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COMMUNITY PLANNING, INC.
CONSULTANT PLANNERS • CIVIL ENGINEERS • SURVEYORS700 BISHOP ST., SUITE 608
HONOLULU, HAWAII 96813
PHONE 531-4252, 521-7491**FOR REFERENCE**

not to be taken from this room

TO: Division of Engineering
City and County of Honolulu
650 South King Street
Honolulu, Hawaii

DATE: June 25, 1982

- ☐
- Mail
-
- ☒
- Deliver
-
- ☐
- Pick-up

Attention: Mr. H. J. Young, Chief

Gentlemen:

RE: Pearl Regency

Tax Map Key: 9-8-39: 2

We transmit herewith ☒Under separate cover ☐As requested ☐

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FOR:

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"As-built" mylar tracings (sheet nos. C-1, C-3,
C-4 and C-7)/ 2 sets Final soils report dated March 29, 1982, from
Ernest K. Hirata & Associates, Inc.

Remarks:

Please provide us with a copy of the certification of improvements.

cc: Katsumi Kaneko w/plans

MUNICIPAL REFERENCE & RECORDS CENTER
City and County of Honolulu
City Hall Annex, 558 S. King Street
Honolulu, Hawaii 96813

Very truly yours,

By

Bernard P. Kea
Bernard P. Kea

Enry
June 23, 1982

Dr. Michael Chun
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
Honolulu, Hawaii 96813

Dear Dr. Chun:

Subject: Pearl Regency
Tax Map Key: 9-8-39: 2

This is to certify that grading for the subject project has been completed in substantial conformance with the "as built" construction plans certified on June 23, 1982.

Very truly yours,

COMMUNITY PLANNING, INC.

Bernard P. Kea
Bernard P. Kea

BPK:GL:c1

cc: H. J. Young
Katsumi Kaneko

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ERNEST K. HIRATA & ASSOCIATES, INC.

Soils and Foundation Engineering

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

March 29, 1982

W. O. 80-662A

Herbert K. Horita Realty, Inc.
2024 North King Street
Honolulu, Hawaii 96819

Attention: Mr. Katsumi Kaneko

Subject: Compaction Test Results
Pearl Regency Condominium
Kaonohi Ridge, Oahu, Hawaii

Gentlemen:

Submitted herewith is a summary of our compaction test results for the above referenced project. The purpose of the testing was to determine that fill was compacted to a minimum of 90 percent relative compaction in accordance with our recommendations. The field density test results are presented in Table I. The approximate test locations are shown on the accompanying grading plan, sheet C-4.

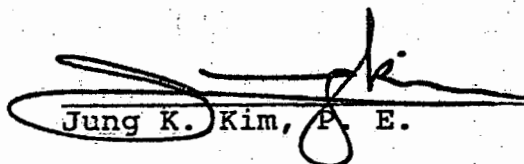
The maximum density and optimum moisture content of each soil type utilized were determined in accordance with ASTM D 1557-78.

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

Should you have any questions, please call on us.

Respectfully submitted,

Ernest K. Hirata & Associates, Inc.


Jung K. Kim, P. E.

JKK:yk

Encl: Table I
Grading Plan

cc: LMLI Architects/Planners, Inc.
Community Planning, Inc. ✓

RECEIVED MAR 31 1982

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOCATION</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMPACTION</u>	<u>COMMENTS</u>
6-17-80	D1	Parking Area	83.0	92.2	30.2	101.5	90.8	
6-19-80	D2	" "	84.5	98.4	24.9	"	96.9	
6-20-80	D3	" "	84.0	102.5	22.2	"	100+	
6-30-80	D4	Tower Area	66.6	94.9	25.4	105.0	90.4	
	D5	" "	"	87.8	27.6	"	83.6	Fail; See D10
	D6	" "	"	100.5	22.2	"	95.7	
	D7	" "	66.7	100.4	23.4	"	95.7	
	D8	" "	66.6	85.2	22.7	"	81.2	Fail; See D9
7-1-80	D9	" "	"	96.1	25.3	"	91.5	Retest D8
	D10	" "	"	95.5	25.5	"	90.0	Retest D5
	D11	" "	66.9	83.6	28.9	"	79.6	Fail; See D13
	D12	" "	67.0	95.2	26.7	"	90.5	
	D13	" "	"	89.8	27.7	"	85.5	Retest D11
								Fail; See D16
	D14	" "	66.9	95.5	27.3	"	90.9	
	D15	" "	67.0	94.6	26.0	"	90.1	
7-2-80	D16	" "	66.9	98.8	27.2	"	94.1	Retest D13
	D17	" "	67.6	90.1	29.3	"	85.8	Fail; See D20
	D18	" "	67.4	94.7	28.0	"	90.2	
	D19	" "	67.2	94.8	28.3	"	90.3	
	D20	" "	67.6	97.2	27.4	"	92.6	Retest D17
7-3-80	D21	" "	68.2	98.2	28.0	"	93.6	
	D22	" "	67.8	100.4	28.0	"	95.6	
	D23	" "	"	99.9	27.9	"	95.1	
	D24	" "	68.0	94.7	27.6	"	90.2	
7-7-80	D25	" "	68.5	103.3	25.0	"	98.3	
	D26	" "	"	99.0	25.3	"	94.3	
	D27	" "	"	102.7	23.1	"	97.8	
	D28	" "	"	101.2	24.3	"	96.4	
	D29	" "	69.0	103.0	27.0	"	98.8	
	D30	" "	"	96.1	27.4	"	91.6	
	D31	" "	"	101.2	26.8	"	96.4	
	D32	" "	"	98.4	27.1	"	93.7	

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOCATION</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMPACTION</u>	<u>COMMENTS</u>
7-8-80	D33	Tower Area	69.5	98.3	28.9	105.0	93.6	
	D34	" "	69.7	97.9	27.1	"	93.3	
	D35	" "	69.6	99.9	"	"	95.1	
	D36	" "	69.8	94.8	26.2	"	90.3	
	D37	" "	"	98.0	26.3	"	93.3	
	D38	" "	70.0	103.8	25.5	"	98.9	
	D39	" "	"	101.6	25.6	"	96.8	
	D40	" "	"	100.1	24.5	"	95.3	
	D41	" "	70.5	98.3	26.6	"	93.7	
7-9-80	D42	" "	"	101.4	25.2	"	96.7	
	D43	" "	"	88.9	28.3	"	84.6	Fail; See D44
	D44	" "	"	95.1	27.2	"	90.6	Retest D43
	D45	" "	70.2	94.6	24.3	"	90.1	
	D46	" "	71.5	99.7	25.5	"	94.9	
7-10-80	D47	" "	71.0	101.2	24.6	"	96.4	
	D48	" "	"	96.5	"	"	91.9	
	D49	" "	"	102.5	25.4	"	97.6	
	D50	" "	72.0	104.6	24.8	"	99.6	
	D51	" "	"	105.3	23.7	"	100+	
	D52	" "	71.5	101.2	25.1	"	96.3	
	D53	" "	"	99.0	23.5	"	94.3	
7-11-80	D54	" "	72.0	102.6	25.4	"	97.7	
	D55	" "	"	99.3	25.7	"	94.6	
	D56	" "	"	103.4	25.0	"	98.5	
7-16-80	D57	Tennis Court	57.3	92.1	25.6	101.0	91.2	
	D58	" "	60.6	98.5	23.5	"	97.5	
	D59	" "	58.3	95.0	25.3	"	94.0	
7-17-80	D60	" "	60.6	99.1	26.1	"	98.1	
	D61	" "	58.8	87.9	26.5	"	87.0	Fail; See D62
	D62	" "	"	96.7	28.0	"	95.7	Retest D61
7-18-80	D63	Wall "A" Sta 0+05	60.5	110.3	14.8	120.0	91.9	
	D64	Wall "A" Sta 0+15	57.5	118.8	13.0	"	99.0	
	D65	Wall "A" Sta 0+30	55.0	110.9	18.7	"	92.4	

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOCATION</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMPACTION</u>	<u>COMMENTS</u>
7-21-80	D66	Wall "A"						
		Sta. 0+40	55.5	108.0	14.3	120.0	90.0	
	D67	Wall "A"						
		Sta. 0+80	54.5	110.8	12.4	"	92.3	
	D68	Wall "A"						
		Sta. 0+05	61.5	113.4	15.7	"	94.5	
	D69	Wall "A"						
		Sta. 0+50	55.5	100.2	11.9	"	83.5	Fail; See D70 Retest D69
	D70	" "	"	117.6	12.0	"	98.0	
	D71	Wall "A"						
		Sta. 0+15	58.5	119.4	15.2	"	99.5	
	D72	Wall "A"						
		Sta. 1+30	53.7	109.3	13.4	"	91.1	
	D73	Tennis Court	60.1	97.1	26.5	105.0	92.5	
7-23-80	D74	Wall "A"						
		Sta. 1+75	52.0	128.9	13.3	120.0	100+	
	D75	Wall "A"						
		Sta. 0+60	55.5	118.1	13.7	"	98.5	
	D76	Wall "A"						
		Sta. 0+90	55.0	117.9	15.3	"	98.3	
	D77	Wall "A"						
		Sta. 2+00	51.0	111.9	12.2	"	93.3	
	D78	Wall "A"						
		Sta. 1+00	54.0	115.7	8.9	"	96.4	
	D79	Swimming Pool	52.4	85.9	27.1	101.0	85.1	Fail; See D80 Retest D79
	D80	" "	52.8	97.4	23.8	"	96.5	
	D81	" "	53.4	86.6	26.3	"	85.7	Fail; See D83
	D82	Cabana	53.5	92.4	25.0	"	91.5	
7-25-80	D83	Swimming Pool	53.4	92.7	23.6	"	91.8	Retest D81
	D84	" "	54.0	98.5	22.2	"	97.5	
	D85	Wall "A"						
		Sta. 1+70	51.5	111.9	13.9	120.0	93.2	
7-28-80	D86	Wall "A"						
		Sta. 1+65	52.5	110.9	14.4	"	92.4	
7-30-80	D87	Swimming Pool	47.7	91.3	26.1	101.0	90.4	
	D88	" "	48.4	97.7	24.6	"	96.8	

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOCATION</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMPACTION</u>	<u>COMMENTS</u>
7-31-80	D89	Wall "A"						
		Sta. 3+00	48.2	113.8	11.9	120.0	94.8	
	D90	Swimming Pool	50.4	98.6	26.5	101.0	97.7	
	D91	Wall "A"						
		Sta. 3+60	46.0	111.1	13.3	120.0	92.6	
8-4-80	D92	Wall "A"						
		Sta. 3+10	47.8	108.5	12.0	"	90.4	
8-6-80	D93	Wall "A"						
		Sta. 2+80	49.5	118.6	14.2	"	98.8	
	D94	Wall "A"						
		Sta. 3+25	48.1	116.7	13.9	"	97.3	
8-8-80	D95	Wall "A"						
		Sta. 4+20	44.5	117.8	13.5	"	98.2	
8-11-80	D96	Wall "A"						
		Sta. 4+00	46.5	119.4	14.3	"	99.5	
8-13-80	D97	Wall "A"						
		Sta. 4+24	45.5	105.0	14.9	"	87.5	Fail; See D98 Retest D97
	D98	" "	"	120.1	12.4	"	100+	
	D99	Wall "A"						
		Sta. 4+50	45.0	123.6	14.8	"	100+	
8-14-80	D100	Wall "A"						
		Sta. 4+70	45.7	114.7	14.5	"	95.6	
10-10-80	D101	Tennis Court	63.3	97.0	24.9	101.5	95.6	
	D102	" "	56.0	93.3	23.9	"	91.9	
	D103	Swimming Pool	49.0	103.9	24.1	"	100+	
	D104	Tennis Court	60.4	97.3	23.1	"	95.8	
	D105	Cabana	54.5	95.5	25.1	"	94.1	
	D106	Tennis Court	60.0	91.0	24.3	"	90.5	
	D107	Swimming Pool	51.4	91.9	26.6	"	90.5	
	D108	Tennis Court	61.8	94.6	24.2	"	93.2	
10-14-80	D109	Swimming Pool	51.1	91.4	28.4	"	90.0	
	D110	Tennis Court	62.1	81.1	26.2	"	79.9	Fail; See D111 Retest D110
	D111	" "	"	94.7	24.6	"	93.3	

TABLE I

DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOCATION</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMPACTION</u>	<u>COMMENTS</u>
10-15-80	D112	Tennis Court	61.4	82.7	23.3	101.5	81.5	Fail; See D113
	D113	" "	"	98.2	23.9	"	96.7	Retest D112
	D114	" "	63.0	92.3	26.9	"	90.9	
10-16-80	D115	Cabana	53.7	92.6	26.4	"	91.2	
	D116	Tower Area	70.5	90.9	25.1	105.0	86.6	Fail; See D156
	D117	" "	70.0	84.5	23.5	"	80.4	Fail; See D174
	D118	" "	72.0	87.8	23.8	"	83.6	Fail; See D176
	D119	Swimming Pool	53.6	91.4	24.4	101.5	90.1	
10-17-80	D120	Tower Area	59.1	91.2	23.4	"	89.8	Fail; See D121
	D121	" "	"	90.8	24.9	"	89.5	Retest D120
								Fail; See D122
10-20-80	D122	" "	"	87.7	21.4	"	86.4	Retest D121
								Fail; See D123
	D123	" "	"	101.6	20.0	"	100+	Retest D122
	D124	" "	60.0	96.4	22.1	"	95.0	
10-21-80	D125	" "	60.4	86.5	26.4	"	85.3	Fail; See D128
	D126	Tennis Court	60.5	92.1	22.4	"	90.7	
	D127	" "	64.9	88.3	24.3	"	87.0	Fail; See D138
	D128	Tower Area	60.4	88.2	25.1	"	86.9	Retest D125
								Fail; See D129
10-22-80	D129	" "	"	104.0	20.0	"	100+	Retest D128
	D130	" "	61.1	95.0	20.7	105.0	90.4	
	D131	" "	"	92.2	19.5	"	87.8	Fail; See D134
	D132	Tennis Court	66.0	91.7	21.0	101.5	90.3	
	D133	" "	"	93.6	22.0	"	92.2	
	D134	Tower Area	61.1	99.7	20.9	105.0	95.0	Retest D131
10-23-80	D135	" "	61.9	86.1	26.8	"	82.0	Fail; See D139
	D136	Tennis Court	65.0	83.3	27.0	101.5	82.0	Fail; See D137
	D137	" "	"	92.9	27.5	"	91.5	Retest D136
10-27-80	D138	" "	64.9	97.9	20.2	"	96.5	Retest D127
	D139	Tower Area	61.9	95.8	19.3	105.0	91.2	Retest D135
	D140	" "	61.3	96.7	23.4	"	92.1	
	D141	Tennis Court	66.0	94.9	23.0	101.5	93.5	
	D142	Swimming Pool	54.1	93.1	21.9	"	91.7	

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOCATION</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMPACTION</u>	<u>COMMENTS</u>
10-27-80	D143	Cabana	55.5	92.2	30.0	101.5	90.8	
	D144	Swimming Pool	54.9	98.6	21.4	"	97.1	
	D145	Tennis Court	65.2	98.0	24.7	"	96.6	
10-29-80	D146	" "	67.1	83.9	19.4	"	82.6	Fail; See D149
	D147	Swimming Pool	54.6	91.3	22.1	"	90.0	
	D148	Tennis Court	68.6	95.4	24.7	105.0	90.9	
	D149	" "	67.1	92.2	25.7	101.5	90.8	Retest D146
	D150	" "	69.7	103.1	25.6	"	100+	
10-30-80	D151	" "	70.0	93.1	29.3	"	91.7	
	D152	" "	71.0	93.5	25.7	"	92.1	
	D153	Tower Area	70.0	"	25.0	"	92.1	
10-31-80	D154	Parking Area	72.5	91.9	29.0	101.0	91.0	
	D155	" "	74.0	83.8	33.3	"	83.0	Fail; See D161
	D156	Tower Area	70.0	92.7	27.1	"	91.8	Retest D116
	D157	Swimming Pool	55.5	90.8	26.4	"	90.0	
	D158	Cabana	58.0	87.4	28.2	"	86.5	Fail; See D162
	D159	"	56.7	91.5	24.2	"	90.6	
	D160	Tower Area	70.5	90.9	24.7	"	90.0	
11-3-80	D161	Parking Area	74.3	83.0	24.8	89.0	93.8	Retest D155
	D162	Cabana	58.0	91.6	22.9	101.0	90.7	Retest D158
	D163	Parking Area	76.0	95.7	25.9	"	94.8	
	D164	" "	78.3	92.1	25.3	"	91.2	
11-4-80	D165	" "	80.3	91.2	25.6	"	90.3	
	D166	" "	79.6	92.8	23.9	"	91.9	
	D167	Tower Area	63.0	88.0	21.7	89.0	98.9	
	D168	" "	"	98.3	17.6	101.0	95.3	
11-5-80	D169	Parking Area	82.6	89.8	23.8	89.0	100+	
	D170	" "	83.1	106.9	24.0	101.0	100+	
	D171	Tower Area	63.0	91.8	21.7	89.0	100+	
	D172	" "	"	103.4	22.7	101.0	100+	
	D173	" "	70.0	109.8	21.2	"	100+	
	D174	" "	70.5	107.4	23.2	"	100+	Retest D117
11-6-80	D175	Parking Area	84.8	96.5	26.8	"	95.5	
	D176	Tower Area	72.0	104.2	20.5	"	100+	Retest D118

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOCATION</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMPACTION</u>	<u>COMMENTS</u>
11-6-80	D177	Tower Area	72.0	96.6	20.6	101.0	95.7	
11-7-80	D178	" "	67.0	92.1	21.4	"	91.1	
	D179	Parking Area	84.7	88.6	21.2	89.0	99.6	
	D180	" "	87.4	90.8	20.8	"	100+	
	D181	Tower Area	68.0	96.4	24.0	101.5	95.0	
	D182	" "	"	92.1	23.0	"	90.8	
1-19-81	D183	" "	66.8	92.0	23.1	"	90.6	
2-2-81	D184	" "	68.0	93.2	25.2	"	91.8	
2-3-81	D185	" "	69.0	93.0	25.0	"	91.6	
	D186	" "	70.0	91.4	24.0	"	90.0	
2-4-81	D187	" "	71.0	100.5	24.8	"	99.5	
2-6-81	D188	" "	71.3	87.4	26.3	96.0	91.0	
2-9-81	D189	" "	73.2	88.7	26.7	"	92.4	
	D190	" "	72.4	93.2	25.2	"	97.1	
2-10-81	D191	" "	74.0	91.1	20.5	"	94.9	
	D192	" "	75.0	84.0	24.0	89.0	94.4	
	D193	" "	76.0	86.4	24.5	96.0	90.0	
2-11-81	D194	" "	76.1	80.2	27.4	89.0	90.1	
	D195	" "	75.3	80.4	26.5	"	90.3	
2-12-81	D196	" "	76.2	89.0	29.1	96.0	92.7	
	D197	" "	77.1	83.9	28.2	89.0	94.3	
2-25-81	D198	" "	77.5	93.6	26.8	101.5	92.2	
	D199	" "	77.5	92.4	25.7	"	91.0	
2-27-81	D200	Parking Area	67.5	93.7	20.7	"	92.3	
	D201	" "	"	103.1	22.7	"	100+	
	D202	" "	74.0	95.6	21.2	"	94.2	
6-81	D203	" "	78.2	85.9	22.8	96.0	90.0	
	D204	" "	75.8	90.1	23.2	"	93.9	

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOCATION</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMPACTION</u>	<u>COMMENTS</u>
3-6-81	D205	Parking Area	75.0	86.9	21.9	96.0	90.5	
3-11-81	D206	" "	78.2	94.6	24.0	101.5	93.2	
4-18-81	D207	Tower Area	76.1	91.2	23.5	96.0	95.0	
	D208	" "	76.0	89.5	24.3	"	93.2	
	D209	" "	76.2	87.7	23.1	"	91.4	
	D210	" "	76.0	86.4	21.9	"	90.0	
4-23-81	D211	" "	77.4	91.7	24.2	"	95.5	
	D212	" "	76.5	92.3	23.8	"	96.1	
	D213	" "	76.5	90.9	23.6	"	94.7	
4-27-81	D214	Parking Area	78.0	88.1	24.0	"	91.8	
5-22-81	D215	" "	76.1	88.3	23.9	"	92.0	
7-4-81	D216	" "	71.9	91.5	25.0	101.5	90.1	
	D217	" "	72.8	86.4	19.1	96.0	90.0	
	D218	" "	69.7	80.9	30.3	"	84.3	Fail; See D220
	D219	" "	71.9	75.4	24.4	"	78.5	Fail; See D221
7-8-81	D220	" "	69.7	87.6	21.1	"	91.2	Retest D218
	D221	" "	71.9	88.7	26.5	"	92.4	Retest D219
7-13-81	D222	" "	77.0	86.4	22.4	"	90.0	
7-21-81	D223	" "	76.0	87.2	24.7	"	90.8	
7-22-81	D224	" "	75.5	88.7	23.8	"	92.4	
7-23-81	D225	" "	78.7	92.9	20.8	"	96.7	
7-24-81	D226	" "	79.7	88.5	15.4	"	92.2	
8-7-81	D227	" "	81.8	94.6	21.6	"	98.5	
	D228	" "	86.0	93.1	24.6	"	97.0	
8-10-81	D229	" "	81.5	92.7	21.6	"	96.6	
8-11-81	D230	" "	87.0	96.2	21.4	"	100+	
	D231	" "	85.0	94.6	21.3	"	98.5	

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOCATION</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMPACTION</u>	<u>COMMENTS</u>
8-12-81	D232	Parking Area	91.5	87.1	19.1	96.0	90.8	
	D233	" "	82.0	89.6	23.5	"	93.4	
8-25-81	D234	South Parking	75.8	81.1	23.1	89.0	91.1	
	D235	" "	75.8	80.1	18.2	"	90.0	
8-28-81	D236	East Ret. Wall	88.8	82.8	15.4	96.0	86.2	Fail; See D237
8-31-81	D237	" " "	88.8	89.4	20.3	"	93.1	Retest D236
9-4-81	D238	Tennis Court	65.0	81.8	15.3	"	85.2	Fail; See D239
	D239	" "	"	91.0	16.1	"	94.8	Retest D238
9-23-81	D240	Southwest Wall	59.8	91.0	23.8	89.0	100+	
9-24-81	D241	West Ret. Wall	58.8	89.4	25.1	"	100+	
10-1-81	D242	Recreation Walkway	56.1	92.0	22.0	101.5	90.5	
10-2-81	D243	"	56.8	80.1	24.8	89.0	90.0	
10-7-81	D244	Line 5 & 3 Row A & B	57.3	85.1	22.0	"	95.6	
	D245	Line 2 & 3 Row B & C	57.5	83.7	21.2	"	94.0	
	D246	Line 2 & 3 Row B & C	57.5	94.7	22.7	101.0	93.8	
10-13-81	D247	Line 5 & 6 Row F & G	76.0	86.4	24.6	96.0	90.0	
10-14-81	D248	Line 5 & 6 Row F & G	77.0	82.3	27.3	89.0	92.5	
10-26-81	D249	North Parking	87.3	89.5	20.1	"	100+	
	D250	" "	84.3	91.7	19.7	"	100+	
11-5-81	D251	" "	80.3	95.9	26.7	101.5	94.5	
	D252	" "	83.3	93.3	25.0	"	92.0	
11-6-81	D253	South Ret. Wall	67.0	89.6	26.4	96.0	93.3	

TABLE I
DENSITY TEST RESULTS

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11-6-81	D254	South Ret. Wall	62.4	95.2	24.3	96.0	99.0	
	D255	North Parking	90.2	102.5	17.0	101.5	100+	
	D256	" "	84.2	100.0	19.2	"	99.4	
	D257	" "	77.2	103.0	23.8	"	100+	
11-9-81	D258	South Ret. Wall	62.7	81.7	22.3	89.0	91.8	
	D259	" " "	63.8	86.1	24.9	"	96.7	
11-10-81	D260	" " "	69.8	88.3	25.3	96.0	92.0	
	D261	" " "	65.2	87.9	26.4	"	91.6	
	D262	" " "	67.5	87.5	25.0	"	91.2	
11-12-81	D263	" " "	65.4	92.5	23.2	"	96.3	
	D264	" " "	70.0	86.8	23.7	"	90.5	
	D265	" " "	70.5	95.4	23.6	"	99.4	
12-9-81	D266	Line AA Row 34 & 37	71.5	89.2	28.4	105.0	85.0	Fail; See D267
12-10-81	D267	" " "	"	95.3	21.0	"	90.8	Retest D266
12-15-81	D268	South Parking	61.9	87.4	20.4	97.0	90.0	
	D269	" "	64.0	88.6	24.8	"	91.3	
	D270	" "	63.7	88.8	26.5	"	91.5	
12-17-81	D271	North Parking	86.0	112.2	22.0	101.5	100+	
	D272	" "	89.0	104.0	19.3	97.0	100+	
12-18-81	D273	" " "	76.8	103.6	19.5	105.0	98.7	
	D274	" " "	"	130.7	16.4	"	100+	
12-29-81	D275	Ramp	72.0	84.8	33.2	97.0	87.4	Fail; See D279
	D276	"	66.2	91.9	29.4	101.5	90.5	
	D277	"	68.2	83.9	34.0	97.0	86.5	Fail; See D278
	D278	"	"	87.7	26.2	101.0	86.8	Retest D277
	D279	"	72.0	88.2	33.4	"	87.3	Fail; See D280 Retest D275 Fail; See D281
12-30-81	D280	Ramp	68.2	89.5	27.3	97.0	92.3	Retest D278
	D281	"	72.0	90.1	28.8	"	92.9	Retest D279

TABLE I
DENSITY TEST RESULTS

<u>DATE</u>	<u>TEST NO.</u>	<u>LOCATION</u>	<u>ELEV.</u>	<u>DENSITY (PCF)</u>	<u>MOISTURE CONTENT</u>	<u>MAXIMUM DENSITY</u>	<u>% COMPACTION</u>	<u>COMMENTS</u>
1-12-82	D282	North Parking	87.8	131.5	8.2	131.0	100+	
	D283	" "	81.8	130.0	6.5	"	99.2	
	D284	" "	87.8	131.6	7.3	"	100+	
	D285	" "	81.8	137.5	8.4	"	100+	
	D286	" "	89.7	129.7	6.5	"	99.0	
	D287	" "	83.7	125.8	7.8	"	96.0	
1-14-82	D288	" "	77.6	134.6	8.6	"	100+	
	D289	" "	77.7	135.3	8.7	"	100+	
2-8-82	D290	Line AA						
		Row 37 & 39	72.6	95.2	21.7	101.5	94.3	
	D291	East Parking	77.2	99.9	20.3	105.0	95.1	
2-8-82	D292	Line AA						
		Row 36 & 37	74.6	92.5	29.3	101.5	91.1	
2-17-82	D293	South Parking	77.3	97.0	23.3	"	96.1	
	D294	" "	76.6	115.8	10.1	"	100+	
	D295	" "	75.8	84.6	23.9	89.0	95.0	
	D296	" "	74.2	90.1	19.9	"	100+	
2-24-82	D297	Main Driveway	76.8	94.7	21.6	96.0	98.6	
	D298	" "	78.7	98.3	28.4	"	100+	
2-26-82	D299	East Parking	77.6	133.5	6.0	131.0	100+	
	D300	South Parking	76.8	148.8	4.0	"	100+	
	D301	East Parking	78.8	144.3	6.5	"	100+	
	D302	South Parking	77.3	130.2	3.0	"	99.0	
3-1-82	D303	South Parking	75.8	131.0	6.2	"	100.0	
	D304	" "	73.3	134.4	6.6	"	100+	
	D305	Main Driveway	76.0	137.9	7.0	"	100+	
	D306	" "	79.7	136.1	6.4	"	100+	

SEE SIA 2450 WALL "B"
END WALL SUBDRAIN
INV. 86.25
886 4" A.C. PIPE

SIA 2455 WALL "D"
886 WALL SUBDRAIN
INV. 81.2

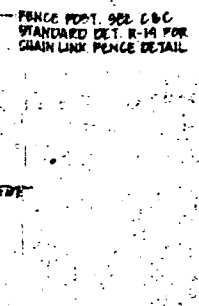
CPM WALL 2' ON
TYPICAL DET. 57

END CHAIN LINK FENCE
AT EXIST. FENCE

LEGEND

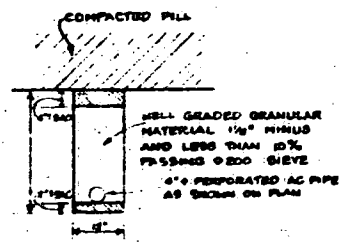
---	PROPERTY LINE
---	EXISTING CENTER LINE & ELEVATION
---	NEW CENTER LINE & ELEVATION
---	GRADING LIMIT LINE
77.00	TOP OF CONC. CURB ELEVATION
87.70	BOTTOM OF CONC. CURB ELEVATION
TW 87.00	TOP OF WALL ELEVATION
BW 80.00	BOTTOM OF WALL ELEVATION
TF 77.00	TOP FLOOR ELEVATION
BF 67.00	BOTTOM FLOOR ELEVATION
FF 67.00	FINISH FLOOR ELEVATION
---	SWALE LINE
□ 60	SWATH BASIN
OMH	MANHOLE
---	GRADE SLOPE & PERCENTAGE

6 FT. CHAIN LINK FENCE
POST LOCATION
5' 8" 1/2" 1/4" 1/2"



BENCH MARK
C.I.C. Survey Monument
Top of Brass Pin
Elev. 77.13

⊙ Approximate Location of Density Tests



TYPICAL SUBDRAIN
NOT TO SCALE

Grass Area 4.75 Acres
Excavation 13,500 Cu. Yd.
Embankment 12,871 Cu. Yd.

ERNEST K. HIRATA & ASSOCIATES, INC.
Soils and Foundation Engineering
905 Makahiki Way Makai Suite Honolulu, Hawaii
W.O. 80-662A



REVISION DATE	DESCRIPTION	MADE BY	APPROVED
8/25/80	REVISED PARKING	CPI	
8/19/80	ADD 4" 6 FT. CHAIN LINK FENCE	CPI	
8/17/80	REVISED EXISTING WALL	CPI	

COMMUNITY PLANNING INCORPORATED
CIVIL ENGINEERS - SURVEYORS - CONSULTING PLANNERS

PEARL REGENCY
TMK 9-8-39-2

**GRADING, FINISHED PAVEMENT,
& DRIVEWAY PLAN**

APPROVED FOR GRADING AND CONSTRUCTION WITHIN C.I.C. R/W AND EASTWING
DATE 5/1/81
BY *Ernest K. Hirata*
WITH THIS PROFESSIONAL SEAL AND SIGNATURE

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION