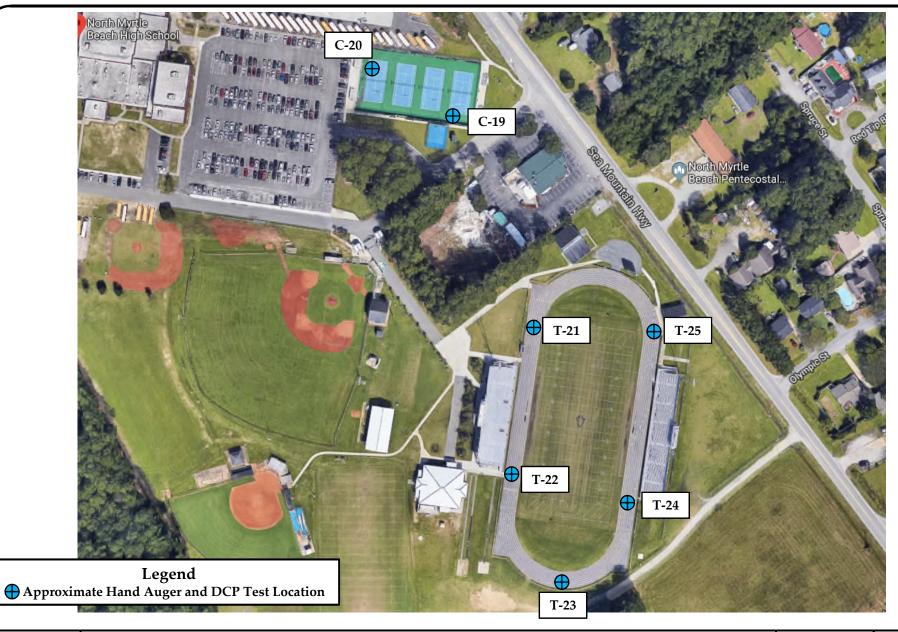
Revision Date: 08/11/17

### CBR (CALIFORNIA BEARING RATIO) OF LABORATORY COMPACTED SOIL











Test Location Sketch

Test Location Sketch

DATE:

Horry County High School Tracks and Tennis Courts

North Myrtle Beach High School

North Myrtle Beach, South Carolina

SCALE:

AS SHOWN

7-12-19

PROJECT NUMBER
1463-19-028

FIGURE NO.

8

PROJECT: Horry County High Schools Tracks & Tennis Courts  Horry County, South Carolina  1463-19-028						HAND AUGER BORING LOG: T-21						
DATE	START	ED:	6/26/19	DATE FINISHED:	6/26/19			NOTES:				
								Elevation unknown.				
SAMP	LING MI	ETHOD:	Grab Sample	PERFORMED BY: K	. Fugate							
WATE	R LEVE	L:	Not encountered.									
Depth (feet)	GRAPHIC LOG		MATERIAL D			ELEVATION (feet)	WATER	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60 .80.	DCP VALUE			
		ASPH/	<b>ALT</b> - Approximately 4 1/2	inches thick.								
1 -		thick.	Y FAT CLAY (CH) - Mostly	- Approximately 2 1/2 incher medium to high plasticity and gray, moist, firm to soft.	es		_	•	7			
2 -							_		6			
3 -							_		5			
4 -		Boring	Soft. terminated at 4 ft						4			



PROJECT: Horry County High Schools Tracks & Tennis Courts Horry County, South Carolina 1463-19-028							HAND AUGER BORING LOG: T-22						
DATE	STARTI	ED:	6/26/19	DATE FINISHED:	6/26/19		NOTES:						
								Elevation unknown.					
SAMPI	LING MI	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate								
WATE	R LEVE	-:	Not encountered.										
Depth (feet)	GRAPHIC LOG		MATERIAL DI	ESCRIPTION		ELEVATION (feet)	WATER	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60.80.					
		ASPHA	<b>ALT</b> - Approximately 4 1/4	inches thick.									
2 -		CLAYE thick.	Y FAT CLAY (CH) - Mostly ity fines, some fine sand, o	- Approximately 2 3/4 in medium to high medium	n		_	6					
4 -		Boring	terminated at 4 ft					<u> </u>					



PROJECT: Horry County High Schools Tracks & Tennis Courts Horry County, South Carolina 1463-19-028							HAND AUGER BORING LOG: T-23					
DATE	START	ED:	6/26/19	DATE FINISHED:	6/26/19	•		NOTES:				
								Elevation unknown.				
SAMP	LING M	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate							
WATE	R LEVE	L:	Not encountered.									
Depth (feet)	GRAPHIC LOG		MATERIAL D	DESCRIPTION		ELEVATION (feet)	WATER LEVEL	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60.80				
		ASPH/	<b>ALT</b> - Approximately 3 1/4	l inches thick.								
		thick.	EY SAND BASE COURSE  Y FAT CLAY (CH) - Mostly some fine sand, orange a	y medium to high plastici								
1 -				3 7,			_	20+				
			SAND (SM) - Mostly fine fines, gray, moist to wet,		ion							
2 -							_	4				
3 -		L	oose.				-	5				
4 -	1 6 1.1 1	Boring	terminated at 4 ft					6				



PROJE	PROJECT: Horry County High Schools Tracks & Tennis Courts Horry County, South Carolina 1463-19-028						HAND AUGER BORING LOG: T-24				
DATE	START	ED:	6/26/19	DATE FINISHED:	6/26/19	NOTES:					
								Elevation unknown.			
SAMPI	LING M	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate						
WATE	R LEVE	L:	Not encountered.								
Depth (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION				ELEVATION (feet)	WATER LEVEL	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60 80	, , ,		
		ASPHA	ALT - Approximately	3 1/2 inches thick.							
		CLAYEY SAND BASE COURSE - Approximately 4 1/2 inches thick.									
				lostly medium to high plasticity ge, red, and gray, moist, stiff to	firm.						
1 -							_	10	0		
									0		
2 -		F	-irm				_	<b>,</b> 8	3		
		·									
3 -							_				
3								6	j		
4 -		Boring	terminated at 4 ft					<u> </u>			



PROJECT: Horry County High Schools Tracks & Tennis Courts Horry County, South Carolina 1463-19-028						HAND AUGER BORING LOG: T-25				
DATE	START	ED:	6/26/19	DATE FINISHED:	6/26/19			NOTES:		
								Elevation unknown.		
SAMPI	LING M	ETHOD:	Grab Sample	PERFORMED BY:	K. Fugate					
WATE	R LEVE	L:	Not encountered.							
Depth (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION				ELEVATION (feet)	WATER	DYNAMIC CONE PENETRATION  RESISTANCE (blows/1.75 in.)  10 20 30 60.80.		
		ASPHA	<b>ALT</b> - Approximately 4 1/4	inches thick.						
2 -		thick.	FY SAND BASE COURSE  Y FAT CLAY (CH) - Mostly some fine sand, orange are some fine sand.	medium to high plastici	ty		-	5		
4 -		Boring	terminated at 4 ft				L	<u> </u>		
		9								



Form No: TR-D2216-T265-1

Revision No. 1

Revision Date: 08/16/17

## LABORATORY DETERMINATION OF WATER CONTENT



	ASTM D 2216 🗹 AASHTO T 265 🗆								
	S&N	ME, Inc Myrt	le Beach:	1330 Highw	ay 501 Busine	ess, Conway, So	C 29526		
Project #:	14	463-19-028-1 <sup>-</sup>	10			Report [	Date:	7/17/2019	
Project Name:	Н	orry County H	S Track &	Tennis - NMB		Test Dat	te(s):	7/12/2019	
Client Name:	Cl	ough, Harbou	r & Assoc	ciates, LLP					
Client Address:	11	10 Traders Cro	ss, Ste 20	1; Bluffton, SC	29909				
Sample by:	K.	Fugate				Sample Dat		7/1/2019	
Method:	<b>A</b> (1	%)	B (0.19	%) <u>~</u>	Balance ID.	19608	Calibration Date: 2/28,		
				·	Oven ID.	17745	Calibration D		
Boring No.	Sample	Sample	Tare #	Tare Weight	Tare Wt.+	Tare Wt. +	Water	Percent	N o
	No.	Depth			Wet Wt	Dry Wt	Weight	Moisture	t
		ft. or m.		grams	grams	grams	grams	%	е
T-21 - T-25	Bulk-1	1'-4'	Linda	83.90	211.40	190.10	21.30	20.1%	
C-19, C-20	Bulk-2	1'-4'	Е	84.10	235.50	204.70	30.80	25.5%	
Notes / Deviations	/ References							•	
ACTM D 221C. Lab	aratam. Data	mination =£\M-	tor /\ 1 = := :	uso) Contout a C	Coil and Deale	, Mass			
ASTM D 2216: Labo	oratory Deter	mination of wa	ter (Moisti	ure) Content of S	soli and Rock b	y Mass			
Ror	Forest, P.E.	<u>.                                    </u>		$\mathcal{RPF}$		Senior Revie	<u>wer</u>	<u>17-Jul</u>	
Techni	cal Responsibil	ity		Signature		Position		Date	
	Th	nis report shall not	be reprodu	ced, except in full,	without the writte	n approval of S&I	ME, Inc.		

#### MATERIAL FINER THAN THE #200 SIEVE

Form No: TR-D1140-1 Revision No. 1

Revision Date: 8/2/17



	S&ME,	Inc Myrtle Bo	each: 1	330 Highway	501 Business,	Conway, SC 29	526	
Project #:	1463-19-	-028-110				Report Date:	7/17/	2019
Project Name:	Horry Co	ounty HS Track	& Tennis	s - NMB		Test Date(s):	7/12/	2019
Client Name:	t Name: Clough, Harbour & Associates, LLP							
Client Address:	110 Trad	ers Cross, Ste	201; Bluff	ton, SC 29909				
Sample by:	K. Fugate	9				LAB#	49	96
					9	Sample Dates:	7/1/2	2019
	nod; A 🗌	B 🗸				oaked 🗸	Soak Tii	
Boring #	Sample #	Sample Depth	Tare #	Tare Weight		Tare Wt. + Dry	•	% Passing
					Wt	Wt	Wt. after	#200
		ft. or m.		grams	grams	grams	Wash grams	%
T-21 - T-25	Bulk-1	1'-4'	Linda	83.90	211.40	190.10	134.60	52.3%
C-19,C-20	Bulk-2	1'-4'	Е	84.10	235.50	204.70	135.20	57.6%
, .	-							
Balance ID.	19608	Calibration Do	ate: 2/2	28/2018 #2	00 Sieve	18775 Cal	ibration Date:	2/28/2019
Notes / Deviations ,	/ References:	ASTM D1	140: Amou	unt of Material i	n Soil Finer Thar	n the No. 200 (7	5-um) ) Sieve	
Ron	Forest, P.E.		$\mathcal{R}_{\mathcal{S}}$	$\mathcal{P}\mathcal{F}$	<u>Ser</u>	nior Reviewer		<u>17-Jul</u>
Technic	al Responsibility		Sign	ature		Position		Date
	This re	port shall not be re	eproduced,	except in full with	out the written ap	proval of S&ME, Ir	1С.	

Form No. TR-D4318-T89-90 Revision No. 1

### LIQUID LIMIT, PLASTIC LIMIT, & PLASTIC INDEX



Revision Date: 7/26/17

	ASTI	M D 4318	X	AASHTO	Т 89 🛭	□ AAS	SHTO T 90				
S&ME, Inc Myrtle Beach: 1330 Highway 501 Business, Conway, SC 29526											
Project #	#: 1463-19-	028-110						Report [	Date:	7/17/20	)19
Project N	Name: Horry Co	unty HS <sup>1</sup>	Track & T	ennis - NN	ИB			Test Da	te(s)	7/12/20	)19
Client N	ame: Clough, F	Harbour 8	रे Associa	tes, LLP							
Client Ad	ddress: 110 Trade	ers Cross,	, Ste 201;	Bluffton, S	SC 29909	)					
Boring #	: T-21 - T-25		Samp	ole #:	Bulk-	1	Sam	ple Date:	7/1/2019		
Location	n: Track		L/	AB #:	4996	)		Depth:	1'-4'		
Sample	Description:	Gray with	n Red Sar	ndy Fat Cla	ay (CH)						
	Specification	S&ME IE	) #	Cal Date:	Туре	and Specij	fication	S&	ME ID #	Cal L	
Balance		00401		2/28/2018	Groo	oving tool			11368	9/1/	2018
LL Appara	atus	18801		9/1/2018							
Oven  Pan #	#	17745		4/8/2019	Liquid	d Limit				Plastic Limit	
Pull +	<del>†</del>	Tare #:	103	14	28				48	39	
Α	Tare Weight	raic ".	14.77	14.93	14.58				14.66	14.72	
В	Wet Soil Weight + A		31.47	31.58	31.66				21.54	21.62	
С	Dry Soil Weight + A		25.48	25.40	25.18				20.54	20.61	
	Water Weight (B-C)		5.99	6.18	6.48				1.00	1.01	
E	Dry Soil Weight (C-A	)	10.71	10.47	10.60				5.88	5.89	
F	% Moisture (D/E)*10		55.9%	59.0%	61.1%				17.0%	17.1%	
N N	# OF DROPS	0	33.376	24	15						
	# OF DROPS  LL = <b>F</b> * FACT	O.D.	34	24	13					ontents dete STM D 2216	-
LL Ave.		OK								17.1%	,
Ave.	Average						$\overline{}$	1 (	One Point I		+
7	<sup>(0.0</sup> T		T	Т				N	Factor	N	Factor
								20	0.974	26	1.005
<b> </b>	55.0							21	0.979	27	1.009
nten								22	0.985	28	1.014
ture Content								23	0.99 0.995	29 30	1.018 1.022
g   6	0.0		•	++-			+	25	1.000	30	1.022
% Moist			$\downarrow \downarrow$					ı	NP, Non-Pl	astic	
	55.0		<u> </u>						Liquid L	imit 5	9
									Plastic L	imit 1	7
									Plastic Ir	ndex 4	2
Group Symbol CH						Н					
	15	20	25 30	35 40	# of l	Drops		N	1ultipoint N	/lethod	✓
								О	ne-point N	/lethod	
	·	/ Preparati	ion 🗸	Air Drie	ed 🗸						
Notes / D	Peviations / References.	:									
ASTM D 4	ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils										
	Ron Forest, P.E.			$\mathcal{RPF}$		Sen	ior Revie	ewer		7/17/	<u></u>
•	Technical Responsibility	=		Signature			Position			Da	
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#### **MOISTURE - DENSITY REPORT**

Form No. TR-D698-2 Revision No. : 1

Revision Date: 07/25/17

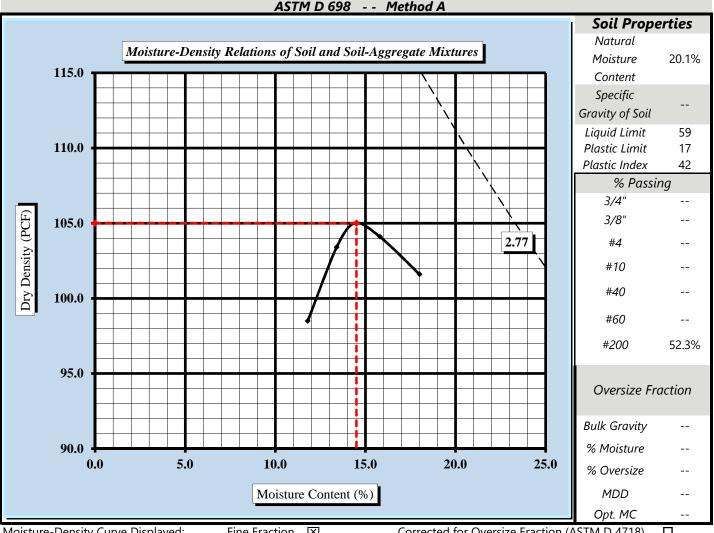


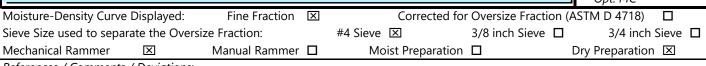
#### **Quality Assurance**

	S&ME, Inc Myrt	le Beach: 1330 High	way 501 Busine	ss, Conway, SC 29526	
S&ME Project #:	1463-19-028-11	0		Report Date:	7/17/2019
Project Name:	Horry County H	S Track & Tennis - NMB	Test Date(s):	7/11/2019	
Client Name:	Clough, Harbou	r & Associates, LLP			
Client Address:	110 Traders Cro	ss, Ste 201; Bluffton, SC			
Boring #:	T-21 - T-25	Sample #:	Bulk-1	Sample Date:	7/1/2019
Location:	Track	Lab #:	4996	Depth:	1'-4'

Sample Description: Gray with Red Sandy Fat Clay (CH)

Maximum Dry Density 105.0 PCF. Optimum Moisture Content 14.5%





References / Comments / Deviations:

ASTM D 2216: Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass

ASTM D 698: Laboratory Compaction Characteristics of Soil Using Standard Effort

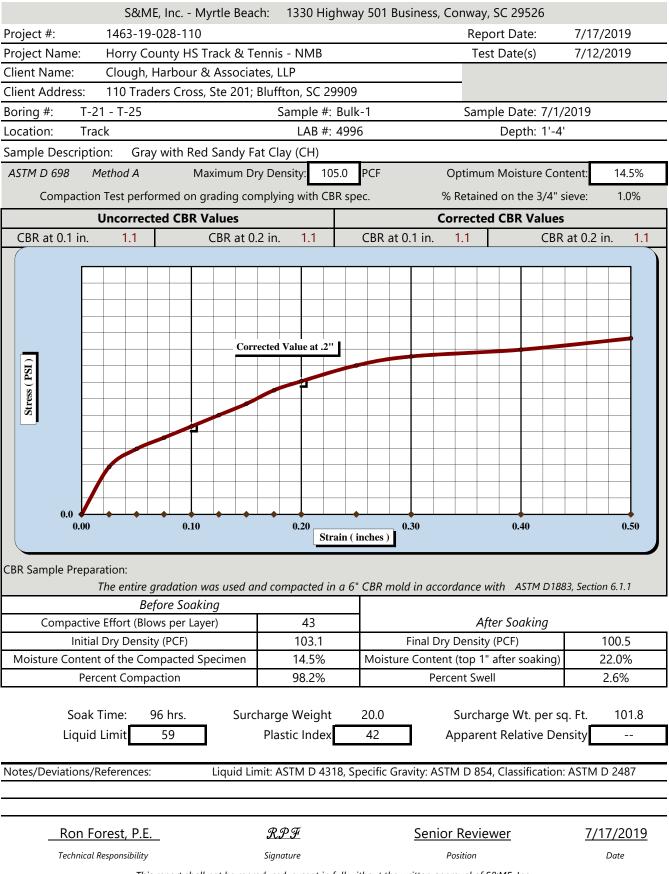
Ron Forest, P.E. $\mathcal{RPF}$ Senior Reviewer7/17/2019Technical ResponsibilitySignaturePositionDateThis report shall not be reproduced, except in full, without the written approval of S&ME, Inc.

Revision No. 2

### CBR (CALIFORNIA BEARING RATIO) OF LABORATORY COMPACTED SOIL



Revision Date: 08/11/17





# Pre-Bid Meeting IFB # 2021-50MJ

The following persons attended the **MANDATORY** pre-bid meeting for the project: Track and Field Improvements-Phase II arch 25, 2021 Time: 3:00 pm Location: Horry County Schools District Office 335 Four Mile Rd. Conway, SC 29526

Date:

March 25, 2021

NAME OF PERSON ATTENDING	NAME OF FIRM REPRESENTED	EMAIL	PHONE #
Bud Godfriaux	Field Turt/Senbelt	bgodfriaux 0868@gmail	770-318-3512
Luke Brown	CONICA	LUKE, BROWN CONICA, COM	615-499-3624
Kenny Smills	Geo Surfaces	Ke. Snith @geosisfaces. com	336-848-9112
Scott KEVEUS	GREENICALL CONTSENTAL	VICKTER GREENWALL COST.	Gm (843)236-7800
John Nelson	Proform/Percock	john@peacockpude.com	
SENMR SKIZES	LREAWAL CONST. SERVIU	DENNARLE ENWALLONST. CO	on 843-234-1800
JEE BURCH	HES		T .
ROBER DIXON	HCS		
SCOTT CUMPING HAM	PALMETTE COLT	scanninghama palmette	843-840-0609

	)	
MAURICO JACKSC	HCS	
Mauroco JACKSC Ara Heinz	HCS	
JAY CRIDER		443-955-9981 DORIDERO ASTROTURECON
TIM RIDEDAN		
111110000	JAN SONSOLITY	240-994-3746 TRIORDAN @CHACOMPANIES. UM
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