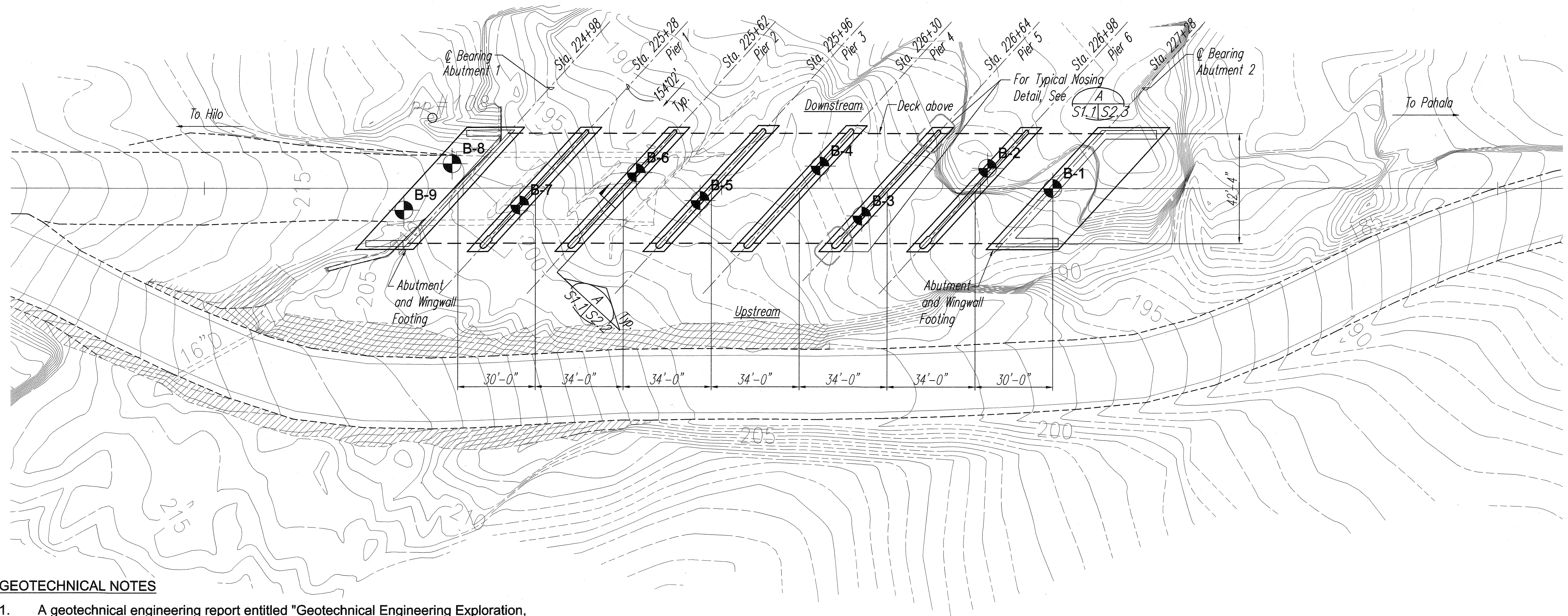


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(1)R	2001	60	77



GEOTECHNICAL NOTES

1. A geotechnical engineering report entitled "Geotechnical Engineering Exploration, Mamalahoa Highway, Emergency Replacement of Keaiwa Bridge, Federal Aid Project No. ER-12(1), District of Kau, Island of Hawaii" dated December 13, 2000 has been prepared by Geolabs, Inc. A copy of the report is on file at the office of the Engineer for review by the Contractor.
2. For boring logs, see Sheet Nos. G2 through G6.
3. The information presented in the logs of borings depict the subsurface conditions encountered at that specified location and at the time of the field exploration only. Variations of subsoil conditions from those depicted in the logs of borings may occur between and beyond the borings.
4. The data given is for general information only. Bidders shall examine the site and the boring data and draw their own conclusions therefrom as to the character of materials to be encountered. The Engineer will not assume responsibility for variations of subsoil quality or conditions other than at the boring locations shown and at the time the borings were taken.

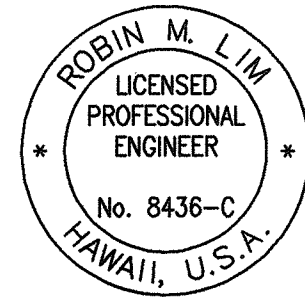
LEGEND:



APPROXIMATE BORING LOCATION

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOCATION PLAN

MAMALAHOA HIGHWAY
REPLACEMENT OF
KEAIWA STREAM BRIDGE
Federal Aid Project No. ER-12(1)R
Scale: 1" = 20'-0" Date: January 2001

SHEET No. G1 OF 6 SHEETS

Boring Log Legend

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)

MAJOR DIVISIONS			USCS		TYPICAL DESCRIPTIONS
COARSE-GRAINED SOILS	GRAVELS	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		LESS THAN 5% FINES		GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
	SANDS	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE		GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
		CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		LESS THAN 5% FINES		SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
FINE-GRAINED SOILS	SANDS	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE		SM	SILTY SANDS, SAND-SILT MIXTURES
		50% OR MORE OF COARSE FRACTION PASSING THROUGH NO. 4 SIEVE		SC	CLAYEY SANDS, SAND-CLAY MIXTURES
	SANDS	CLEAN SANDS		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
		LESS THAN 5% FINES		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		SANDS WITH FINES		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SANDS	MORE THAN 12% FINES		MH	INORGANIC SILT, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
50% OR MORE OF MATERIAL PASSING THROUGH NO. 200 SIEVE	SANDS	50% OR MORE OF COARSE FRACTION PASSING THROUGH NO. 4 SIEVE		CH	INORGANIC CLAYS OF HIGH PLASTICITY
		50% OR MORE OF COARSE FRACTION PASSING THROUGH NO. 4 SIEVE		OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
		50% OR MORE OF COARSE FRACTION PASSING THROUGH NO. 4 SIEVE		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

LEGEND



2-INCH O.D. STANDARD PENETRATION TEST



3-INCH O.D. MODIFIED CALIFORNIA SAMPLE



SHELBY TUBE SAMPLE



GRAB SAMPLE



CORE SAMPLE

LL

LIQUID LIMIT

PI

PLASTICITY INDEX

TV

TORVANE SHEAR (tsf)

PEN

POCKET PENETROMETER (tsf)

∇

WATER LEVEL OBSERVED IN BORING

GEOLABS, INC.

Geotechnical Engineering

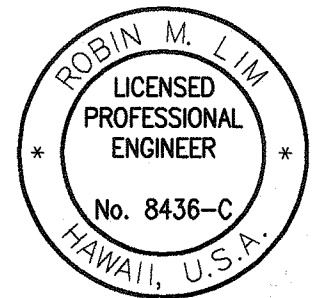
EMERGENCY REPLACEMENT
OF KEAIWA STREAM BRIDGE
DISTRICT OF KAU, ISLAND OF HAWAII

Log of
Boring
1

Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Approximate Ground Surface Elevation (feet): 182 *
			87	68						Gray vesicular BASALT, closely to moderately fractured, slightly weathered, very hard (basalt formation)
			100	90			5			Reddish gray scoriaceous BASALT, moderately fractured, slightly weathered, medium hard (basalt formation)
			92	51			10			Reddish gray scoriaceous BASALT, closely fractured, slightly weathered, medium hard (basalt formation)
			97	67			15			grades to moderately fractured
			20				20		SM	Gray vesicular BASALT, closely to moderately fractured, slightly weathered, medium hard (basalt formation)
							25			Orangish brown SILTY SAND, medium dense, very moist (pahala ash)
	69		0		10		30			grades with traces of weathered basalt gravel, medium dense, wet
	83		0		18		35			grades with seams of gray silty sand
	51		8		20		40			Gray vesicular BASALT, closely fractured, slightly weathered, medium hard (basalt formation)
	12		66	42	25/1' Ref.		45			Boring terminated at 47 feet
							50			* Elevations estimated from Structural Drawings received on December 5, 2000 by KSF, Inc.
							55			
							60			

Date Started:	December 5, 2000	Water Level: z
Date Completed:	December 5, 2000	None
Logged By:	G. Barut	Drill Rig: CONCORE
Total Depth:	47 feet	Drilling Method: NX Coring
Work Order:	4612-00	Driving Energy: 140 lb. wt., 30 in. drop

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2006 KALIHU STREET
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

MAMALAHOA HIGHWAY
REPLACEMENT OF
KEAIWA STREAM BRIDGE
Federal Aid Project No. ER-12(1)R

Scale: As Shown Date: January 2001

SHEET No. G2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(1)R	2001	62	77

GEOLABS, INC. Geotechnical Engineering										EMERGENCY REPLACEMENT OF KEAIIWA STREAM BRIDGE DISTRICT OF KAU, ISLAND OF HAWAII			Log of Boring 2
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Approximate Ground Surface Elevation (feet): 177 *			
										Description			
			98	63						Gray vesicular BASALT, closely fractured, slightly weathered, medium hard (basalt formation)			
			94	91			5			Brownish gray scoriaceous BASALT, closely fractured, slightly to moderately weathered, medium hard (basalt formation)			
							10			Gray vesicular BASALT, closely to moderately fractured, slightly weathered, medium hard (basalt formation)			
			23	7			15		SM	Reddish gray vesicular BASALT, closely fractured, slightly weathered, medium hard (basalt formation)			
							15			VOID			
	73		0		11		20			Orangish brown SILTY SAND slightly cemented, medium dense, moist (pahala ash)			
	72		0		20		25			grades with traces of basalt gravel			
	54		0		25		30			grades to brown			
	16		100	29	78		35			Gray vesicular BASALT, moderately to slightly weathered, soft (basalt formation)			
							40			grades to closely to severely fractured, medium hard			
							45			Boring terminated at 38 feet			
							50						
							55						
							60						
Date Started: December 4, 2000										Water Level: ∅			
Date Completed: December 4, 2000										None			
Logged By: G. Barut										Drill Rig: CONCORE			
Total Depth: 38 feet										Drilling Method: NX Coring			
Work Order: 4612-00										Driving Energy: 140 lb. wt., 30 in. drop			

GEOLABS, INC. Geotechnical Engineering										EMERGENCY REPLACEMENT OF KEAIIWA STREAM BRIDGE DISTRICT OF KAU, ISLAND OF HAWAII			Log of Boring 3
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Approximate Ground Surface Elevation (feet): 190 *			
										Description			
			87	73						Gray vugular BASALT, closely fractured, slightly weathered, very hard (basalt formation)			
			100	18			5			Reddish gray scoriaceous BASALT, severely to closely fractured, slightly weathered, medium hard (basalt formation)			
			83	53			10			Reddish gray scoriaceous BASALT, moderately fractured, slightly weathered, medium hard (basalt formation)			
			97	60			15			grades to severely fractured			
			31	15			20			grades to closely fractured			
							25		SM	Brown SILTY SAND, dense, moist, slightly cemented (pahala ash)			
							30		SM	Yellowish brown and gray SILTY SAND, medium dense, very moist (pahala ash)			
					12		35			grades to orangish brown with coarse sand			
					33		40			grades to medium dense to dense			
							45			grades to grayish brown			
			41	26	32/.5' +42/.2' Ref.		50			Gray scoriaceous BASALT, closely fractured, moderately weathered, medium hard (basalt formation)			
							55			Boring terminated at 46 feet			
							60						
Date Started: December 7, 2000										Water Level: ∅			
Date Completed: December 8, 2000										None			
Logged By: G. Barut										Drill Rig: CONCORE			
Total Depth: 46 feet										Drilling Method: NX Coring			
Work Order: 4612-00										Driving Energy: 140 lb. wt., 30 in. drop			

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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	DESIGNED BY	" "
	QUANTITIES BY	" "
	CHECKED BY	" "
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BORING LOG DOT 4612-00-01, GEOLABS.GDT 122200

BORING LOG DOT 4612-00-02, GEOLABS.GDT 122200

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HIGHWAYS DIVISION

BORING LOGS

MAMALAHOA HIGHWAY
REPLACEMENT OF
KEAIIWA STREAM BRIDGE
Federal Aid Project No. ER-12(1)R

Scale: As Shown Date: January 2001

SHEET No. G3 OF 6 SHEETS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS


MAMALAHOA HIGHWAY
REPLACEMENT OF
KEIWA STREAM BRIDGE
Federal Aid Project No. ER-12(1)R

Scale: As Shown Date: January 2001

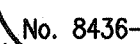
SHEET No. G4 OF 6 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY _____	" "
	TRACED BY _____	" "
NOTE BOOK	DESIGNED BY _____	" "
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No. _____	CHECKED BY _____	" "

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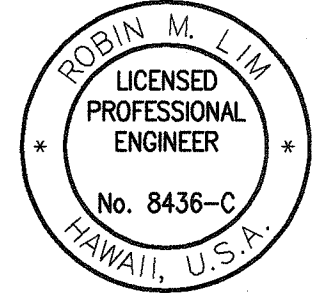
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(1)R	2001	64	77

GEOLABS, INC. Geotechnical Engineering							EMERGENCY REPLACEMENT OF KEAIIWA STREAM BRIDGE DISTRICT OF KAU, ISLAND OF HAWAII				Log of Boring 6	
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Approximate Ground Surface Elevation (feet): 193.5 *		
										Description		
			100	58						Gray vugular BASALT, closely fractured, slightly weathered, very hard (basalt formation)		
			99	81								
							5			Reddish gray scoriaceous BASALT, severely fractured, slightly weathered, soft to medium hard (basalt formation)		
			100	70						Reddish gray scoriaceous BASALT, moderately fractured, slightly weathered, soft to medium hard (basalt formation)		
							10			Gray vesicular BASALT, moderately fractured, slightly weathered, medium hard to hard (basalt formation)		
			100	70								
							15			Reddish gray scoriaceous BASALT, closely fractured, slightly weathered, soft to medium hard (basalt formation)		
			85	40						grades to severely to closely fractured at 12.5 feet		
			72	48			20			Gray vesicular BASALT, moderately fractured, slightly weathered, medium hard (basalt formation)		
										grades to closely to moderately fractured		
			0				25		SM	Orangish brown SILTY SAND, medium dense, very moist (pahala ash)		
							30					
					15							
					20		35					
					23		40			grades with dark brown seams and traces of weathered basalt		
					23		45					
			52	29						Gray vesicular BASALT, closely fractured, slightly weathered, medium hard (basalt formation)		
			40	7			50			Grayish brown strongly vesicular BASALT, severely fractured, slightly weathered, soft to medium hard (basalt formation)		
							55			Boring terminated at 55 feet		
Date Started: November 27, 2000										Water Level: \varnothing		
Date Completed: December 11, 2000										None		
Logged By: G. Barut										Drill Rig: MOBILE B-53		
Total Depth: 55 feet										Drilling Method: HQ Coring & Rotary Wash		
Work Order: 4612-00										Driving Energy: 140 lb. wt., 30 in. drop		

GEOLABS, INC.		EMERGENCY REPLACEMENT OF KEAIIWA STREAM BRIDGE DISTRICT OF KAU, ISLAND OF HAWAII							Log of Boring		
Geotechnical Engineering									7		
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Approximate Ground Surface Elevation (feet): 199 *	
										Description	
			69	56						Gray vugular BASALT, closely to moderately fractured, slightly weathered, very hard (basalt formation)	
			100	70			5			easier coring at 2 to 2.5 feet	
										Reddish gray BASALT FRAGMENTS (clinker)	
										Gray vesicular BASALT, moderately fractured, slightly weathered, medium hard (basalt formation)	
			98	53			10			Gray vesicular BASALT, severely to closely fractured, slightly weathered, hard (basalt formation)	
										grades to closely to moderately fractured at 8.5 ft.	
			100	54			15			Brownish gray vesicular BASALT, severely fractured, moderately weathered, medium hard (basalt formation)	
			100	70							
							20			Gray vesicular BASALT, moderately fractured, slightly weathered, hard (basalt formation)	
										grades to closely to moderately fractured 14.5 feet	
			77	25			25			Reddish brown scoriaceous BASALT, closely fractured, slightly weathered, soft to medium hard (basalt formation)	
										grades to brownish gray at 22 feet	
			43	33						Gray BASALT FRAGMENTS, moderately weathered, medium hard (clinker)	
							30		SM	Gray vesicular BASALT, moderately fractured, slightly weathered, medium hard (basalt formation)	
					26					Orangish brown SILTY SAND with traces of weathered basalt gravel, medium dense, very moist to wet (pahala ash)	
							35				
					21						
							40			grades with gray silty sand seams	
					21						
							45				
			29	23	23						
			95	85			50			Gray vesicular BASALT, closely to moderately fractured, slightly to moderately weathered, medium hard (basalt formation)	
							55				
										Boring terminated at 56.5 feet	
							60				
Date Started: November 25, 2000										Water Level: \varnothing	
Date Completed: December 12, 2000										None	
Logged By: G. Barut										Drill Rig: MOBILE B-53	
Total Depth: 56.5 feet										Drilling Method: HQ Coring & Rotary Wash	
Work Order: 4612-00										Driving Energy: 140 lb. wt., 30 in. drop	

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HIGHWAYS DIVISION

BORING LOGS

MAMALAHOA HIGHWAY
REPLACEMENT OF
KEAIIWA STREAM BRIDGE
Federal Aid Project No. ER-12(1)R
Scale: As Shown Date: January 2001

SHEET No. G5 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(1)R	2001	65	77

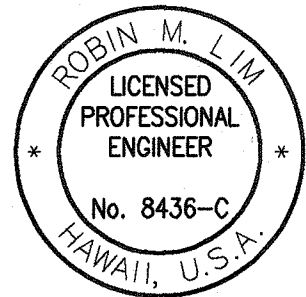
GEOLABS, INC. Geotechnical Engineering				EMERGENCY REPLACEMENT OF KEAIIWA STREAM BRIDGE DISTRICT OF KAU, ISLAND OF HAWAII				Log of Boring 8				
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Approximate Ground Surface Elevation (feet): 211 *		
										Description		
	2	5	88		5/0' Ref. 66 42		5		GW-GM	12-inch ASPHALT CONCRETE		
										Gray SILTY BASALT GRAVEL with some sand, dense, damp (fill)		
											Brownish gray SILTY BASALT GRAVEL with some sand, dense, very moist	
											Gray vugular BASALT, severely fractured, slightly weathered, very hard (basalt formation)	
											Gray vugular BASALT, closely to moderately fractured, slightly weathered, very hard (basalt formation)	
											Reddish gray BASALT FRAGMENTS, slightly weathered, medium hard (clinker)	
											Brownish gray scoriaceous BASALT, closely fractured, moderately weathered, medium hard (basalt formation)	
											Gray vesicular BASALT, moderately fractured, slightly weathered, medium hard (basalt formation)	
											Reddish gray vesicular BASALT, closely fractured, slightly weathered, medium hard (basalt formation)	
											Gray vesicular BASALT, moderately fractured, slightly weathered, medium hard to hard (basalt formation)	
											Reddish gray vesicular BASALT, closely fractured, slightly weathered, medium hard (basalt formation)	
											Gray vesicular BASALT, moderately fractured, slightly weathered, medium hard (basalt formation)	
											Brownish gray BASALT FRAGMENTS, moderately weathered (clinker)	
											Gray vesicular BASALT, closely fractured, slightly weathered, very hard (basalt formation)	
											Boring terminated at 40 feet	

Date Started: November 28, 2000				Water Level: ∅			
Date Completed: November 29, 2000				None			
Logged By: G. Barut				Drill Rig: MOBILE B-53			
Total Depth: 40 feet				Drilling Method: 4" Solid-Stem Auger & HQ Coring			
Work Order: 4612-00				Driving Energy: 140 lb. wt., 30 in. drop			

GEOLABS, INC. Geotechnical Engineering						EMERGENCY REPLACEMENT OF KEAIIWA STREAM BRIDGE DISTRICT OF KAU, ISLAND OF HAWAII				Log of Boring 9	
Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Approximate Ground Surface Elevation (feet): 212.5 *	
										Description	
	4				15				GW-GM	12-inch ASPHALT CONCRETE	
	4	112			44		5			Gray SANDY BASALT GRAVEL with some silt, medium dense, damp (fill)	
					28				GM	BOULDER	
							10			Grayish brown SILTY BASALT GRAVEL, loose to medium dense, moist	
			83 65	83 42						Gray vugular BASALT, closely to moderately fractured, slightly to moderately weathered, very hard (basalt formation)	
			47	25			15			Reddish gray BASALT FRAGMENTS, moderately weathered (clinker) grades to brownish gray	
			100	100			20			Gray scoriaceous BASALT, closely fractured, moderately weathered, medium hard (basalt formation)	
			100	43			25			Gray vesicular BASALT, moderately fractured, slightly weathered, medium hard to hard (basalt formation)	
										Reddish gray scoriaceous BASALT, moderately fractured, slightly weathered, soft to medium hard (basalt formation)	
			100	78			30			grades to severely fractured at 27 feet	
										Gray vesicular BASALT, closely fractured, slightly weathered, medium hard (basalt formation) grades to moderately fractured at 30.5 feet	
			52	38			35			Reddish gray scoriaceous BASALT, closely fractured, moderately weathered, soft to medium hard (basalt formation)	
							40			Brownish to reddish gray BASALT FRAGMENTS, moderately weathered (clinker)	
										Gray vesicular BASALT, moderately fractured, slightly weathered, hard (basalt formation)	
							45			Boring terminated at 40.5 feet	
							50				
							55				
							60				
Date Started: November 27, 2000										Water Level: ∅	
Date Completed: November 29, 2000										None	
Logged By: G. Barut										Drill Rig: MOBILE B-53	
Total Depth: 40.5 feet										Drilling Method: 4" Solid-Stem Auger & HQ Coring	
Work Order: 4612-00										Driving Energy: 140 lb. wt., 30 in. drop	

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	QUANTITIES BY	
	CHECKED BY	
No.		

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

MAMALAHOA HIGHWAY
REPLACEMENT OF
KEAIIWA STREAM BRIDGE
Federal Aid Project No. ER-12(1)R

Scale: As Shown Date: January 2001

SHEET No. G6 OF 6 SHEETS