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SUBSOIL INVESTIGATION
PROPOSED ANCHORAGE SUBDIVISION
New Orleans, La

Report for

George Pierce
@
Mitchell Homes

April 2, 1996

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SUBSOIL INVESTIGATION
PROPOSED ANCHORAGE SUBDIVISION
NEW ORLEANS, LA.

INTRODUCTION

In early March of 1996, Robert Harris with Mitchell Homes requested a subsoil investigation for a proposed subdivision located on General Meyers Avenue in New Orleans, La.

The proposed subdivision is located in Algiers. This site is between General Meyers Avenue and the Mississippi River. Aurora Country Club is to the east and Chelsea Drive is to the west (See enclosure #1).

The objective of this investigation is to determine an adequate foundation for several proposed residential structures at said location.

DRILLING PROCEDURE

On Friday, March 22, Gillen Geotech, Inc. began drilling operations on (5) 12.5 foot soil borings at the subject site, using a 750 Failing Drill Rig, a two man crew, and a field technician.

Continuous undisturbed samples were taken down to a depth of 12.5 feet. All samples were field classified, wrapped in aluminum foil, and sent to soils mechanic laboratory for testing.

LABORATORY TESTING

The laboratory tests for this project consist of moisture contents, which were performed on all samples, unconfined compression tests and wet densities, which were performed on all cohesive soils.

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SOIL PROFILE

The soil from natural ground surface to an average depth of -5 feet is predominately a medium stiff brown silty clay. Below this stratum to the depths of borings is a medium stiff to soft gray fat clay.

FOUNDATION ANALYSIS

Due to the relatively high shearing strength and low compressibility of the soil from natural ground surface to -5 feet at this site, the proposed one and two story brick veneer residential structures may be founded on surface foundations without piling.

Surface foundations exerting a maximum pressure of 750 pounds per square foot on or near the surface soil will develop a factor of safety of 3 against shear failure in the soil with less than 1.5 inches of long term settlement. To minimize or eliminate differential settlement, it is recommended that said surface foundations are to be on a rigid grade beam grid system.

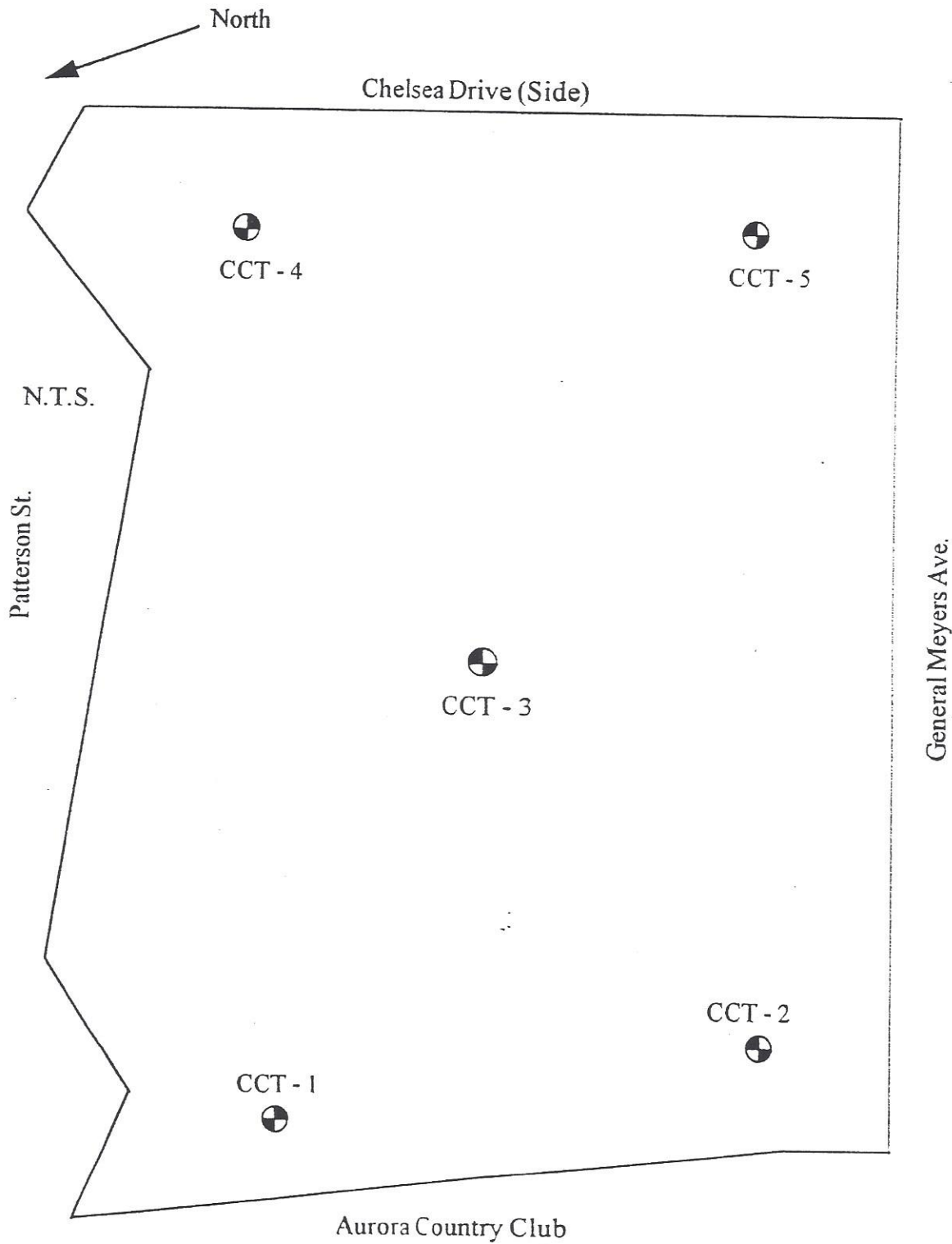
Prior to constructing foundations, all apparent surface vegetation and buried debris is to be removed and replaced with a well compacted A-4 (river sand) material or better.

Respectfully submitted,
GILLEN GEOTECH, INC.



Gerard J. Gillen, Jr.
Soil & Foundation Consultant

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PROPOSED
ANCHORAGE SUBDIVISION
New Orleans , La.



GILLEN GEOTECH, INC.

Enclosure #2

ANCHORAGE SUBDIVISION, NEW ORLEANS, LA.

DEPTH GROUND ELEV. 0'	TRIAxIAL QUICK		CONSOLIDATION	ATTERBERG'S LIMITE		UNCONFINED COMPRESSION TEST - PSF	WET DENSITY PCF	MOISTURE CONTENT	BORING LOG	STANDARD PENETRATION	GENERALIZED STRATA	DEPTH GROUND ELEV. 0'
	COHESION PSF	FRICTION ANGLE		LIQUID	PLASTIC							
											CCT-4	
5						517	114	31			BROWN MEDIUM STIFF SILTY CLAY	5
						832	109	58			SOFT GRAY FAT CLAY	
10						743	104	62			MEDIUM STIFF GRAY CLAYEY SILT	10
						274	104	32				
15												15
0											CCT-5	0
5								28			BROWN MEDIUM STIFF SILTY CLAY	5
								48			SOFT GRAY FAT CLAY	
10						493	108	49			MEDIUM STIFF GRAY FAT CLAY	10
						1010	110	51				
15												15



* DRIVING RESISTANCE IN BLOWS PER FOOT DETERMINED WITH A STANDARD SPLIT SPOON SAMPLER AND A 140 LB. DRIVING HAMMER, WITH A 30" DROP



DEPTH GROUND ELEV. 0'	TRIAxIAL QUICK		CONSOLIDATION	ATTERBERG LIMITS		UNCONFINED COMPRESSION TEST - P _u	WET DENSITY PCF	MOISTURE CONTENT	BORING LOG	STANDARD PENETRATION	GENERALIZED STRATA	DEPTH GROUND ELEV. 0'
	COHESION P.S.F.	FRICTION ANGLE		LIQUID	PLASTIC							
											CCT-1	
5						792	111	53			MEDIUM STIFF BROWN CLAY, SAND, AND SILT	5
10						986	102	74			SOFT TO MEDIUM STIFF GRAY FAT CLAY	10
15						1390	116	38				15
0											CCT-2	0
5						1471	124	25			MEDIUM STIFF BROWN CLAY	5
10						1770	115	39				10
15						1439	110	56			MEDIUM STIFF GRAY FAT CLAY	15
0											CCT-3	0
5						1439	107	54				5
10						1140	117	35				10
15												15
5						1221	125	26			MEDIUM STIFF BROWN SILTY CLAY	5
10						711	111	38				10
15						905	111	41			MEDIUM STIFF GRAY FAT CLAY	15
						1026	101	58				
								66				

PEAT
 CLAY
 SILT
 SAND
 * DRIVING RESISTANCE IN BLOWS PER FOOT DETERMINED WITH A STANDARD SPLIT SPOON SAMPLER AND A 140 LB DRIVING HAMMER, WITH A 30" DROP