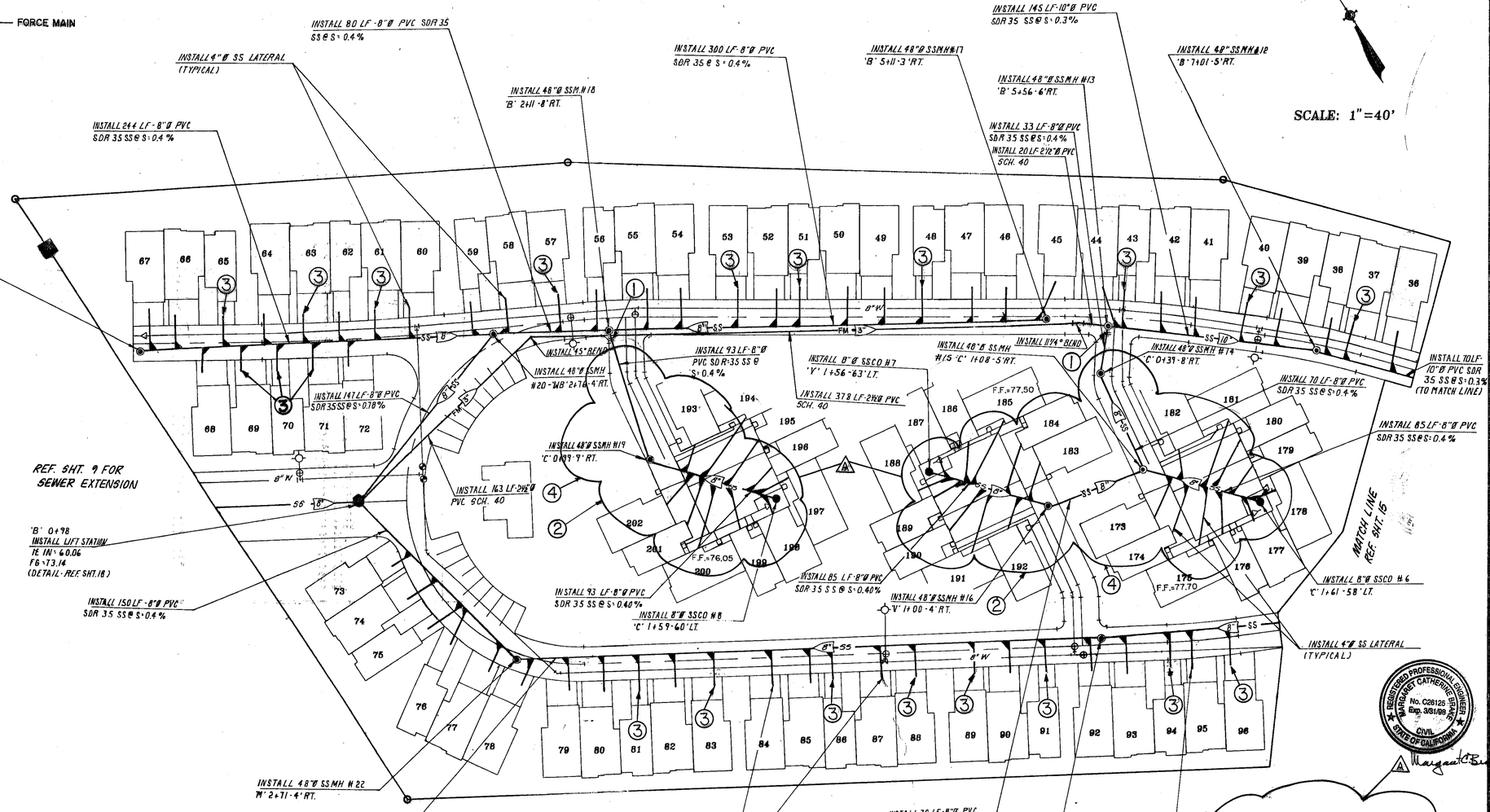
SANITARY SEWER LEGEND

- SS — SANITARY SEWER LINE W/SIZE & FLOW
- (S) — SANITARY SEWER MANHOLE W/NUMBER
- SANITARY SEWER CLEANOUT
- SANITARY SEWER SERVICE LATERAL
- FM — FORCE MAIN

SCALE: 1"=40'



On-Site Sewer Quantities

DESCRIPTION	AMOUNT	UNIT
10" PVS SDR 35 SS	998	LF
8" PVC SDR 35 SS	3800	LF
4" SS LATERAL	202	EA
2¼" FORCE MAIN	561	LF
8" SSCO	10	EA
48" SSMH	25	EA
DUPLEX SS LIFT STATION	1	EA

Off-Site Sewer Quantities

DESCRIPTION	AMOUNT	UNIT
8" PVC SDR 35 SS	873	LF
48" SSMH	4	EA

LIFT STATION NOTES:

1) CONTRACTOR TO FURNISH AND INSTALL DUPLEX HOG - HOR IN FIBERGLASS SUMP PUMP STATION WITH PUMP UNITS TO BE OF IDENTICAL PERFORMANCE AND DIMENSIONS. EACH RATED AS FOLLOWS:
   FLOW: 49 GPM
   TDH: 34 FT.
   SPEED: 1750 RPM
   HP: 5"
   IMPELLER: 7.5"
   POWER: 240 VOLT, 3 PHASE
   PUMP: HYDROMATIC MODEL SPGH 300 SUBMERSIBLE HYDRO-GRIND
   SUMP: HYDROMATIC 60" FIBERGLASS
   CONTROL PANEL: PEDESTAL MOUNT
2) CONTRACTOR TO USE MANUFACTURER'S APPROVED, CERTIFIED SHOP DRAWINGS TO FINALIZE LIFT STATION ARRANGEMENT.
3) ALL BACKFILL SHALL BE SELECTED BACKFILL OR AS APPROVED BY ENGINEER AND SHALL BE COMPACTED TO 90 PERCENT RELATIVE COMPACTION.
4) CONTRACTOR TO PROVIDE HASP FOR LOCKS ON LIFT STATION ACCESS PANELS AND ELECTRICAL CONTROL BOXES: OWNER WILL FURNISH LOCKS AND KEYS.
5) ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE POWER FOR THE LIFT STATION SHALL BE PROVIDED AS A SINGLE POINT SOURCE.
6) CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I. REINFORCING BARS SHALL CONFORM TO ASTM SPECIFICATIONS A615 GRADE 60 STEEL.
7) CONTRACTOR CAN UTILIZE AN ALTERNATIVE PACKAGE PUMPING STATION
8) ALARM AND FLEA PEDESTAL TO BE ATTACHED TO GUARD BLDG. AS SHOWN ON THE ARCH. PLANS.

SEWER MANHOLE DATA

MANHOLE NO.	INVERT IN (ft)	INVERT OUT (ft)	RIM ELEVATION (ft)
1	467.80	467.60	474.00
2	468.20	468.10	473.70
3	468.59	468.49	474.51
4	469.54	469.44	474.39
5	469.78	469.68	474.78
6	470.15	470.05	475.00
7	470.52	470.42	475.10
8	470.61	470.51	476.04
9	470.85	470.75	476.44
10	471.18	471.08	476.91
11	471.56	471.46	476.42
12	471.46	471.36	476.80
13	472.00	471.90	476.05
14	472.23	472.13	476.10
15	472.61	472.51	476.50
16	472.99	472.89	476.50
17	------	469.64	475.96
18	468.44	468.34	474.15
19	468.91	468.81	475.29
20	468.02	467.92	473.96
21	------	469.00	475.31
22	460.78	460.68	471.04
23	462.51	462.41	472.84
24	463.25	463.15	473.57
25	465.28	465.28	471.78
26	466.71	466.61	471.68

SANITARY SEWER CLEANOUT DATA

SSCO NO.	INVERT OUT (ft)	RIM ELEVATION
1	468.81	474.11
2	470.49	475.16
3	470.90	475.09
4	471.52	476.54
5	471.89	476.73
6	472.95	476.80
7	473.33	476.59
8	469.29	475.12
9	467.07	472.05
10	467.03	471.03

4" SS LATERALS STATION

BUILDING #	STATION	
67	"WEST BEACH"	0 + 42
66	"WEST BEACH"	0 + 57
65	"WEST BEACH"	0 + 76
64	"WEST BEACH"	0 + 90
63	"WEST BEACH"	1 + 07
62	"WEST BEACH"	1 + 19
61	"WEST BEACH"	1 + 27
60	"WEST BEACH"	1 + 50
59	"WEST BEACH"	1 + 76
58	"WEST BEACH"	1 + 44
57	"WEST BEACH"	1 + 67
56	"WEST BEACH"	1 + 84
55	"WEST BEACH"	2 + 17
54	"WEST BEACH"	2 + 62
53	"WEST BEACH"	2 + 86
52	"BEACH"	1 + 77
51	"BEACH"	2 + 02
50	"BEACH"	2 + 39
49	"BEACH"	2 + 61
48	"BEACH"	3 + 00
47	"BEACH"	3 + 26
46	"BEACH"	3 + 43
45	"BEACH"	3 + 79
44	"BEACH"	4 + 01
43	"BEACH"	4 + 17
42	"BEACH"	4 + 61
41	"BEACH"	4 + 85
40	"BEACH"	5 + 08
39	"BEACH"	5 + 61
38	"BEACH"	5 + 94
37	"BEACH"	6 + 00
36	"BEACH"	6 + 15
35	"BEACH"	6 + 48
34	"BEACH"	6 + 71
33	"BEACH"	7 + 07
32	"BEACH"	7 + 21
31	"BEACH"	7 + 53
30	"BEACH"	7 + 85
29	"BEACH"	8 + 07
28	"BEACH"	8 + 40
27	"BEACH"	8 + 68
26	"BEACH"	10 + 35
25	"BEACH"	10 + 68
24	"BEACH"	10 + 97
23	"BEACH"	11 + 21
22	"BEACH"	11 + 45
21	"BEACH"	11 + 71
20	"BEACH"	11 + 96
19	"BEACH"	12 + 34
18	"BEACH"	12 + 57
17	"BEACH"	12 + 81
16	"BEACH"	13 + 23
15	"BEACH"	13 + 46
14	"BEACH"	13 + 79
13	"BEACH"	13 + 96
12	"BEACH"	14 + 22
11	"BEACH"	14 + 56
10	"BEACH"	14 + 82
09	"BEACH"	15 + 06
08	"BEACH"	15 + 24
07	"BEACH"	14 + 89
06	"BEACH"	14 + 66
05	"PALERMO"	0 + 07
04	"PALERMO"	0 + 33
03	"PALERMO"	0 + 66
02	"PALERMO"	0 + 82
01	"PALERMO"	1 + 08
130	"SAN REMO"	0 + 76
129	"SAN REMO"	0 + 51
128	"SAN REMO"	0 + 27
155	"NAPOLI COURT"	1 + 01
156	"NAPOLI COURT"	1 + 04
157	"NAPOLI COURT"	1 + 09
158	"NAPOLI COURT"	1 + 19
159	"NAPOLI COURT"	1 + 35
160	"NAPOLI COURT"	1 + 33
161	"NAPOLI COURT"	1 + 20
162	"NAPOLI COURT"	1 + 13
163	"NAPOLI COURT"	1 + 07
164	"NAPOLI COURT"	0 + 99
73	"MARINA"	1 + 74
74	"MARINA"	2 + 97
75	"MARINA"	2 + 21
76	"MARINA"	2 + 26
77	"MARINA"	2 + 60
78	"MARINA"	2 + 85
79	"MARINA"	3 + 09
80	"MARINA"	3 + 33
81	"MARINA"	3 + 57

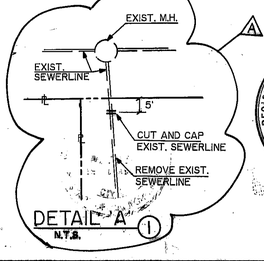
BUILDING	STATION	
97	"MARINA"	8 + 15
98	"MARINA"	8 + 43
99	"MARINA"	8 + 70
100	"MARINA"	9 + 14
101	"MARINA"	9 + 32
102	"MARINA"	9 + 57
103	"MARINA"	9 + 92
104	"MARINA"	10 + 17
105	"MARINA"	10 + 34
106	"MARINA"	10 + 78
107	"MARINA"	11 + 02
108	"MARINA"	11 + 43
109	"MARINA"	11 + 68
110	"MARINA"	12 + 01
111	"MARINA"	12 + 28
112	"MARINA"	12 + 55
113	"MARINA"	12 + 79
114	"MARINA"	13 + 05
115	"MARINA"	13 + 29
116	"MARINA"	13 + 69
117	"MARINA"	13 + 93
118	"MARINA"	14 + 26
119	"MARINA"	14 + 43
120	"MARINA"	11 + 68
121	"MARINA"	15 + 12
122	"MARINA"	15 + 37
123	"MARINA"	15 + 60
124	"MARINA"	16 + 10
125	"MARINA"	16 + 25
126	"MARINA"	16 + 60
127	"MARINA"	16 + 87
128	"MARINA"	17 + 12
134	"MARINA"	15 + 43
133	"MARINA"	15 + 66
132	"MARINA"	16 + 02
165	"TERRACINA"	0 + 91
166	"TERRACINA"	1 + 01
167	"TERRACINA"	1 + 12
168	"TERRACINA"	1 + 19
169	"TERRACINA"	1 + 29
170	"TERRACINA"	1 + 32
171	"TERRACINA"	1 + 24
172	"TERRACINA"	1 + 09

BUILDING #	STATION	
82	"MARINA"	3 + 81
83	"MARINA"	4 + 05
84	"MARINA"	4 + 46
85	"MARINA"	4 + 74
86	"MARINA"	4 + 89
87	"MARINA"	5 + 13
88	"MARINA"	5 + 41
89	"MARINA"	5 + 65
90	"MARINA"	6 + 06
91	"MARINA"	6 + 30
92	"MARINA"	6 + 81
93	"MARINA"	6 + 85
94	"MARINA"	7 + 15
95	"MARINA"	7 + 30
96	"MARINA"	7 + 56
193	"CAPRI"	1 + 17
194	"CAPRI"	1 + 22
195	"CAPRI"	1 + 36
196	"CAPRI"	1 + 46
197	"CAPRI"	1 + 52
198	"CAPRI"	1 + 54
199	"CAPRI"	1 + 40
200	"CAPRI"	1 + 34
201	"CAPRI"	1 + 23
202	"CAPRI"	1 + 20
183	"VENEZIA"	1 + 10
184	"VENEZIA"	1 + 20
185	"VENEZIA"	1 + 37
186	"VENEZIA"	1 + 39
187	"VENEZIA"	1 + 49
188	"VENEZIA"	1 + 46
189	"VENEZIA"	1 + 42
190	"VENEZIA"	1 + 30
191	"VENEZIA"	1 + 25
192	"VENEZIA"	1 + 14
173	"CARRERA"	1 + 03
174	"CARRERA"	1 + 14
175	"CARRERA"	1 + 20
176	"CARRERA"	1 + 26
177	"CARRERA"	1 + 38
178	"CARRERA"	1 + 36
179	"CARRERA"	1 + 30
180	"CARRERA"	1 + 22
181	"CARRERA"	1 + 27
182	"CARRERA"	1 + 08

BUILDING	STATION	
145	"SORRENTO"	1 + 13
146	"SORRENTO"	1 + 23
147	"SORRENTO"	1 + 30
148	"SORRENTO"	1 + 39
149	"SORRENTO"	1 + 54
150	"SORRENTO"	1 + 52
151	"SORRENTO"	1 + 42
152	"SORRENTO"	1 + 25
153	"SORRENTO"	1 + 16
154	"SORRENTO"	1 + 08
135	"SAVANA"	1 + 09
136	"SAVANA"	1 + 11
137	"SAVANA"	1 + 28
138	"SAVANA"	1 + 33
139	"SAVANA"	1 + 49
140	"SAVANA"	1 + 63
141	"SAVANA"	1 + 87
142	"SAVANA"	1 + 30
143	"SAVANA"	1 + 25
144	"SAVANA"	1 + 13

CONSTRUCTION NOTES

1. CAP EXISTING 8" SEWER LINE PER DETAIL 'A' AS SHOWN HEREON.
2. REMOVE EXISTING M.H., AND C.O.
3. CAP @ ℄ SEWER LATERAL BEHIND EXISTING CURB.
4. FILL EXISTING MAIN SEWER LINE WITH GROUT.



REGISTERED PROFESSIONAL ENGINEER — MARGARET CATHERINE BURNS — No. C26125 Exp. 3/31/99 — CIVIL — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — TED H. LYON — No. 27137 Exp. 03-31-97 — CIVIL — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — JAMES TERRENCE ANSPACH — No. 22648 — CIVIL — STATE OF CALIFORNIA — Exp 12/31/97

SUMMIT™ ENGINEERING CORPORATION
CONSULTING ENGINEERS AND SURVEYORS
11675 SOUTH TENAYA AVENUE, Suite #2, LAS VEGAS, NEVADA 89129
PHONE: (702) 734-8080 FAX: (702) 734-8442

DESIGNED BY: ASM
DRAWN BY: KKA
CHECKED BY: JTA
DATE: SEPTEMBER 1994

REV.	DATE	DESCRIPTION	BY	APP'D
1	9/9/94	REMOVAL OF EXISTING FACILITIES	ASM	MCB
2	6/23/95	REVISED CONSTRUCTION NOTES	MCB	

SCALE: HORIZ. 1"=40' VERT.
JOB NO. 706631
SHEET 13 OF 15

EXISTING SEWER PLAN-REMOVAL)
PORTOBELLO
KAHALA DEVELOPMENT