

ExhibitAA. BIDCOSite Preliminary Geotechnical Engineering Report





October 24, 2024

CSRS, LLC 8555 United Plaza Boulevard Baton Rouge, Louisiana 70809

Attn: Mr. Elliott Boudreaux

BIDCO SITE Preliminary Geotechnical Engineering Report

Re: Preliminary Geotechnical Investigation

LED Site Characterization

BIDCO Site

Union Parish, Louisiana SE Project No. G24-087

Dear Mr. Boudreaux:

Stratum Engineering, LLC (SE) is pleased to submit our Preliminary Geotechnical Engineering Report for the above referenced project. The report includes the results of field and laboratory testing, as well as preliminary recommendations regarding the suitability of the site for future industrial developments.

We appreciate the opportunity to perform this geotechnical study and look forward to the development of the property and our continued involvement with this project. If you have any questions pertaining to this report, or if we may be of further service, please contact our office.

Respectfully submitted,

STRATUM ENGINEERING, LLC

William "Dean" McInnis, P.E.

Vice President

WDM/TYM:arh

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PROJECT INFORMATION

Project Authorization

Stratum Engineering, LLC (SE) has completed a preliminary geotechnical exploration to characterize the BIDCO Site for a potential future development in Union Parish, Louisiana in support of the Louisiana Economic Development (LED) Site Certification process. The exploration was accomplished in general accordance with SE Proposal No. G24-045, dated March 5, 2024.

Project Description

The BIDCO property is located in an area that may be used for industrial/business developments. The site will be characterized to verify the soil conditions and provide preliminary foundation recommendations for typical structures which could be constructed at the site.

Generally, industrial developments could consist of multiple structures with associated light and heavy duty pavements. The buildings may be single or multi-story structures with steel frames and load bearing masonry or tilt up walls. Otherwise, they could be cast-in-place concrete structures. Depending on the building spans, maximum interior column load could range from 100 to 300 kips. Maximum wall loads are assumed to be 5 to 10 kips per foot. Floor loads could range between 150 to 700 psf. The structures may be grade supported or dock high, requiring 4 to 5 feet of fill to reach the building finished floor elevation.

Traffic associated with industrial facilities of this size could consist of heavy tractor trailers with an average daily traffic (ADT) of 50 to 100 trucks per day for a design life of 20 years. For these types of facilities, rigid pavements are widely considered for their longevity and ability to support the high volume of traffic.

Purpose and Scope of Services

The purpose of this study was to explore the subsurface conditions at the site in order to enable an evaluation of a suitable foundation system for potential future industrial facilities.

Based on the parcel size and the criteria provided by CSRS, the scope of services included drilling three (3) borings to a depth ranging from 30 to 100 feet at accessible locations across the site. The borings were located in the field by a Stratum Engineering representative using normal taping from existing landmarks as indicated on the attached Boring Location Plan which is a reproduction of an aerial photograph of the property.

In addition to drilling the soil borings, our scope of services included a reconnaissance of the project site, select laboratory testing, and preparation of this preliminary geotechnical report. The report briefly outlines the testing procedures, presents available project information, describes the site and subsurface conditions, and provides results of analysis and recommendations regarding the following:

- Preliminary foundation types, depths, allowable bearing capacities, allowable pile capacities, and estimate of settlements;
- Seismic site classification;
- Typical soil parameters for flexible and rigid pavements.

The scope of geotechnical services did not include an environmental assessment for determining the presence or absence of wetlands, or hazardous or toxic materials in the soil, surface water, groundwater, or air on or below, or around this site. Any statements in this report or on the boring logs regarding odors, colors, and unusual or suspicious items or conditions are strictly for informational purposes.

SITE AND SUBSURFACE CONDITIONS

Site Description and Location

We understand the site encompasses approximately 150 acres of undeveloped property located on the north side of Pisgah Church Road just east of Cherry Street (US Highway 167) near Bernice, Louisiana. The site is mostly wooded with the exception of the northwest corner and the east side where Industrial Drive extends north into the property, which was accessible to standard drilling equipment.

Detailed grading information was not available at the time this report was prepared. However, it was assumed that 2 to 3 feet of fill may be needed to reach the design grades.

Drilling and Sampling

The borings were drilled with an All-Terrain Vehicle (ATV) mounted drilling rig. Auger and wet rotary drilling techniques were used to advance the borings. Samples were generally obtained continuously from the ground surface to a depth of ten feet and at maximum five foot intervals thereafter. Drilling and sampling techniques were accomplished in general accordance with ASTM Standards.

Undisturbed samples of cohesive soils were generally obtained using thin-wall tube sampling procedures in general accordance with the procedures for "Thin-Walled Tube Geotechnical Sampling of Soils" (ASTM D1587). These samples were extruded in the field with a hydraulic ram and were wrapped in aluminum foil prior to placement in a plastic wrapping to preserve moisture. The samples were transported to the laboratory in containers to prevent disturbance.

For cohesionless soils and semi-cohesive soils, Standard Penetration Tests (SPT) were performed to obtain standard penetration values of the soil. The standard penetration value (N) is defined as the number of blows of a 140 pound hammer, falling 30 inches, required to advance the split-barrel sampler one (1) foot into the soil. Samples of granular soils were obtained utilizing a two (2) inch O.D. split-barrel sampler in general accordance with procedures for "Penetration Test and Split-Barrel Sampling of Soils" (ASTM D1586). To perform the test and obtain a sample, the sampler is lowered to the bottom of the previously cleaned drill hole and advanced by blows from the hammer. The number of blows is recorded for each of three (3) successive increments of six (6) inches penetration. The "N" value is obtained by adding the second and third incremental numbers. The results of the standard penetration test indicate the relative density of cohesionless soils and thereby provide a basis for estimating the relative strength and compressibility of the soil profile components. The split spoon samples were identified according to the project number, boring number and depth, and were also placed in polyethylene plastic wrapping to protect against moisture loss.

The laboratory testing program included supplementary visual classification and water content tests on all of the soil samples. In addition, selected samples were subjected to unconfined compression testing, percent passing the #200 sieve and Atterberg Limits determination. Additional estimates of unconfined compressive strength were made using a hand penetrometer. The laboratory testing was performed in general accordance with ASTM Standard Procedures.

Subsurface Conditions

Based on the borings, about 12 inches of silty topsoil with organics covered the surface at the site. The topsoil was generally underlain with a dense silt or stiff to very stiff sandy lean clay to a depth of 2 to 8 feet. Below the surficial material medium dense silty and clayey sand was encountered to about 15 to 20 feet. Very stiff sandy fat clay was noted below the sand and extended to between 27 and 42 feet. Below this depth, very dense silty and clayey sands were encountered to approximately 82 feet. The deep boring was terminated in very stiff fat clay at a depth of 100 feet, the maximum depth explored.

The above subsurface description is of a generalized nature to highlight the major subsurface stratification features and material characteristics. The boring logs included in the Appendix should be reviewed for specific information at the boring locations. These records include soil descriptions, stratification, penetration resistances, and locations of the samples and laboratory test data. The stratification shown on the boring logs represent the conditions only at the actual boring locations. Variations may occur and should be expected between boring locations. The stratification represents the approximate boundary between subsurface materials and the actual transition may be gradual. Water level information obtained during field operations is also shown on the boring logs. The samples, which were not altered by laboratory testing, will be retained for 60 days from the date of this report and then will be discarded.

Groundwater Conditions

Groundwater was initially encountered in two of the borings at a depths of 15 and 16 feet during drilling and was later measured at a depths of 10 and 12 feet upon completion of drilling. However, it should be noted that groundwater levels will fluctuate with seasonal variations in rainfall, extended periods of drought or surface runoff. Therefore, it is recommended that the actual groundwater level at the site be determined by the contractor at the time of the construction activities, if needed.

IBC Site Classification

The International Building Code (IBC), 2021 Edition, was reviewed to determine the site classification for seismic design. Based on the soils encountered in the borings and our experience in the general vicinity, the site can be classified as Site Class "D" as outlined in Section 1613.2.2 of the Building Code.

EVALUATION AND RECOMMENDATIONS

General

The type and depth of foundation suitable for a given structure primarily depends on several factors including the subsurface conditions, the function of the structure, the loads it may carry, the cost of the foundation and the criteria set by the Design Engineer with respect to vertical and differential movement which the structure can withstand without damage.

It is our understanding the site will be marketed for development of potential industrial facilities. Typical structures could be grade supported or dock high facilities requiring 4 to 5 feet of fill to reach the design grade.

The results of the exploration indicate that the soils at the site are fair in bearing quality and suitable for supporting the potential improvements on a shallow foundation system provided the site is prepared as recommended in the report. Details related to foundation recommendations and construction considerations are resented in subsequent sections of the report.

Shallow Foundations

Based on the field data and laboratory test results, the site is suitable to support typical industrial developments on shallow foundations bearing at least 2 feet below the finished grade. Shallow spread and continuous wall footings bearing in the compacted structural fill or in the naturally occurring stiff clay or dense sand can be designed for maximum allowable bearing pressures of 2,500 and 2,000 pounds per square foot, respectively. Minimum dimensions of 24 inches for spread footings and 18 inches for continuous footings should be used in the design, even if the resulting bearing pressure is less than the allowable bearing pressure, to minimize the possibility of a local bearing failure. The recommended preliminary bearing capacities include a factor of safety of three (3).

Settlement

Areal settlement under a building is generally caused by the amount of fill placed, the building footprint and the subsurface soil conditions encountered in the building area. Similarly, footing settlement depends on the footing size as well as the soil conditions below the footing. At the time this report was prepared, the type of structures had not been identified and the amount of fill needed to achieve the design grade was not known. However, based on the subsurface conditions encountered at the site, areal settlement is anticipated to be minimal with the addition of 2 to 3 feet of fill. Furthermore, based on the assumed structural loads, foundation settlement will be less than 1 inch provided the footings are designed for the recommended bearing pressures.

Floor Slab

A slab-on-grade may be supported on compacted low plasticity structural fill. While detailed site preparation recommendations were beyond the scope of this study, stripping of at least 12 inches should be anticipated to remove the topsoil with organics and other deleterious materials. Proofrolling should be accomplished following the stripping to identify any soft or unstable soils which should be removed from the floor slab area prior to fill placement and/or floor slab construction. Any required structural fill should be placed in lifts and be compacted to meet the applicable project specifications.

Deep Foundations

Generally, deep foundations systems are used to support heavily loaded structures by transferring the structural loads through the surficial soils to more adequate bearing strata and hence minimizing long term settlements.

Typical deep foundation systems used in the area include timber piles and auger cast-inplace piles which will derive their support capabilities mainly from skin friction along with some "end bearing" when embedded in the dense sand around 40 feet.

Large timber piles driven to a penetration depth of about 40 feet could yield a maximum allowable compression capacity of at least 25 tons while 14-inch diameter auger cast-in-place piles installed to a penetration depth of 45 to 50 feet could be designed for a maximum allowable compression capacity of about 65 to 70 tons. The preliminary pile capacities presented in the report include a factor of safety of two (2) in compression.

Parameters for Pavement Design

Parking areas and drives associated with an industrial park are expected to consist generally of light duty pavement for employee parking as well as heavy duty pavement for large truck staging areas, parking areas and drives.

Based on the field data and laboratory test results, the near surface soil consists of silty clay. Typical California Bearing Ratio (CBR) values for the existing silty subgrade or imported clayey sand structural fill were estimated to be on the order of 4 to 5 corresponding to a Modulus of Subgrade Reaction (k) of about 125 pci which may be used for the design of flexible and rigid pavements, respectively. These values may be used along with the frequency and magnitude of anticipated traffic loads associated with the type of facility being constructed to yield adequate pavement sections for the development. Class II Base including crushed limestone or cement treated low plasticity clays for the flexible and/or rigid pavements would be viable options for the pavement.

CONSTRUCTION CONSIDERATIONS

Moisture Sensitive Soils/Weather Related Concerns

The upper silty soils encountered at the site are extremely sensitive to changes in moisture content and may lose significant strength if allowed to become saturated. In addition, soils that become wet may be slow to dry and thus significantly retard the progress of grading and compaction activities. During wet weather periods, increases in the moisture content of the

upper soils can cause some reduction in the soil strength and support capabilities. Therefore, it will be advantageous to perform earthwork construction activities during dry weather. Should the near surface soils become wet, the site may be mitigated by repeated aeration and exposure to sunlight or by admixture treatment.

REPORT LIMITATIONS

The recommendations submitted in this report are based on the available subsurface information obtained by SE and assumed typical design loads for industrial developments. These recommendations are preliminary and general in nature. They should not be used in the design of a specific structure without conducting a detailed project specific investigation to verify the subsurface soil condition and determine if revisions to the recommendations are necessary.

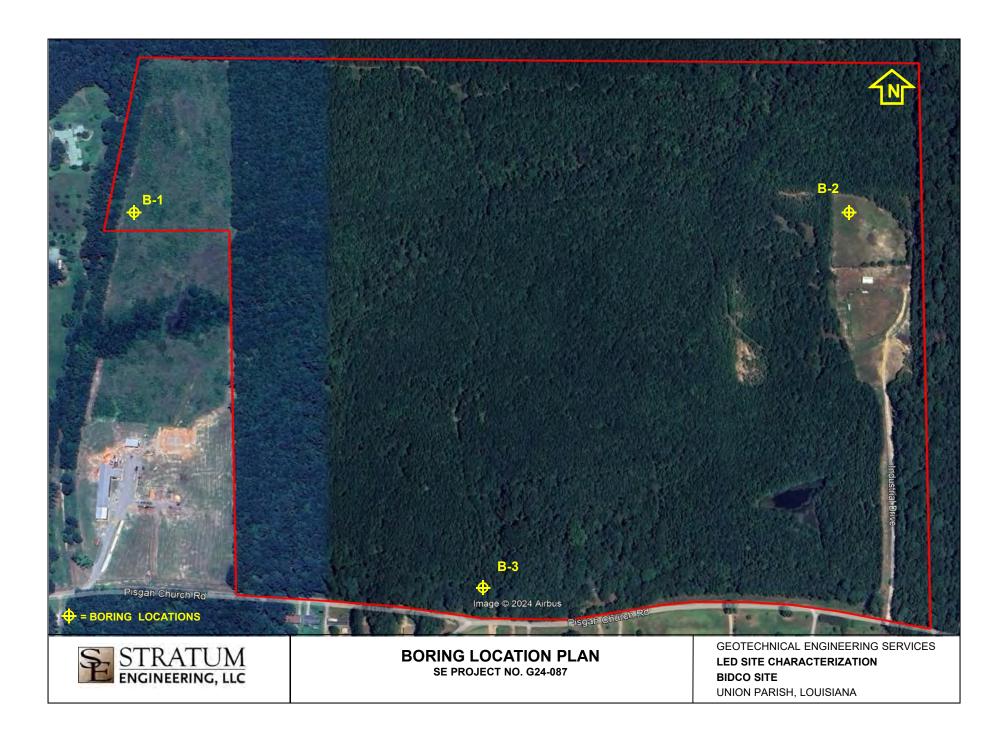
The Geotechnical Engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed.

Once specific plans for a potential development are prepared, Stratum Engineering may be retained and provided the opportunity to conduct a more thorough geotechnical investigation and analysis utilizing project specific plans and specifications under consideration.

This report has been prepared for the exclusive use of CSRS for marketing and planning of the BIDCO Site in Union Parish, Louisiana.

APPENDIX







LOG OF BORING B-1

LED SITE CHARACTERIZATION BIDCO SITE UNION PARISH, I OUISIANA

UNION PARISH, LOUISIANA TYPE OF BORING: WET ROTARY LOCATION: NW CORNER OF SITE PROJECT NO.: G24-087 UNCONFINED COMPRESSIVE STRENGTH tsf HAND PENTROMETER tsf MOISTURE CONTEN' % PASSING #200 SIEVE PLASTICITY INDEX UNIT DRY WEIGHT LIQUID LIMIT TORVANE tsf N-BLOWS/FT. SOIL TYPE DEPTH, FT. DESCRIPTION pcf 34 12" Silty Topsoil with organics 4 Dense tannish gray Silt Medium dense tannish gray Clayey Sand 24 12 47 25 10 30 45 5 20 25 21 25 10 ____ 18 26 15 Loose tannish gray Silty Sand 26 20 Very stiff dark gray Sandy Fat Clay 2.63 4.50 95 26 25 4.50 27 30 4.50 32 35 4.50 25 40 Very dense dark gray Silty Sand 50+ 27 16 45 50+ 50

DEPTH OF BORING: 100 Feet **DATE:** 10/14/2024

GROUNDWATER: Measured at 12 Feet Upon Completion of Drilling



LOG OF BORING B-1 (continued)

LED SITE CHARACTERIZATION BIDCO SITE UNION PARISH, LOUISIANA

TYPE OF BORING: WET ROTARY LOCATION: NW CORNER OF SITE PROJECT NO.: G24-087

IYPE	PE OF BORING: WE I ROTARY LOCATION: NW CORNER OF SITE PROJECT NO.: G24-0								1-087			
DEPTH, FT.	SOIL TYPE	SAMPLES	DESCRIPTION	N-BLOWS/FT.	UNCONFINED COMPRESSIVE STRENGTH tsf	HAND PENTROMETER tsf	TORVANE tsf	UNIT DRY WEIGHT pcf	MOISTURE CONTENT	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200 SIEVE
55		X	Very dense dark gray Silty Sand	50+					27			17
60		X		50+					31			19
65		X	Medium dense to dense dark gray Clayey Sand	36					23	44	23	31
70		X		35					23			
75		X		32					27			
80						4.50			26			
85			Very stiff dark gray Fat Clay			4.50			30			
90		X		50+					32			90
95		X		50+					34			
100	OF P	X	- with sand at 98'	50+					33			83
DEP IF												

DATE: 10/14/2024



LOG OF BORING B-2

LED SITE CHARACTERIZATION **BIDCO SITE** UNION PARISH, LOUISIANA

TYPE OF BORING: WET ROTARY LOCATION: NE CORNER OF SITE PROJECT NO.: G24-087

				`	JOANON.	12 0011	i Littor c			020111	<u> </u>	1-007
ОЕРТН, FT.	SOIL TYPE	SAMPLES	DESCRIPTION	N-BLOWS/FT.	UNCONFINED COMPRESSIVE STRENGTH tsf	HAND PENTROMETER tsf	TORVANE tsf	UNIT DRY WEIGHT pcf	MOISTURE CONTENT %	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200 SIEVE
	////	Щ	12" Silty Topsoil with organics	18					12			
	///	Д	Very Stiff tannish gray Sandy Lean Clay									
	///,	М		16					11			
5	///	Ħ		17					13	41	24	64
	///,	\mathbb{A}		33					13			
	///	M										
40		М	Medium dense to dense tannish gray Silty Sand	30					13			14
10		Ή	<u>*</u>									
		•										
	<u> </u>											
15		M		25					24			
		H										
			Now of the dealer was Conducted Class									
		Ц	Very stiff dark gray Sandy Fat Clay	36					28	72	51	64
20	///	X										
	///	Н		49					24			
25		А										
		,	Very dense dark gray Silty Sand									
30		X		50+					34			29
		\Box										
	<u> </u>											
	1			50+					25			
35		X										
	[:[:[:											
	:	Н		50+					29			17
40	: }:	Ή										
			Very dense dark gray Clayey Sand						00			
45		X		50+					23			
	///	\sqcap										
	///			50+					25			48
50	///	X										_
DEBT	OE P		NG: 50 Feet	GRO	JNDWATER	. Moss	rod at 10	Foot I In	on Com	oletion o	f Drilling	<u> </u>
DEPIR	OF B	UKI	NG. 00 1 661	GRUL	MUNALEK	. ivieasul	cu al IU	i eer op	OH COIN	pielion 0	לווווווח	J

DEPTH OF BORING: 50 Feet **DATE:** 10/9/2024



LOG OF BORING B-3

LED SITE CHARACTERIZATION BIDCO SITE UNION PARISH, LOUISIANA

TYPE OF BORING: AUGER ROTARY LOCATION: SOUTH SIDE OF SITE PROJECT NO.: G24-087

TYPE	JF BURI	NG: AUGER RUTARY	LC	CATION:	SOUTHS	IDE OF S	SHE	PRO	JECT N	O .: G2	4-087
ОЕРТН, FT.	SOIL TYPE		N-BLOWS/FT.	UNCONFINED COMPRESSIVE STRENGTH tsf	HAND PENTROMETER tsf	TORVANE tsf	UNIT DRY WEIGHT pcf	MOISTURE CONTENT	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200 SIEVE
		12" Silty Topsoil with organics	22					16			
		Medium dense to dense tannish gray Clayey Sand	21					14	30	12	46
	///								30	'-	
5			28					13			
	///		39					15			
				1.12	1.50		112	19	43	25	47
10	///			1.12	1.50		112	13	43	25	47
	///	Stiff tannish gray Sandy Fat Clay									
15					1.25			31			
		- becomes very stiff dark gray at 17'									
		, , ,		1.50	4.00		94	30			
20											
					4.50			31			
25		1									
					4.50			30			
30					4.50			30			
		Boring Terminated at 30 Feet									
35											
- 00											
40											
45											
50											
					_						
IDEPTH	OF BOI	RING: 30 Feet	GROL	JNDWATER	t: Dry Up	on Comp	letion of	Drilling			

DEPTH OF BORING: 30 Feet **DATE:** 10/9/2024

GROUNDWATER: Dry Upon Completion of Drilling



KEY TO TERMS AND SYMBOLS USED ON LOGS

SOIL TYPE



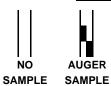
















TUBE



MODIFIERS





















UNIFIED SOIL CLASSIFICATION SYSTEM - ASTM D 2487 (1980)

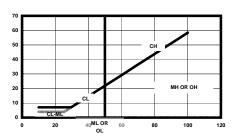
	MAJO	R	LETTER	TYPICAL
	DIVISIO	NS	SYMBOL	DESCRIPTIONS
	GRAVEL &	CLEAN		WELL GRADED GRAVEL, GRAVEL-SAND
COARSE	GRAVELY	GRAVEL	GW	MIXTURES WITH LITTLE OR NO FINES
GRAINED	SOILS	(LITTLE OR	0.0	POORLY GRADED GRAVEL, GRAVEL-SAND
SOILS	LESS THAN	NO FINES	GP	MIXTURES WITH LITTLE OR NO FINES
LESS	50% PASSING	W/ APPRECIA	GM	SILTY GRAVEL, GRAVEL-SAND-SILT MIXTURES
THAN	NO. 4 SIEVE	BLE FINES	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
50%	SANDS	CLEAN SANDS	SW	WELL GRADED SAND, GRAVELY SAND (LITTLE FINES)
PASSING	MORE THAN	LITTLE FINES	SP	POORLY GRADED SANDS, GRAVELY SAND (L.FINES)
NO. 200	50% PASSING	SANDS WITH	SM	SILTY SANDS, SAND-SILT MIXTURES
SIEVE	NO. 4 SIEVE	APPREA. FINES	SC	CLAYEY SANDS,SAND-CLAY MIXTURES
	•		ML	INORGANIC SILTS & VERY FINE SANDS,ROCK FLOUR
FINE	SILTS	AND CLAYS	IVIL	SILTY OR CLAYEY FINE SANDS OR CLAYEY SILT W/ LOW PI
GRAINED	LIQ	UID LIMIT	CL	INORGANIC CLAY OF LOW TO MEDIUM PI LEAN CLAY
SOILS	LES	S THAN 50	CL	GRAVELY CLAYS, SANDY CLAYS, SILTY CLAYS
MORE			OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PI
THAN			МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS
50%	SILTS	AND CLAYS	IVIT	FINE SANDY OR SILTY SOILS, ELASTIC SILTS
PASSING	LIQ	UID LIMIT	СН	INORGANIC CLAYS OF HIGH PLASTICITY
NO. 200	GREAT	ER THAN 50	СП	FAT CLAYS
SIEVE			ОН	ORGANIC CLAYS OF MED TO HIGH PI, ORGANIC SILT
	HIGHLY ORGANIC SOIL			PEAT AND
HIGHLY ORGANIC SOIL			PT	OTHER HIGHLY ORGANIC SOILS
UNCLASSIFIED FILL MATERIALS			ARTIFICIAL	LLY DEPOSITED AND OTHER UNCLASSIFIED SOILS AND MAN- MADE SOIL MIXTURES

CONSISTENCY OF COHESIVE SOILS

	SHEAR STRENGTH				
CONSISTENCY	IN TONS/FT ²				
VERY SOFT	0. TO 0.125				
SOFT	0.125 TO 0.25				
FIRM	0.25 TO 0.5				
STIFF	0.5 TO 1.0				
VERY STIFF	1.0 TO 2.0				
HARD	> 2.0 OR 2.0+				

RELATIVE DENSITY - GRANULAR SOILS

CONSISTENCY	N-VALUE (BLOWS/FOOT)
VERY LOOSE	0-4
LOOSE	4-9
MEDIUM DENSE	10-29
DENSE	30-49
VERY DENSE	> 50 OR 50+



ABBREVIATIONS

HP - HAND PENETROMETER UC - UNCONFINED COMPRESSION TEST

TV - TORVANE **UU - UNCONSOLIDATED UNDRAINED TRAIXIAL**

MV - MINIATURE VANE CU - CONSOLIDATED UNDRAINED

NOTE: PLOT INDICATES SHEAR STRENGTH AS OBTAINED BY ABOVE TESTS

- DELAYED GROUNDWATER LVL

٧ **LEVEL GROUNDWATER ENCOUNTERED**

CLASSIFICATION OF GRANULAR SOILS

U.S. STANDARD SIEVE SIZE(S)

3/4" 200 6" 3" 10 40 **GRAVEL** BOUL-SAND SILT **CLAY** -DERS **COBBLES** COARSE FINE COARSE MEDIUM 152 19.1 0.002 76.2 4.76 0.42 0.075 **GRAIN SIZE IN MM**