FINAL ENVIRONMENTAL IMPACT STATEMENT

INTERNATIONAL MARKET PLACE REVITALIZATION PROJECT

Appendix 8

Tree Assessment Report

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September 29, 2011

Mr. Ron Loch
Taubman
200 East Long Lake Road, Suite # 300
Bloomfield Hills, MI 48304

Re: International Marketplace

Dear Mr. Loch:

The following tree assessment addresses all the trees and palms located at the International Marketplace (IMP) in Waikiki.

The trees and palms are identified on the numbered site map # 1 and correspond to the spreadsheet # 1 providing species, size, condition rating and comments.

Six (6) significant trees noted on site maps # 1 and # 3 include one (1) Ficus benghalensis trees (# 1), which is on the Exceptional Tree Registry of Honolulu and require special permitting prior to any pruning (crown or root).

Ficus Tree # 1

Ficus Tree # 2

An additional site map # 2 identifies the location of the aerial roots generated from Ficus trees # 1 and # 2. A separate spreadsheet # 2 corresponds to the site map # 2. Select aerial roots 1D, 1E, 1L, 1P and 2A could be removed if necessary in combination with weight reduction of the limbs. Aerial roots 1M, 1N and 1O have jointly separated from the original tree and could be considered a separate tree. Removal of any of the aerial roots will require approval by the City and County, Division of Urban Forestry who reviews Exceptional Tree pruning permits.

One (1) Ficus microcarpa tree # 3 is located adjacent to the food court (Photo). One (1) Monkeypod tree # 4 is located on the Kuhio Street side of the property (Photo).

Ficus Tree # 3

Monkeypod Tree # 4

Two (2) additional specimen trees, Ficus microcarpa # 5 and Monkeypod tree # 6 are within the open space of the preliminary plans and should be preserved (Site map).

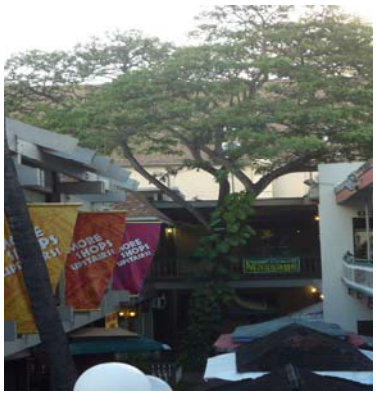
Ficus Tree # 5

Monkeypod Tree # 6

Three (3) additional Monkeypod trees # 20, # 37 and # 39 are good candidates for relocation on the site. Landscape design could strategically place the trees to compliment the structural design.

Monkeypod # 20

Monkeypod # 37



Monkeypod # 39

Coordinating design, tree preservation and construction are critical to preserving the health and structural integrity of the nine (9) described above trees.

The remaining trees and palms are discussed in the spreadsheet. Several trees have been identified as candidates for relocation on-site or off-site to a new location.

The trees identified as marginal/transplant are not the most desirable trees for transplant due to the species, health and structural condition, but could be relocated to a suitable location.

If you have any questions, please contact my office at 808-734-5963.

Respectfully yours,

Steve Nimz,
ASCA Consulting Arborist

ISA Certified Arborist # WE- 0314AM
ISA PNW Certified Tree Risk Assessor # 419

Attachments:
Site Maps # 1. # 2 and # 3
Spreadsheet # 1 and # 2
Aerial Root Photo Layout
Trees and Palms Photo Layout

International Marketplace

Tree #	Species (Common)	Species (Scientific)	Diameter (inches)	Height (feet)	Crown Spread	Health Condition	Structural Condition	Mitigation	Photo	Comments
1	Ficus	Ficus benghalenis	240	60	160	Good	Good	Preserve		
A	Aerial Roots		36					Preserve	A	Roots overgrowing block planter
B	Aerial Roots		28					Preserve	B	Two separate roots growing over rocks
C	Aerial Roots		19					Preserve	C	
D	Aerial Roots		16					Marginal	V	
E	Aerial Roots		13					Marginal	E	
F	Aerial Roots		18					Preserve	F	
G	Aerial Roots		30					Preserve	G	
H	Aerial Roots		110					Preserve	H	
I	Aerial Roots		80					Preserve	I	Three roots at 18, 40. 20, five large
J	Aerial Roots		28					Preserve	J	Curved
K	Aerial Roots		21					Preserve	K	
L	Aerial Roots		16					Marginal	L	
M	Aerial Roots		8					Marginal	M	Separate tree
N	Aerial Roots		10					Marginal	N	Separate tree
O	Aerial Roots		6					Marginal	O	Separate tree
P	Aerial Roots		10					Marginal	P	
2	Ficus	Ficus benghalenis	100	60	85			Remove		Growing through building
A	Aerial Roots		8					Remove	2 A	

International Marketplace

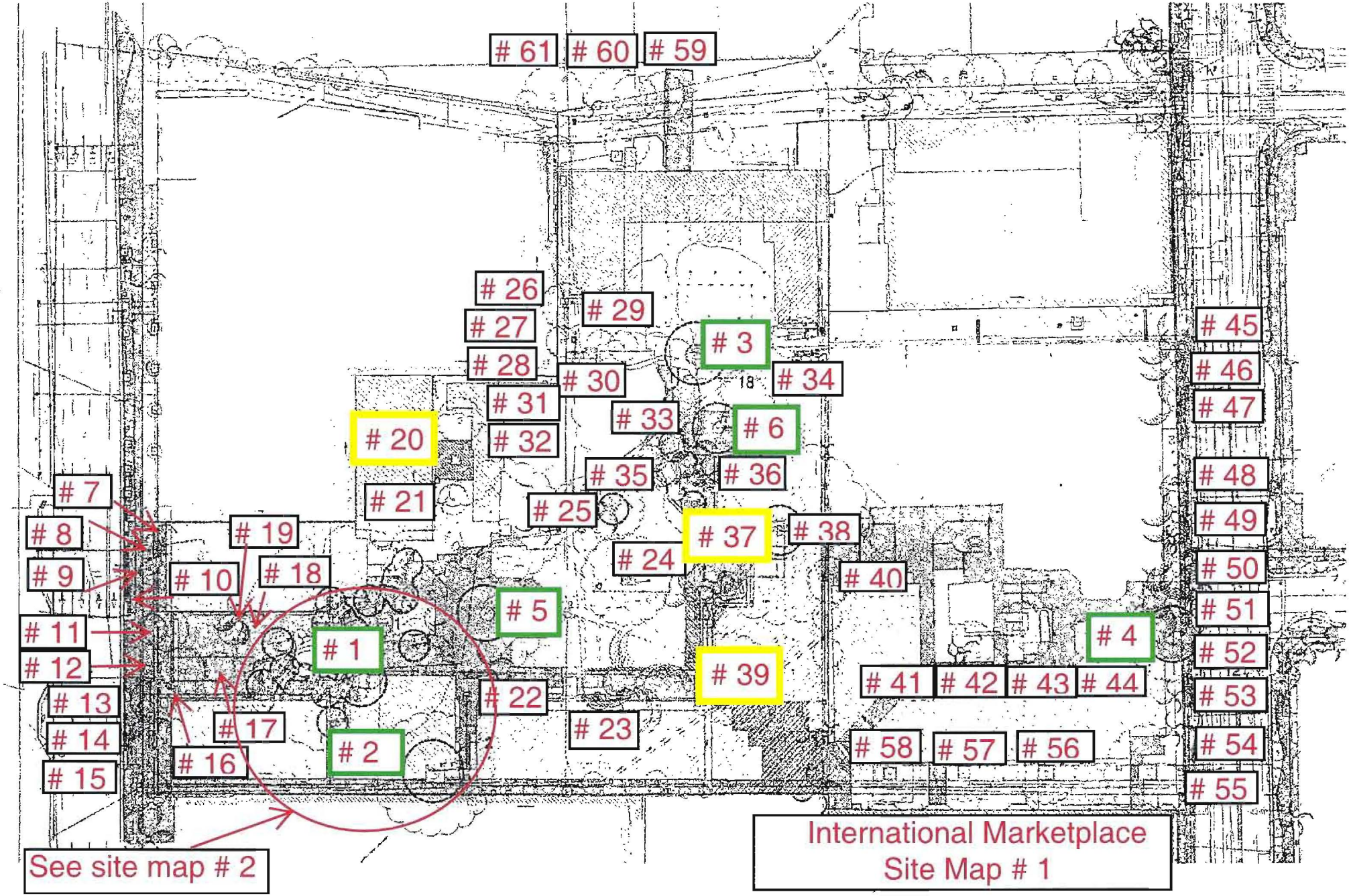
Tree #	Species (Common)	Species (Scientific)	Diameter (inches)	Height (feet)	Crown Spread	Health Condition	Structural Condition	Mitigation	Photo	Comments
1	Ficus	Ficus benghalenis	240	60	160	Good	Good	Preserve	1	
2	Ficus	Ficus benghalenis	100	60	85	Fair	Fair	Remove	2	Growing through building
3	Ficus	Ficus microcarpa	62	60	60	Good	Good	Preserve	3	
4	Ficus	Ficus microcarpa	120	70	80	Good	Good	Preserve	4	Growing over planter
5	Monkeypod	Samanea saman	47	50	50	Good	Good	Remove	5	Strong, healthy tree
6	Monkeypod	Samanea saman	38	55	50	Good	Good	Remove	6	Growing in raised planter
7	Ficus	Ficus microcarpa	10	20	20	Fair	Poor	Remove	7	Lower structure split, basal wounds
8	Plumeria	Singapore Plumeria	11	20	15	Fair	Poor	Marginal/ transplant	8	Poor structure
9	Plumeria	Singapore Plumeria	8	15	10	Fair	Fair	Marginal/ transplant	8	Poor structure
10	Plumeria	Singapore Plumeria	12	20	15	Fair	Fair	Marginal/ transplant	8	Poor structure
11	Ficus	Ficus microcarpa	15	40	20	Fair	Fair	Marginal/ transplant	9	
12	Ficus	Ficus microcarpa	13	35	20	Fair	Fair	Marginal/ transplant	9	
13	Ficus	Ficus microcarpa	12	30	25	Fair	Good	Marginal/ transplant	10	
14	Ficus	Ficus microcarpa	18	40	35	Good	Good	Marginal/ transplant	10	
15	Ficus	Ficus microcarpa	13	35	25	Good	Good	Marginal/ transplant	10	
16	Ficus	Ficus microcarpa	15	35	25	Good	Good	Marginal/ transplant	11	
17	Ficus	Ficus microcarpa	12	30	20	Good	Good	Marginal/ transplant	11	
18	Ficus	Ficus microcarpa	10	25	15	Fair	Fair	Marginal/ transplant	12	
19	Coconut Palm	Cocos nucifera		55		Fair	Fair	Remove	13	Tall and in decline
20	Monkeypod	Samanea saman	24	35	30	Good	Good	Transplant	14	Relocate on project
21	Ficus	Ficus microcarpa	10	35	20	Good	Fair	Marginal/ transplant	14	Poor trunk and limb structure
22	Coconut Palm	Cocos nucifera		60		Fair	Fair	Remove	15	Tall and in decline

International Marketplace

Tree #	Species (Common)	Species (Scientific)	Diameter (inches)	Height (feet)	Crown Spread	Health Condition	Structural Condition	Mitigation	Photo	Comments
23	Coconut Palm	Cocos nucifera		55		Fair	Fair	Remove	16	Tall and in decline
24	Ficus	Ficus elastica	48	45	40	Poor	Poor	Remove	17	Decayed trunk, uprooted
25	Coconut Palm	Cocos nucifera		45		Fair	Fair		18	Relocate on site
26	Ficus	Ficus microcarpa	14	45	25	Fair	Fair	Remove	19	Poor root structure
27	Ficus	Ficus microcarpa	7	30	15	Fair	Poor	Remove	19	Poor root structure
28	Ficus	Ficus microcarpa	13	40	25	Good	Fair	Remove	19	Poor root structure
29	Ficus	Ficus microcarpa	12	40	25	Fair	Fair	Remove	20	Poor root structure
30	Kou	Cordia subcordata	6	15	10	Good	Good	Transplant	21	Relocate on or off-site
31	Kou	Cordia subcordata	6	15	10	Good	Good	Transplant	22	Relocate on or off-site
32	Kou	Cordia subcordata	6	15	10	Good	Good	Transplant	22	Relocate on or off-site
33	Kou	Cordia subcordata	4	15	10	Good	Good	Transplant	22	Relocate on or off-site
34	Coconut Palm	Cocos nucifera		55		Fair	Fair	Remove	23	Tall and in decline
35	Coconut Palm	Cocos nucifera		25		Good	Fair	Marginal/ transplant	24	Curved trunk, relocation site
36	Coconut Palm	Cocos nucifera		65		Fair	Poor	Remove	25	Tall and in decline
37	Monkeypod	Samanea saman	18	35	30	Good	Fair-Good	Transplant	26	Relocate on site
38	Ficus	Ficus microcarpa	60	50	80	Good	Poor	Marginal /Preserve	27	
39	Monkeypod	Samanea saman	24	45	50	Good	Good	Transplant	28	Relocate on site
40	Kukui	Aleurites moluccana	16	35	20	Fair	Fair	Remove		
41	Brassia	Brassia actinophylla	18	30	10	Fair	Fair	Remove		

International Marketplace

Tree #	Species (Common)	Species (Scientific)	Diameter (inches)	Height (feet)	Crown Spread	Health Condition	Structural Condition	Mitigation	Photo	Comments
42	Brassia	Brassia actinophylla	12	30	10	Fair	Fair	Remove		
43	Brassia	Brassia actinophylla	28	35	15	Fair	Fair	Remove		
44	Brassia	Brassia actinophylla	10	30	10	Fair	Fair	Remove		
45	Coconut Palm	Cocos nucifera		23		Fair	Fair	Remove	29	Poor structure, penciling and hourglass
46	Coconut Palm	Cocos nucifera		45		Fair	Fair	Remove	29	Poor structure, penciling and hourglass
47	Coconut Palm	Cocos nucifera		40		Fair	Fair	Remove	29	Poor structure, penciling and hourglass
48	Coconut Palm	Cocos nucifera		38		Fair	Poor	Remove	30	Poor structure, penciling and hourglass
49	Coconut Palm	Cocos nucifera		42		Fair	Fair	Remove	30	Poor structure, penciling and hourglass
50	Coconut Palm	Cocos nucifera		35		Fair	Poor	Remove	30	Poor structure, penciling and hourglass
51	Coconut Palm	Cocos nucifera		45		Fair	Poor	Remove	31	Poor structure, penciling and hourglass
52	Coconut Palm	Cocos nucifera		40		Fair	Poor	Remove	31	Curved trunk, penciling and hourglass
53	Coconut Palm	Cocos nucifera		30		Good	Good	Transplant	32	Relocate on site
54	Coconut Palm	Cocos nucifera		20		Good	Good	Transplant	32	Relocate on site
55	Monkeypod	Samanea saman	38	55	40	Fair	Fair	Remove	33	Large trunk wounds
56	Monkeypod	Samanea saman	23	50	30	Fair	Poor	Remove	34	Poor structure
57	Monkeypod	Samanea saman	24	50	30	Fair	Poor	Remove	35	Poor structure
58	Monkeypod	Samanea saman	18	50	30	Fair	Fair	Remove	36	Poor structure
59	Ficus	Ficus microcarpa	13	35	20	Good	Fair	Marginal/ Transplant	37	
60	Ficus	Ficus microcarpa	12	35	20	Good	Fair	Marginal/ transplant	38	
61	Ficus	Ficus microcarpa	10	30	25	Good	Fair	Marginal/ transplant	38	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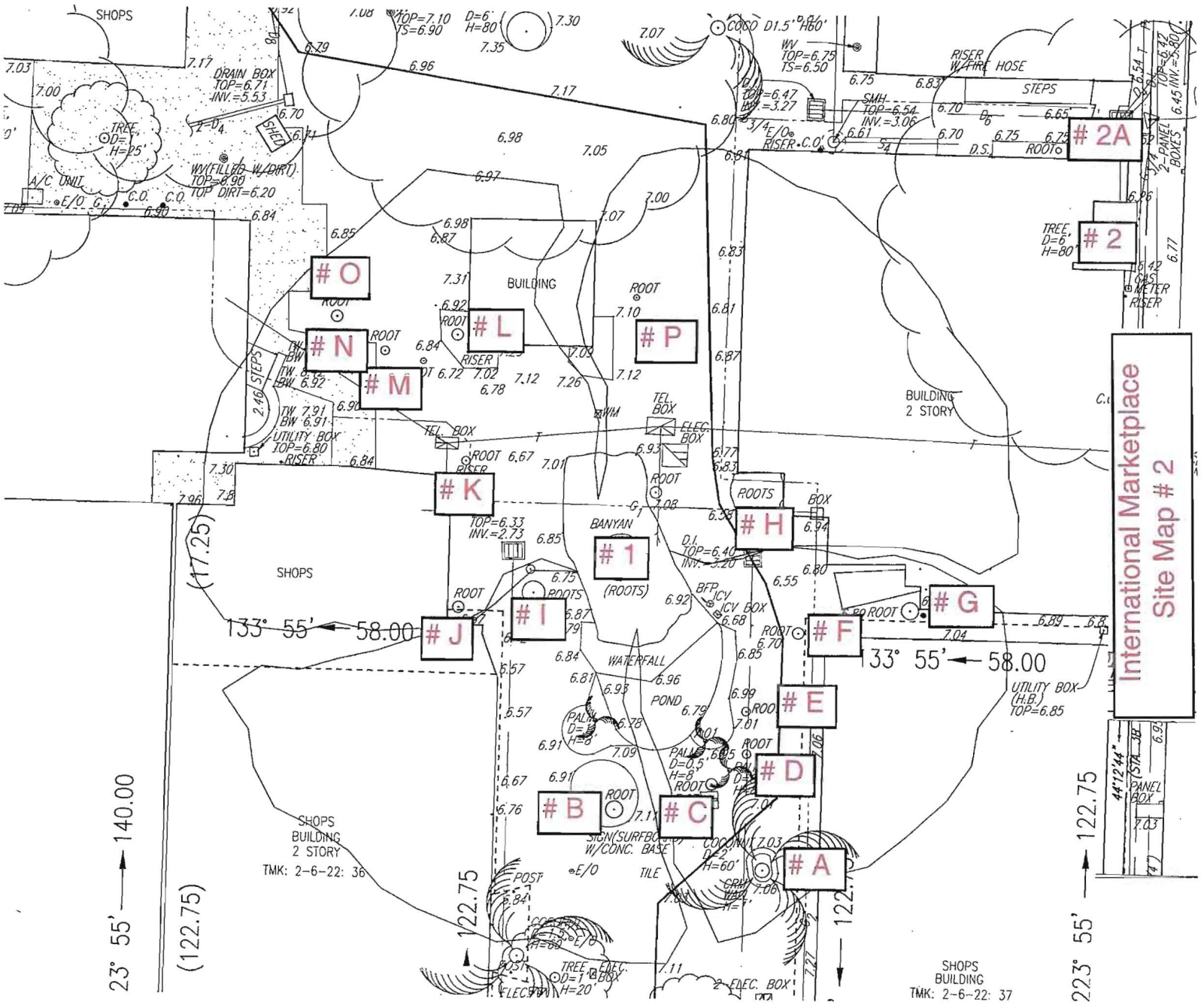
See site map # 2
International Marketplace
Site Map # 1


International Marketplace
Site Map # 2
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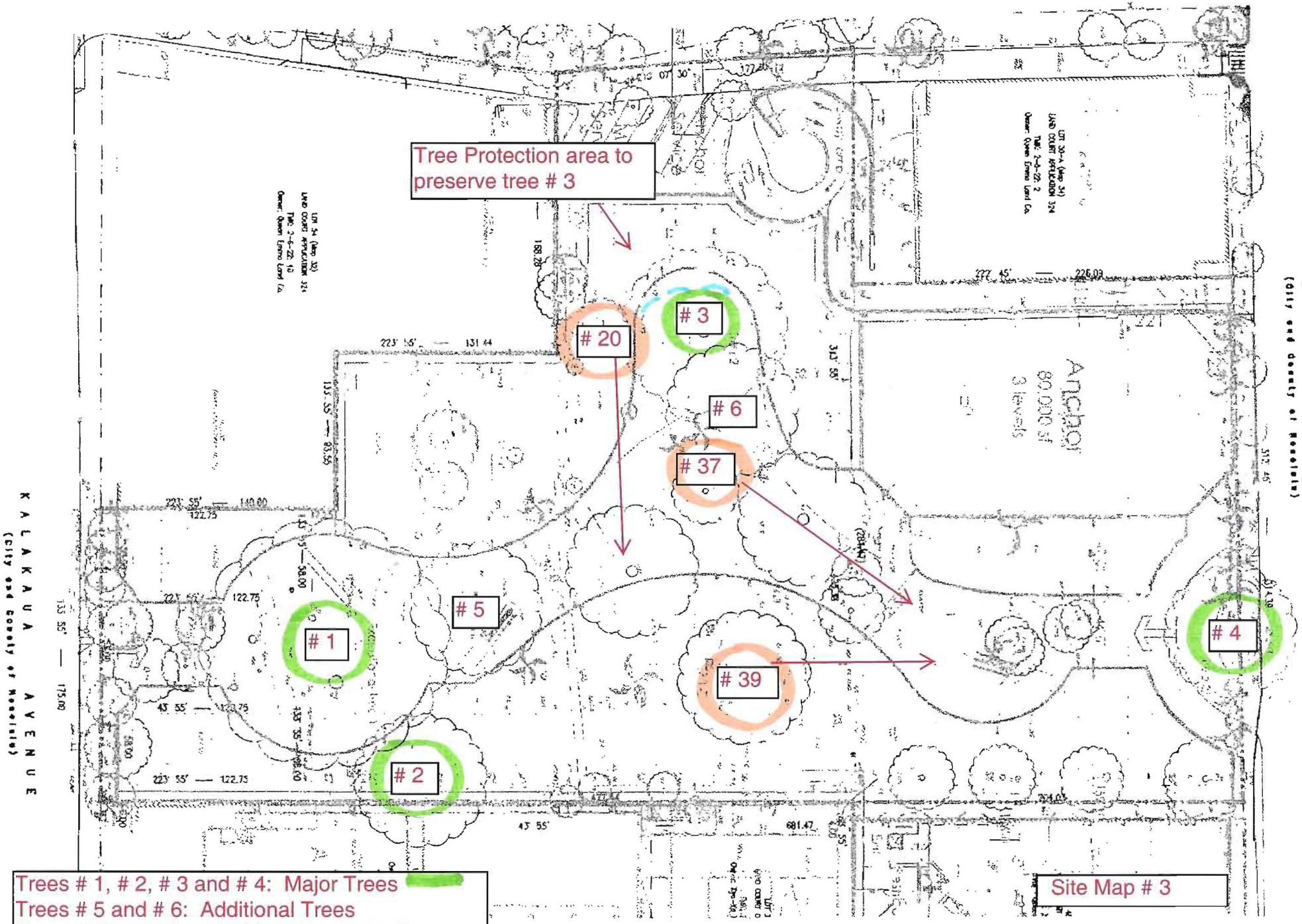
BUILDING
BUILDING 2 STORY
SHOPS
SHOPS BUILDING 2 STORY
TMK: 2-6-22: 36
SHOPS BUILDING
TMK: 2-6-22: 37
BANYAN
(ROOTS)
WATERFALL
POND
STEPS
133° 55' 58.00
33° 55' 58.00
23° 55' 140.00
223° 55' 122.75
(17.25)
(122.75)
122.75



Trees # 1, # 2, # 3 and # 4: Major Trees
Trees # 5 and # 6: Additional Trees
Trees # 20, # 37 and # 39: Relocatable Trees

International Marketplace
Aerial Roots of Ficus benghalensis tree # 1 and # 2

 # 1 A

 # 1 B

 # 1 C

 # 1 D

 # 1 E

 # 1 F

 # 1 G

 # 1 H

 # 1 I

International Marketplace
Aerial Roots of Ficus benghalensis tree # 1 and # 2

 # 1 J

 # 1 K

 # 1 L M N O

 # 1 P

 # 2 A

International Marketplace # 1
Trees and Palms

Photo # 1
Ficus benghalensis # 1

Photo # 2
Ficus benghalensis # 2

Photo # 3
Ficus microcarpa # 3

Photo # 4
Monkeypod tree # 4

Photo # 5
Ficus microcarpa # 5

Photo # 6
Monkeypod tree # 6

Photo # 7
Ficus microcarpa # 7

Photo # 8
Plumeria # 8, # 9 and # 10

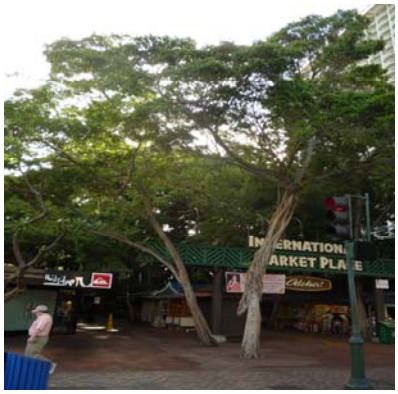


Photo # 9
Ficus # 11 and # 12

International Marketplace # 1
Trees and Palms

Photo # 10
Ficus # 13, # 14 and # 15

Photo # 11
Ficus # 16 and # 17

Photo # 12
Ficus # 18

Photo # 13
Coconut palm # 19

Photo # 14
Monkeypod # 20, Ficus # 21

Photo # 15
Coconut palm # 22

Photo # 16
Coconut palm # 23

Photo # 17
Ficus # 24

Photo # 18
Coconut palm # 25

International Marketplace # 1
Trees and Palms

Photo # 19
Ficus # 26

Photo # 20
Ficus # 27

Photo # 21
Ficus # 28

Photo # 22
Kou # 31, # 32 and # 33

Photo # 23
Coconut Palm # 34

Photo # 24
Coconut Palm # 35

Photo # 25
Coconut palm # 36

Photo # 26
Monkeypod # 37

Photo # 27
Ficus # 38

International Marketplace # 1
Trees and Palms

Photo # 28
Monkeypod # 39

Photo # 29
Coconut palms
 # 45, # 46 and # 47

Photo # 30
Coconut palms
 # 48, # 49 and # 50

Photo # 31
Coconut palms # 51 and # 52

Photo # 32
Coconut palms # 53 and # 54

Photo # 33
Monkeypod # 55

Photo # 34
Monkeypod # 56

Photo # 35
Monkeypod # 57

Photo # 36
Monkeypod # 58

International Marketplace # 1
Trees and Palms

Photo # 37
Ficus # 59

Photo # 38
Ficus # 60 and # 61