

**GEOTECHNICAL ENGINEERING EXPLORATION  
TRAFFIC SIGNAL MODERNIZATION PROJECT  
KALANIANAOLE HIGHWAY & KALANIJKI STREET INTERSECTION  
HONOLULU, OAHU, HAWAII  
W.O. 7328-00(C) AUGUST 12, 2019**

---

**TABLE OF CONTENTS**

	Page
<b>SUMMARY OF FINDINGS AND RECOMMENDATIONS.....</b>	<b>iii</b>
<b>1. GENERAL.....</b>	<b>1</b>
1.1 Project Considerations.....	1
1.2 Purpose and Scope .....	1
<b>2. SITE CHARACTERIZATION.....</b>	<b>4</b>
2.1 Regional Geology .....	4
2.2 Site Description.....	5
2.3 Subsurface Conditions.....	5
<b>3. DISCUSSION AND RECOMMENDATIONS .....</b>	<b>7</b>
3.1 Traffic Signal Pole Foundations .....	7
3.1.1 Foundation Settlements .....	9
3.1.2 Drilled Shaft Construction Considerations.....	9
3.2 Utility Trench .....	10
3.3 Design Review.....	11
3.4 Post-Design Services/Services During Construction .....	11
<b>4. LIMITATIONS.....</b>	<b>13</b>
<b>CLOSURE.....</b>	<b>15</b>
<b>PLATES</b>	
Project Location Map .....	Plate 1
Site Plan .....	Plate 2
<b>APPENDIX A</b>	
Field Exploration.....	Pages A-1 and A-2
Soil Log Legend.....	Plate A-0.1
Soil Classification Log Key .....	Plate A-0.2
Rock Log Legend .....	Plate A-0.3
Log of Boring .....	Plate A-1

TABLE OF CONTENTS

---

	Page
<b>APPENDIX B</b>	
Laboratory Tests.....	Page B-1
Laboratory Test Data.....	Plates B-1 thru B-3
<b>APPENDIX C</b>	
Photographs of Core Samples.....	Plate C-1