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No. 42

SUPERVISED COMPACTED FILL REPORT

KAILUA HEIGHTS SUBDIVISION UNIT 8B & 8C

SR-42

LOTS 108 TO 128

KAILUA, OAHU, HAWAII

for

LONE STAR HAWAII, INC.

W. O. 215-A

April 16, 1981

MUNICIPAL REFERENCE RECORDS CENTER

City & County of Honolulu

City Hall Annex, 1558 S. King Street

Honolulu, Hawaii 96813

WITHDRAWN

EH

ERNEST K. HIRATA & ASSOCIATES, INC.



ERNEST K. HIRATA & ASSOCIATES, INC.

Soils and Foundation Engineering

905 Makahiki Way, Makai Suite • Honolulu, Hawaii 96826 • Phone 941-5055

April 16, 1981

W. O. 215-A

Lone Star Hawaii, Inc.
Suite 1480
Pacific Trade Center
190 South King Street
Honolulu, Hawaii 96813

Attention: Mr. Paul Ankeny

Subject: Supervised Compacted Fill Report
Kailua Heights Subdivision Unit 8B & 8C
Lots 108 to 128
Kailua, Oahu, Hawaii

Gentlemen:

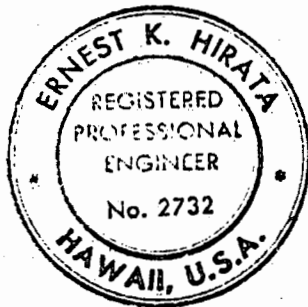
Submitted herewith is a compacted fill report on the above referenced project. The purpose of the testing was to determine that the specifications required by the revised ordinances of the City & County of Honolulu met compliance. The field density test results are presented in Table I. The approximate test locations are shown on the accompanying grading plan.

The maximum density and optimum moisture content of each soil type utilized were determined in accordance with ASTM D-1557-70.

Field density tests were performed in accordance with the Sand-Cone Method (ASTM D-1556-64).

DISCUSSION

1. All deleterious materials such as brush, rubbish, etc. were disposed of offsite prior to placing fill.
2. The exposed ground surface was scarified to a depth of 6 inches, moistened or dried as required to achieve optimum moisture conditions, and recompactd to 90% of the laboratory standard.
3. Fill was placed in lifts restricted to 6 inches in thickness, moistened or dried as required, and compacted to 90% or better as indicated by the test results.



Respectfully submitted,

Ernest K. Hirata & Associates, Inc.


Ernest K. Hirata P.E. 2732

EKH:yk

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOT NO.</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMP.</u>	<u>COMMENTS</u>
12-05-79	D519	115	165.5	116.2	14.3	118.5	98.1	
1-24-80	D520	"	166.4	109.7	17.1	"	92.5	
	D521	118	183.0	113.5	16.1	"	95.7	
2-01-80	D524	113/114	161.3	106.0	19.0	"	89.5	Fail; See D525
	D525	"	"	109.5	16.3	"	92.4	Retest D524
3-05-80	D546	127	206.0	109.8	17.5	"	92.7	
	D547	125	201.8	108.8	14.1	"	95.4	
	D548	124	198.5	98.0	10.9	"	82.7	Fail; See D552
	D549	122	192.9	106.6	15.0	"	90.0	
	D550	120/121	188.9	117.6	13.9	"	99.2	
3-06-80	D552	124	198.5	111.6	12.5	"	94.2	Retest D548
3-12-80	D558	128	209.0	106.7	17.4	"	90.0	
4-18-80	D563	116/117	183.2	118.0	13.4	115.5	100+	
	D564	118	188.2	116.6	16.0	"	100+	
5-12-80	D565	113	170.0	121.0	10.5	"	100+	
	D566	116	179.3	116.3	15.0	"	100+	
5-16-80	D567	118	190.9	120.1	10.6	"	100+	
5-19-80	D568	119	187.9	117.8	9.3	118.5	99.4	
	D569	117	181.1	121.8	9.4	"	100+	
	D570	114	169.2	119.9	8.9	"	100+	
5-12-80	D571	127	203.7	104.9	13.2	"	88.5	Fail; See D573
	D572	126	202.7	101.6	11.0	"	85.7	" " D574
	D573	127	203.7	116.8	13.0	"	98.6	Retest D571
	D574	126	202.7	113.8	8.9	"	96.0	Retest D572
	D575	125	201.6	108.7	10.7	"	91.7	
	D576	123	194.4	118.7	10.1	"	100+	
	D577	121	193.0	103.6	9.4	"	87.4	Fail; See D578
5-22-80	D578	"	"	112.8	9.0	"	95.2	Retest D577
5-28-80	D579	117	186.8	134.0	17.3	"	96.4	
6-04-80	D580	"	182.5	119.3	13.7	"	100+	
	D581	"	179.5	115.5	13.9	"	97.5	

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOT NO.</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMP.</u>	<u>COMMENTS</u>
6-09-80	D582	118	185.1	120.4	7.6	121.0	99.5	
	D583	116	176.3	116.5	8.7	"	96.3	
6-12-80	D584	125	207.1	125.0	8.2	"	100+	
	D585	123	202.9	114.9	9.0	"	95.0	
	D586	121	198.2	120.0	9.4	"	99.2	
6-21-80	D587	120	190.2	121.0	10.1	"	100+	
	D588	118	182.4	118.9	11.5	"	98.3	
	D589	116	171.9	119.4	10.5	"	98.7	
6-24-80	D590	120	197.1	118.4	10.6	"	97.8	
	D591	116	184.7	117.1	11.4	"	96.8	
	D592	119	190.5	115.1	11.2	"	95.1	
	D593	119	191.8	121.8	10.1	"	100+	
6-26-80	D594	118	197.1	106.3	11.0	"	87.9	Fail; See D597
	D595	116	186.7	112.9	13.2	"	93.3	
	D596	114	174.9	98.2	12.6	"	81.1	Fail; See D598
6-27-80	D597	118	197.1	126.6	12.5	"	100+	Retest D594
	D598	114	174.9	123.5	10.8	"	100+	Retest D596
	D599	128	214.9	120.6	12.0	"	99.7	
	D600	125	203.8	122.8	12.5	"	100+	
	D601	122/123	195.1	130.0	10.0	"	100+	
6-30-80	D602	117	188.5	123.9	9.6	"	100+	
7-01-80	D603	126	207.6	118.6	14.5	"	98.0	
	D604	123	198.0	111.8	14.2	"	92.4	
7-02-80	D605	122	198.4	117.4	13.0	"	97.1	
	D606	119	192.4	116.0	12.9	"	95.9	
	D607	124	201.7	121.4	14.2	"	100+	
7-15-80	D608	119	103.3	123.8	13.6	"	100+	
	D609	117	192.2	124.5	13.6	"	100+	
	D610	115	170.9	114.6	13.3	"	94.7	
	D611	116	195.3	118.7	12.2	"	98.1	
	D612	120	199.5	116.2	13.1	"	96.0	
	D613	126	215.5	111.9	14.2	"	92.5	
	D614	124	206.5	121.3	13.3	"	100+	

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOT NO.</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMP.</u>	<u>COMMENTS</u>
7-16-80	D615	118	195.0	122.2	12.0	121.0	100+	
	D616	116	193.0	115.0	10.0	"	95.8	
7-17-80	D617	127	214.6	132.9	10.3	"	99.6	
	D618	114	174.8	130.6	11.4	"	96.9	
	D619	121	201.4	129.3	9.8	"	97.3	
7-21-80	D620	115	188.3	120.8	12.0	"	99.8	
7-22-80	D621	126	214.3	116.7	12.4	"	96.5	
	D622	112	160.8	117.7	11.0	"	97.3	
7-23-80	D623	113	168.3	116.2	12.1	"	96.0	
	D624	117	198.3	119.0	11.4	"	98.7	
10-02-80	D659	126	219.3	110.8	7.9	"	91.6	
10-07-80	D660	127	219.3	116.3	14.2	"	96.0	
10-08-80	D661	127	220.7	112.4	12.9	"	92.3	
10-09-80	D662	119	202.3	121.3	11.5	"	100+	
	D663	117	194.0	120.4	12.8	"	99.5	
10-10-80	D664	127	221.9	113.1	11.5	"	93.5	
10-14-80	D665	128	225.6	120.0	13.2	"	99.1	
	D666	125	220.5	118.9	12.4	"	98.2	
	D667	116	190.0	117.9	12.5	"	97.4	
	D668	118	199.0	118.4	11.2	"	97.4	
10-15-80	D669	127	222.5	120.6	15.4	"	99.7	
	D670	120	200.0	118.7	12.1	"	98.1	
10-16-80	D671	117	194.8	122.9	14.2	118.5	100+	
	D672	119	204.8	113.8	12.7	"	96.1	
	D673	"	212.5	120.5	13.9	"	100+	
10-17-80	D674	128	228.8	126.5	13.2	"	100+	
	D675	117	203.8	112.3	14.0	"	94.7	
	D676	126	222.5	117.7	14.1	"	99.3	

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOT NO.</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMP.</u>	<u>COMMENTS</u>
10-20-80	D677	120	204.5	119.6	11.9	118.5	100+	
10-22-80	D678	118	201.5	112.0	11.9	"	94.5	
	D679	119	205.0	114.0	13.1	"	96.2	
	D680	125	216.5	110.1	12.7	121.0	91.0	
	D681	127	220.0	116.9	12.6	"	97.0	
10-23-80	D682	127	221.5	115.9	17.2	"	95.4	
	D683	119	204.6	112.6	10.9	"	93.1	
	D684	121	206.6	118.6	11.5	"	98.0	
	D685	122	208.0	133.4	11.9	"	100+	
10-29-80	D686	120	203.0	115.0	12.4	118.5	97.0	
11-04-80	D689	125	217.0	118.2	13.2	"	100	
	D690	127	226.9	128.8	11.7	"	100+	
	D691	128	226.9	118.1	13.5	"	100	
11-05-80	D692	127	227.4	116.1	12.0	"	98.0	
11-06-80	D693	118	202.0	117.0	14.0	"	99.0	
11-07-80	D694	128	226.3	117.3	15.0	"	99.0	
	D695	125	221.0	121.5	13.0	"	100+	
	D696	117	194.0	118.4	14.0	"	100	
11-10-80	D697	127	227.0	112.5	12.9	"	95.0	
	D698	124	208.0	113.4	14.8	"	96.0	
11-12-80	D699	124	209.0	111.4	12.1	"	94.0	
11-14-80	D700	116	209.0	116.7	13.0	"	98.0	
11-17-80	D701	123	210.0	115.0	11.3	"	97.0	
11-18-80	D702	122	211.0	119.1	13.4	"	100+	
	D703	128	228.0	112.4	11.7	"	94.8	
11-19-80	D704	122	211.0	113.4	12.7	"	96.0	
	D705	125	211.0	125.1	12.6	"	100+	
	D706	127	226.0	124.5	12.8	"	100+	

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOT NO.</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMP.</u>	<u>COMMENTS</u>
11-20-80	D707	121	213.0	121.0	13.0	118.5	100+	
	D708	123	215.0	121.6	14.4	"	100+	
	D709	117	207.0	125.0	12.9	"	100+	
11-24-80	D710	126	229.3	114.1	11.6	"	96.3	
	D711	123	214.0	115.1	12.5	"	97.4	
	D712	120	210.0	118.9	11.0	"	100+	
11-25-80	D713	124	224.0	109.8	13.2	"	92.6	
11-26-80	D714	119	209.0	119.3	14.7	"	100	
	D715	124	225.0	117.7	11.7	"	99.0	
	D716	122	221.0	108.4	13.6	"	91.4	
12-01-80	D717	127	227.0	126.43	12.1	"	100+	
12-02-80	D718	126	228.0	119.3	13.6	"	100+	
12-03-80	D719	120	221.0	118.1	13.6	"	99.6	
12-09-80	D720	127	229.0	122.9	15.1	"	100+	
	D721	124	226.0	114.1	18.1	"	96.3	
	D722	121	222.0	117.6	15.0	"	99.0	
12-11-80	D723	125	230.0	121.6	15.9	"	100+	
	D724	128	233.0	123.1	12.1	"	100+	
12-18-80	D725	123	227.0	118.3	16.8	"	100+	
	D726	126	228.0	118.1	15.3	"	100+	
1-14-81	D727	121	223.0	118.5	15.7	"	94.0	
	D728	123	231.0	116.0	15.2	"	98.0	
1-16-81	D729	121	224.0	110.4	14.8	"	93.2	
	D730	124	235.0	119.3	15.4	"	100	
	D731	125	237.2	121.0	14.7	"	100+	
1-21-81	D732	126	237.0	117.1	14.4	"	99.0	
	D733	123	233.0	109.5	12.5	"	92.0	
	D734	121	215.0	119.4	16.4	"	100+	
2-03-81	D735	119	211.2	124.5	14.1	"	100+	
	D736	120	219.3	114.3	13.9	"	96.4	

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOT NO.</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMP.</u>	<u>COMMENTS</u>
2-03-81	D737	121	226.5	119.1	11.2	118.5	100+	
	D738	122	231.9	114.5	12.7	"	96.7	
	D739	123	234.6	116.3	13.7	"	98.1	
2-04-81	D740	124	236.0	120.0	14.3	"	100+	
	D741	125	238.0	112.0	14.5	"	94.0	
	D742	126	237.3	123.0	12.0	"	100+	
2-10-81	D743	127	235.9	116.4	13.4	"	98.3	
	D744	128	234.2	122.0	13.3	"	100+	
2-19-81	D745	Auwaiku St.						
		Sta 3+20	237.2	129.8	12.8	"	100+	
	D746	Sta 4+50	234.2	112.9	14.9	"	95.3	
2-20-81	D747	Sta 6+33	220.0	122.6	10.3	"	100+	
	D748	Sta 4+25	234.2	124.3	15.7	"	100+	
	D749	Sta 5+90	230.5	121.5	10.8	"	100+	
2-27-81	D750	Sta 9+89	188.0	115.9	13.3	"	98.0	
3-02-81	D751	Sta 10+50	170.0	120.2	13.7	"	100+	
3-16-81	D752	Sta 4+05	236.0	117.6	10.8	"	99.0	
	D753	Sta 5+00	232.0	131.6	11.7	"	100+	
3-17-81	D754	Sta 6+35	223.0	118.4	11.7	"	100	
	D755	Sta 7+40	209.0	125.2	10.8	"	100+	
	D756	Sta 7+42	209.0	123.9	9.5	"	100+	
	D757	Sta 8+40	196.0	123.0	11.0	"	100+	
	D758	Sta 9+50	183.0	118.0	10.8	"	100	
	D759	Sta 10+50	173.0	115.4	9.5	"	97.4	
3-20-81	D760	Sta 11+25	161.3	115.7	12.1	"	97.6	
	D761	Sta 12+65	145.9	127.8	11.6	"	100+	
	D762	Sta 14+00	135.3	129.0	11.4	"	100+	
	D763	Sta 3+00	237.3	118.2	11.6	"	100	
	D764	Sta 1+00	235.4	114.5	13.3	"	96.9	
	D765	Sta 2+00	237.4	105.0	14.4	"	88.6	Failed: See D766
3-25-81	D766	Sta 2+00	237.4	118.1	16.6	"	100	Retest D765

TABLE I
DENSITY TEST RESULTS

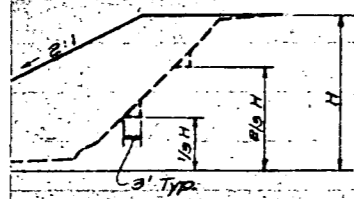
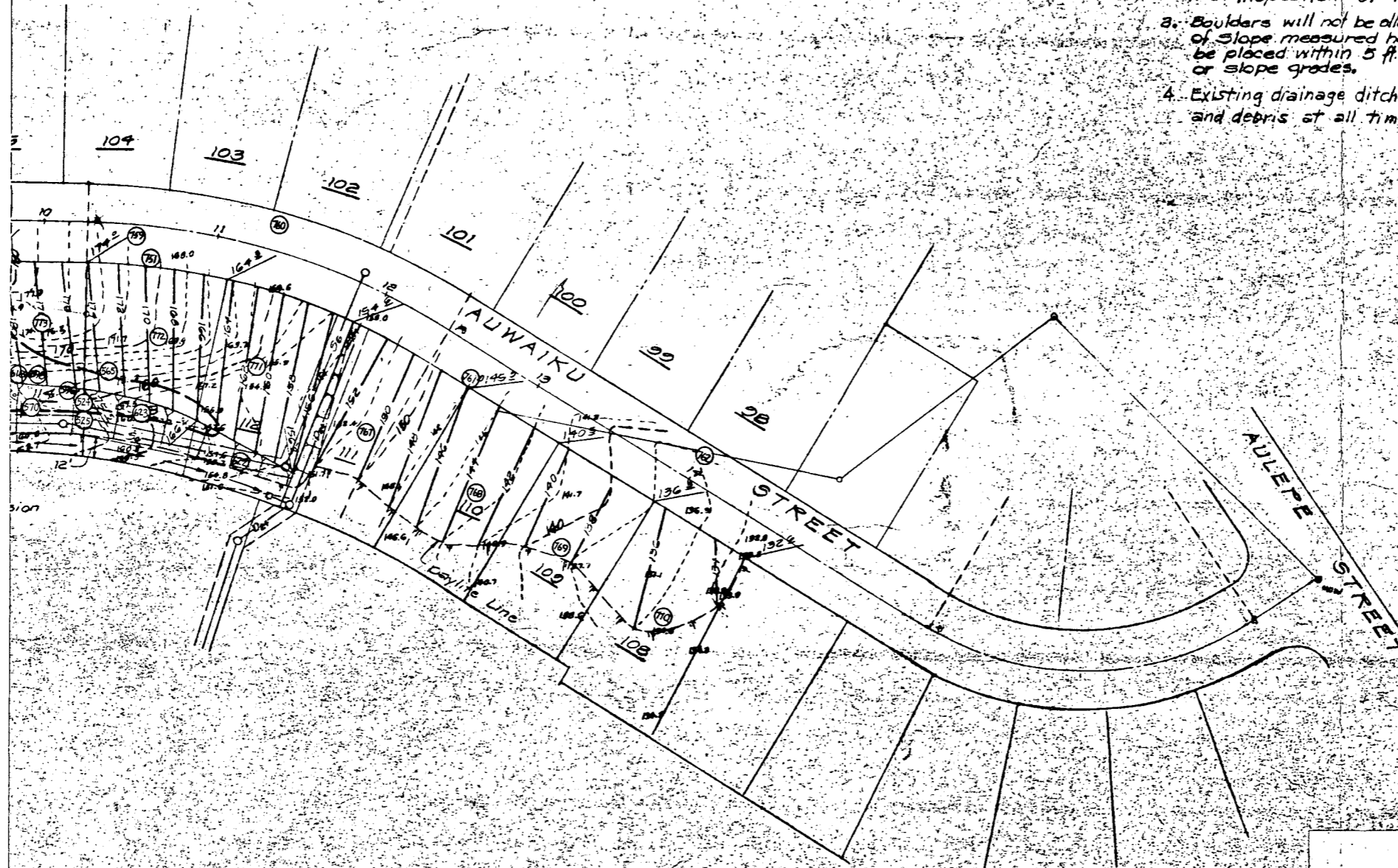
<u>DATE</u>	<u>TEST NO.</u>	<u>LOT NO.</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMP.</u>	<u>COMMENTS</u>
4-03-81	D767	111	149.0	120.7	12.1	118.5	100+	
	D768	110	144.0	120.5	13.5	"	100+	
	D769	109	139.0	121.3	13.5	"	100+	
	D770	108	135.0	128.0	12.5	"	100+	
4-08-81	D771	112	159.4	126.3	11.2	"	100+	
	D772	113	166.4	127.0	10.6	"	100+	
	D773	114	176.9	122.1	10.9	"	100+	
	D774	115	184.4	121.0	10.3	"	100+	
	D775	116	193.7	123.6	10.7	"	100+	
	D776	117	200.1	121.0	9.6	"	100+	

EARTHWORK SUMMARY

EXCAVATION 2485 CY.
 EMBANKMENT 23,075 C.Y.

ADDITIONAL GRADING NOTES

- (These notes shall apply to this Revised Grading Plan together with the original Grading Notes on Sht. 1 of 2)
1. The letter report, "Review of Grading Plan" lots 100 to 120 - Kailua Heights Unit B-C, prepared by Ernest K. Hirata and Assoc. Inc. dated March 3, 1980, shall become a part of this project and all recommendations and instructions denoted in this report shall be adhered to during construction.
 2. All grading operations will be accomplished under the inspection of the Soils Engineer.
 3. Boulders will not be allowed within 15 ft. from the Toe of Slope measured horizontally nor may boulders be placed within 5 ft. from the bench or finish pad or slope grades.
 4. Existing drainage ditches shall be kept clear of silt and debris at all times.



SECTION 'C-C'
 (SECTION 7+05)
 Scale: 1" = 20'

⊙ Approximate Location of Density Tests



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Charles Toon

ERNEST K. HIRATA & ASSOCIATES, INC.
 Soils and Foundation Engineering
 905 Makahiki Way, Makai Suite, Honolulu, Hawaii
 W.O. 215-A

REVISION	DATE	DESCRIPTION	APPROVED
1	3/2/80	ADDED NEW SHT. REVISED GRADING FROM SHT. 1 OF 2 TO SHT. 2 OF 2	VTN

VTN PACIFIC
 ENGINEERS, PLANNERS, SURVEYORS

**KAILUA HEIGHTS
 SUBDIVISION
 UNIT B-B & B-C**
 KAILUA, KOOLAUPUNO, OAHU, HAWAII

REVISED GRADING PLAN
 APPROVED FOR GRADING ONLY:

<i>[Signature]</i>		
DATE		
CHIEF DIVISION OF ENGINEERING		