

## BORING LOCATION PLAN

BORING SURFAC		81 35	+ *		DRIVING V	VV I	140 LB. DATE OF DRILLING 9-1-88  30 IN. WATER LEVEL NONE
DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	ORY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
- 0 -	000	GM	36	92	14		SILTY GRAVELS - PURPLISH BROWN, SLIGHTLY MOIST, MEDIUM DENSE TO DENSE. COVERED BY 3 INCHES OF ASPHALTIC
_ 5 _		CL- ML	18/6" 39	82 84	21 30		SILTY CLAY - MOTTLED REDDISH BROWN,
			24	57	25		MOIST, MEDIUM STIFF TO STIFF, SANDY, WITH GRAVELS. GRADING TO BROWN COLOR FROM 6 TO 8 FEET.
<b>-</b> 10 -			42	88	27	The state of the s	
							END BORING AT 10.5 FEET.
			Reservation of the last transfer of the last transf				

BORING SURFAC		B2 17:	<u> </u>		DRIVING V	N/ 1	40 LB. DATE OF DRILLING 9-6-88  0 IN. WATER LEVEL NONE
DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
- 0 -	53	CL- ML	93	81	24		SILTY CLAY - BROWN, SLIGHTLY MOIST, STIFF, WITH SAND AND GRAVELS.
- 5 -			43	88	29		TO LIGHT PROWN COLOR
<u> </u>			45	88	26		GRADING TO LIGHT BROWN COLOR FROM 8 FEET.  END BORING AT 10.5 FEET.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOCATION PLANS
AND BORING LOGS-I

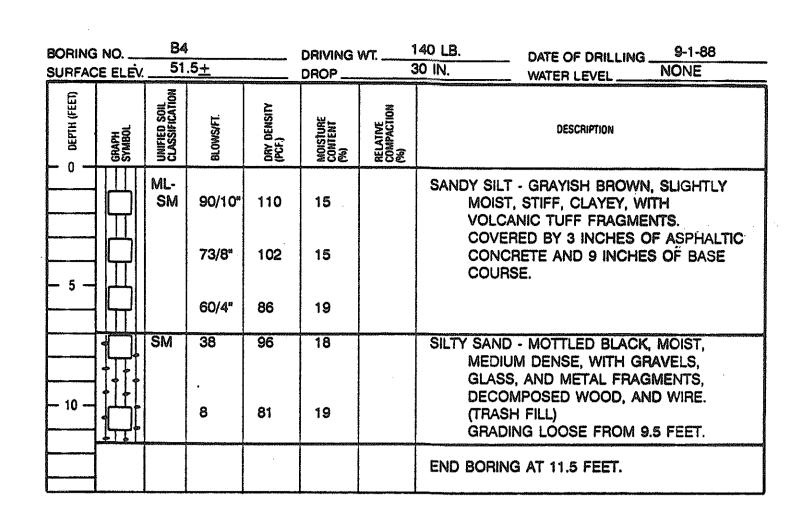
H-I NONPOTABLE WATER SYSTEM
HALAWA INTERCHANGE TO KEEHI INTERCHANGE
F.A.I. PROJ. NO. IR - HI-1 (211)

SCALE: AS NOTED DATE: 11/23/88

SHEET NO.CG OF 48 SHEETS

BORING LOGS - 1

8



BORING	DE ELEV. 46+				DRIVING	V V 14	40 LB. DATE OF DRILLING 9-1-88  30 IN. WATER LEVEL NONE
T > DEPTH (FEET) 	GRAPH Symbol	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION .
		ML- SM	49/9"	102	19		SANDY SILT - GRAYISH BROWN, MOIST, STIFF, CLAYEY, WITH VOLCANIC TUFF FRAGMENTS. COVERED BY 3 INCHES OF ASPHALTIC CONCRETE AND 15 INCHES OF BASE
- 5	$\Box$		43/6"	77	20		COURSE.
			75/7"	89	20		
_ 10 _			63/10*	91	20	<del>Videoli agis por si A</del> rrazova nacembra	
							END BORING AT 10 FEET.

BORING SURFAC		B6			DRIVING	AA 1	140 LB. DATE OF DRILLING 9-1-88 30 IN. WATER LEVEL None -
I O DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
, ,		ML- SM	52	98	14		CLAYEY SILT - MOTTLED BROWN, MOIST, MEDIUM STIFF TO STIFF, SANDY, WITH VOLCANIC TUFF AND CORAL FRAGMENTS.
- 5 -		ŕ	25	87	22		COVERED BY 4 INCHES OF ASPHALTIC CONCRETE AND 8 INCHES OF BASE COURSE.
			23	95	15		
10 -			68/7"	89	17		
							END BORING AT 10 FEET.

ORING URFAC	NO	87 33	.5 <u>÷</u>	700 TO 100 TO 10	DRIVING DROP	VV 8	40 LB. DATE OF DRILLING 9-6-88  10 IN. WATER LEVEL None
OEPTH (FEET)	GRAPH Symbol	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	ORY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	OESCRIPTION
		ML- SM	30	94	22		SANDY SILT - GRAYISH BROWN, MOIST, MEDIUM STIFF TO STIFF, CLAYEY, WITH VOLCANIC TUFF FRAGMENTS. COVERED BY 3 INCHES OF ASPHALTIC
- 5			11/6" 10 / N	94 O PENE	25 TRATION		CONCRETE AND 9 INCHES OF BASE COURSE.
			40/3"	91	22		VOLCANIC TUFF - DARK GRAYISH BROWN, DENSE TO MEDIUM HARD, WITH WEATHERED SEAMS.
10 —			40/2"	TIP RE	COVERY	7	
							END BORING AT 10.5 FEET.

BORING SURFAC		B8 52		**************************************	DRIVING	44 i	140 LB. DATE OF DRILLING 9-7-88  30 IN. WATER LEVEL None
T © DEPTH (FEET) 1	GRAPH Symbol	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DAY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
- 5 -		ML- SM	60/6" 67/11" 68/8"	81 99 95	20 9		SANDY SILT - GRAYISH BROWN, SLIGHTLY MOIST, STIFF, CLAYEY, WITH VOLCANIC TUFF FRAGMENTS. COVERED BY 3 INCHES OF ASPHALTIC CONCRETE AND 15 INCHES OF BASE COURSE.
							END BORING AT 11 FEET.

BORING	S NO	B9 8 <u>+</u>		-	DRIVING '	wr1	DATE OF DRILLING 9-6-88  O IN. WATER LEVEL NONE	
I > DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	DAY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION	
- 5 -		SM	39	94	Ø		SILTY SAND - TAN, SLIGHTLY MOIST, MEDIUM DENSE TO DENSE, WITH CORAL FRAGMENTS.	
			19	98	14	MIN TO THE REAL PROPERTY AND THE PROPERT		
<b>–</b> 10 <b>–</b>		SM	46	91	34		SILTY SAND - GRAY, MOIST TO WET, MEDIUM DENSE TO DENSE, WITH CORAL FRAGMENTS.	
-	-	-	-	-	-		END BORING AT 10.5 FEET.	

BORING I		81 10			DRIVING DROP	AA 1° **********************************	40 LB. DATE OF DRILLING 9-6-88 30 IN. WATER LEVEL @ 10 FT.
DEPTH (FEET)	GRAPH Symbol	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	OFF DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
- 5 -		SM	22	86	16		SILTY SAND - TAN, SLIGHTLY MOIST, MEDIUM DENSE TO DENSE, WITH CORAL FRAGMENTS. COVERED BY 12 INCHES OF TOPSOIL.
			19	76	11	ulani kananda ka	GRADING TO BROWN COLOR FROM 5
	000		25	70	22		CORAL - MOTTLED TAN, MEDIUM DENSE TO DENSE, CLAYEY.
- 10 <sup>∇</sup>			54/8"	NO RE	COVER		GRADING MEDIUM HARD FROM 9 FEET.
							END BORING AT 11 FEET.

BORING SURFAC	i NO E ELEV	B1 8 <u>-</u>			DRIVING DROP	AA 1	140 LB.       DATE OF DRILLING
DEPTH (FEET)	GRAPH SYMBOL	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	ORY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
- 5 -		SM	2	76	10		SILTY SAND - TAN, SLIGHTLY MOIST, MEDIUM DENSE TO DENSE, WITH CORAL FRAGMENTS. GRADING LOOSE FROM 3 FEET.
$\nabla$			85/9"	93	29	managaria-stationopol-	CORAL - MOTTLED TAN, DENSE TO MEDIUM HARD.
- 10 -			66	.100	20		
		,					END BORING AT 11.5 FEET.

BORING NO SURFACE ELEV	B1 7.5			DRIVING	A A 14	40 LB. DATE OF DRILLING 9-7-88 O IN. WATER LEVEL NONE
GRAPH (FEET)	UNIFIED SOIL CLASSIFICATION	BLOWS/FI.	DRY DENSITY (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
	SM	21	86	5		SILTY SAND - TAN, SLIGHTLY MOIST, MEDIUM DENSE, WITH CORAL FRAGMENTS.
- 5 - 111		2	TIP RE	COVERY	,	GRADING LOOSE FROM 4.5 FEET.
- 10 -		78/0 <sup>4</sup>	96	25		CORAL - LIGHT GRAYISH TAN, DENSE, CLAYEY.
						END BORING AT 9 FEET.

BORING		B1 8 <u>+</u>			DRIVING V	VV 1	40 LB. DATE OF DRILLING 9-7-88 30 IN. WATER LEVEL @ 7.5 FT.
T D DEPTH (FEET)	GRAPH Symbol	UNIFIED SOIL CLASSIFICATION	BLOWS/FT.	ORY DENSIT! (PCF.)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	DESCRIPTION
		SM					SILTY SAND - TAN, MOIST, MEDIUM DENSE TO DENSE, WITH CORAL FRAGMENTS.
- 5 -		. •	33	88	6		
$\overline{\Sigma}$			27	71	13		
		SM	4	79	39		SILTY SAND - GRAY, LOOSE, CLAYEY, WITH FEW CORAL FRAGMENTS.
							END BORING AT 10.5 FEET.

BORING LOGS - 2



11-11S WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. MICHAL I & LAMARUL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS - 2

H-I NONPOTABLE WATER SYSTEM
HALAWA INTERCHANGE TO KEEHI INTERCHANGE
FAIL PROJ. NO. I R- HI- I (211)

SCALE: NONE

FED. ROAD DIST. NO.

FED. AID

PROJ. NO.

HAWAII | HAW. | IR-HI-1(211) | 1989 |

FISCAL SHEET

NO.

YEAR

TOTAL

SHEETS

53

DATE: 11/23/88

SHEET NO. C-7 OF 48 SHEETS

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