APPENDIX 4

Chapter 4 Appendices:

- Gyrodyne Borings Report

SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783
(516) 221-2333 • FAX (516) 221-0254

If after you examine the enclosed you have any further questions, please feel free to call and discuss them with us.

Billing is enclosed.

Very truly yours,

SOIL MECHANICS DRILLING CORP.

Carl Vernick, P.E.
President

CV:mlf
Encls.

Cc: Cameron Engineering
Att: Michael De Giglio
E-Mail: mdegiglio@cameronengineering.com

SUBSOIL
INVESTIGATIONS

SOIL MECHANICS DRILLING CORP.
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April 17, 2017

Gyrodyne Company of America, Inc.
One Flowerfield, Suite 24
St. James, NY 11780
Att: Peter Pitsiokis

Re: Cortlandt Medical Center
1980 Crompond Road
Cortlandt, NY
Our Job #16-423A

Gentlemen:

Forwarded herewith are the results of the three (3) additional borings drilled and seven (7) additional infiltration tests performed at the above referenced site.

A copy of the boring logs and report is being e-mailed to Michael De Giglio of Cameron Engineer & Associates.

The three (3) additional borings revealed similar profiles of the initial three (3) borings drilled although the top of the boring elevations has a 21 foot grade differential.

Our investigation at the three (3) additional test borings revealed 1 to 10 feet of loam, asphalt and loose to moderately dense soil, rock fragments and fill, underlain, generally, by a loose to dense sand formation with varying percentages of silt extending to decomposed rock which was encountered between 15 to 20 feet.

Natural ground water was encountered at depths ranging from 7'6" to 11'6" below existing grade at the time the borings were taken and is not considered reliable probably due to being perched or trapped on top of the rock that was encountered.

The angle of internal friction varies between 25° and 34°, depending on the percentages of silt in the formation.

The allowable bearing pressure of the loose sand below the loam and fill varies from 1-1/2 to 4 tons depending on elevation and location. The loose to moderately dense sand varies from 1-1/2 to 2 tons.

The dense sand can support 4 tons per square foot.

The coefficient of friction for sliding is .35.

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The infiltration test results at various locations are as shown on the drawing.

Soil samples recovered during drilling operations will be stored in our lab for a period of 30 days after which they will be destroyed. During this period we will deliver these samples to any prescribed location upon request.

If after you examine the enclosed you have any further questions, please feel free to call and discuss them with us.

Billing is enclosed.

Very truly yours,

SOIL MECHANICS DRILLING CORP.

Carl Vernick, P.E.
President

CV:mlf
Encls.

Cc: Cameron Engineering
Att: Michael De Giglio
E-Mail: mdegiglio@cameronengineering.com