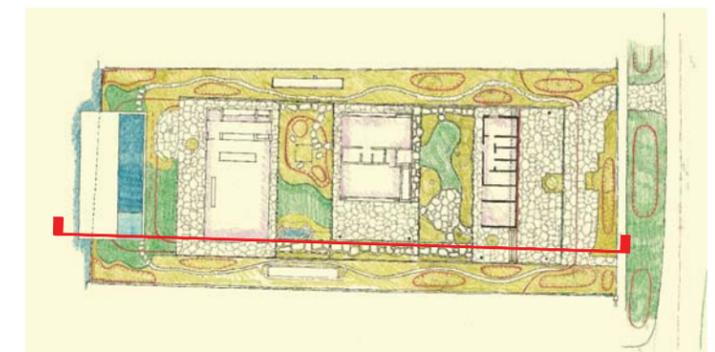




1 LANDSCAPE RENDERING - SECTION THROUGH SITE (LOOKING NORTH)
 Scale: N.T.S.

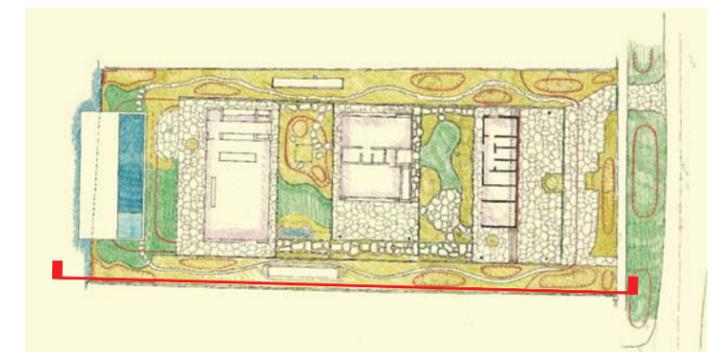


KEY PLAN: N.T.S.





2 LANDSCAPE RENDERING - SOUTH ELEVATION (LOOKING NORTH)
Scale: N.T.S.

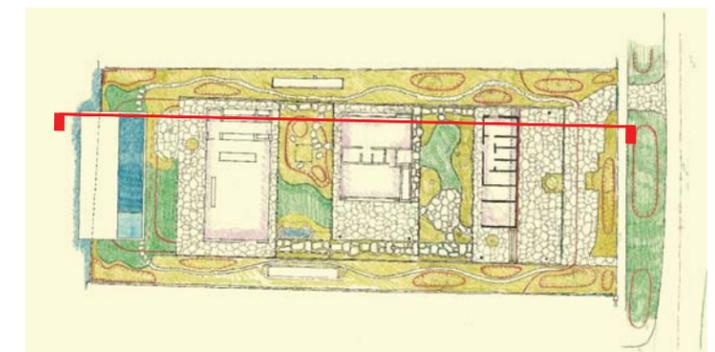


KEY PLAN: N.T.S.



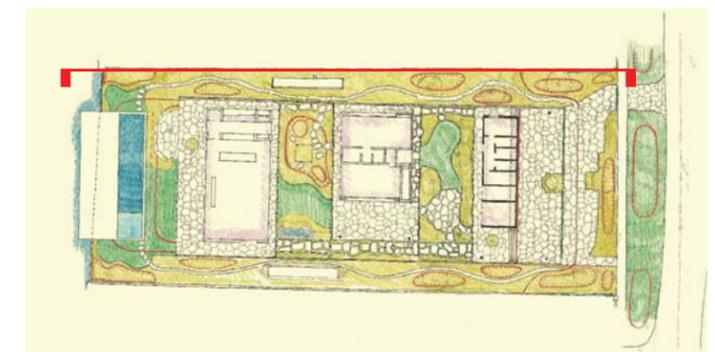


3 LANDSCAPE RENDERING - SECTION THROUGH SITE (LOOKING SOUTH)
Scale: N.T.S.



KEY PLAN: N.T.S.





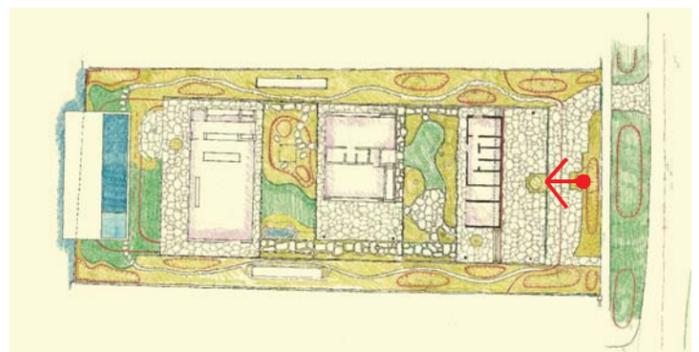
KEY PLAN: N.T.S.

4 LANDSCAPE RENDERING - NORTH ELEVATION (LOOKING SOUTH)
Scale: N.T.S.





5 LANDSCAPE RENDERING - VIEW FROM DRIVEWAY (LOOKING WEST)
 Scale: N.T.S.

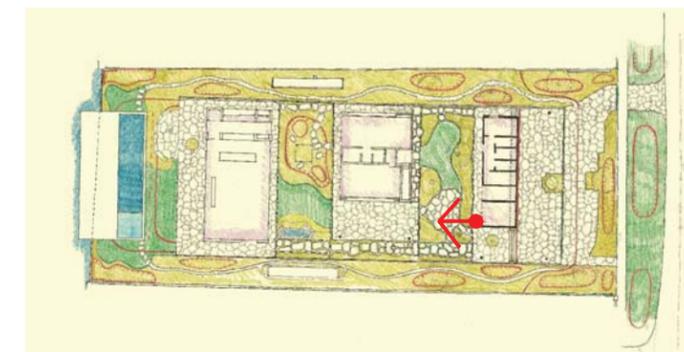


KEY PLAN: N.T.S.





6 LANDSCAPE RENDERING - EAST COURTYARD (LOOKING WEST)
Scale: N.T.S.

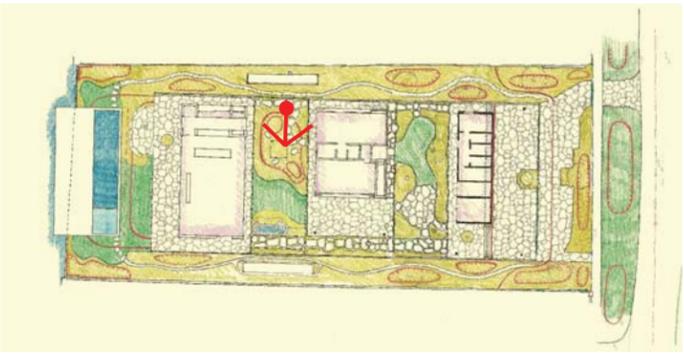


KEY PLAN: N.T.S.





7 LANDSCAPE RENDERING - WEST COURTYARD (LOOKING SOUTH)
Scale: N.T.S.

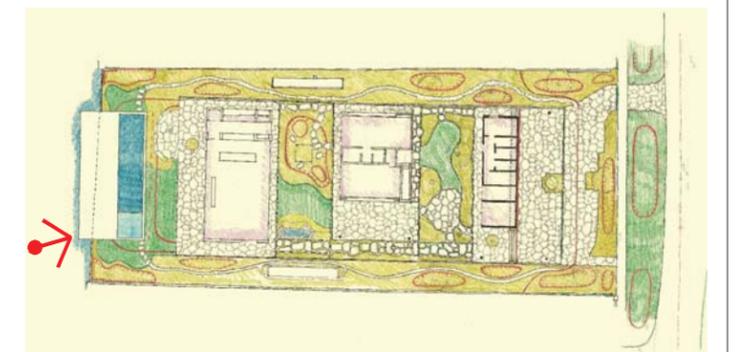


KEY PLAN: N.T.S.





8 LANDSCAPE RENDERING - BAYSIDE (LOOKING EAST)
Scale: N.T.S.

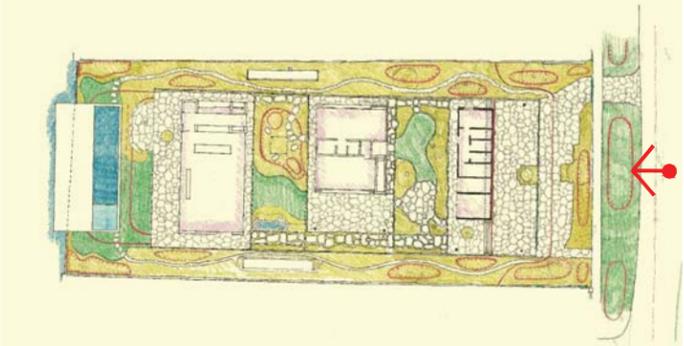


KEY PLAN: N.T.S.





9 LANDSCAPE RENDERING - VIEW FROM STREET (LOOKING WEST)
Scale: N.T.S.



KEY PLAN: N.T.S.



MAP OF SURVEY

360° SURVEYING AND MAPPING, LLC
 Land Surveyors - Land Planners
 2000 S.W. 83rd Court MIAMI, FLORIDA 33155
 PHONE: (305) 265-1002

PROPERTY ADDRESS:
 6300 NORTH BAY ROAD MIAMI BEACH, FL. 33141

FLOOD ZONE INFORMATION:
 COMMUNITY NO. 120651 PANEL NO. 0309 SUFFIX: L
 FIRM DATE: 09-11-2009 FLOOD ZONE: AE 8.0' (NGVD 1929)

LEGAL DESCRIPTION:
 LOT 11, BLOCK 1, OF LAGORCE GOLF SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 14, AT PAGE 43 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA; AND MEETS AND BOUNDS DESCRIPTION OF THE SOUTHWESTERLY 1/2 OF LOT 10, BLOCK 1, LAGORCE-GOLF SUBDIVISION, MIAMI BEACH, FLORIDA;
 COMMENCING AT THE NORTHEASTERLY CORNER OF LOT 11, BLOCK 1, AS SAID LOT 11, BLOCK 1 IS SHOWN ON PLAT ENTITLED LAGORCE-GOLF SUBDIVISION RECORDED IN PLAT BOOK 14, PAGE 43, PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA; SAID POINT BEING THE POINT OF BEGINNING OF THE TRACT OF LAND HEREIN DESCRIBED;
 FROM SAID POINT OF BEGINNING RUN IN A NORTHEASTERLY DIRECTION ALONG THE WESTERLY LINE OF NORTH BAY ROAD, A DISTANCE OF 28.22 FEET TO A POINT, THENCE RUN IN A NORTHWESTERLY DIRECTION ALONG A LINE PASSING THROUGH THE LAST MENTIONED POINT AND A POINT 25 FEET NORTHEASTERLY OF THE NORTHWESTERLY CORNER OF SAID LOT 11, BLOCK 1, LAGORCE-GOLF SUBDIVISION, SAID 25 FEET BEING MEASURED ALONG THE FACE OF THE CONCRETE BULKHEAD SITUATED ON THE EASTERLY SHORE OF BISCAYNE BAY, A DISTANCE OF 243 FEET, PLUS OR MINUS, THENCE RUN IN A SOUTHWESTERLY DIRECTION ALONG THE FACE OF SAID CONCRETE BULKHEAD ON THE EASTERLY SHORE OF BISCAYNE BAY A DISTANCE OF 25 FEET TO A POINT, SAID POINT THE NORTHWESTERLY CORNER OF SAID LOT 11, BLOCK 1, LAGORCE-GOLF SUBDIVISION, THENCE RUN IN A SOUTHEASTERLY DIRECTION ALONG THE NORTHEASTERLY LINE OF SAID LOT 11, BLOCK 1, LAGORCE-GOLF SUBDIVISION, A DISTANCE OF 244.10 FEET, PLUS OR MINUS, TO THE POINT OF BEGINNING OF THE TRACT OF LAND HEREIN DESCRIBED.

SURVEYOR'S NOTES:
 LEGAL DESCRIPTION WAS FURNISHED BY THE CLIENT.

LEGAL DESCRIPTION SUBJECT TO ANY DEDICATIONS, LIMITATIONS, RESTRICTIONS, RESERVATIONS OR RECORDED EASEMENTS.

THERE MAY BE LEGAL RESTRICTIONS ON THE SUBJECT PROPERTY THAT ARE NOT SHOWN ON THE MAP OF SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, OR THE RECORDS OF ANY OTHER PUBLIC AND PRIVATE ENTITIES AS THEIR JURISDICTIONS MAY APPEAR.

THIS SURVEY WAS CONDUCTED FOR THE PURPOSE OF A BOUNDARY SURVEY ONLY AND IS NOT INTENDED TO DELINEATE THE REGULATORY JURISDICTION OF ANY FEDERAL, STATE, REGIONAL OR LOCAL AGENCY BOARD, COMMISSION OR OTHER ENTITY.

THE ELEVATIONS OF WELL-IDENTIFIED FEATURES AS DEPICTED ON THIS SURVEY AND MAP WERE MEASURED TO AN ESTIMATED VERTICAL POSITIONAL ACCURACY OF 1/10 FOOT FOR NATURAL GROUND SURFACES AND 5/100 FOOT FOR HARDSCAPE SURFACES, INCLUDING PAVEMENTS, CURBS AND OTHER MAN-MADE FEATURES AS MAY EXIST.

WELL-IDENTIFIED FEATURES AS DEPICTED ON THIS SURVEY AND MAP WERE MEASURED TO AN ESTIMATED HORIZONTAL POSITIONAL ACCURACY OF 1/10 FOOT UNLESS OTHERWISE SHOWN.

THE MAP OF SURVEY IS INTENDED TO BE DISPLAYED AT THE STATED GRAPHIC SCALE IN ENGLISH UNITS OF MEASUREMENT. ATTENTION IS BROUGHT TO THE FACT THAT SAID DRAWING MAY BE ALTERED IN SCALE BY THE REPRODUCTION PROCESS.

ALL MEASUREMENTS SHOWN ARE IN THE UNITED STATES STANDARD FEET

SHOWN ELEVATIONS ARE REFERRED TO N.G.V.D. OF 1929.

THE SURVEYOR MAKES NO REPRESENTATION AS TO OWNERSHIP, POSSESSION OR OCCUPATION OF THE SUBJECT PROPERTY BY ANY ENTITY OR INDIVIDUAL.

SUBSURFACE IMPROVEMENTS AND/OR ENCROACHMENTS WITHIN, UPON, ACROSS, ABUTTING OR ADJACENT TO THE SUBJECT PROPERTY WERE NOT LOCATED AND ARE NOT SHOWN.

NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, ADDITIONS AND DELETIONS TO THIS MAP OF SURVEY BY OTHER THAN THE SIGNING PARTY ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY.

THIS MAP OF SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE ENTITIES NAMED HEREIN AND THE CERTIFICATION DOES NOT EXTEND TO ANY UNNAMED PARTY.

CERTIFY TO:

SURVEYOR'S CERTIFICATION:
 IN MY PROFESSIONAL OPINION THIS "BOUNDARY SURVEY" MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17.05 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES, AND, IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

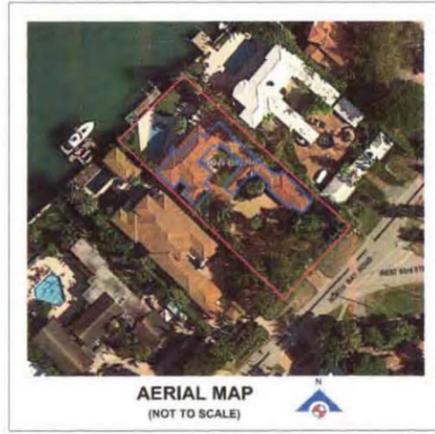
360° SURVEYING AND MAPPING, LLC
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. LB 6356

OSCAR E. BAEZ-CUSIDO, P.L.S.
 REGISTERED SURVEYOR AND MAPPER NO. 5034
 STATE OF FLORIDA.

ORIGINAL FIELD DATE	REVISIONS
09-09-2017	
JOB NO. 1708-0122	



- | | |
|--------------------------|--------------------------------------|
| LEGEND | ABBREVIATIONS |
| AC UNIT | AC = AIR CONDITIONER UNIT |
| CATCH BASIN | C = CANOPY |
| CENTER LINE | D = CENTRAL ANGLE |
| CLEAN OUT | C.B.S. = CONCRETE BLOCK & STUCCO |
| ELECTRIC OUTLET | Ø = DIAMETER |
| ELEVATION | F.F.E.L. = FINISHED FLOOR ELEVATION |
| LIGHT POLE | H = HEIGHT |
| MANHOLE (SANITARY SEWER) | I.D. = IDENTIFICATION |
| METER (WATER) | L = LENGTH (WHEN USED IN CURVE DATA) |
| PALM TREE | (M) = MEASURED |
| PROPERTY LINE | (NE) = NORTHEAST |
| UTILITY POLE | PG. = PAGE |
| VALVE (WATER) | P.O.C. = POINT OF COMMENCEMENT |
| | R = RADIUS |
| | (R) = RECORDED |
| | (SW) = SOUTHWEST |
| | (W) = WEST |



N
 SCALE: 1" = 20'

SHEET
 1/1

1 TREE SURVEY
 Scale: 1" = 20'-0"



RCA #333
ISA #SO-0758
P.O. Box 330203, Miami, FL 33233
Phone (305) 858-4667
Fax (305) 858-4237
Lisa@LisaHammerRCA.com
LisaHammerRCA.com
asca AMERICAN SOCIETY OF CONSULTING ARBORISTS

November 6, 2017

Tree Survey/Evaluation
6300 North Bay Road
Miami Beach, Florida

Lisa H. Hammer
Horticultural Consultant

November 7, 2017

Mr. Samuel Soares
GJP Hotels & Resorts
Samuel.soares@gjphotels.com

RE: 6300 North Bay Road
Miami Beach, Florida

Dear Mr. Soares:
As you requested, yesterday I visited the above-referenced property where I performed a tree survey/evaluation.

Using the Map of Survey you provided (360° Surveying and Mapping, LLC. Job No. 1708-0122. Original Field Date 09-09-2017. Sheet 1/1) I located all trees shown on the survey and added several more. I numbered them 1 through 49, consecutively, and a marked-up copy of the survey showing tree numbers and the approximate locations of the additional trees is attached.

I identified each tree by common and scientific name. I measured their trunk diameter at breast height (dbh), overall tree height, and crown spread. I evaluated each tree's general condition (good, fair, poor) and made any relevant comments. I have also made recommendations for tree disposition (retain, remove, relocate). A spreadsheet containing these data is attached. I took photographs of all trees and can provide them upon request.

There are three specimen trees (trees with a diameter of breast height of 18 inches or more) on the property. All are live oaks (*Quercus virginiana*), #s 6, 7, and 16.

Thank you for calling on me and please feel free to contact me if you have any questions or additional needs for assistance.

Sincerely,

Lisa H. Hammer, RCA
Horticultural Consultant

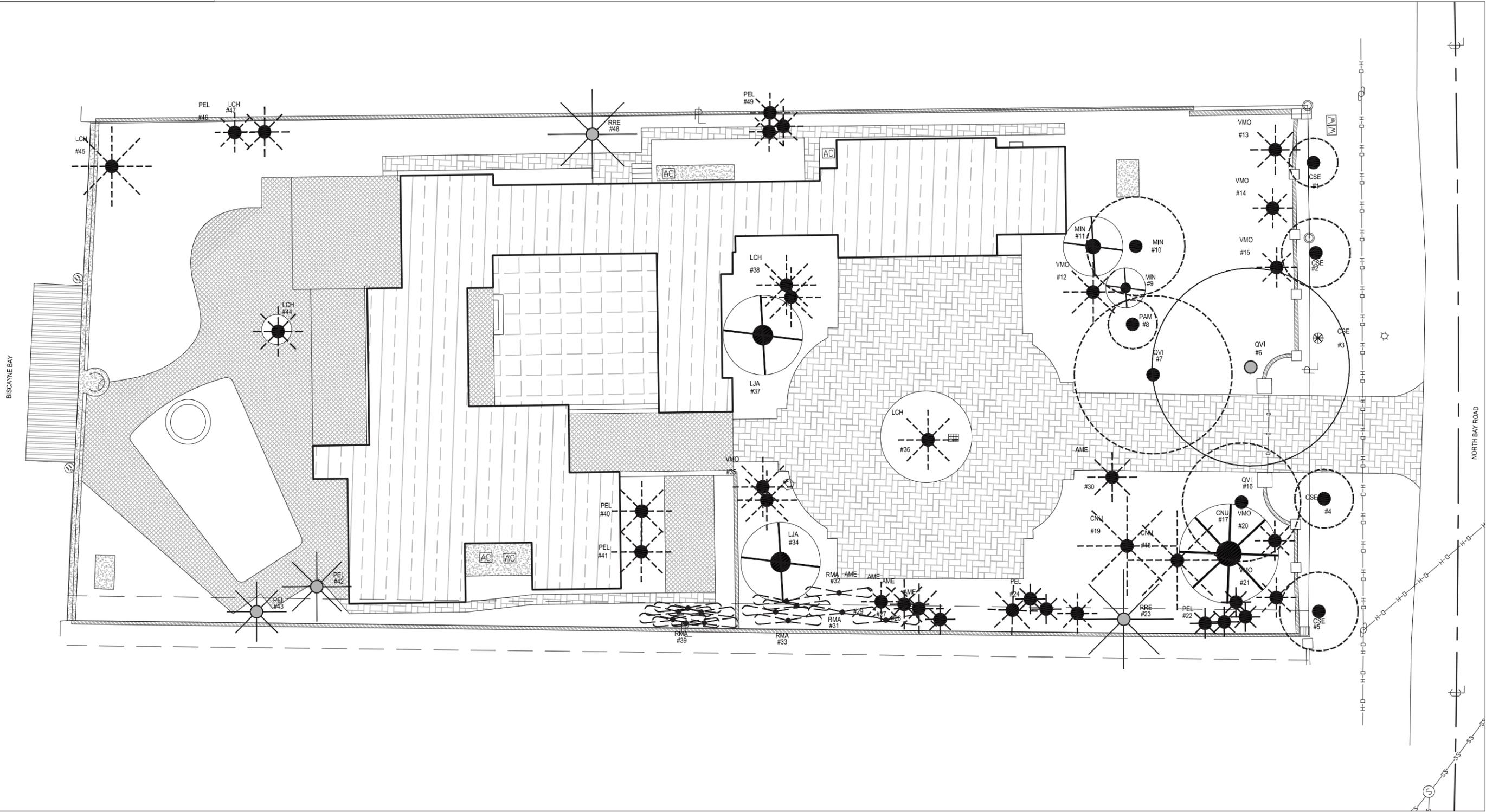
attachments: data spreadsheet
marked-up survey

No.	Common Name	Scientific Name	Diameter (in)	Height (ft)	Spread (ft)	Condition	Disposition	Comments
1	Geiger Tree	<i>Cordia sebestena</i>	5	20	10	Fair-Good	Retain or Relocate	leaning
2	Geiger Tree	<i>Cordia sebestena</i>	4.5	20	15	Good	Retain or Relocate	
3	Geiger Tree	<i>Cordia sebestena</i>	2.8	8	2	Poor	Remove	thin, weak; main leader broken off, branches broken/cut
4	Geiger Tree	<i>Cordia sebestena</i>	3.2	20	12	Fair	Retain or Relocate	little sparse/open crown; slightly leaning
5	Geiger Tree	<i>Cordia sebestena</i>	4.7	18	15	Fair-Good	Retain, Remove, or Relocate	1 leader broken; broken branch with ripped bark
6	Live Oak	<i>Quercus virginiana</i>	28.5	40	40	Good	Retain	little sparse; pruned by power lines
7	Live Oak	<i>Quercus virginiana</i>	19.3	30	30	Good	Retain	Relocation possible
8	Avocado	<i>Persea americana</i>	4	10	10	Fair-Poor	Retain or Remove	main leader cut, probably broken in storm
9	Mango	<i>Mangifera indica</i>	2	15	6	Fair	Retain or Remove	volunteer seedling
10	Mango	<i>Mangifera indica</i>	8.7	22	20	Good	Retain or Relocate	possibly a grafted tree of known cultivar
11	Mango	<i>Mangifera indica</i>	3.5	18	12	Fair-Good	Retain, Remove, or Relocate	probably volunteer seedling
12	Montgomery Palm	<i>Veitchia montgomeryana</i>	10	25	12	Good	Retain, Remove, or Relocate	
13	Montgomery Palm	<i>Veitchia montgomeryana</i>	9	25	12	Fair-Good	Retain, Remove, or Relocate	little thin
14	Montgomery Palm	<i>Veitchia montgomeryana</i>	7.5	25	12	Fair-Good	Retain, Remove, or Relocate	little thin
15	Montgomery Palm	<i>Veitchia montgomeryana</i>	8	27	12	Fair-Good	Retain, Remove, or Relocate	little thin
16	Live Oak	<i>Quercus virginiana</i>	21	40	25	Fair	Retain	some stress; sparse, dieback, large old pruning wounds; not good for relocation
17	Coconut Palm	<i>Cocos nucifera</i>	8	22	20	Fair	Retain or Remove	lightning damage
18	Coconut Palm	<i>Cocos nucifera</i>	8	28	22	Fair-Good	Retain, Remove, or Relocate	
19	Coconut Palm	<i>Cocos nucifera</i>	7.5	28	22	Fair-Good	Retain, Remove, or Relocate	
20	Montgomery Palm	<i>Veitchia montgomeryana</i>	8.4	35	12	Fair-Good	Retain, Remove, or Relocate	
21	Montgomery Palm	<i>Veitchia montgomeryana</i>	7.5	35	10	Fair	Retain, Remove, or Relocate	
22	Solitaire Palm cluster	<i>Ptychosperma elegans</i>	8 @ 3-4	30-40	10 ea	Fair	Retain, Remove, or Relocate	tall, thin
23	Royal Palm	<i>Roystonea regia</i>	14.5	50	24	Fair-Good	Retain or Relocate	
24	Solitaire Palm cluster	<i>Ptychosperma elegans</i>	9 @ 2-4	30-40	10 ea	Fair	Retain, Remove, or Relocate	tall, thin
25	Christmas Palm	<i>Adonidia merillii</i>	5	25	10	Good	Retain, Remove, or Relocate	
26	Christmas Palm	<i>Adonidia merillii</i>	5	25	10	Good	Retain, Remove, or Relocate	
27	Christmas Palm	<i>Adonidia merillii</i>	6	28	10	Good	Retain, Remove, or Relocate	
28	Travelers Tree	<i>Ravenala madagascariensis</i>	12	20	12	Good	Retain, Remove, or Relocate	
29	Christmas Palm	<i>Adonidia merillii</i>	6	30	10	Good	Retain, Remove, or Relocate	
30	Christmas Palm	<i>Adonidia merillii</i>	6	25	10	Good	Retain, Remove, or Relocate	
31	Travelers Tree - dbl	<i>Ravenala madagascariensis</i>	8 & 12	25 & 25	10 ea	Good	Retain, Remove, or Relocate	
32	Travelers Tree	<i>Ravenala madagascariensis</i>	12	25	12	Good	Retain, Remove, or Relocate	
33	Travelers Tree - cluster	<i>Ravenala madagascariensis</i>	5 @ 12-16	25-30	20 oa	Good	Retain, Remove, or Relocate	
34	Japanese Privet	<i>Ligustrum japonicum</i>	5 @ 2-4	16	15	Good	Retain, Remove, or Relocate	
35	Montgomery Palm - dbl	<i>Veitchia montgomeryana</i>	7.5 & 7.3	25	12 & 12	Good	Retain, Remove, or Relocate	
36	Chinese Fan Palm	<i>Livistona chinensis</i>	10.5	22	12	Fair	Retain or Remove	bird hole in trunk under crown
37	Japanese Privet	<i>Ligustrum japonicum</i>	6 @ 2-4	12	15	Good	Retain, Remove, or Relocate	
38	Chinese Fan Palm - dbl	<i>Livistona chinensis</i>	9.5 & 9	20 & 22	12 & 12	Good	Retain, Remove, or Relocate	
39	Travelers Tree	<i>Ravenala madagascariensis</i>	6 @ 12-14	25	20 oa	Good	Retain, Remove, or Relocate	
40	Solitaire Palm - dbl	<i>Ptychosperma elegans</i>	3 & 3.5	30	12 oa	Fair-Good	Retain, Remove, or Relocate	
41	Solitaire Palm - dbl	<i>Ptychosperma elegans</i>	3.5 & 3.25	30	12 oa	Fair-Good	Retain, Remove, or Relocate	
42	Solitaire Palm - dbl	<i>Ptychosperma elegans</i>	3.5 & 3.5	25	15 oa	Fair-Good	Retain, Remove, or Relocate	
43	Solitaire Palm - dbl	<i>Ptychosperma elegans</i>	3.5 & 3	25	15 oa	Fair-Good	Retain, Remove, or Relocate	
44	Chinese Fan Palm - dbl	<i>Livistona chinensis</i>	8.7 & 9	25	20 oa	Fair-Good	Retain or Remove	1 with bird hole in trunk
45	Chinese Fan Palm - dbl	<i>Livistona chinensis</i>	7 & 7	20	20 oa	Fair	Retain or Remove	thin
46	Solitaire Palm	<i>Ptychosperma elegans</i>	3.5	40	10	Fair	Retain, Remove, or Relocate	thin
47	Chinese Fan Palm	<i>Livistona chinensis</i>	9	28	12	Fair	Retain or Remove	climbing spike wounds
48	Royal Palm	<i>Roystonea regia</i>	18	45	18	Good	Retain or Remove	too close to wall to relocate
49	Solitaire Palm cluster	<i>Ptychosperma elegans</i>	5 @ 2-3	35-40	8 ea	Fair-Good	Retain, Remove, or Relocate	



LEGEND

EXISTING TO REMAIN	EXISTING TO BE RELOCATED	EXISTING TO BE REMOVED
TREE XX 	TREE XX 	TREE
PALM XX 	PALM XX 	PALM



3

TREE DISPOSITION PLAN

Scale: 1" = 20'-0"



6300 North Bay Road
 EXISTING PLANT INVENTORY/DISPOSITION
 Updated 12.06.2017

Existing Trees and Palms				D.B.H. (inches)	O.A. Height (feet)	Canopy Diameter (feet)	Condition	Disposition	Notes
Iden.	Symbol	Scientific Name	Common Name						
1	CSE	<i>Cordia sebestena</i>	Geiger Tree	5	20	10	Fair-Good	Relocate	leaning
2	CSE	<i>Cordia sebestena</i>	Geiger Tree	4.5	20	15	Good	Relocate	
3	CSE	<i>Cordia sebestena</i>	Geiger Tree	2.8	8	2	Poor	Remove	thin, weak; main leader broken off; branches broken/cut
4	CSE	<i>Cordia sebestena</i>	Geiger Tree	3.2	20	12	Fair	Relocate	little sparse/open crown; slightly leaning
5	CSE	<i>Cordia sebestena</i>	Geiger Tree	4.7	18	15	Fair-Good	Relocate	1 leader broken; broken branch with ripped bark
6	QVI	<i>Quercus virginiana</i>	Live Oak	28.5	40	40	Good	Retain	little sparse; pruned by power lines
7	QVI	<i>Quercus virginiana</i>	Live Oak	19.3	30	30	Good	Relocate	Relocation possible
8	PAM	<i>Persea amencana</i>	Avocado	4	10	10	Fair-Poor	Relocate	main leader cut, probably broken in storm
9	MIN	<i>Mangifera indica</i>	Mango	2	15	6	Fair	Remove	volunteer seedling
10	MIN	<i>Mangifera indica</i>	Mango	8.7	22	20	Good	Relocate	possibly a grafted tree of known cultivar
11	MIN	<i>Mangifera indica</i>	Mango	3.5	18	12	Fair-Good	Remove	probably volunteer seedling
12	VMO	<i>Veitchia montgomeryana</i>	Montgomery Palm	10	25	12	Good	Relocate	
13	VMO	<i>Veitchia montgomeryana</i>	Montgomery Palm	9	25	12	Fair-Good	Relocate	thin
14	VMO	<i>Veitchia montgomeryana</i>	Montgomery Palm	7.5	25	12	Fair-Good	Relocate	thin
15	VMO	<i>Veitchia montgomeryana</i>	Montgomery Palm	8	27	12	Fair-Good	Relocate	thin
16	QVI	<i>Quercus virginiana</i>	Live Oak	21	40	25	Fair	Relocate	some stress; sparse, dieback, large old pruning wounds; not good for relocation
17	CNU	<i>Cocos nucifera</i>	Coconut Palm	8	22	20	Fair	Remove	lightning damage
18	CNU	<i>Cocos nucifera</i>	Coconut Palm	8	28	22	Fair-Good	Relocate	
19	CNU	<i>Cocos nucifera</i>	Coconut Palm	7.5	28	22	Fair-Good	Relocate	
20	VMO	<i>Veitchia montgomeryana</i>	Montgomery Palm	8.4	35	12	Fair-Good	Relocate	
21	VMO	<i>Veitchia montgomeryana</i>	Montgomery Palm	7.5	35	10	Fair	Relocate	
22	PEL	<i>Ptychosperma elegans</i>	Solitaire Palm cluster	8 @ 3-4	30-40	10 ea	Fair	Relocate	tall, thin
23	RRE	<i>Roystonea regia</i>	Royal Palm	14.5	50	24	Fair-Good	Retain	
24	PEL	<i>Ptychosperma elegans</i>	Solitaire Palm cluster	9 @ 2-4	30-40	10 ea	Fair	Relocate	tall, thin
25	AME	<i>Adonidia merrillii</i>	Christmas Palm	5	25	10	Good	Relocate	
26	AME	<i>Adonidia merrillii</i>	Christmas Palm	5	25	10	Good	Relocate	
27	AME	<i>Adonidia merrillii</i>	Christmas Palm	6	28	10	Good	Relocate	
28	RMA	<i>Ravenala madagascariensis</i>	Travelers Tree	12	20	12	Good	Relocate	
29	AME	<i>Adonidia merrillii</i>	Christmas Palm	6	30	10	Good	Relocate	
30	AME	<i>Adonidia merrillii</i>	Christmas Palm	6	25	10	Good	Relocate	
31	RMA	<i>Ravenala madagascariensis</i>	Travelers Tree - dbl	8 & 12	25 & 25	10 ea	Good	Relocate	
32	RMA	<i>Ravenala madagascariensis</i>	Travelers Tree	12	25	12	Good	Relocate	
33	RMA	<i>Ravenala madagascariensis</i>	Travelers Tree - cluster	5 @ 12-16	25-30	20 oa	Good	Relocate	
34	LJA	<i>Ligustrum japonicum</i>	Japanese Privet	5 @ 2-4	16	15	Good	Remove	
35	VMO	<i>Veitchia montgomeryana</i>	Montgomery Palm - dbl	7.5 & 7.3	25	12 & 12	Good	Relocate	
36	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	10.5	22	12	Fair	Relocate	bird hole in trunk under crown
37	LJA	<i>Ligustrum japonicum</i>	Japanese Privet	6 @ 2-4	12	15	Good	Remove	
38	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm - dbl	9.5 & 9	20 & 22	12 & 12	Good	Relocate	
39	RMA	<i>Ravenala madagascariensis</i>	Travelers Tree	6 @ 12-14	25	20 oa	Good	Relocate	
40	PEL	<i>Ptychosperma elegans</i>	Solitaire Palm - dbl	3 & 3.5	30	12 oa	Fair-Good	Relocate	
41	PEL	<i>Ptychosperma elegans</i>	Solitaire Palm - dbl	3.5 & 3.25	30	12 oa	Fair-Good	Relocate	
42	PEL	<i>Ptychosperma elegans</i>	Solitaire Palm - dbl	3.5 & 3.5	25	15 oa	Fair-Good	Retain	
43	PEL	<i>Ptychosperma elegans</i>	Solitaire Palm - dbl	3.5 & 3	25	15 oa	Fair-Good	Retain	
44	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm - dbl	8.7 & 9	25	20 oa	Fair-Good	Relocate	1 with bird hole in trunk
45	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm - dbl	7 & 7	20	20 oa	Fair	Relocate	thin
46	PEL	<i>Ptychosperma elegans</i>	Solitaire Palm	3.5	40	10	Fair	Retain	thin
47	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	9	28	12	Fair	Relocate	climbing spike wounds
48	RRE	<i>Roystonea regia</i>	Royal Palm	18	45	18	Good	Retain	too close to wall to relocate
49	PEL	<i>Ptychosperma elegans</i>	Solitaire Palm cluster	5 @ 2-3	35-40	8 ea	Fair-Good	Relocate	



1. CONTRACTOR QUALIFICATIONS

- 1.1. CONTRACTOR MUST BE A LICENSED LANDSCAPE CONTRACTOR.
- 1.2. CONTRACTOR MUST HAVE A MINIMUM OF 10 YEARS OF PROVEN EXPERIENCE RELOCATING LARGE SPECIMEN TREES AND PALMS IN SOUTH FLORIDA.
- 1.3. CONTRACTOR MUST HAVE PROVEN EXPERIENCE RELOCATING TREES AND PALMS OF THE SAME SPECIES AND SIZE AS THOSE TO BE RELOCATED FOR THE CURRENT PROJECT.
- 1.4. CONTRACTOR MUST HAVE A CERTIFIED ARBORIST ON STAFF.

2. CONTRACTOR REQUIREMENTS

- 2.1. CONTRACTOR MUST VISIT THE JOBSITE AND INSPECT ALL TREES AND PALMS TO BE RELOCATED AS WELL AS EXISTING SITE CONDITIONS AND RESTRICTIONS PRIOR TO PREPARING BID.
- 2.2. CONTRACTOR MUST VERIFY AND ENSURE THAT ALL TREES AND PALMS IDENTIFIED ON THE PLANS AND THOSE TAGGED ON THE JOBSITE CORRESPOND AS TO NUMBER AND DESCRIPTION. ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY, PRIOR TO PREPARING BID.
- 2.3. CONTRACTOR MUST CONDUCT ALL WORK ASSOCIATED WITH RELOCATION AND MAINTENANCE OF TREES AND PALMS TO BE RELOCATED, NO WORK IS TO BE SUBCONTRACTED WITHOUT PRIOR WRITTEN CONSENT OF THE OWNER AND/OR LANDSCAPE ARCHITECT.
- 2.4. CONTRACTOR MUST DESIGNATE A COMPETENT, ENGLISH-SPEAKING SUPERVISOR OR FOREMAN TO OVERSEE AND DIRECT ALL RELOCATION AND MAINTENANCE ACTIVITIES AS OUTLINED IN THESE SPECIFICATIONS.
- 2.5. CONTRACTOR MUST SCHEDULE ROOT PRUNING TO PROVIDE THE MAXIMUM POSSIBLE TIME FOR NEW ROOT GROWTH. EVEN TREES AND PALMS THAT TYPICALLY DO NOT REQUIRE LONG (OR ANY) ROOT PRUNING WILL BENEFIT FROM MORE ROOT PRUNING TIME; THEREFORE, ALL TREES AND PALMS TO BE RELOCATED MUST BE ROOT PRUNED. CONTRACTOR MUST PROVIDE A ROOT PRUNE SCHEDULE FOR EACH TREE OR PALM TO BE RELOCATED AS AN ATTACHMENT TO THE BID.
- 2.6. CONTRACTOR MUST CALL SUNSHINE 811 TO HAVE ALL UNDERGROUND UTILITIES LOCATED UNDER OR IN THE VICINITY OF THE CURRENT OR FUTURE LOCATIONS OF ALL TREES AND PALMS TO BE RELOCATED PRIOR TO WORK COMMENCING.
- 2.7. CONTRACTOR MUST VERIFY WITH THE GENERAL CONTRACTOR THE ABSENCE OF ANY UNDERGROUND CONSTRUCTION OR OBSTRUCTIONS (E.G. BULKHEADS, SEPTIC SYSTEMS, ETC.) IN THE CURRENT AND FUTURE LOCATIONS OF ALL TREES AND PALMS TO BE RELOCATED.
- 2.8. CONTRACTOR MUST ALERT THE LANDSCAPE ARCHITECT OF ANY TREES OR PALMS THAT WILL NOT SUCCESSFULLY RELOCATE DUE TO POOR HEALTH PRIOR TO BEGINNING ROOT PRUNING.
- 2.9. CONTRACTOR MUST FLAG ALL PROPOSED TRANSPLANT LOCATIONS FOR THE LANDSCAPE ARCHITECT'S APPROVAL. A MINIMUM OF 15 DAYS PRIOR TO RELOCATION.
- 2.10. CONTRACTOR MUST ENSURE THAT ALL TREES AND PALMS TO BE RELOCATED ARE INSTALLED AT THE CORRECT GRADE OR ELEVATION, ACCORDING TO THE GRADING PLAN.
- 2.11. CONTRACTOR MUST ENSURE THAT ALL ROOT FLARES ARE EXPOSED AFTER RELOCATION.
- 2.12. CONTRACTOR MUST REMOVE ALL RESIDUAL ROOTS, STUMPS, AND PORTIONS THEREOF AND BACKFILL PITS FROM WHICH RELOCATED TREES AND PALMS WERE REMOVED WITH CLEAN FILL FLUSH WITH THE SURROUNDING GRADE.
- 2.13. CONTRACTOR MUST REPAIR ANY DAMAGE TO OTHER PLANTS, LAWN, HARDSCAPES, OR NEW CONSTRUCTION WITHIN THE RELOCATION AREA AT CONTRACTOR'S EXPENSE. HARDSCAPES INCLUDE BUT ARE NOT LIMITED TO CURBS, WALKS, ROADS, FENCES, SITE FURNISHINGS, ETC.
- 2.14. CONTRACTOR MUST PHOTOGRAPHICALLY DOCUMENT NEW ROOT GROWTH FOLLOWING EACH ROOT PRUNE AND SUBMIT THIS DOCUMENTATION TO THE LANDSCAPE ARCHITECT. THE PURPOSE OF THIS REQUIREMENT IS TO ENSURE THAT SUFFICIENT ROOT GROWTH HAS OCCURRED PRIOR TO THE SECOND AND SUBSEQUENT ROOT PRUNES AND FOLLOWING THE FINAL ROOT PRUNE PRIOR TO RELOCATION.
- 2.15. CONTRACTOR MUST INSTALL AND MAINTAIN PROTECTION FENCING AROUND EACH TREE AND PALM TO BE RELOCATED BOTH DURING ROOT PRUNING AND AFTER RELOCATION. PROTECTION FENCING MUST CONSIST OF GALVANIZED WELDED WIRE FABRIC OR PLASTIC MESH ATTACHED TO 4' X 4' POSTS INSERTED AROUND THE PERIMETER OF THE DRIPLINE OF THE TREE OR PALM. PROTECTION FENCING MUST BE PLUMB, TAUT, AND STURDY AT ALL TIMES AND MUST REMAIN IN PLACE THROUGHOUT THE ROOT PRUNING AND WARRANTY PERIODS, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- 2.16. CONTRACTOR MUST OBTAIN ALL NECESSARY OR REQUIRED PERMITS FOR THE RELOCATION AND TRANSPORTATION OF THE TREES AND PALMS TO BE RELOCATED.
- 2.17. CONTRACTOR MUST REPLACE ANY TREES OR PALMS SCARRED OR DAMAGED DURING RELOCATION, AT THE CONTRACTOR'S EXPENSE, WITH THE SAME OR SIMILAR SPECIES, SIZE, AND QUALITY. REPLACEMENT TREES OR PALMS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT, PREPARATION, AND/OR INSTALLATION. REPLACEMENT TREES AND PALMS MUST BE INSTALLED WITHIN 90 DAYS OF NOTICE.
- 2.18. CONTRACTOR MUST GUARANTEE ALL RELOCATED TREES AND PALMS FOR ONE YEAR FROM THE DATE OF RELOCATION TO THE FINAL LOCATION. GUARANTEE MUST INCLUDE TREE HEALTH AND SETTLING.
- 2.19. CONTRACTOR MUST PROVIDE ALL MATERIAL NECESSARY TO PERFORM THE WORK COVERED HEREIN, INCLUDING BUT NOT LIMITED TO BACKFILL MATERIAL, PROTECTION FENCING, FLAGGING, ADDITIVES AND SUPPLEMENTS, TEMPORARY IRRIGATION, BURLAP, WIRE, SHRINK WRAP, AND ALL NECESSARY TOOLS AND EQUIPMENT.

3. ROOT PRUNING SPECIFICATIONS

3.1. GENERAL

- 3.1.1. ALL TREES AND PALMS TO BE RELOCATED MUST BE WATERED DAILY FOR AT LEAST 2-3 DAYS PRIOR TO ANY ROOTS BEING CUT TO ENSURE THAT THEY ARE FULLY HYDRATED. EACH WATERING MUST THOROUGHLY SATURATE THE ROOTBALL TO ITS FULL DEPTH.
- 3.1.2. EACH TREE AND PALM MUST THEN BE WATERED EVERY OTHER DAY, NOT RELYING ON RAIN, DURING THE ENTIRE ROOT PRUNING PROCESS EITHER BY A TEMPORARY IRRIGATION SYSTEM OR BY HAND. EACH WATERING MUST THOROUGHLY SATURATE THE ROOTBALL TO ITS FULL DEPTH.
- 3.1.3. TREE AND PALM RELOCATION ACTIVITIES MUST BE SCHEDULED SO THAT REMOVAL AND REPLANTING TAKE PLACE IN THE SAME 24-HOUR PERIOD. NO TREES OR PALMS MAY BE "STOCKPILED" ONSITE OR OFFSITE FOR ANY PERIOD OF TIME WITHOUT PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. WHEN ALLOWED, APPROVAL FOR THE METHOD OF "STOCKPIILING" MUST BE OBTAINED FROM THE LANDSCAPE ARCHITECT.
- 3.1.4. ALL DIGGING IN THE ROOT ZONE DURING THE ROOT PRUNE PROCESS MUST BE DONE BY HAND. NO MACHINERY WILL BE ALLOWED. PRUNING OF ROOTS MUST BE DONE BY HAND WITH CLEAN, SHARP TOOLS. DO NOT PAINT CUT ROOTS WITH TREE PAINT OR ANY KIND OF SEALANT.
- 3.1.5. MYCORRHIZA (ROOTS) TRANSPLANT OR EQUIVALENT) MUST BE INCORPORATED INTO THE BACKFILL SOIL PRIOR TO BACKFILLING AS PER MANUFACTURER'S RECOMMENDATIONS.
- 3.1.6. AFTER EACH ROOT PRUNE, EACH SECTION OF ROOTBALL THAT IS PRUNED MUST BE WRAPPED WITH BLACK PLASTIC AND THE TRENCH BACKFILLED WITH ORIGINAL EXCAVATED SOIL. A TREE RING WITH A MINIMUM HEIGHT OF 6" MUST BE CONSTRUCTED 6-12" OUTSIDE THE OUTERMOST EDGE OF THE ROOTBALL AND AROUND THE ENTIRE PERIMETER OF THE ROOTBALL TO DIRECT IRRIGATION WATER AND ANY ADDED SUPPLEMENTS DOWN INTO THE ROOTBALL DURING ROOT REGENERATION.
- 3.1.7. ONCE THE TREE RING IS CONSTRUCTED AFTER EACH ROOT PRUNE, A HIGH-PHOSPHORUS ROOT STIMULANT MUST BE LIBERALLY APPLIED TO THE SURFACE OF THE ROOTBALL AND THOROUGHLY WATERED IN TO ENCOURAGE NEW ROOT GROWTH.

3.2. TREES

- 3.2.1. PRIOR TO ANY ROOTS BEING CUT, ALL MAJOR ROOTS MUST BE IDENTIFIED TO DETERMINE THE ROOTBALL DIAMETER BASED ON THE RELATIVE LOCATION AND SIZE OF THE ROOTS.
 - 3.2.2. MANY TREE RELOCATION SPECIFICATIONS USE "GENERAL RULES" TO CALCULATE MINIMUM ROOTBALL DIAMETER, SUCH AS MULTIPLYING THE DIAMETER AT BREAST HEIGHT (DBH) OF THE TREE BY A FACTOR OF 10 OR ALLOWING A MINIMUM OF 9'-12" OF ROOTBALL FOR EVERY 1" OF TREE CALIPER. OTHERS LIST UNREALISTIC MINIMUM SIZES FOR THE ROOTBALLS OF VARIOUS TREE CALIPERS OR HEIGHTS. IN MANY CASES, SUCH APPROACHES RESULT IN ROOTBALLS THAT ARE EITHER TOO LARGE OR TOO SMALL FOR A GIVEN TREE. THE FOLLOWING TABLE LISTS MINIMUM ROOTBALL DIAMETERS BASED ON REAL-WORLD EXPERIENCE OF TREE RELOCATION SPECIALISTS IN SOUTH FLORIDA:
- | CALIPER (inches) | MIN. ROOTBALL DIA. (feet) | CALIPER (inches) | MIN. ROOTBALL DIA. (feet) |
|------------------|---------------------------|------------------|---------------------------|
| 1-4 | 3 | 12-14 | 8 |
| 4-5 | 4 | 15-17 | 10 |
| 6-7 | 5 | 18-24 | 12-15 |
| 8-9 | 6 | 25-30 | 15-25 |
| 10-11 | 7 | 30+ | as needed |
- 3.2.3. WHENEVER POSSIBLE, ROOTBALLS MUST BE CIRCULAR IN SHAPE WITH AN EQUAL DISTANCE FROM THE TRUNK TO THE EDGE OF THE ROOTBALL ALL AROUND.
 - 3.2.4. MINIMUM ROOTBALL DEPTH MUST BE 24-36" FOR ALL TREES TO BE RELOCATED, WITH THE ACTUAL DEPTH TO BE DETERMINED ONLY AFTER A THOROUGH EXAMINATION OF ALL ROOTS DURING THE INITIAL ROOT INSPECTION AND BASED ON THE ABSENCE OF MAJOR ROOTS AT THE BOTTOM OF THE ROOTBALL. ROOTBALLS DEEPER THAN 36" MAY BE REQUIRED FOR LARGE SPECIMEN TREES, DEPENDING ON THE RELATIVE LOCATIONS AND DEPTHS OF THE MAJOR ROOTS AS OBSERVED DURING THE INITIAL ROOT INSPECTION.

- 3.2.5. AS A GENERAL RULE, MINIMUM ROOT PRUNE TIME FOR TREES WITH A DBH OF LESS THAN 10" IS 12 WEEKS. THE FIRST ROOT PRUNE MUST BE ON TWO OPPOSING SIDES OF THE ROOTBALL, WITH THE SECOND ROOT PRUNE ON ONE OF THE OTHER TWO SIDES DONE A MINIMUM OF 6 WEEKS LATER, AND A THIRD ROOT PRUNE ON THE LAST SIDE DONE A MINIMUM OF 3 WEEKS AFTER THAT. THE SECOND AND THIRD ROOT PRUNES MAY ONLY BE DONE WHEN HEALTHY NEW ROOT GROWTH FROM EARLIER ROOT PRUNES IS EVIDENT (SEE SECTION 2.14 ABOVE FOR SPECIFICATIONS ON PHOTOGRAPHICALLY DOCUMENTING NEW ROOT GROWTH DURING THE ROOT PRUNE PROCESS), MORE TIME MAY BE NEEDED DURING THE COOLER MONTHS OF THE YEAR.
- 3.2.6. AS A GENERAL RULE, MINIMUM ROOT PRUNE TIME FOR TREES WITH A DBH OF 10" OR GREATER IS 24 WEEKS. THE FIRST ROOT PRUNE MUST BE ON TWO OPPOSING SIDES OF THE ROOTBALL, WITH THE SECOND ROOT PRUNE ON ONE OF THE OTHER TWO SIDES DONE A MINIMUM OF 12 WEEKS LATER, AND A THIRD ROOT PRUNE ON THE LAST SIDE DONE A MINIMUM OF 6 WEEKS AFTER THAT. THE SECOND AND THIRD ROOT PRUNES MAY ONLY BE DONE WHEN HEALTHY NEW ROOT GROWTH FROM EARLIER ROOT PRUNES IS EVIDENT (SEE SECTION 2.14 ABOVE FOR SPECIFICATIONS ON PHOTOGRAPHICALLY DOCUMENTING NEW ROOT GROWTH DURING THE ROOT PRUNE PROCESS), MORE TIME MAY BE NEEDED DURING THE COOLER MONTHS OF THE YEAR.
- 3.2.7. CERTAIN HARDWOOD TREES AND GYMNOSPERMES REQUIRE LONGER ROOT PRUNING TIMES. THESE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - AVOCADO (PERSEA AMERICANA)
 - BLACK OLIVE (BUCIDA BUCERAS)
 - BRIDAL VEIL (CAESALPINIA GRANADILLO)
 - CASSIAS (ALL SPECIES OF CASSIA)
 - LIGNUM VITAE (GUAIACUM SANCTUM & G. OFFICINALE)
 - PODOCARPUS (PODOCARPUS SP.)
 - LIVE OAK (QUERCUS VIRGINIANA)
 - MAHOGANY (SWIETENIA MAHAGONI)
 - MANGO (MANGIFERA INDICA)
 - PIGEON PLUM (COCOLOBIA DIVERSIFOLIA)
 - SWEET ACACIA (ACACIA FARNESIANA)
 - VERAWOOD (BULNESIA ARBOREA)
 - WILD TAMARIND (LYSILOMA LATSILIQIUM & L. SABICU)

FOR THESE TREES, THE MINIMUM ROOT PRUNE TIMES DISCUSSED IN SECTIONS 3.2.5 AND 3.2.6 ABOVE MAY BE INSUFFICIENT. ONLY WHEN SUFFICIENT NEW ROOT GROWTH HAS TAKEN PLACE FOLLOWING AN EARLIER ROOT PRUNE CAN THE NEXT ROOT PRUNE BE DONE, AND ONLY WHEN SUFFICIENT NEW ROOT GROWTH HAS TAKEN PLACE FOLLOWING THE FINAL ROOT PRUNE MAY THE TREE BE RELOCATED (SEE SECTION 2.14 ABOVE FOR SPECIFICATIONS ON PHOTOGRAPHICALLY DOCUMENTING NEW ROOT GROWTH DURING THE ROOT PRUNE PROCESS).

3.3. PALMS

- 3.3.1. THE FOLLOWING TABLE LISTS MINIMUM ROOTBALL DIAMETERS FOR VARIOUS SPECIES OF PALMS BASED ON REAL-WORLD EXPERIENCE OF RELOCATION SPECIALISTS IN SOUTH FLORIDA:
- | PALM SPECIES | ROOTBALL SPECIFICATIONS |
|-------------------------------------|-------------------------------------|
| SABAL / CABBAGE PALM | 36" diameter |
| QUEEN & FOXTAIL PALMS | 12" from trunk in all directions |
| ROYAL & COCONUT PALMS | 18-24" from trunk in all directions |
| CANARY DATE PALM | 24" from trunk in all directions |
| SLOW-GROWING PALMS (see sec. 3.3.4) | 24" from trunk in all directions |
- 3.3.2. PALM ROOTBALLS MUST BE A MINIMUM OF 24" DEEP. WHENEVER POSSIBLE, ROOTBALLS MUST BE CIRCULAR IN SHAPE WITH AN EQUAL DISTANCE FROM THE TRUNK TO THE EDGE OF THE ROOTBALL ALL AROUND.
 - 3.3.3. AS A GENERAL RULE, MINIMUM ROOT PRUNE TIME FOR PALMS IS 6-8 WEEKS. THE FIRST ROOT PRUNE MUST BE ON TWO OPPOSING SIDES OF THE ROOTBALL, WITH THE SECOND ROOT PRUNE ON ONE OF THE OTHER TWO SIDES DONE A MINIMUM OF 3-4 WEEKS LATER, AND A THIRD ROOT PRUNE ON THE LAST SIDE DONE A MINIMUM OF 4.5-6 WEEKS AFTER THAT. THE SECOND AND THIRD ROOT PRUNES MAY ONLY BE DONE WHEN HEALTHY NEW ROOT GROWTH FROM EARLIER ROOT PRUNES IS EVIDENT (SEE SECTION 2.14 ABOVE FOR SPECIFICATIONS ON PHOTOGRAPHICALLY DOCUMENTING NEW ROOT GROWTH DURING THE ROOT PRUNE PROCESS), MORE TIME MAY BE NEEDED DURING THE COOLER MONTHS OF THE YEAR.
 - 3.3.4. CERTAIN PALMS, IN PARTICULAR THOSE THAT ARE SLOW GROWING, REQUIRE LONGER ROOT PRUNING TIME. THESE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - ALL SPECIES OF ARCHONTOPHOENIX
 - ALL SPECIES OF CORYPHA
 - AMERICAN OIL PALMS (ALL SPECIES OF ATTALEA)
 - BISMARCK PALM (BISMARCKIA NOBILIS)
 - CUBAN & CARIBBEAN COPERNICIA
 - CUBAN BELL PALM (GASTROCOCCOS CRISPA)
 - GINGERBREADDOODUM PALMS (ALL SPECIES OF HYPHAEAE)
 - PALMYRA PALMS (ALL SPECIES OF BORASSUS)
 - SATAKE PALM (SATAKENTIA LIUKIUNENSIS)
 - SAW PALMETTO (SERENOA REPENS)
 - SILVER PALM (COCOCHIRINAX ARGENTATA)
 - ZOMBIE PALM (ZOMBIA ANTILLARUM)

FOR THESE PALMS, THE MINIMUM ROOT PRUNING TIME IS 4-6 MONTHS OR GREATER. ONLY WHEN SUFFICIENT NEW ROOT GROWTH HAS TAKEN PLACE FOLLOWING AN EARLIER ROOT PRUNE CAN THE NEXT ROOT PRUNE BE DONE, AND ONLY WHEN SUFFICIENT NEW ROOT GROWTH HAS TAKEN PLACE FOLLOWING THE FINAL ROOT PRUNE MAY THE TREE BE RELOCATED (SEE SECTION 2.14 ABOVE FOR SPECIFICATIONS ON PHOTOGRAPHICALLY DOCUMENTING NEW ROOT GROWTH DURING THE ROOT PRUNE PROCESS).

4. CANOPY PRUNING SPECIFICATIONS

4.1. TREES

- 4.1.1. PRIOR TO RELOCATION, THE CANOPY OF EACH TREE TO BE RELOCATED MUST BE SELECTIVELY PRUNED TO REMOVE CROSSING, DEAD, DISEASED, BROKEN, AND LOW-HANGING BRANCHES THAT MAY INTERFERE WITH CONSTRUCTION ACTIVITIES, OR THAT MAY INTERFERE OR RESTRICT STRAPPING OR LIFTING THE TREE DURING RELOCATION.
- 4.1.2. FOR TREES BEING RELOCATED ONSITE, THE CANOPY MAY BE SELECTIVELY THINNED AND REDUCED BY NO MORE THAN 1/3 OF THE OVERALL CANOPY MASS, AT THE DIRECTION OF THE LANDSCAPE ARCHITECT. HOWEVER, THE BASIC SHAPE, FORM, AND CHARACTER OF THE TREE MUST BE PRESERVED.
- 4.1.3. FOR TREES BEING RELOCATED OFFSITE, THE CANOPY MUST BE PRUNED, AT THE DIRECTION OF THE LANDSCAPE ARCHITECT, TO FIT ON THE TRAILER FOR TRANSPORT. EVERY EFFORT MUST BE MADE TO RETAIN AS MANY LARGE BRANCHES AS POSSIBLE AND TO PRESERVE AS MUCH OF THE SHAPE, FORM, AND CHARACTER OF THE TREE AS POSSIBLE TO THE WIDEST LOAD WIDTH ALLOWABLE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS AND ESCORTS TO TRANSPORT WIDE LOADS, PER FLORIDA LAW.
- 4.1.4. ALL CANOPY PRUNING MUST BE CONDUCTED FOLLOWING ANSI A-300 TREE PRUNING STANDARDS AND BEST MANAGEMENT PRACTICES.
- 4.1.5. ALL DEBRIS GENERATED DURING CANOPY PRUNING MUST BE REMOVED OFFSITE AND DISPOSED.

4.2. PALMS

- 4.2.1. IT IS WELL KNOWN THAT SOME PALMS SURVIVE RELOCATION BETTER WHEN ALL OF THE LEAVES ARE REMOVED (E.G. CABBAGE PALM, SABAL PALMETTO), AND THAT OTHER PALMS BENEFIT FROM HAVING THEIR LEAVES CUT IN HALF DURING RELOCATION (E.G. COCONUT PALM, COCOS NUCIFERA). BOTH OF THESE HORTICULTURAL PRACTICES, WHILE TRUE, ARE ONLY APPLICABLE WHEN PALMS ARE NOT ROOT PRUNED. LEAVES DO NOT NEED TO BE CUT IN HALF OR REMOVED FROM PALMS THAT ARE ADEQUATELY ROOT PRUNED. ON OCCASION WHEN SUFFICIENT ROOT PRUNING TIME IS NOT AVAILABLE, PALMS TO BE RELOCATED MAY HAVE THEIR LEAVES CUT IN HALF OR REMOVED ENTIRELY AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.
- 4.2.2. PALM LEAVES MUST BE TIED UP WITH 2-PLY BIODEGRADABLE TWINE PRIOR TO RELOCATION TO PREVENT MECHANICAL DAMAGE DURING THE RELOCATION PROCESS.
- 4.2.3. PALM TRUNKS SHALL ONLY BE "CLEANED UP" ACCORDING TO THE LANDSCAPE ARCHITECT'S SPECIFICATIONS SPECIFIC TO EACH PALM.

5. RELOCATION SPECIFICATIONS

5.1. GENERAL

- 5.1.1. LANDSCAPE CONTRACTOR TO FLAG ALL PROPOSED PLANT LOCATIONS FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION. NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF 15 DAYS PRIOR TO REVIEW.
- 5.1.2. ALL TREES AND PALMS TO BE RELOCATED MUST BE WATERED DAILY FOR AT LEAST 5 DAYS PRIOR TO ANY RELOCATION TO ENSURE THAT THEY ARE FULLY HYDRATED. EACH WATERING MUST THOROUGHLY SATURATE THE ROOTBALL TO ITS FULL DEPTH.
- 5.1.3. ALL ROOTBALLS MUST BE WRAPPED IN BURLAP AND THEN TIGHTLY WIRE-WRAPPED (USING REDLINE HORSE WIRE OR EQUIVALENT) TO KEEP THE ENTIRE ROOTBALL INTACT DURING RELOCATION. TREES AND PALMS GROWING IN LIMESTONE MUST BE DUG AND RELOCATED WITH THE ROOTS ATTACHED TO A SECTION OF ROCK AS PART OF THE ROOTBALL, SUCH THAT THE ROOTS REMAIN INTACT. ROOTBALLS COMING FROM SAND OR SANDY SOIL MAY ALSO NEED TO BE BOXED PRIOR TO RELOCATION, AT THE DISCRETION OF THE LANDSCAPE ARCHITECT.
- 5.1.4. TREES AND PALMS BEING RELOCATED OFFSITE MUST HAVE THEIR ENTIRE ROOTBALLS THOROUGHLY AND TIGHTLY WRAPPED WITH PLASTIC SHRINK WRAP ON THE OUTSIDE OF THE WIRE WRAP, AND THE ENTIRE TREE OR PALM (INCLUDING CANOPY, TRUNK, AND ROOTBALL) MUST BE COVERED WITH A BREATHABLE TARP (E.G. SHADE CLOTH) DURING TRANSPORT.
- 5.1.5. NEW PLANTING PITS FOR TREES AND PALMS MUST BE PREPARED PRIOR TO LIFTING THE PALM OR TREE FROM ITS CURRENT LOCATION AND MUST BE AT LEAST 3-4 FEET WIDER THAN THE ROOTBALL AND THE SAME DEPTH AS THE ROOTBALL, SUCH THAT THE FINAL ELEVATION OF THE TOP OF THE ROOTBALL IS AT OR SLIGHTLY ABOVE (NO MORE THAN 2" HIGHER) FINAL GRADE.
- 5.1.6. TREES AND PALMS TO BE RELOCATED MUST BE LIFTED BY THE ROOTBALL ONLY, USING APPROPRIATELY SIZED (LENGTH AND STRENGTH) LIFTING STRAPS OR CHAINS. DURING LIFTING, THE TREE OR PALM MUST BE BALANCED IN A MORE-OR-LESS UPRIGHT POSITION, WITH THE STRAP ON THE TRUNK USED ONLY FOR BALANCING AND MANEUVERING THE TREE OR PALM INTO POSITION. NO CHAINS MAY BE USED AROUND OR AGAINST THE TRUNK AT ANY TIME. AT NO TIME SHALL 100% OF THE WEIGHT OF THE TREE OR PALM BE ON THE STRAP ATTACHED TO THE TRUNK. TRUNKS MUST BE HEAVILY PADDED WITH 30-60 LAYERS (DEPENDING ON SIZE AND WEIGHT) OF BURLAP BENEATH THE BALANCING STRAP.
- 5.1.7. TREES AND PALMS MUST BE LIFTED WITH A CRANE OR BACKHOE APPROPRIATELY SIZED FOR THE SIZE AND WEIGHT OF THE TREE OR PALM AND LIFTED OR CARRIED DIRECTLY TO THE FINAL INSTALL LOCATION OR TRANSPORT TRAILER.
- 5.1.8. ONCE LIFTING BEGINS, ANY UNCLIP ROOTS UNDER OR AROUND THE ROOTBALL THAT MAY YET REMAIN MUST BE IMMEDIATELY SEVERED WITH HAND PRUNING TOOLS TO MINIMIZE TEARING AND ROOT DAMAGE.
- 5.1.9. AGRIFORM PLANTING TABLETS (OR APPROVED EQUIVALENT) MUST BE EVENLY DISTRIBUTED AROUND THE PERIMETER OF THE PLANTING PIT AT THE RATE OF 2 TABLETS PER 1" TRUNK CALIPER PRIOR TO BACKFILLING.
- 5.1.10. MYCORRHIZA (ROOTS) TRANSPLANT OR EQUIVALENT) MUST BE INCORPORATED INTO THE BACKFILL SOIL PRIOR TO BACKFILLING.
- 5.1.11. RELOCATED TREES AND PALMS MUST BE CENTERED IN THE PLANTING PIT, AND THE PIT BACKFILLED USING A 1:1 MIXTURE OF EXISTING SOIL AND 80:20 (DOT SAND:MUCK) SOIL MIX THOROUGHLY BLENDED TOGETHER. DO NOT USE MUDDY SOIL AS BACKFILL. (SEE 5.2.2 BELOW FOR SPECIAL CONDITIONS REGARDING DATE PALM BACKFILL SPECIFICATIONS.)
- 5.1.12. SMALL TREES AND PALMS MUST BE FIRMLY BRACED USING A MINIMUM OF FOUR 4' X 4' WOODEN BRACES ATTACHED TO 2' X 4' WOODEN BATTENS HELD IN PLACE WITH TWO STEEL BANDS. LARGER TREES MAY REQUIRE 6' X 6' WOODEN POSTS OR EVEN TELEPHONE POLES TO PROVIDE SUFFICIENT BRACING STRENGTH TO PREVENT TOPPLING DURING WIND EVENTS. A SUFFICIENT NUMBER OF BATTENS MUST BE STRATEGICALLY PLACED AROUND THE TRUNK SUCH THAT THE STEEL BANDS NEVER CONTACT THE TRUNK. NO BURLAP IS TO REMAIN UNDER THE WOODEN BATTENS ON TREES DURING BRACING, BUT SEVERAL LAYERS OF BURLAP SHOULD BE LEFT UNDER THE WOODEN BATTENS WHEN BRACING PALMS. NAILS SHALL NEVER BE DRIVEN DIRECTLY INTO THE TRUNK DURING BRACING. BRACING MUST REMAIN IN PLACE FOR A MINIMUM OF ONE YEAR.
- 5.1.13. A TREE RING WITH A MINIMUM HEIGHT OF 6" MUST BE CONSTRUCTED 6-12" OUTSIDE THE OUTERMOST EDGE OF THE ROOTBALL AND AROUND THE ENTIRE PERIMETER OF THE ROOTBALL TO DIRECT IRRIGATION WATER AND ANY SUPPLEMENTS THAT ARE ADDED DOWN INTO THE ROOTBALL DURING ROOT REGENERATION.
- 5.1.14. ONCE THE TREE RING IS CONSTRUCTED, A HIGH-PHOSPHORUS ROOT STIMULANT MUST BE LIBERALLY APPLIED TO THE SURFACE OF THE ROOTBALL AND THOROUGHLY WATERED IN.
- 5.1.15. ROOTBALLS MUST BE THOROUGHLY WATERED IN USING A HOSE AND A JOHNSON BAR INSERTED TO THE VERY BOTTOM OF THE ROOTBALL AND SWUNG BACK AND FORTH TO PREVENT FORMATION OF AIR POCKETS. THE JOHNSON BAR TECHNIQUE MUST BE REPEATED AT LEAST ONCE MORE WITHIN ONE WEEK AFTER RELOCATION, AND AGAIN IF ANY SIGNS OF STRESS BECOME APPARENT.
- 5.1.16. ORGANIC MULCH (MELAELUCA IS PREFERRED) MUST BE APPLIED WITHIN 48 HOURS OF RELOCATION AT A DEPTH OF 3-4" OVER THE ENTIRE TOP OF THE ROOTBALL FROM THE TREE RING TO WITHIN 6" OF THE TRUNK. MULCH MUST NOT BE APPLIED OR ALLOWED TO ACCUMULATE DIRECTLY AGAINST THE TRUNK.
- 5.1.17. PITS FROM WHICH THE RELOCATED TREES AND PALMS WERE REMOVED MUST BE CLEANED OF ALL RESIDUAL ROOTS, STUMPS, AND PORTIONS THEREOF AND BACKFILLED WITH CLEAN FILL FLUSH WITH THE SURROUNDING GRADE.
- 5.1.18. RESTORE THE SURFACE WITH MATERIAL TO MATCH ADJACENT AREAS. MATERIAL TO BE APPROVED BY LANDSCAPE ARCHITECT. CONTRACTOR TO PROVIDE A MINIMUM OF ONE YEAR WARRANTY ON SETTLING AND PLANT MATERIAL FROM TIME OF SUBSTANTIAL COMPLETION.

5.2. SPECIAL CONDITIONS

- 5.2.1. MULTI-TRUNK TREES AND PALMS MUST BE RELOCATED AS ONE UNIT WITH A SINGLE ROOTBALL.
- 5.2.2. PLANTING PITS FOR EDIBLE DATE PALMS (PHOENIX DACTYLIFERA) MUST BE BACKFILLED WITH PURE DOT SILICA SAND.

6. MAINTENANCE SPECIFICATIONS

6.1. GENERAL

- 6.1.1. ALL RELOCATED TREES AND PALMS MUST BE MAINTAINED FOR ONE YEAR FROM THE DATE OF RELOCATION TO THEIR FINAL LOCATIONS.
 - 6.1.2. CONTRACTOR MUST MAINTAIN ALL RELOCATED TREES AND PALMS FOR ONE FULL YEAR FROM THE DATE OF RELOCATION TO THE FINAL LOCATION.
 - 6.1.3. WHENEVER POSSIBLE, EACH TREE AND PALM MUST BE WATERED BY A PERMANENT AUTOMATIC IRRIGATION SYSTEM FOLLOWING RELOCATION. EACH WATERING MUST THOROUGHLY SATURATE THE ROOTBALL TO ITS FULL DEPTH. THIS WILL REQUIRE 25-50 GALLONS OF WATER FOR SMALL TREES AND PALMS, DEPENDING ON ROOTBALL SIZE. WHILE LARGE TREES WILL REQUIRE A MINIMUM OF 10 GALLONS PER FOOT OF ROOTBALL DIAMETER (I.E. A 10' DIAMETER ROOTBALL WILL REQUIRE A MINIMUM OF 100 GALLONS PER WATERING EVENT), WATERING FREQUENCY MUST BE EVERY DAY FOR THE FIRST TWO WEEKS, EVERY OTHER DAY FOR THE NEXT THREE WEEKS, AND EVERY THIRD DAY FOR THE NEXT 6-8 WEEKS.
 - 6.1.4. WHEN AN AUTOMATIC IRRIGATION SYSTEM IS NOT POSSIBLE, CONTRACTOR IS RESPONSIBLE FOR HAND WATERING RELOCATED TREES AND PALMS THROUGHOUT THE MAINTENANCE PERIOD AND UNTIL FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT AND/OR CLIENT.
 - 6.1.5. IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION, A HIGH-PHOSPHORUS ROOT STIMULANT MUST BE APPLIED TO THE SURFACE OF THE ROOTBALL AT THE RECOMMENDED LABEL RATE AND WATERED IN WITH A DRENCH CONSISTING OF A SYSTEMIC INSECTICIDE AND A CONTACT ROOT FUNGICIDE, FOLLOWING LABEL INSTRUCTIONS, AS INITIAL PREVENTATIVE MAINTENANCE.
 - 6.1.6. EVERY THREE MONTHS THEREAFTER, A HIGH-PHOSPHORUS ROOT STIMULANT MUST BE APPLIED TO THE SURFACE OF THE ROOTBALL AT THE RECOMMENDED LABEL RATE AND WATERED IN WITH A DRENCH CONSISTING OF A SYSTEMIC INSECTICIDE AND A BROAD-SPECTRUM SYSTEMIC FUNGICIDE, FOLLOWING LABEL INSTRUCTIONS, AS CONTINUING PREVENTATIVE MAINTENANCE.
 - 6.1.7. IRRIGATION AND BRACING MUST BE CHECKED AND EACH TREE OR PALM THOROUGHLY INSPECTED FOR SIGNS OF STRESS, DISEASE, OR PEST PROBLEMS ON A MONTHLY BASIS.
- 6.2. SHADE TREES
 - 6.2.1. IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION AND EVERY THREE MONTHS THEREAFTER, A HIGH-QUALITY, SLOW-RELEASE 15-3-15 GRANULAR FERTILIZER MUST BE APPLIED, AT THE RECOMMENDED LABEL RATE, SPREAD EVENLY ACROSS THE SURFACE OF THE ROOTBALL.
 - 6.2.2. FOLIAR FEED FOUR TIMES PER YEAR.
 - 6.3. FLOWERING TREES
 - 6.3.1. IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION AND EVERY THREE MONTHS THEREAFTER, A HIGH-QUALITY, SLOW-RELEASE 5-10-15 GRANULAR FERTILIZER MUST BE APPLIED, AT THE RECOMMENDED LABEL RATE, SPREAD EVENLY ACROSS THE SURFACE OF THE ROOTBALL.
 - 6.3.2. FOLIAR FEED FOUR TIMES PER YEAR.

6.4. PALMS

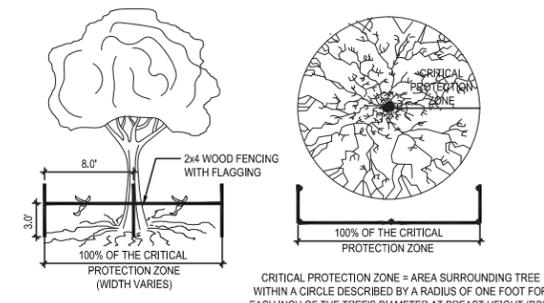
- 6.4.1. STRING MUST BE REMOVED FROM THE TIED UP LEAVES IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION IF THE PALM WAS ROOT PRUNED OR WITHIN 30-45 DAYS AFTER RELOCATION ON THE OCCASION THE LANDSCAPE ARCHITECT APPROVED RELOCATION WITHOUT ROOT PRUNING DUE TO TIME CONSTRAINTS.
- 6.4.2. IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION AND EVERY THREE MONTHS THEREAFTER, A HIGH-QUALITY, SLOW-RELEASE 8-4-12 GRANULAR PALM FERTILIZER WITH MINORS MUST BE APPLIED, AT THE RECOMMENDED LABEL RATE, SPREAD EVENLY ACROSS THE SURFACE OF THE ROOTBALL.
- 6.4.3. FOLIAR FEED SIX TIMES PER YEAR.

7. TREE PROTECTION SPECIFICATIONS

- 7.1. TREE PROTECTION FENCES SHALL BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION ACTIVITY INCLUDING GRUBBING FOR ALL TREES / PALMS TO REMAIN OR BE RELOCATED.
- 7.2. FENCES SHOULD BE OF STURDY CONSTRUCTION, PREFERABLY 4"x4" POSTS WITH WIRE MESH. ORANGE PLASTIC MESH FENCES ARE INEFFECTIVE BECAUSE THEY ARE EASILY REMOVED, DROPPED, KNOCKED DOWN, IGNORED, ETC.
- 7.3. FENCES MUST BE MAINTAINED INTACT UNTIL THE PROJECT IS COMPLETED. THEY SHOULD NOT BE REMOVED OR DROPPED FOR ANY REASON WITHOUT AUTHORIZATION FROM THE CITY'S URBAN FORESTER.
- 7.4. NO ACTIVITY OR DISTURBANCE SHOULD OCCUR WITHIN THE FENCED AREAS, INCLUDING VEHICLE USE, STORAGE OF MATERIALS, DUMPING OF LIQUIDS OR MATERIALS, GRADE CHANGES, GRUBBING, MECHANICAL TRENCHING FOR IRRIGATION, ELECTRICAL LIGHTING, ETC.

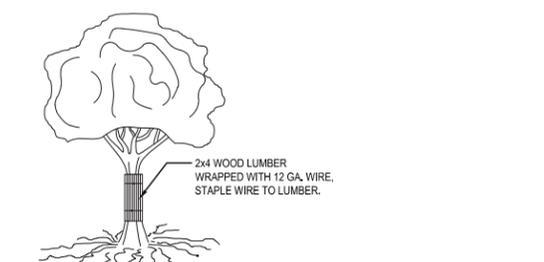
8. WARRANTY

- 8.1. ALL RELOCATED TREES AND PALMS MUST BE GUARANTEED FOR ONE YEAR FROM THE DATE OF RELOCATION TO THEIR FINAL LOCATIONS.
- 8.2. IF A TREE OR PALM DIES WITHIN THE 1-YEAR WARRANTY PERIOD, IT MUST BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.
- 8.3. IF A TREE OR PALM PERFORMS POORLY WITHIN THE 1-YEAR WARRANTY PERIOD, IT MUST BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. THE DECISION TO REPLACE BASED ON POOR HEALTH IS AT THE DISCRETION OF THE LANDSCAPE ARCHITECT.
- 8.4. IF A TREE OR PALM SETTLES TO AN UNHEALTHY DEPTH WITHIN THE 1-YEAR WARRANTY PERIOD, AS DETERMINED BY THE LANDSCAPE ARCHITECT, IT MUST BE RAISED TO THE CORRECT GRADE AT CONTRACTOR'S EXPENSE.



ELEVATION PLAN
CRITICAL PROTECTION ZONE = AREA SURROUNDING TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT (DBH)

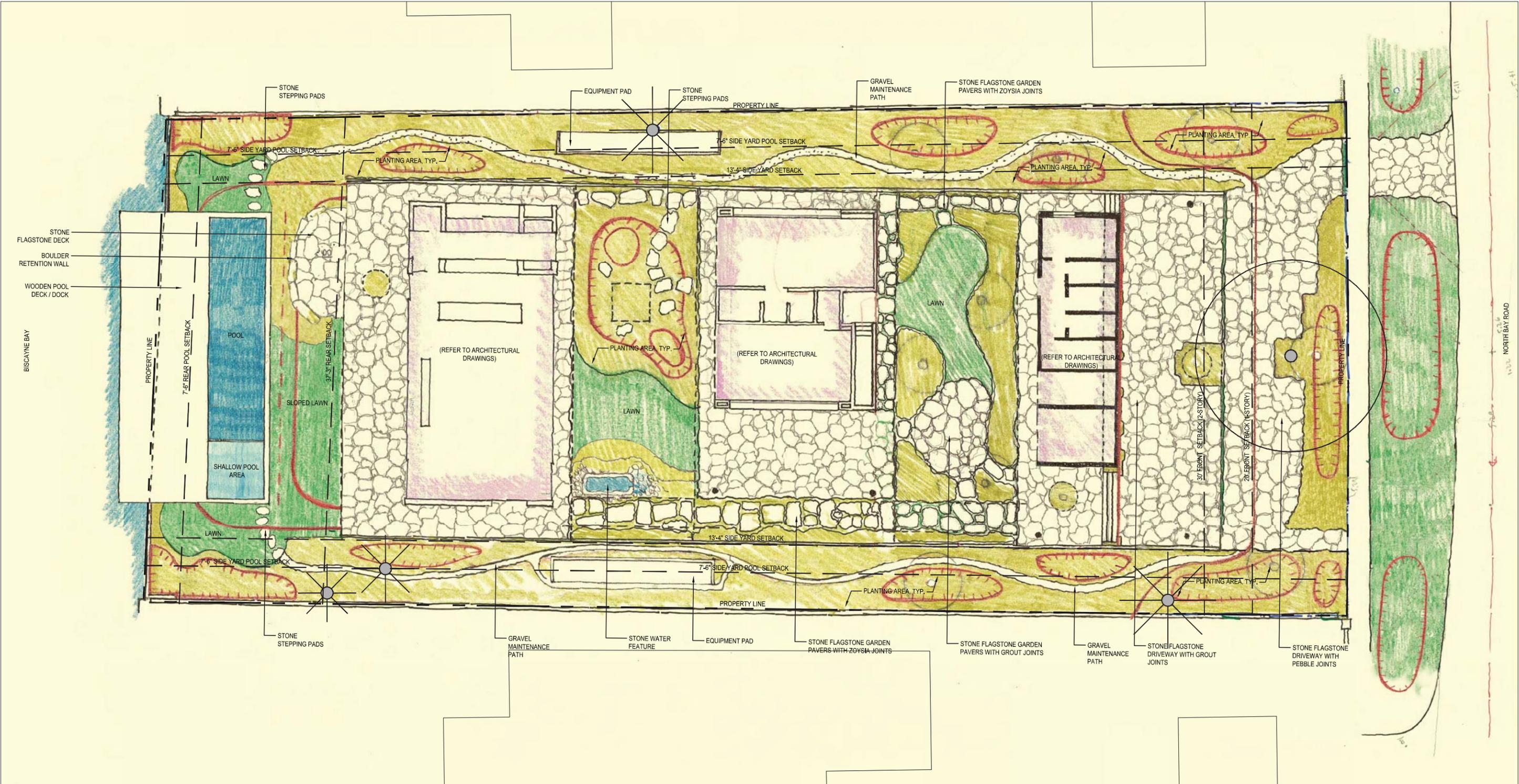
1 TREE BARRICADE DETAIL
SCALE: N/A



2 TREE TRUNK PROTECTION DETAIL
SCALE: N/A

5 TREE DISPOSITION NOTES & DETAILS

Scale: N.T.S.

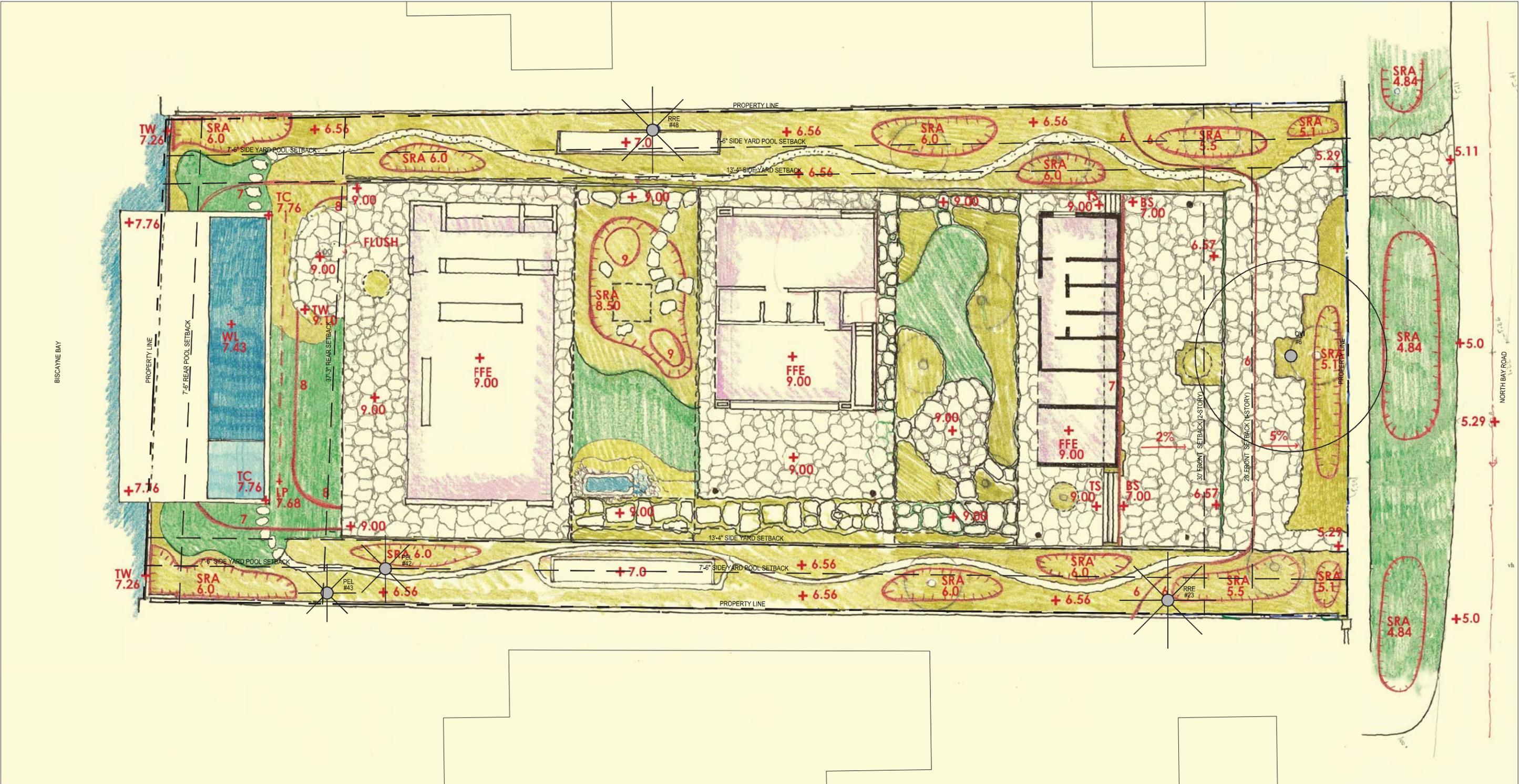


6 HARDSCAPE PLAN
 Scale: 1" = 20'-0"



LEGEND

- SRA SHALLOW RETENTION AREA
- FFE FINISH FLOOR ELEVATION
- TS TOP OF STEP
- BS BOTTOM OF STEP
- TC TOP OF COPING
- TW TOP OF WALL
- WL WATER LEVEL



7

GRADING PLAN

Scale: 1" = 20'-0"



LANDSCAPE ARCHITECT



ARCHITECT OF RECORD

SOW DESIGN STUDIO
ARCHITECTURE | INTERIORS | URBANISM
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DESIGN ARCHITECT:

studio mk27

6300 N. Bay Road
Miami Beach, FL

Date: 11-18-17

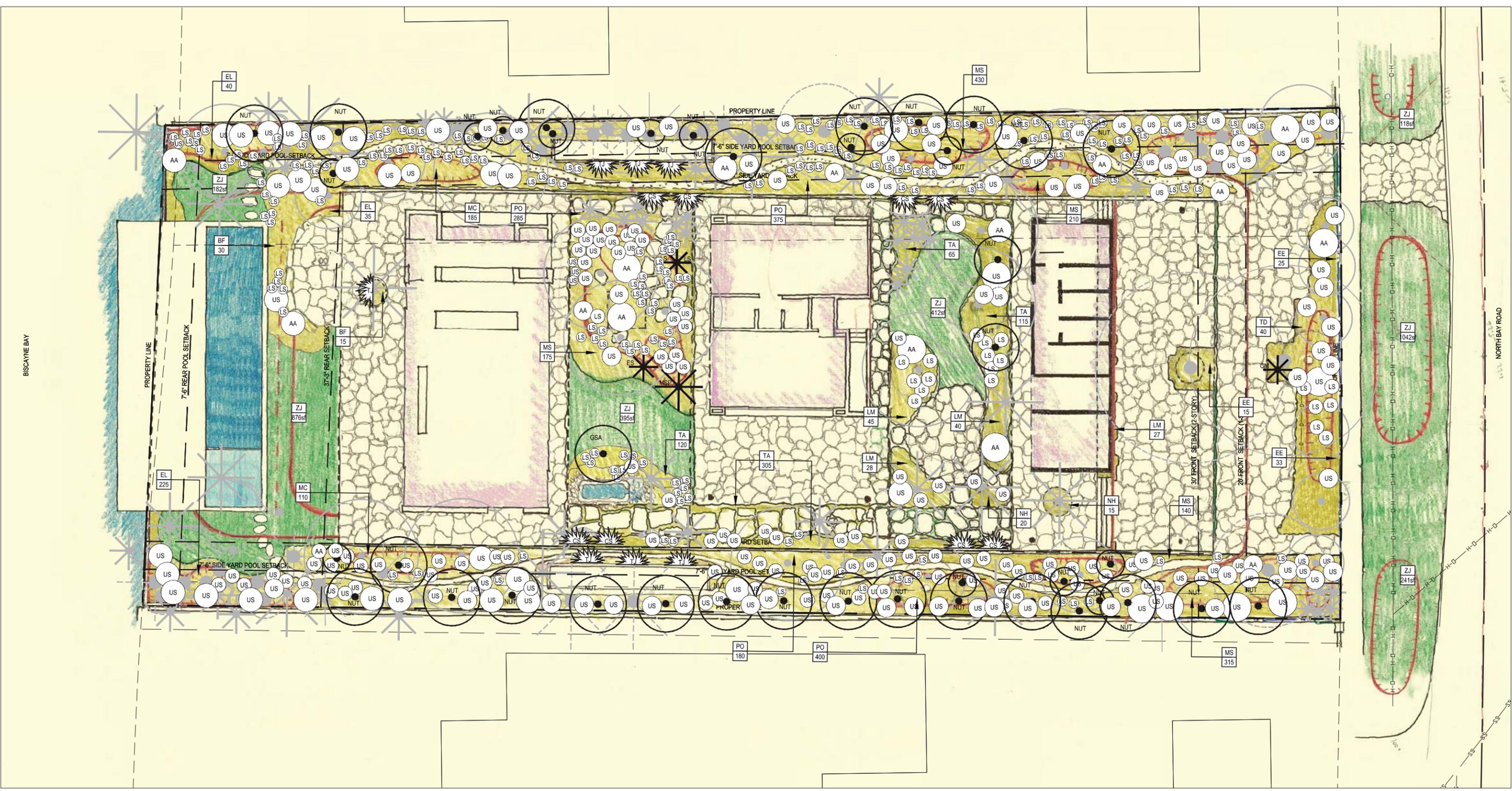
D-906

LEGEND

PROPOSED

PLANTING LABEL: XX → LARGE SHRUB, US

NATIVE UNDERSTORY TREE: NUT, LOW SHRUB: LS



9 UNDERSTORY PLANTING PLAN
 Scale: 1" = 20'-0"



JUNGLES

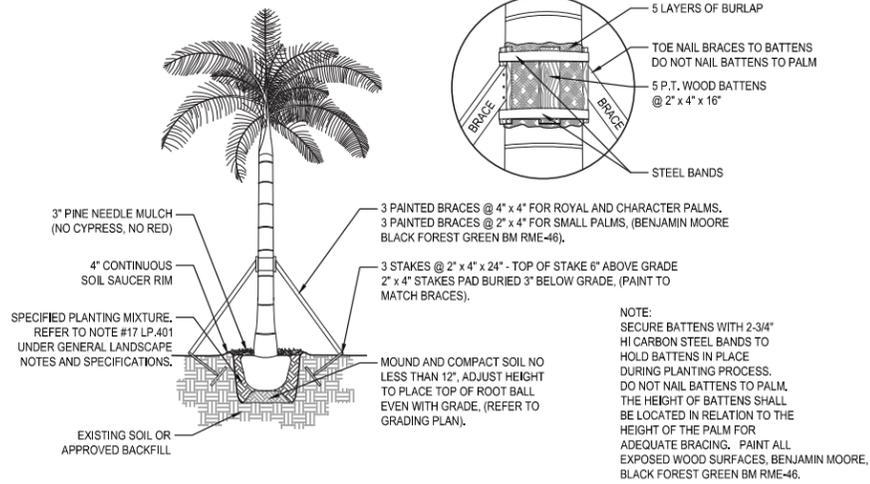
6300 North Bay Road
Miami Beach, FL
15-Nov-17

TREES				
QTY	SYM	Botanical Name	Common Name	Specification
3	BSI	<i>Bursera simaruba</i>	Gumbo Limbo	20'-24' HT. x 16' SP., 18" D.B.H.
5	CFE	<i>Caesalpinia ferrea</i>	Brazilian Ironwood	100 Gal.; 16' HT. x 18' SP.
1	CBA	<i>Cassia bakeriana</i>	Pink Shower Cassia	65 Gal.; 12' HT. x 14' SP.
1	CTO	<i>Chloroleucon tortum</i>	Brazilian Rain Tree	65 Gal.; 12' HT. x 14' SP., Character Branching
4	CRO	<i>Clusia rosea</i>	Autograph Tree	25'-30' HT. x 16' SP., 18" D.B.H., Character Trunks
1	CER	<i>Conocarpus erectus</i>	Green Buttonwood	18'-24' HT. x 16' SP. 12" D.B.H., Character Trunks
1	QVI	<i>Quercus virginiana</i>	Live Oak	30' HT. x 24' SP., 18" D.B.H., Multi Trunk
2	SMA	<i>Swietenia mahagoni</i>	Mahogany	20'-24' HT. x 16' SP.
PALMS				
QTY	SYM	Botanical Name	Common Name	Specification
1	BNO	<i>Bismarkia nobilis</i>	Bismarck Palm	20'-24' HT., 24" D.B.H.
3	CNU	<i>Cocos nucifera</i>	Coconut Palm	30'-35' WD., 12" D.B.H., Curved Trunks
4	CNU	<i>Cocos nucifera</i>	Coconut Palm	21'-23' WD., Curved Trunks
1	CUM	<i>Corypha umbraculifera</i>	Talipot Palm	16'-18' C.T. 36" D.B.H., Specimen
1	DCA	<i>Dypsis cabadae</i>	Cabada Palm	20'-24' HT., 11 Trunks, Specimen
5	HEL	<i>Heterospatha elata</i>	Sagisi Palm	16-18' HT. x 16' SP.
1	LRO	<i>Livistona robinsoniana</i>	Same	14'-16' WD., 12" D.B.H.
1	RMA	<i>Ravenala madagascariensis</i>	Travelers Tree	16'-18' HT. x 16' SP.
1	RRE	<i>Roystonea regia</i>	Royal Palm	30' GW., 30" D.B.H.
2	SCA	<i>Sabal causarium</i>	Puerto Rican Hat Palm	25'-30' WD., 30" D.B.H., Specimen
6	SDO	<i>Sabal domingensis</i>	Dominican Sabal Palm	10'-25' WD., 30" D.B.H., Staggered Heights
13	SPA	<i>Sabal palmetto</i>	Sabal Palm	25'-37' WD
6	SLI	<i>Satakenia liukuensis</i>	Same	9' WD.
7	TRA	<i>Thrinax radiata</i>	Florida Thatch Palm	18'-24' HT., 7 Trunk Cluster, Specimens
UNDERSTORY TREES / LARGE SHRUBS				
QTY	SYM	Botanical Name	Common Name	Specification
40	NUT	T.B.D.	Native Understory Trees / Large Shrubs	To be selected from list below
	CUV	<i>Coccoloba uvifera</i>	Sea Grape	65 Gal.; 12' HT. x 14' SP., Bush Form
	CER	<i>Conocarpus erectus</i>	Green Buttonwood	65 Gal.; 16' HT.
	CES	<i>Conocarpus erectus 'Sericeus'</i>	Silver Buttonwood	12'-14' HT. x 8' SPR., Multi Trunk
	EBE	<i>Ebenopsis ebano</i>	Texas Ebony	12'-14' HT. x 8' SPR.
1	GS	<i>Guaiaicum officinale</i>	Lignum Vitae	45 Gal., Multi Trunk
	GSA	<i>Guaiaicum sanctum</i>	Native Lignum Vitae	Field grown, 10' HT. x 10' SP., Specimen
	GLU	<i>Gymnanthes lucida</i>	Crabwood	25 Gal., 7'-8' HT. x 4'-5' SP.
1	MS	<i>Musa sp.</i>	Banana	15 Gal.
10	MF	<i>Myrcianthes fragrans</i>	Simpson Stopper	14'-16' HT. x 8' SP., Multi Trunk, each @ 3" D.B.H.
	PRA	<i>Pimenta racemosa</i>	Bay Rum	25 Gal.; 8'-10' HT. x 4'-5' SP.
UNDERSTORY SHRUBS				
QTY	SYM	Botanical Name	Common Name	Specification
233	US	T.B.D.	Understory Shrub	To be selected from list below
	AE	<i>Ardisia escalloniaoides</i>	Marlberry	7 Gal.; 6' Ht. x 4' SP.
	CW	<i>Canella winterana</i>	Cinnamon Bark	25 Gal., 8'-10' HT x 4'-5' SP.
	CY	<i>Capparis cynophallophora</i>	Jamaica Caper	100 Gal.; 10' HT. x 8' SP.
	CC	<i>Capparis cynophallophora</i>	Jamaica Caper	25 Gal.; 4'-6' HT. x 3'-4' SP.
	GC	<i>Genipa clusiifolia</i>	Seven-Year Apple	7 gal.; 4' HT.; Bush
	PL	<i>Psychotria ligustrifolia</i>	Dwarf Wild Coffee	7 Gal.; 3' HT. x 3' SP.
	SM	<i>Suriana maritima</i>	Bay Cedar	15 Gal.; 4'-6' HT. x 3'-4' SP.

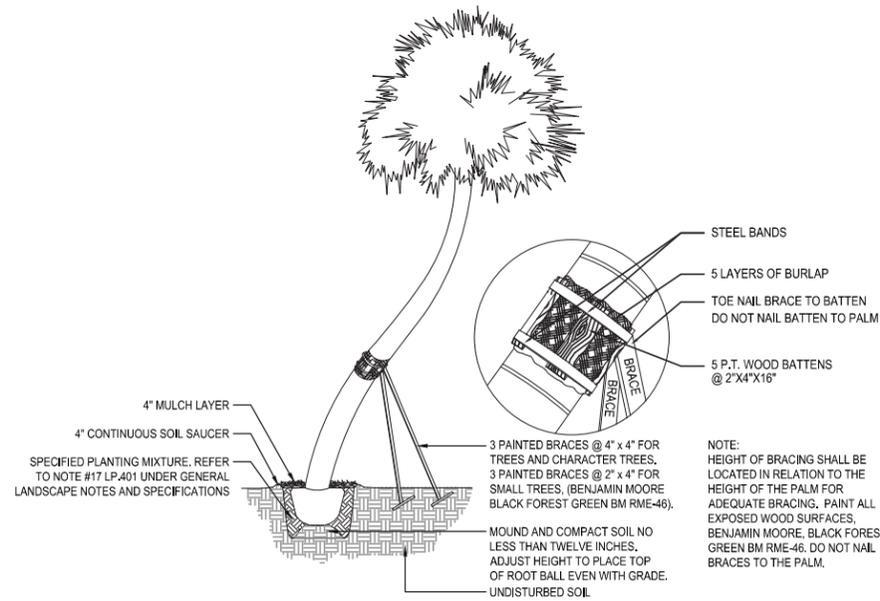
UNDERSTORY SHRUBS				
QTY	SYM	Botanical Name	Common Name	Specification
244	LS	T.B.D.	Low Shrub	To be selected from list below
	AP	<i>Alpinia purpurata</i>	Red Ginger	3 Gal., Full
	AC	<i>Asclepias curassavica</i>	Tropical Milkweed	3 Gal., Full
	BH	<i>Baccharis halimifolia</i>	Dwarf Salt Bush	3 Gal., Full
	BC	<i>Bouyeria cassinifolia</i>	Little Strongbark	3 Gal., Full
	CA	<i>Callicarpa americana</i>	American Beautyberry	3 Gal., Full
	CM	<i>Carissa macrocarpa</i>	Natal Plum	3 Gal., 12" x 12", Full
	CO	<i>Cephalanthus occidentalis</i>	Buttonbush	3 Gal., Full
	CI	<i>Chrysobalanus icaco 'Horizontalis'</i>	Horizontal Cocoplum	7 Gal., 24" x 24", Full
	CR	<i>Clusia rosea 'Nana'</i>	Dwarf Pitch Apple	7 Gal., 24" x 24", Full
	LI	<i>Lantana involucrata</i>	Buttonsage	3 Gal., 10" HT., Full
	MT	<i>Melochia tomentosa</i>	Pyramid Bush	3 Gal., 18" x 18", Full
	PG	<i>Philodendron 'Green Congo'</i>	Same	3 Gal., 18" x 18", Full
	PL	<i>Psychotria ligustrifolia</i>	Bahama Wild Coffee	7 Gal., 30" HT., Full
	LP	<i>Psychotria nervosa 'Little Psycho'</i>	Little Psycho Wild Coffee	7 Gal., 30" HT., Full
	SPL	<i>Scaevola plumeri</i>	Inkberry	3 Gal., Full
ACCENTS				
QTY	SYM	Botanical Name	Common Name	Specification
16	AA	\$10,000 Misc. Accent Plant Allowance (Plants to be selected by Landscape Architect)		
	ME	<i>Megaskepasma erythrochlamys</i>	Brazilian Red Cloak	7 Gal., 4'x4'
	AI	<i>Alcantarea imperialis</i>	Imperial Bromeliad	7 Gal., 18" x 18"
1	CM	<i>Ceratozamia mexicana</i>	Mexican Horn Palm	6'x6'
	ES	<i>Encephalartos sp.</i>	Cycad	45 Gal., Specimen
	MD	<i>Monstera deliciosa</i>	Ceriman	15 Gal., Mature leaves, 3'x3'
	PB	<i>Philodendron 'Burle Marx'</i>	Same	3 Gal., 18"x18"
	PR	<i>Philodendron 'Rojo Congo'</i>	Same	7 Gal., 3'x3'
	PW	<i>Philodendron wilsonii</i>	Same	15 Gal., 4'x4'
	PJ	<i>Portea 'Jungles'</i>	Same	7 Gal., 18"x18"
	ZP	<i>Zamia pumila</i>	Coontie	7 Gal., 2'x2'
GRASSES				
QTY	SYM	Botanical Name	Common Name	Specification
175	EE	<i>Eragrostis eliottii</i>	Silver Elliot's Lovegrass	1 Gal., 18" O.C.
295	MC	<i>Muhlenbergia capillaris</i>	Muhly Grass	3 Gal. @ 18" O.C., 18" HT., Full,
40	TD	<i>Tripsacum dactyloides</i>	Fakahatchee Grass	3 Gal., 3' x 3'
GROUNDCOVERS				
QTY	SYM	Botanical Name	Common Name	Specification
45	BF	<i>Bulbine frutescens 'Orange'</i>	Desert Candles	1 Gal., 12" O.C.
190	EL	<i>Ernodea littoralis</i>	Golden Creeper	3 Gal., 24" O.C.
140	LM	<i>Liriope muscari 'Super Blue'</i>	Lilyturf 'Super Blue'	3 Gal., 18" O.C.
1270	MS	<i>Microsorium scolopendrium</i>	Wart Fern	3 Gal., 18" O.C.
35	NH	<i>Neoregelia 'Hanibal Lector'</i>	Same	1 Gal., 9" O.C.
1240	PO	<i>Peperomia obtusifolia</i>	Baby Rubber Plant	1 Gal., 9" O.C.
605	TA	<i>Trachelospermum asiaticum 'Minima'</i>	Small-leaf Jasmine	1 Gal., 12" O.C.
VINES				
QTY	SYM	Botanical Name	Common Name	Specification
8	CS	<i>Clerodendron splendens</i>	Flaming Glory	7 Gal.
7	TJ	<i>Trachelospermum jasminoides</i>	Confederate Jasmine	7 Gal.
SOD				
QTY	SYM	Botanical Name	Common Name	Specification
3419 SF	ZJ	<i>Zoysia japonica 'Empire'</i>	Empire Zoysia	Solid Sod, Quantity is listed in sf for reference only. Contractor to verify in field.

- Landscape Architect to select/tag and approve all plant materials.
- The Landscape Contractor shall provide unit cost bids for all plant material specified on the plant list. The unit cost should be an all-inclusive price to pick-up, deliver, and install each unit.
- The Landscape Contractor shall provide photographs of all trees and palms for the Landscape Architect's approval. Photographs should be submitted at time of bid.
- The Landscape Contractor shall coordinate the landscape installation with the Landscape Architect at least one month prior to the install date.
- Landscape architects to locate & select all plant materials. Will accept equal or better substitutes.
- All plants are to be laid out on site by the Landscape Architect.

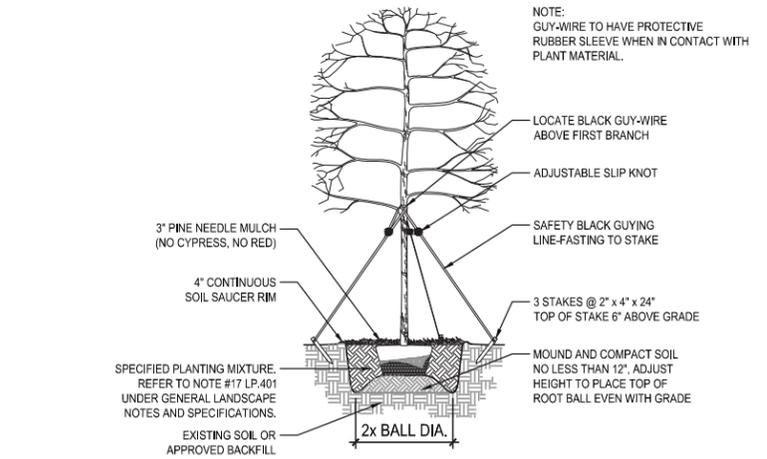




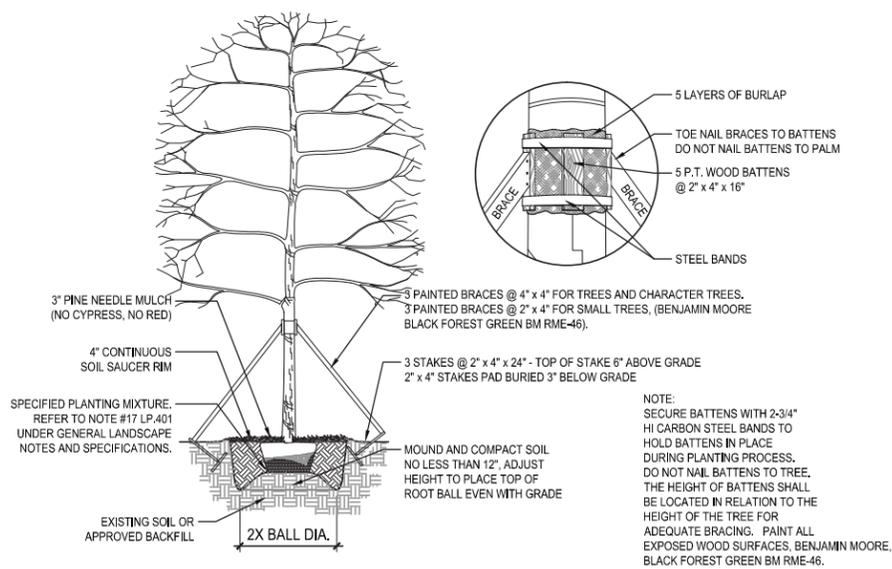
1 PALM PLANTING AND STAKING DETAIL
SCALE: NTS



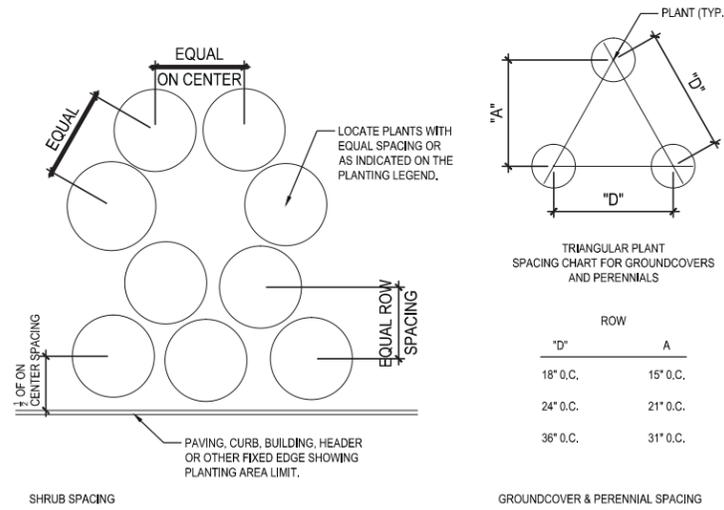
2 CHARACTER PALM PLANTING AND STAKING DETAIL
SCALE: NTS



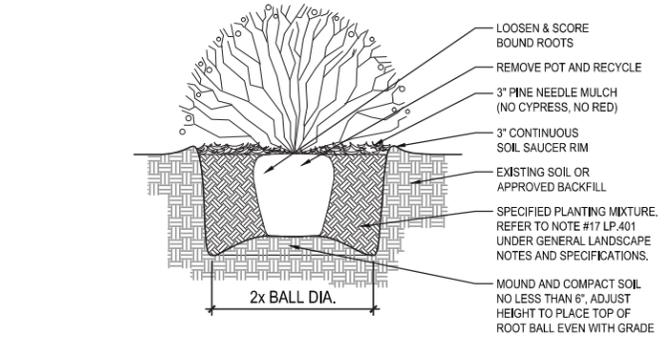
3 UNDERSTORY TREE PLANTING AND STAKING DETAIL
SCALE: NTS



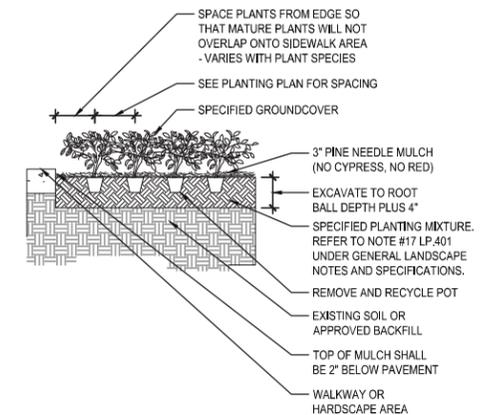
4 TREE PLANTING AND STAKING DETAIL
SCALE: NTS



5 PLANT & SHRUB SPACING DETAIL
SCALE: NTS



6 SHRUB PLANTING DETAIL
SCALE: NTS



7 GROUND COVER PLANTING DETAIL
SCALE: NTS

11 PLANTING DETAILS
Scale: N.T.S.



GENERAL LANDSCAPE NOTES AND SPECIFICATIONS

- LANDSCAPE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SCOPE OF WORK AS WELL AS THE SITE, DIGGING CONDITIONS, AND ANY OBSTACLES PRIOR TO SUBMITTING A BID.
- LANDSCAPE CONTRACTOR SHALL PROVIDE AN INSTALLATION SCHEDULE TO THE GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.
- LANDSCAPE CONTRACTOR SHOULD VERIFY ALL ESTIMATED QUANTITIES OF MATERIAL SHOWN ON THE LANDSCAPE ARCHITECT'S DRAWINGS PRIOR TO SUBMITTING A BID.
- PLANT LIST SHALL TAKE PRECEDENCE OVER PLANTING PLAN IN CASE OF DISCREPANCIES.
- ALL PLANT MATERIAL SYMBOLS SHOWN ON LANDSCAPE PLANS SHALL BE CONSIDERED DIAGRAMMATIC AND SHOULD BE ADJUSTED IN THE FIELD BY LANDSCAPE CONTRACTOR TO AVOID ALL UTILITIES AND ALL OTHER OBSTRUCTIONS, AFTER CONSULTING THE LANDSCAPE ARCHITECT.
- ALL SIZES SPECIFIED FOR PLANT MATERIAL ON THE PLAN AND PLANT LIST SHALL BE CONSIDERED MINIMUM.
- ALL PLANT MATERIAL MUST MEET OR EXCEED THE SPECIFIED MINIMUM REQUIREMENTS FOR BOTH HEIGHT AND SPREAD.
- ANY SPECIFIC REQUIREMENTS SUCH AS SPECIFIC SHAPE, CHARACTER, NUMBER OF TREE TRUNKS, PLANT SOURCE, TRANSPORTING, AND OR SPECIAL BRACING NOTED ON THE PLAN OR PLANT LIST, WILL REQUIRE APPROVAL AND OR COORDINATION WITH THE LANDSCAPE ARCHITECT.
- NO CHANGE OR SUBSTITUTION SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT. ANY REVISION OR MODIFICATIONS TO THE LANDSCAPE PLAN MUST HAVE PRIOR APPROVAL BY THE THE LANDSCAPE ARCHITECT & OWNER
- ALL MATERIAL SHALL BE SUBJECT TO AVAILABILITY AT TIME OF INSTALLATION. SUBSTITUTIONS MAY BE MADE AFTER CONSULTATION WITH THE LANDSCAPE ARCHITECT.
- ALL TREES, PALMS, SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE.
- CHANGES MAY OCCUR DURING THE NORMAL COURSE OF IMPLEMENTATION. VERBAL CHANGE ORDERS WILL NOT BE HONORED. ANY CHANGES MUST BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING AS A CHANGE ORDER TO BE REVIEWED AND APPROVED IN WRITING BY OWNER/CLIENT.
- LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY ALL UNDERGROUND UTILITIES OR STRUCTURES PRIOR TO DIGGING. LANDSCAPE CONTRACTOR SHALL REPAIR ALL DAMAGES TO UNDERGROUND UTILITIES, AND OR CONSTRUCTION CAUSED BY LANDSCAPE INSTALLATION, AT NO COST TO THE OWNER.
- LANDSCAPE CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, THE REMOVAL OF ALL BUILDING CONSTRUCTION DEBRIS AND FOREIGN MATERIAL PRIOR TO INSTALLATION OF ANY PLANT MATERIAL.
- SITE PREPARATION SHOULD INCLUDE THE ERADICATION AND REMOVAL OF ANY WEEDS OR GRASS, REMOVAL AND CLEAN UP OF ANY DEAD MATERIAL AND ROUGH AND FINISH GRADING PER SPECS AND OR LANDSCAPE PLANS.
- FOR PLANT MATERIAL DESIGNATED TO BE REMOVED, THE ENTIRE ROOT SYSTEM SHALL BE DUG AND REMOVED FROM THE SITE.
- ALL PLANTING AREAS SHALL BE EXCAVATED TO A MINIMUM OF 3' FOR GROUNDCOVERS AND MORE THAN 3' FOR SHRUBS, TREES, AND PALMS, AND SHOULD RECEIVE A SPECIFIED PLANTING SOIL MIXTURE. PLANTING SOIL SHALL BE 70% COARSE SAND, 20% FLORIDA PEAT, AND 10% PINE BARK AS MANUFACTURED BY ATLAS PEAT & SOIL OR APPROVED EQUAL. CONTRACTOR TO SUBMIT PLANTING SOIL SAMPLE FOR LANDSCAPE ARCHITECT'S APPROVAL.
- ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTERAS SET FORTH IN THE FLORIDA DEPARTMENT OF AGRICULTURE 'GRADES AND STANDARDS FOR NURSERY PLANTS' SECOND EDITION FEB. 1998 INCLUDING REVISIONS AND WHICH MEET OR EXCEED THE SIZES INDICATED IN THE PLANTING SCHEDULE AND DETAILS.
- ALL TREES SHALL BE STAKED IN A GOOD WORKMANLIKE MANNER. NO NAIL STAKING PERMITTED. (REFER TO BRACING NOTES AND PLANTING DETAILS)
- AFTER REMOVAL OR RELOCATION OF EXISTING TREES AND PALMS, ALL REMAINING HOLES SHALL BE BACK FILLED AROUND AND UNDER ROOT BALL WITH WASHED BEACH SAND. SOD DISTURBED AREA, IF REQUIRED, ALL SHRUB BEDS TO BE INSTALLED WITH WASHED BEACH SAND. (SEE SPEC)
- ALL TREES, PALMS, SHRUBS AND GROUND COVER PLANTS SHALL BE FERTILIZED AT INSTALLATION, WITH LONG LASTING FERTILIZER, ACCORDING TO MANUFACTURERS' RECOMMENDATIONS AND BASED ON SOIL TESTS OF EXISTING ON-SITE SOILS.
- ALL EXISTING PLANT MATERIAL TO REMAIN, SHALL BE PROTECTED DURING ALL CONSTRUCTION PHASES. ANY PLANT MATERIAL SCARRED OR DESTROYED DESIGNATED TO REMAIN MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH SIMILAR SPECIES SIZE AND QUALITY.
- ALL TREES ON SOD AREA SHALL RECEIVE A HARDWOOD / PINE NEEDLE MULCH MIX RING 2' IN DIAMETER TYPICAL. MULCH TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE AND/OR INSTALLATION.
- ALL PLANTING AREAS SHALL BE MULCHED WITH SHREDDED ORGANIC MULCH TO A MINIMUM OF 3"; WITH THE EXCEPTION OF BEACH PLANTING. DO NOT USE CYPRESS OR RED MULCH.
- ALL TREES SHALL HAVE 2" CALIPER AT D.B.H. MINIMUM FOR A 10' HEIGHT TREE, UNLESS NOTED OTHERWISE.
- ALL 1 GALLON MATERIAL SHALL HAVE 12" SPREAD MINIMUM, ALL 3 GALLON MATERIAL TO HAVE 20-24" SPREAD MINIMUM.
- ALL PLANTING AREAS WITHIN THE LIMITS OF WORK SHALL RECEIVE 100% COVERAGE BY AUTOMATIC IRRIGATION SYSTEM (DRIP PREFERRED) UNLESS OTHERWISE DIRECTED BY OWNER. SEE IRRIGATION PLANS FOR ADDITIONAL SPECIFICATIONS.

- LANDSCAPE CONTRACTOR TO COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH IRRIGATION CONTRACTOR. IRRIGATION TIME CLOCK TO BE HARD WIRED ON COMPLETION - RESPONSIBILITY OF IRRIGATION CONTRACTOR. LANDSCAPE CONTRACTOR SHALL HAND WATER OR ARRANGE FOR WATERING DURING PLANTING UNTIL IRRIGATION SYSTEM IS 100% OPERABLE. THIS IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER APPROPRIATE CONTRACTORS.
- THE LANDSCAPE CONTRACTOR SHALL AT ALL TIMES KEEP THE JOB SITE CLEAN AND FREE FROM ACCUMULATION OF WASTE MATERIAL, DEBRIS, AND RUBBISH.
- LANDSCAPE PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL CODES.
- ON-SITE LAYOUT OF PLANT MATERIAL SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT AT THE TIME OF INSTALLATION.
- ALL PLANTS, MATERIALS, WORKMANSHIP, AND INVOICE APPROVAL ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- CONTRACTOR TO FLAG ALL PROPOSED TREE AND PALM LOCATIONS FOR OWNER AND LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO EXCAVATION OR INSTALLATION. PLAN LOCATIONS ARE SUBJECT TO FIELD ADJUSTMENTS BY THE LANDSCAPE ARCHITECT.
- LANDSCAPE ARCHITECT TO APPROVE ALL SHRUB AND GROUNDCOVER PLANTING LOCATION AND LAYOUT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PROVIDE DIGITAL PHOTOGRAPHIC DOCUMENTATION DURING INSTALLATION FOR LANDSCAPE ARCHITECT'S REVIEW, DAILEY.
- LANDSCAPE CONTRACTOR TO INSURE ALL PLANT MATERIAL IS INSTALLED AT THE CORRECT ELEVATION, REFER TO GRADING PLAN.
- THE LANDSCAPE CONTRACTOR SHALL MAINTAIN OR COORDINATE WITH THE IRRIGATION CONTRACTOR AND LANDSCAPING MAINTENANCE SERVICES ALL PLANTING INCLUDING WATERING, MOWING, MULCHING, WEED, AND PEST CONTROL UNTIL FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT AND OWNER.
- THE AWARDED LANDSCAPE CONTRACTOR SHALL SUBMIT A PROPOSED BID / CONTRACT WITH PRICING FOR ALL PLANT MATERIAL INCLUDING (WARRANTY, LABOR, TRANSPORTATION, RELOCATION, SITE MAINTENANCE AND PREPARATION) AS PER THE LANDSCAPE ARCHITECT'S SPECIFICATIONS AND OR PLANTING PLANS.
- THE LANDSCAPE CONTRACTOR'S CONTRACT SHALL ACKNOWLEDGE ALL TERMS AND CONDITIONS SET FORTH UNDER THESE GENERAL LANDSCAPE NOTES AND SPECIFICATIONS.
- THESE DRAWINGS, DOCUMENTS, AND ALL CONTENTS ARE THE PROPERTY OF RAYMOND JUNGLES, INC. ALL RIGHTS ARE RESERVED. UNAUTHORIZED USE OR PRODUCTION, IN PART OR WHOLE, FOR ANY PURPOSE IS UNLAWFUL AND PROHIBITED EXCEPT BY EXPRESS WRITTEN CONSENT.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY PERMITS OR APPROVALS FROM THE FEDERAL, STATE OR LOCAL GOVERNMENT REQUIRED FOR THE WORK INCLUDED IN THIS CONTRACT AND ON THESE DRAWINGS.
- PLANT SHRUBS IN CIRCULAR PITS WITH A DIAMETER 16" GREATER THAN ROOTBALL OR CONTAINER. PLANT TREES IN CIRCULAR PITS WITH A DIAMETER 36" GREATER THAN ROOTBALL OR CONTAINER., PLACE PLANTS WITH BEST "FACE" FORWARD.
- BACKFILL ALL PLANTING PITS WITH THE FOLLOWING MIXTURE : ½ ONSITE SOIL ¼ CLEAN FRIABLE TOPSOIL. SUBMIT TOPSOIL SAMPLE AND SOIL TEST ANALYSIS FOR APPROVAL BY LANDSCAPE ARCHITECT, (SEE PLANTING DETAILS). REMOVE EXCESS SOIL EXCAVATED FROM PLANT PIT FROM THE SITE OR DISTRIBUTE ON-SITE AS DIRECTED BY L.A.
- VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED IN THE PLAN. PROVIDE COMPOSITE UNIT PRICES FOR EACH PLANT, WHICH INCLUDE ALL OTHER INCIDENTAL MATERIALS. (I.E. MULCH, FERTILIZER, TOPSOIL, LABOR, ETC.)
- NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF ANY UNFORESEEN CONDITIONS, I.E., COMPACTED SOIL / SUBGRADE, POOR DRAINAGE, UNCONSOLIDATED SOIL, EROSION, UTILITY CONFLICTS, EXCESSIVE SUN OR SHADE, ETC., PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION.
- ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER.
- ALL PLANTING AREAS TO RECEIVE 100% COVERAGE FROM AN AUTOMATIC IRRIGATION SYSTEM. IRRIGATION SYSTEM TO COMPLY WITH CITY OF MIAMI BEACH CODE REQUIREMENTS.

GENERAL TREE BRACING NOTES AND SPECIFICATIONS:

TREES AND PALMS GREATER THAN 6" DBH TO BE BRACED WITH PROPS:

- CHOOSE THE CORRECT SIZE, LENGTH, AND NUMBER OF PROPS TO BE USED (PRESSURE TREATED (PT), TIMBER BAMBOO (GUADUA ANGUSTIFOLIA) 3" DIA.).
- ALL (PRESSURE TREATED (PT) 2"x4", 4"x4"). STAKES SHALL BE PAINTED AS SPECIFIED BY THE LANDSCAPE ARCHITECT. WRAP AT LEAST 5 LAYERS OF BURLAP AROUND TRUNK OF THE PALM AT LEAST 4 INCHES WIDER THAN THE BATTENS BEING USED. BATTENS SHOULD BE MOUNTED AT A POINT 1/3 OF THE DISTANCE FROM GROUND TO THE CLEAR TRUNK OF THE TREE OR PALM, BUT NOT LESS THAN 4 FEET, WHICHEVER IS GREATER.
- SELECT THE PROPER LENGTH AND SIZE OF BATTENS (PT 2"x4"x12'-16")
- USE THE SAME NUMBER OF BATTENS AS PROPS BEING USED.
- PLACE THE BATTENS VERTICALLY AND EVENLY SPACED AGAINST THE BURLAP.
- SECURE THE BATTENS IN PLACE WITH METAL OR PLASTIC BANDING STRAPS. DO NOT NAIL TREE.
- WEDGE LOWER END OF PROP INTO SOIL AND SECURE WITH A 2"x4"x30" STAKE. PROPS SHOULD BE INSTALLED AT A 30 TO 40 DEGREE ANGLE FROM THE BATTENS AND OF SUFFICIENT LENGTH TO REACH THE GROUND. NOTE: ON STRAIGHT TREES OR PALMS OR TREES, SPACE PROPS EQUAL DISTANCE. AROUND TREE OR PALM ON CURVED (CHARACTER) PALMS OR TREES, SPACE PROPS AGAINST THE FRONT OF THE CURVE OF THE PALM.
- CUT A SMOOTH ANGLE AT THE END OF THE PROPS. ALIGN WITH AND NAIL INTO BATTENS. DO NOT PENETRATE TREE OR PALM WITH NAILS.
- IF IT APPEARS THAT ADDITIONAL CONSTRUCTION WORK WILL TAKE PLACE NEAR TO OR IN THE VICINITY OF THE NEWLY BRACED TREES OR PALMS, THEN PROPS ARE TO BE CLEARLY LABELED WITH THE STATEMENT, "DO NOT REMOVE."
- PROPS ARE NOT TO BE REMOVED UNTIL APPROVED BY THE LANDSCAPE CONTRACTOR.

TREES AND PALMS LESS THAN 6" DBH TO BE BRACED BY GUYING:

- CHOOSE THE CORRECT SIZE AND NUMBER OF STAKES AND SIZE OF SLEEVE AND WIRE. GUYING SHALL BE COMPLETED WITHIN 48 HOURS OF PLANTING THE TREE.
- CUT LENGTHS OF STAKING SLEEVE TO EXTEND 2 INCHES PAST TREE TRUNK WHEN WRAPPING AROUND.
- SPACE STAKES EVENLY ON OUTSIDE OF WATER RING AND DRIVE EACH FIRMLY INTO THE GROUND. STAKES SHOULD BE DRIVEN AT A 30 DEGREE ANGLE WITH THE POINT OF THE STAKE TOWARD THE TREE UNTIL 4 TO 5 INCHES ARE LEFT SHOWING.
- PLACE THE SLEEVE AROUND THE TRUNK JUST ABOVE THE LOWEST BRANCH.
- THREAD THE WIRE THROUGH THE SLEEVE AND PAST THE STAKE, ALLOWING APPROXIMATELY 2 FEET OF EACH OF THE TWO ENDS BEYOND THE STAKE BEFORE CUTTING THE WIRE.
- TWIST WIRE AT RUBBER SLEEVE TO KEEP IT IN PLACE
- PULL WIRE DOWN AND WIND BOTH ENDS AROUND STAKE TWICE. TWIST WIRE BACK ONTO ITSELF TO SECURE IT BEFORE CUTTING OFF THE EXCESS.
- THE ABOVE PROCEDURES ARE TO BE FOLLOWED FOR EACH STAKE, KEEPING THE TREE STRAIGHT AT ALL TIMES.
- THERE SHOULD BE A 1 TO 3 INCH SWAY IN THE TREE (THE WIRES SHOULD NOT BE PULLED TIGHT) FOR BEST ESTABLISHMENT.
- FLAG THE GUY WIRES WITH SURVEYOR'S FLAGGING OR APPROVED EQUAL FOR SAFETY.
- ANY WIRES ARE NOT TO BE REMOVED UNTIL APPROVED BY LANDSCAPE ARCHITECT.

