



GEOLABS, INC.

Geotechnical Engineering and Drilling Services

MEMORANDUM

DATE:	June 8, 2020	TIME:	12:11 PM
TO:	Engineering Concepts, Inc.	FROM:	Gerald Seki / Nick Kam
ATTN:	Mr. Conrad Higashionna	W.O. No.:	7328-00(A)
SUBJECT:	Response to Questions Traffic Signal Modernization Project Kahuapaani Street & Ulune Street Intersection Halawa, Oahu, Hawaii		
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This memorandum provides our response to questions received by email on June 5, 2020 regarding the above project. The questions and our responses are provided below.

ENGINEERING CONCEPTS QUESTIONS:

At the intersection of Kahuapaani St with Ulune St, can I use "Level Ground – Above Ground Water Table - Stiff Clays" for the recommended soil type (see Standard Plan TE-33A.1 and TE-33A.2) for sizing the drilled shaft foundation length?

I lengthened one signal standard mast arm from 12' to 17' long; and reduced one from 38' to 30' long.

GEOLABS RESPONSE:

Based on the subsurface conditions encountered at the intersection of Kahuapaani Street and Ulune Street, we recommend the following drilled shaft diameters and lengths for the proposed traffic signal pole foundations in accordance with the TE-33A.2, Type II Traffic Signal Standard Drilled Shaft Foundation Schedule for Level Ground Condition – Above Ground Water Table.

STANDARD TRAFFIC SIGNAL POLES DRILLED SHAFT FOUNDATIONS FOR LEVEL GROUND CONDITIONS		
<u>Mast Arm Length</u> (feet)	<u>Drilled Shaft Diameter</u> (inches)	<u>Drilled Shaft Length</u> (feet)
17	24	6
30	30	7

If you have questions or need additional information, please contact our office.