

Scale: 1" = 40'

SITE PLAN

REFERENCE:
SOILS INVESTIGATION
KAHULUI AIRPORT ACCESS ROAD AND
HANA HIGHWAY WIDENING - PHASE 1
KAHULUI, MAUI, HAWAII
STATE PROJECT NO. AM 1061-10

PREPARED BY: ERNEST K. HIRATA & ASSOCIATES
NOVEMBER 10, 1988

NOTE:
BORING LOGS INDICATE THE APPROXIMATE SOIL CONDITIONS
ENCOUNTERED ONLY AT THOSE TIMES AND LOCATIONS WHERE
THE BORINGS WERE MADE AND MAY NOT REPRESENT CONDITIONS
AT OTHER TIMES AND LOCATIONS. BIDDERS SHALL EXAMINE
THE SITE AND THE BORING DATA AND DRAW THEIR OWN CONCLUSIONS THEREFROM AS TO THE CHARACTERISTIC OF MATERIALS
TO BE ENCOUNTERED.

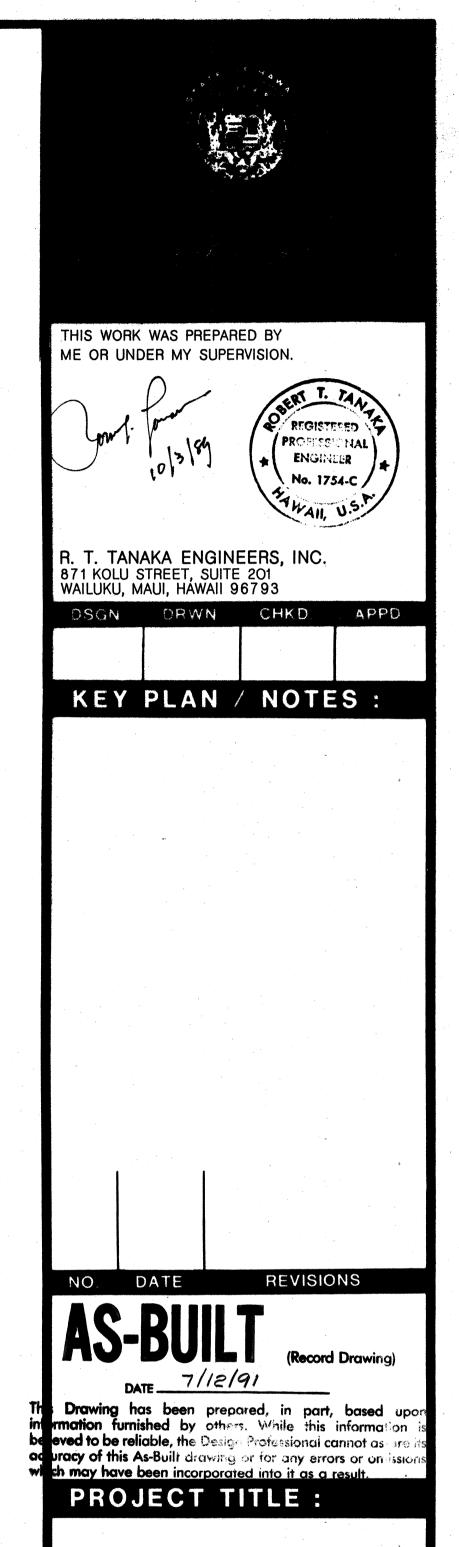
BORING NO. B1 (B.L. Sta. 156+90) DRIVING WT. 140 lb. DATE OF DRILLING 7-5-98
SURFACE ELEV 89.5± * DROP 30 in. DESCRIPTION

| Compared to the property of the p

BORING NO. B2 SURFACE ELEV	OF	. Sta. .5 <u>+</u>		DRIVING DROP	VV I	40 lb. DATE OF DRILLING 7-5-88 None WATER LEVEL None
DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
	ML- CL	81	82	19		Silty CLAY - Reddish brown, slightly moist, stiff.
5 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		53	86	36		HIGHLY WEATHERED ROCK - Mottled grayish brown, slightly moist, medium dense to dense, clayey.
- 10 -		20/No	Penetral	ion		End boring at 8.5 feet.
		•				
— 15 —						

BORING			. Sta. +	<u>138+50)</u>	DRIVING	VV 1	40 lb. DATE OF DRILLING 7-6-88 0 in. WATER LEVEL None
T O DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
		ML- CL	80	100	22		Silty CLAY - Reddish brown, slightly moist, stiff. Grading with highly weathered rock fragments from 2 feet.
- 5 -		·	20/No	Penetrati	on		HIGHLY WEATHERED ROCK - Mottled grayish brown, dense to medium hard.
- 10 -	·						End boring at 8 feet.
— 15 —							

	IG NO. BA		. Sta. <u>+</u>	132+00)	DRIVING DROP	V V 1.	40 lb. DATE OF DRILLING 7-6-88 30 in. WATER LEVEL None
O DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
		SM ML- CL	14/6" 54	88	16		Silty SAND - Light brown, dry, dense, with few gravels. Covered by 6" of brown silty clay.
- 5 -		OL.	53	72	26		Silty CLAY - Mottled brown, slightly moist, stiff, sandy, with highly weathered rock fragments and gravels.
		•	60	99	24		Grading to dark brown color and silty from 7 feet.
- 10 -							End boring at 9.5 feet.
						*,	
_ 15 _							



HANA HIGHWAY

IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12 AIP NO. 3-15-0006-

SHEET TITLE :

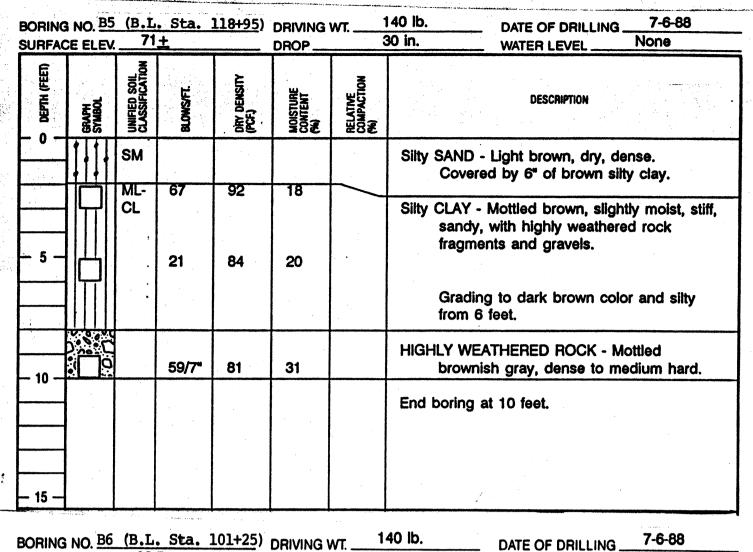
BORING

10-3-89

DWG NO

C-1

LOGS



BORING		~~	. Sta. 5 <u>+</u>	101+25)	DRIVING DROP	VV I	40 lb. DATE OF DRILLING 7-6-88 0 in. WATER LEVEL None
O DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
		SM ML-	26 13/6*	83	27	- /	Silty SAND - Light brown, dry, dense. Covered by 12" of brown silty clay.
- 5 -		CL	46	80	33		Silty CLAY - Reddish brown, slightly moist, stiff, with highly weathered rock fragments and gravels. Grading to dark brown color and silty from 4.5 feet.
		,	43	80	38		HIGHLY WEATHERED ROCK - Mottled gray and orange brown, moist, dense.
- 10 - - 15 -							End boring at 9.5 feet.

BORING		62	. Sta. : .5 <u>+</u>	91+85)	DRIVING	VV I	40 lb. DATE OF DRILLING 7-6-88 O in. WATER LEVEL None
T O DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FI.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
		ML- CL	81	81	25		Silty CLAY - Reddish brown, slightly moist, stiff.
- 5 -	Ш		34				Grading with highly weathered rock fragments from 3 feet.
			26/6"	84	39		HIGHLY WEATHERED ROCK - Mottled dark grayish brown, moist, medium dense to dense.
- 10 -	گەتتىقۇ		40	_77	46		
							End boring at 10.5 feet.
– 15 –							

BORING			. Sta. <u>'+</u>	81+05)	DRIVING DROP	VV I	140 lb. DATE OF DRILLING 7-6-88 30 in. WATER LEVEL None
T D DEPTH (FEET)	GRAPH Symbol	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
		SM	·			•	Silty SAND - Light brown, dry, dense. Covered by 6" of brown silty clay.
			71	89	27		HIGHLY WEATHERED ROCK - Mottled grayish brown, moist, dense.
- 5 -			42/9"	97	15		
- 10 -			87	96	12	•	Grading dense to medium hard from 8 feet.
							End boring at 10 feet.
– 15 –							

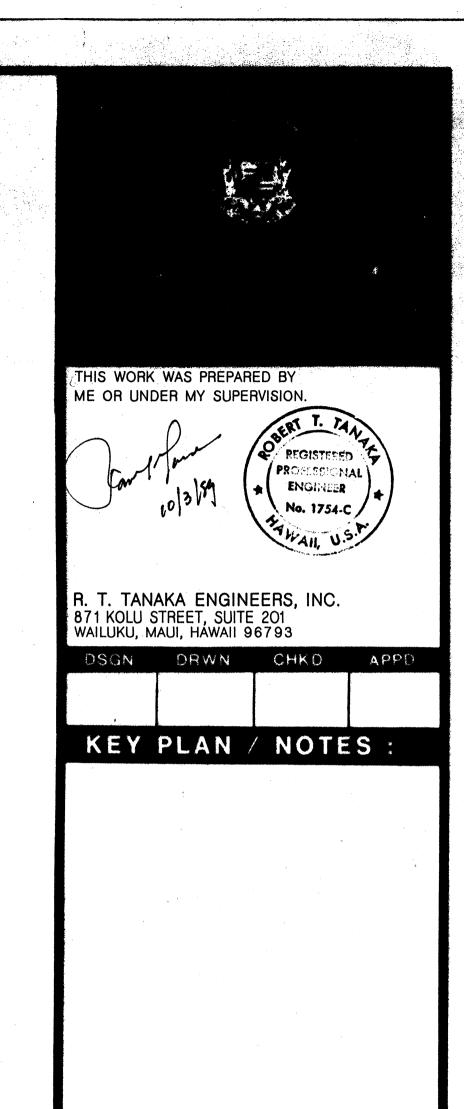
	BORING		^^	. Sta. (<u>69+00)</u>	DRIVING DROP	VV I	40 lb. DATE OF DRILLING 7-6-88 0 in. WATER LEVEL None
. *	DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
	- 0 -		SM	_34	102	_10	•	Silty SAND - Light brown, dry, dense. Covered by 18" of brown silty clay.
			ML- CL	37/6*			,	Silty CLAY - Reddish brown, moist, stiff, with sand.
					,	·	•	HIGHLY WEATHERED ROCK - Mottled grayish brown, medium hard to hard.
	- 10	ì	·					End boring at 8 feet.
	_ 15 _						·	
	BORING		~~	L. Sta. <u>+</u>	<u>59+60)</u>	DRIVING TO	V V I	40 lb. DATE OF DRILLING 7-6-88 0 in. WATER LEVEL None
	T O DEPTH (FEET) I	GRAPH Symbol	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
			SM ML- CL	50 31/6	101	11	/	Silty SAND - Light brown, dry, dense, with few gravels. Covered by 6" of brown silty clay.
				l	ł	1	<u> </u>	

SURFACE ELE		+		DROP	3	0 in. WATER LEVEL None
© DEPTH (FEET) GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
	SM	50	101	11		Silty SAND - Light brown, dry, dense, with few gravels.
	ML- CL	31/6*				Covered by 6" of brown silty clay.
- 5 -		22	78	25)	Silty CLAY - Mottled brown, slightly moist, stiff, sandy, with highly weathered rock fragments and gravels.
		33	95	31		Grading to dark brown color and silty from 7 feet.
- 10 -				,		End boring at 9.5 feet.
					,	
15 <i></i>						
W.W.)	11 /p	T Cha	40.25		<u>-</u>	

BORING SURFAC			t. Sta.	48+35)	DRIVING DROP	WT	40 lb. DATE OF I		7-7-88 5 ft.
ОЕРТН (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT	RELATIVE COMPACTION (%)	DESCRI		y 0 it.
- 0 -		ML- CL	11	99	29		Silty CLAY - Reddish br		medium
- 5 -		SM	3 N	o Recov	ery		Grading sandy fro Silty SAND - Grayish br medium dense.	own, moist,	
— 10 —		ML	16	89	36		Clayey SILT - Mottled o	range brown	, moist,
— 15 —							End boring at 10.5 feet.		

	S NO		+	124730	DRIVING	WT	40 lb. DATE OF DRILLING 7-7-88 10 in. WATER LEVEL None
	JE ELEV.				DROP_		WATER LEVEL NONE
O DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
<u> </u>		ML					Clayey SILT - Dark brown, slightly moist, medium stiff to stiff, with gravels and cobbles. Boulders from 1 to 3 feet.
5 —	中		7	81	26		
			69	88	30		Grading stiff from 7 feet.
10 —							
15 —			62/7*	90	28		
20 —			62/6*	92	23		Cobble at 18.5 feet.
			60 /8"	85	26		Grading with highly weathered rock fragments from 22 feet.
25 —							HIGHLY WEATHERED ROCK - Mottled grayish brown and red, moist, dense to medium hard, clayey.
30 —	V 0000 0000 0000 0000 0000 0000 0000 00		25/2"	Tip Re	covery		
			89/10*	85	33		
35			,				End boring at 34 feet.

	E ELEV	66	<u>+</u>		DRIVING	VV 1.	30 in. DATE OF DRILLING 7-7-88 WATER LEVEL None
O DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
		ML	28	85	14		Clayey SILT - Dark brown, slightly moist, medium stiff to stiff, sandy, with gravels and cobbles.
- 5 —			13	78	31	*	
· 10 —			41/6"	98	25		
							Grading with cobbles and boulders from 10.5 feet.
- 15 —							
20 —						•	
25 —	0°.0°		48/7"	94	23		HIGHLY WEATHERED ROCK - Mottled dark grayish brown, moist, dense to medium hard, clayey.
	-088. 50.08						
30 —	0.00 0.00 0.00 0.00 0.00 0.00		60/5*	80	29		Grading to mottled gray and red color
			_20/No	Penetrat	on		from 31 feet.
35							End boring at 34.5 feet.



DATE 7/12/91

The Drawing has been prepared, in part, based upon information is be eved to be reliable, the Design Professional cannot assure its racy of this As-Built drawing or for any errors or amissions when may have been incorporated into it as a result.

PROJECT TITLE :

NO DATE

HANA HIGHWAY

IMPROVEMENTS

PROJECT NO.:

STATE NO. AM-1061-12 AIP NO. 3-15-0006-

SHEET TITLE :

BORING LOGS

DATE 10-3-89

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