

NOTES:  
 -ALL TREES UNDER THIS REVISION TO BE REMOVED AS PER DETAILED REQUESTS BY THE MIAMI DADE COUNTY, RER TREE DIVISION PROGRAM.

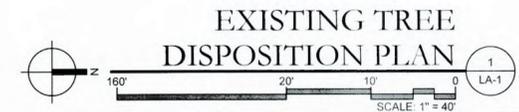
Nr.	DATE	REVISION	BY
1	04/2013	SITE	TKS
2	02/2014	SITE	TKS
4	08/2014	COMMENTS	TKS
5	11/2015	TREE	TKS
6	01/2016	TREE	TKS

DATE	APPROVED BY
AD: [Signature]	[Signature]
DATE: [Signature]	[Signature]
JAN 04 2016	BY: SHOWN



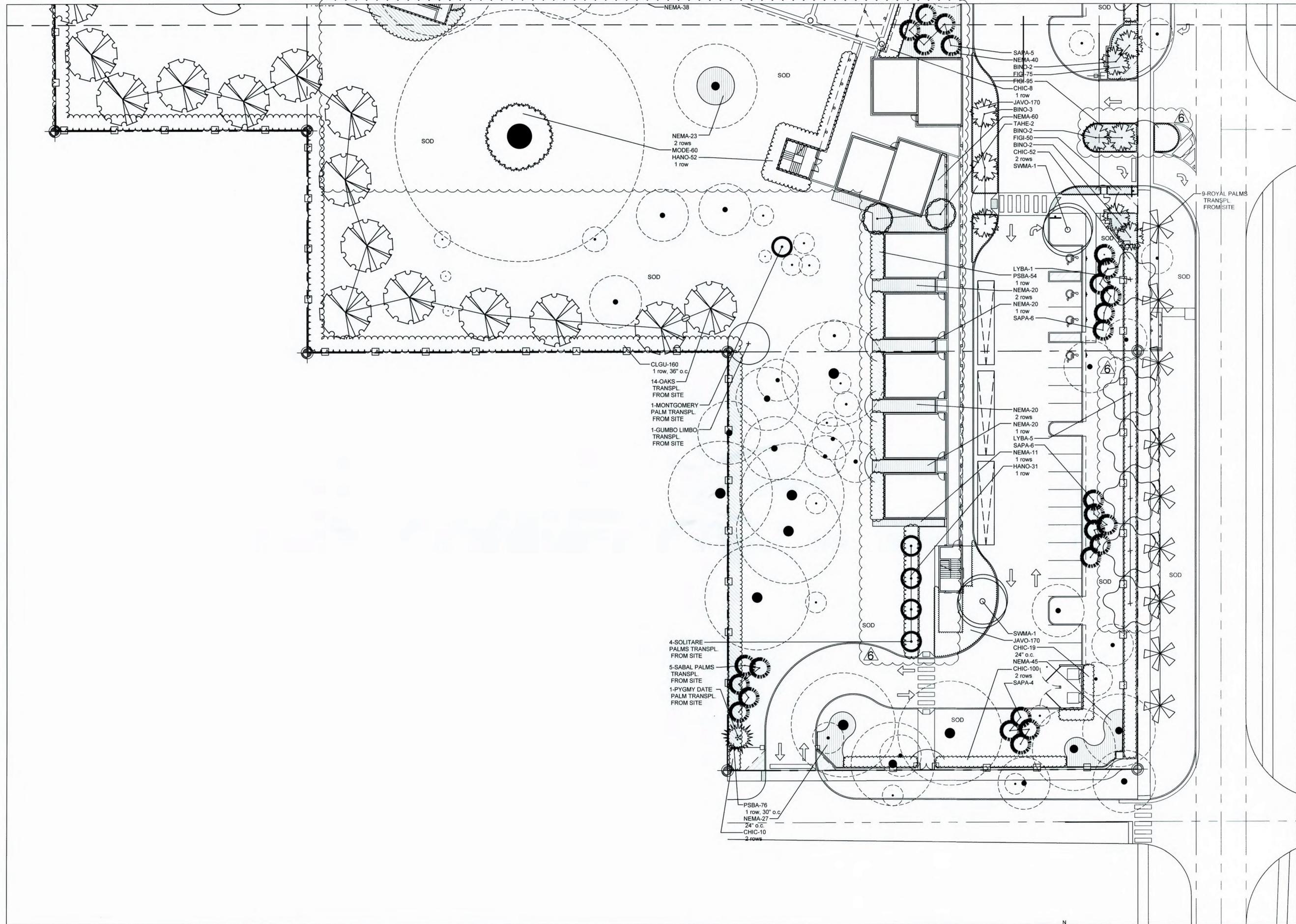
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EXISTING TREE  
 DISPOSITION  
 PLAN



KEY	BOTANICAL NAME	COMMON NAME	SIZE		DISPOSITION	MITIGATION
			HT. (ft.)	SPD. (ft.)		
1	Quercus virginiana	Live Oak	40	20	14	314
2	Syagrus romanzoffianum	Queen Palm	20	15	6	177
3	Phoenix roebelinii	Pygmy Date Palm	14	14	multi	
4	Acacia chorophylla	Cinnecord	12	12	multi	113
5	Pongamia pinnata	Pongam	25	50	40	X
6	Sabal palmetto	Sabal Palm	14	10	10	X
7	Velichia montgomeryana	Montgomery Palm	20	10	4	X
8	Quercus virginiana	Live Oak	20	15	6	X
9	Brassiaa actinophylla	Umbrella Tree	20	20	multi	X
10	Quercus virginiana	Live Oak	40	50	multi	X
11	Quercus virginiana	Live Oak	30	40	14	X
12	Phoenix reclinata	Senegal Date Palm	14	20	multi	X
13	Sabal palmetto	Sabal Palm	8	10	10	X
14	Quercus virginiana	Live Oak	26	50	12	X
15	Quercus virginiana	Live Oak	18	24	9	X
16	Sabal palmetto	Sabal Palm	10	10	10	X
17	Sabal palmetto	Sabal Palm	14	10	10	X
18	Pinus elliottii	Dade County Slash Pine	35	25	16	X
19	Sw etenia mahagoni	West Indies Mahogany	30	30	14	X
20	Sabal palmetto	Sabal Palm	10	10	10	X
21	Quercus virginiana	Live Oak	30	40	12	X
22	Bursera simaruba	Gumbo Limbo	28	35	24	X
23	Bachofia javanica	Bishop's Wood	18	12	4	X
24	Tabebuia carabea	Silver Trumpet Tree	18	20	10	X
25	Velichia montgomeryana	Montgomery Palm	18	5	5	X
26	Tabebuia carabea	Silver Trumpet Tree	16	16	multi	X
27	Sabal palmetto	Sabal Palm	8	10	10	X
28	Roystonea regia	Royal Palm	30	15	18	X
29	Quercus virginiana	Live Oak	25	20	7	X
30	Quercus virginiana	Live Oak	22	25	12	X
31	Roystonea regia	Royal Palm	40	15	18	X
32	Sabal palmetto	Sabal Palm	10	10	10	X
33	Roystonea regia	Royal Palm	40	15	18	X
34	Quercus virginiana	Live Oak	30	50	24	X
35	Sabal palmetto	Sabal Palm	8	10	10	X
36	Quercus virginiana	Live Oak	30	50	24	X
37	Delonix regia	Royal Poinciana	30	50	16	X
38	Bauhinia bialekana	Hong Kong Orchid	25	30	multi	X
39	Brassiaa actinophylla	Umbrella Tree	20	25	20	X
40	unknown n		40	30	16	X
41	Bauhinia bialekana	Hong Kong Orchid	30	30	18	X
42	Manikara zapota	Sapodilla	20	20	multi	X
43	Quercus virginiana	Live Oak	30	25	16	X
44	Pinus elliottii	Dade County Slash Pine	18	12	2	X
45	Quercus virginiana	Live Oak	20	25	16	X
46	Quercus virginiana	Live Oak	20	25	16	X
47	Sabal palmetto	Sabal Palm	10	10	10	X
48	Pinus elliottii	Dade County Slash Pine	22	6	3	X
49	Sabal palmetto	Sabal Palm	24	10	10	X
50	Sabal palmetto	Sabal Palm	24	10	10	X
51	Sabal palmetto	Sabal Palm	24	10	10	X
52	Quercus virginiana	Live Oak	30	50	multi	X
53	Persea americana	Avocado	20	15	multi	X
54	Sabal palmetto	Sabal Palm	10	10	10	X
55	Sabal palmetto	Sabal Palm	14	10	10	X
56	Bauhinia bialekana	Hong Kong Orchid	18	12	multi	X
57	Quercus virginiana	Live Oak	18	10	3	X
58	Quercus virginiana	Live Oak	18	10	3	X
59	Quercus virginiana	Live Oak	20	20	10	X
60	Pinus elliottii	Dade County Slash Pine	40	20	14	X
61	Quercus virginiana	Live Oak	28	20	12	X
62	Quercus virginiana	Live Oak	28	20	10	X
63	Quercus virginiana	Live Oak	25	20	10	X
64	Quercus virginiana	Live Oak	35	50	16	X
65	unknown n		18	20	multi	X
66	Sabal palmetto	Sabal Palm	10	10	10	X
67	Pinus elliottii	Dade County Slash Pine	20	10	8	X
68	Pinus elliottii	Dade County Slash Pine	20	10	8	X
69	Tabebuia carabea	Silver Trumpet Tree	18	20	10	X
70	Ligustrum japonicum	Wax Leaf Privet	14	14	multi	X
71	Ligustrum japonicum	Wax Leaf Privet	14	14	multi	X
72	Sabal palmetto	Sabal Palm	18	10	10	X
73	Ficus nida		35	50	multi	X
74	Manikara zapota	Sapodilla	40	25	10	X
75	Sabal palmetto	Sabal Palm	16	10	10	X
76	Coccoloba vilifera	Seagrape	18	20	multi	X
77	Roystonea regia	Royal Palm	40	15	18	X
78	Roystonea regia	Royal Palm	40	15	18	X
79	Roystonea regia	Royal Palm	35	15	18	X
80	Roystonea regia	Royal Palm	40	15	18	X
81	Roystonea regia	Royal Palm	40	15	18	X
82	Roystonea regia	Royal Palm	40	15	18	X
83	Roystonea regia	Royal Palm	40	15	18	X
84	Roystonea regia	Royal Palm	40	15	18	X
85	Roystonea regia	Royal Palm	40	15	18	X
86	Roystonea regia	Royal Palm	25	15	18	X
87	Roystonea regia	Royal Palm	40	15	18	X
88	Roystonea regia	Royal Palm	25	15	18	X
89	Roystonea regia	Royal Palm	40	15	18	X
90	Quercus virginiana	Live Oak	20	10	5	X
91	Bauhinia bialekana	Hong Kong Orchid	20	20	multi	X
92	Sabal palmetto	Sabal Palm	10	10	10	X
93	Quercus virginiana	Live Oak	18	8	4	X
94	Quercus virginiana	Live Oak	20	25	12	X
95	Adonia merrillii	Christmas Palm	14	10	double	X
96	Quercus virginiana	Live Oak	25	35	14	X
97	Quercus virginiana	Live Oak	25	25	12	X
98	Pinus elliottii	Dade County Slash Pine	18	12	6	X
99	Quercus virginiana	Live Oak	25	25	12	X
100	Pinus elliottii	Dade County Slash Pine	35	20	12	X
101	Sabal palmetto	Sabal Palm	16	10	10	X
102	Sabal palmetto	Sabal Palm	30	10	10	X
103	Quercus virginiana	Live Oak	26	25	12	X
104	Pinus elliottii	Dade County Slash Pine	45	20	12	X
105	Syagrus romanzoffianum	Queen Palm	12	6	6	X
106	Quercus virginiana	Live Oak	18	20	6	X
107	Quercus virginiana	Live Oak	20	20	8	X
108	Pinus elliottii	Dade County Slash Pine	45	20	12	X
109	Sw etenia mahagoni	West Indies Mahogany	25	25	10	X
110	Quercus virginiana	Live Oak	25	25	multi	X
111	Quercus virginiana	Live Oak	25	25	multi	X
112	Ficus aurea	Strangler Fig	30	40	24	X
113	Syzygium cumini	Java Plum	25	20	10	X
114	unknown n		20	8	multi	X
115	Quercus virginiana	Live Oak	25	18	7	X
116	Quercus virginiana	Live Oak	28	20	12	X
117	Adonia merrillii	Christmas Palm	14	14	triple	X
118	Psychosperma elegans	Solitaire Palms	22	5	3	X
119	Psychosperma elegans	Solitaire Palms	22	5	3	X
120	Dieris regia	Royal Palmetto	25	30	5	X
121	Quercus virginiana	Live Oak	26	40	24	X
122	Sw etenia mahagoni	West Indies Mahogany	30	40	14	X
123	Bucida buceras	Black Olive	35	50	20	X
124	Sabal palmetto	Sabal Palm	12	10	10	X
125	Quercus virginiana	Live Oak	26	26	12	X
126	Quercus virginiana	Live Oak	26	40	multi	X
127	Bucida buceras	Black Olive	40	50	20	X
128	Quercus virginiana	Live Oak	28	35	20	X
129	Ficus elastica	Rubber Tree	50	120	15	X
130	Pinus elliottii	Dade County Slash Pine	20	5	2	X
131	Pinus elliottii	Dade County Slash Pine	16	5	2	X
132	Pinus elliottii	Dade County Slash Pine	20	5	2	X
133	Melia azedarach	Chinaberry	35	20	multi	X
134	Melia azedarach	Chinaberry	35	20	multi	X
135	Melia azedarach	Chinaberry	25	20	4	X
136	Melia azedarach	Chinaberry	30	20	7	X
137	Quercus virginiana	Live Oak	50	60	30	X
138	Melia azedarach	Chinaberry	35	20	7	X
139	Melia azedarach	Chinaberry	30	20	multi	X
140	Quercus virginiana	Live Oak	45	60	30	X
141	Quercus virginiana	Live Oak	35	50	24	X
142	Bachofia javanica	Bishop's Wood	40	40	20	X
143	Quercus virginiana	Live Oak	30	30	18	X
144	Bucida buceras	Black Olive	45	30	16	X
145	Brassiaa actinophylla	Umbrella Tree	20	20	multi	X
146	Brassiaa actinophylla	Umbrella Tree	20	20	multi	X
147	Brassiaa actinophylla	Umbrella Tree	20	20	multi	X
148	Brassiaa actinophylla	Umbrella Tree	20	20	multi	X
149	Brassiaa actinophylla	Umbrella Tree	20	20	multi	X
150	Brassiaa actinophylla	Umbrella Tree	20	20	multi	X

KEY	BOTANICAL NAME	COMMON NAME	SIZE		DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft.)	REMAIN	REMOVE	TRANSPL.	
151	Brassiaa actinophylla	Umbrella Tree	20	20	multi			
152	Quercus virginiana	Live Oak	40	60	36	X		
153	Sabal palmetto	Sabal Palm	18	10	10	X		79
154	Brassiaa actinophylla	Umbrella Tree	20	20	multi	X		Exempt by Ordinance
155	Mangifera indica	Mango	28	28	16	X		
156	Manikara zapota	Sapodilla	30	25	multi	X		1414
157	Quercus virginiana	Live Oak	40	30	22	X		314
158	Manikara zapota	Sapodilla	25	20	multi	X		1414
159	Quercus virginiana	Live Oak	40	30	22	X		362
160	Persea americana	Avocado	40	20	18	X		314
161	Persea americana	Avocado	40	20	12	X		
162	Persea americana	Avocado	30	20	12	X		
163	Persea americana	Avocado	36	20	multi	X		
164	Quercus virginiana	Live Oak	30	50	24	X		Director Request
165	Bachofia javanica	Bishop's Wood	12	15	multi	X		
166	Persea americana	Avocado	20	20	multi	X		314
167	Melia azedarach	Chinaberry	20	20	multi	X		Exempt by Ordinance
168	Quercus virginiana	Live Oak	30	30	12	X		962
169	Quercus virginiana	Live Oak	30	35	12	X		Exempt by Ordinance
170	Bachofia javanica	Bishop's Wood	30	30	multi	X		Exempt by Ordinance
171	Bachofia javanica	Bishop's Wood	20	25	multi	X		Exempt by Ordinance
172	Quercus virginiana	Live Oak	30	30	12	X		Exempt by Ordinance
173	Melia azedarach	Chinaberry	20	15	4	X		Exempt by Ordinance
174	Melia azedarach	Mango	40	50	30	X		Exempt by Ordinance
175	Mangifera indica	Mango	18	8	8	X		
176	Quercus virginiana	Live Oak	40	80	multi	X		
177	Ficus aurea	Strangler Fig	40	60	multi	X		
178	Brassiaa actinophylla	Umbrella Tree	25	25	multi	X		Exempt by Ordinance
179	Quercus virginiana	Live Oak	35	22	multi	X		Exempt by Ordinance
180	Brassiaa actinophylla	Umbrella Tree	25	25	multi	X		Exempt by Ordinance
181	Brassiaa actinophylla	Umbrella Tree	25	25	multi	X		Exempt by Ordinance
182	Brassiaa actinophylla	Umbrella Tree	25	25	multi	X		Exempt by Ordinance
183	Quercus virginiana	Live Oak	30	30	12	X		Exempt by Ordinance
184	Ficus nida		30	30	12	X		Exempt by Ordinance
185	Syzygium cumini	Java Plum	40	36	36	X		Exempt by Ordinance
186	Brassiaa actinophylla	Umbrella Tree	20	20	multi	X		Exempt by Ordinance
187	Brassiaa actinophylla	Umbrella Tree	20	20	multi	X		Exempt by Ordinance
188	Quercus virginiana	Live Oak	30	30	30	X		Exempt by Ordinance
189	Brassiaa actinophylla	Umbrella Tree	20	15	multi	X		Exempt by Ordinance
190	Quercus virginiana	Live Oak	30	25	14	X		
191	Sabal palmetto	Sabal Palm	20	20	16	X		
192	Bursera simaruba	Gumbo Limbo	20	20	16	X		
193	Brassiaa actinophylla	Umbrella Tree	25	20	multi	X		Exempt by Ordinance
194	Quercus virginiana	Live Oak	20	20	7	X		
195	Quercus virginiana	Live Oak	20	20	78	X		
196	Quercus virginiana	Live Oak	20	20	12	X		
197	Quercus virginiana	Live Oak	20	20	7	X		
198	Quercus virginiana	Live Oak	20	20	6	X		
199	Quercus virginiana	Live Oak	18	16	5	X		
200	Quercus virginiana	Live Oak	28	25	10	X		
201	Quercus virginiana	Live Oak	18	16	5	X		
202	Quercus virginiana	Live Oak	18	16	5	X		
203	Quercus virginiana	Live Oak	26	20	10	X		
204	Quercus virginiana	Live Oak	26	20	10	X		
205	Washingtonia robusta	Washingtonia Palm	8	8	10	X		
206	Sabal palmetto	Sabal Palm	24</					



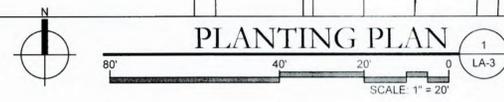
No.	DATE	REVISION	BY
1	1/14/13	SITE	TKS
2	2/2/14	SITE	TKS
4	11/14/14	COMMENTS	TKS
5	1/20/15	TREE	TKS
6	1/20/15	TREE	TKS

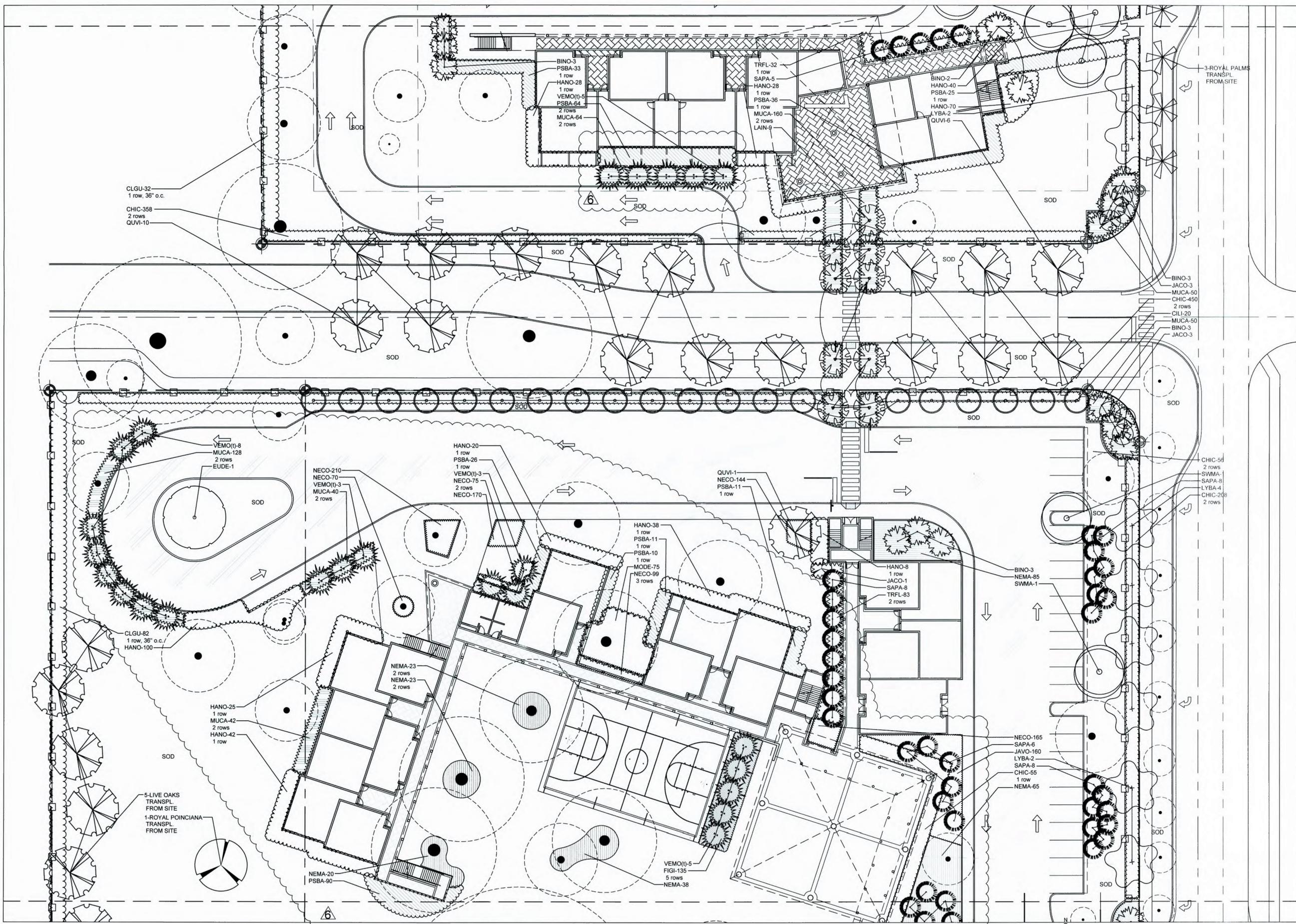
DR. BY: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_  
AD. BY: \_\_\_\_\_  
DATE: \_\_\_\_\_ SCALE: \_\_\_\_\_  
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PLANTING PLAN





**CIVICA**  
 DESIGN  
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 Doral, FL 33126  
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 info@civica-group.com

**PROJECT:**  
 SOMERSET  
 ACADEMY AT  
 PINEWOOD ACRES  
 8500 SW 97TH AVE  
 MIAMI, FL 33176

**APPLICANT:**  
 LONES FAMILY LP.  
 PINEWOOD ACRES  
 SCHOOL INC  
 LEE'S, JUDY C. LONES

**ISSUED FOR:**  
 DESIGN  
 SUBMITTAL  
 CIVICA PROJECT No.:  
 120015

**ROSENBERG  
 GARDNER  
 DESIGN**  
 LANDSCAPE ARCHITECTURE, LAND PLANNING  
 1100 S.W. 15th Avenue, Suite 1000, Miami, Florida 33135  
 Phone: 305.371.1100 Fax: 305.371.1101  
 www.rosengardner.com

NO.	REVISION	BY
1	ISSUE FOR PERMIT	TKS
2	ISSUE FOR PERMIT	TKS
4	ISSUE FOR PERMIT	TKS
5	ISSUE FOR PERMIT	TKS
6	ISSUE FOR PERMIT	TKS

DR: [Signature] APPROVED BY:  
 AD: [Signature]  
 DA: [Signature]  
 JAN 2015



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**PLANTING PLAN**



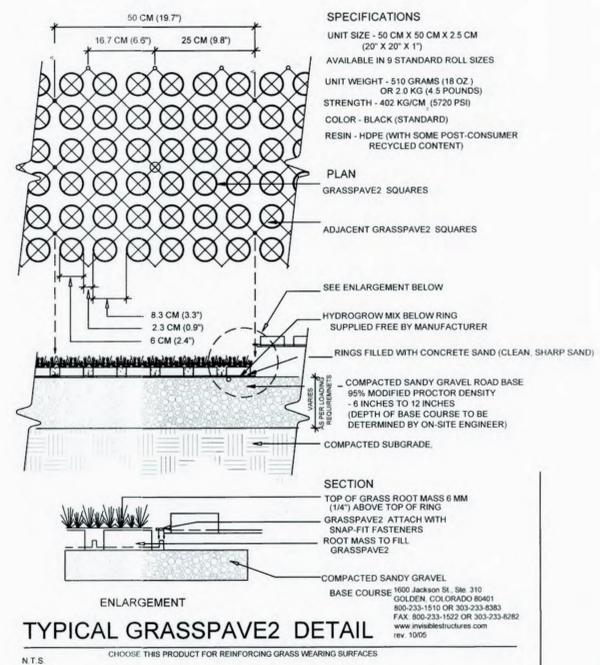
**LANDSCAPE LEGEND (This information to be permanently affixed to the plan.)**

Zoning District:	EU-1	Net Lot Area:	8.25 (acres)	359,455 (square feet)
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OPEN SPACE REQUIREMENTS		REQUIRED	PROVIDED
A. Square feet of open space required by Chapter 33, as indicated on site plan: Net Lot area = 359,455 square feet x N/A % = #VALUE! square feet			
B. Square feet of parking lot open space required by Chapter 18A, as indicated on site plan: The number of parking spaces N/A x 10 square feet per parking space =			
C. Total square feet of landscaped open space required by Chapter 33 = A+B=			
LAWN AREA CALCULATION		REQUIRED	PROVIDED
A. Total square feet of landscape open space required by Chapter 33 =			
B. Maximum lawn area (St. Augustine sod) permitted = N/A % = #VALUE! square feet =			
TREES		REQUIRED	PROVIDED
A. The number of trees required per net lot acre = 28 trees x net lot acreage =			
TOTAL SITE TREES REQUIRED		232	238
less the existing number of trees that meet the minimum requirements 153 153			
TOTAL NEW SITE TREES REQUIRED		79	84
B. Street trees (max. average spacing of 35' o.c.): 1460 linear feet along street / 35' = 42 42			
Palms as street trees (max. average spacing of 25' o.c.): 575 linear feet along street / 25' = 23 23			
Street trees located directly beneath power lines (Max. average spacing 25' o.c.): 0 0			
TOTAL STREET TREES REQUIRED		65	65
GRAND TOTAL TREES REQUIRED		297	302
GRAND TOTAL NEW TREES REQUIRED		144	149
C. 30% palm species allowed (two palms = one tree) Palms provided = 178 108			
D. Percentage of native trees required = number of trees provided x 30% = 90 95			
SHRUBS		REQUIRED	PROVIDED
A. The total number of trees required x 10 = the number of shrubs required 2,970 5,414			
B. The total number of trees required x 30% = the number of native shrubs required 891 4,368			
IRRIGATION: Required by Chapter 33. Auto Irrigation <input checked="" type="checkbox"/> or hose bib <input checked="" type="checkbox"/> provided.			

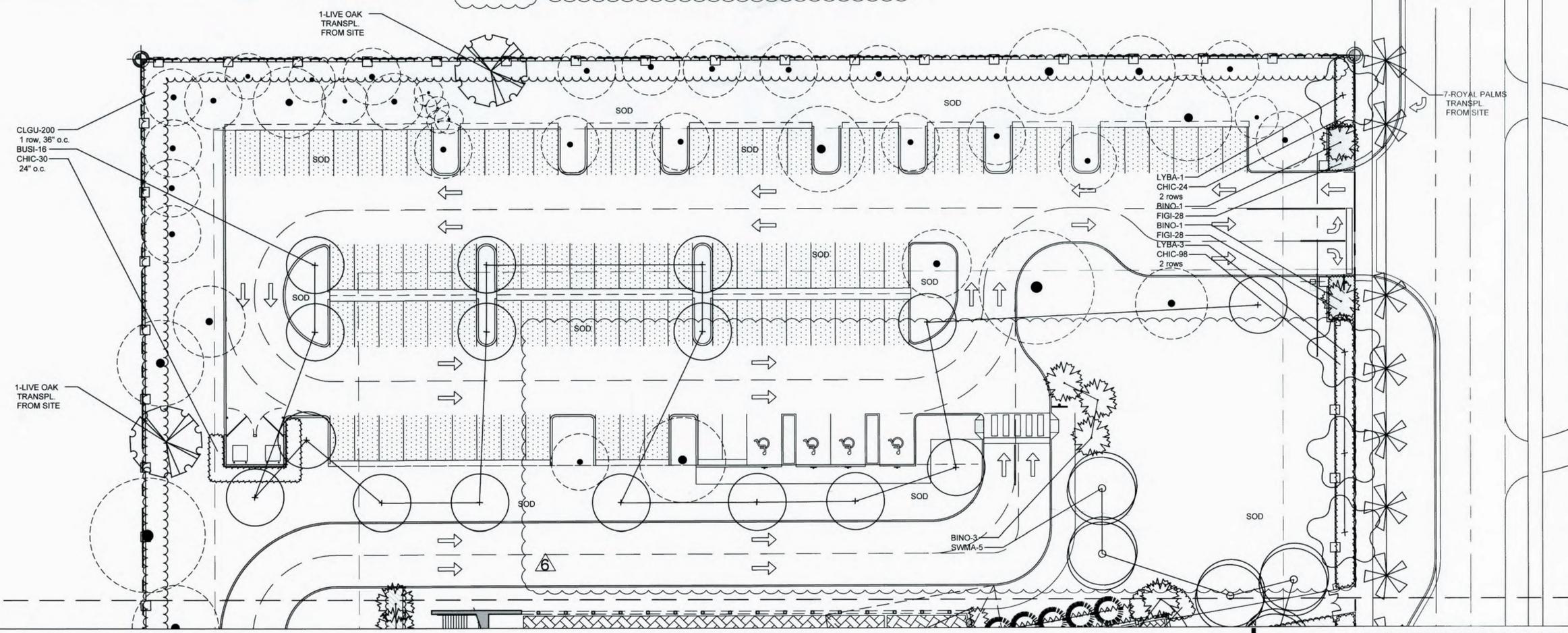
**PLANT LIST**

KEY	PLANT NAME	QTY.	UT.	SIZE
BINO	Bismarkia nobilis ..Bismarkia Palm	28	ea.	16' tall overall
BUSI	Bursera simaruba ..Gumbo Limbo	16	ea.	12' tall x 5' spread, 2" cal.
CHIC	Chrysobalanus icaco ..Cocoplum	1468	ea.	3 gallon cans, 18" x 18", 24" o.c.
CILI	Citrus "Lemon" ..Lemon Tree	20	ea.	8' tall x 3' spread, 1 1/2" cal.
CLGU	Clusia guttifera ..Small Leaf Clusia	474	ea.	3 gallon cans, 24"x24", 36" o.c.
EUDE	Eucalyptus deglupta ..Rainbow Eucalyptus	1	ea.	16' tall x 7' spread, 5" cal.
FIGI	Ficus microcarpa "Green Island" ..Ficus Green Island	411	ea.	3 gallon cans, 18" x 18", 24" o.c.
HANO	Hamelia nodosa ..Dwarf Firebush	482	ea.	3 gallon cans, 18" x 18", 24" o.c.
JACO	Jatropha compacta ingertima ..Peregrina	7	ea.	6' tall, lifted to tree form
JAVO	Jasminum volubile ..Wax Jasmine	500	ea.	3 gallon cans, 18" spread, 24" o.c.
LAIN	Lagerstroemia indica "Tuscorora" ..Red Flower Crepe Myrtle	9	ea.	12' tall x 5' spread, 3-4 trunks
LYBA	Lysiloma latisiliqua ..Wild Tamarind	18	ea.	12' tall x 5' spread, 2" cal.
MODE	Monstera deliciosa ..Monstera	135	ea.	3 gallon cans, mature leaves, 36" o.c.
MUCA	Muhlenbergia capillaris ..Muhly Grass	534	ea.	3 gallon cans, full, 24" o.c.
NECO	Nephrolepis exaltata ..Boston Fern	933	ea.	3 gallon cans, full, 12" o.c.
NEMA	Nephrolepis bisserata "Macho" ..Macho Fern	540	ea.	3 gallon cans, full, 36" o.c.
PSBA	Psychotria bahamensis ..Wild Coffee	436	ea.	3 gallon cans, 24" x 24", 30" o.c.
QUVI	Quercus virginiana ..Live Oak	17	ea.	12' tall x 5' spread, 2" cal.
SAPA	Sabal palmetto ..Sabal Palm	56	ea.	16' tall OA, smooth trunk, hurricane cut
SWMA	Swietenia mahagonii ..West Indies Mahogany	9	ea.	12' tall x 5' spread, 2" cal.
TAHE	Tabebuia heterophylla ..Pink Trumpet Tree	2	ea.	12' tall x 5' spread, 2" cal.
TRFL	Tripsicum floridanum ..Dwarf Fakahatchee Grass	115	ea.	3 gallon cans, full, 24" o.c.
VEMO	Veitchia montgomeryana ..Montgomery Palm	24	ea.	12' tall overall, triple trunk, all heads same height
sod	St. Augustine "Floritam" Planting Soil 70% Silica Sand 30% Everglades Muck Shredded Maleuca Mulch	as req.	s.f. c.y. as req. as req.	solid sod



**TREE LEGEND**

Symbol	New	Existing	PLANT NAME	NATIVE SPECIES	HEIGHT		CANOPY DIAMETER		QUANTITY	
					Yes	No	Installed	Estimated at maturity*		Estimated at maturity*
<b>Trees</b>										
BUSI	16	re	Bursera simaruba	Miscellaneous Trees	X		12'	30'	40'	153
EUDE	1		Eucalyptus deglupta	Gumbo Limbo		X	16'	40'	20'	1
LAIN	9		Lagerstroemia indica "Tuscorora"	Crape Myrtle		X	12'	25'	20'	9
LYBA	18		Lysiloma latisiliqua	Wild Tamarind	X		12'	30'	40'	18
QUVI	17		Quercus virginiana	Live Oak	X		12'	30'	40'	17
SWMA	9		Swietenia mahagonii	West Indies Mahogany	X		12'	30'	40'	9
TAHE	2		Tabebuia heterophylla	Pink Trumpet Tree		X	12'	30'	25'	2
<b>Palms</b>										
BINO	28		Bismarkia nobilis	Bismarkia Palm		X	18'	25'	15'	14
VEMO	24		Veitchia montgomeryana	Montgomery Palm		X	12'	30'	15'	12
SAPA	56		Sabal palmetto	Sabal palm	X		16'	30'	10'	28
RORE	23		Roystonea regia - as street trees	Royal Palm		X	15'	50'	15'	23
									<b>TOTAL</b>	302



**PLANTING PLAN**  
SCALE: 1" = 20'  
LA-5

No.	DATE	REVISION	BY
1	01/10/15	SITE	TKS
2	02/04/15	TE	TKS
4	03/04/15	COMMENTS	TKS
5	03/04/15	TE	TKS
6	03/04/15	TE	TKS

DR: [Signature] APPROVED BY:  
AD: [Signature]  
DATE: [Signature]  
JAN: [Signature]



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**LANDSCAPE SPECIFICATIONS**  
**PART 1 - GENERAL**

- 1.1 SCOPE**  
A. Contractor shall provide all labor, materials, equipment, supervision, and related work necessary to complete the landscape work in accordance with the intent of the landscape plans, schedules and these specifications. The extent of work is shown on the drawings which are a part of this document.
- 1.2 CONTRACTOR QUALIFICATIONS**  
A. Landscape installation work to be performed by a Contractor Certified by the Florida Nurserymen, Growers and Landscape Association (FNLGA) as a Certified Landscape Contractor. Any pruning to be supervised by an Arborist, certified by the International Society of Arboriculture (ISA) and licensed in Miami-Dade County.
- 1.3 INVESTIGATION OF UTILITIES**  
A. Prior to beginning work, the Contractor shall be responsible to locate existing underground utilities. Check with all utility companies and Sunshine State, call (811).
- 1.4 SUBSTITUTIONS**  
A. Only materials specified will be accepted, unless approved in writing by the Landscape Architect in advance.
- 1.5 PLANT SIZES**  
A. All plant sizes shall equal or exceed the minimum sizes as specified in the plant list. When plant sizes are specified as a range of size, installed materials shall average the mean of the range specified. Plants shall be measured following pruning, with branches in normal position. All necessary pruning shall be done at the time of planting.
- 1.6 PLANT QUALITY**  
A. All plant material shall be equal to or better than Florida No. 1 as classified by "Grades and Standards for Nursery Plants" by the Division of Plant Industry, Florida Department of Agriculture. They shall have a growth habit that is normal for the species, healthy, vigorous, free from insects, disease and injury.
- B. The Owner or Landscape Architect reserves the right to refuse any plant material which does not conform to the intent of the written specifications or design.
- 1.7 PLANT QUANTITY**  
A. The plant quantities shown on the plant list are to be used only as an aid to bidders. In the case of discrepancy between the plant list and the plan, the quantity on the plan shall override the plant list.
- 1.8 UNIT PRICES**  
A. The successful bidder shall furnish to the Owner and the Landscape Architect, a unit price breakdown for all materials. The Owner may, at his discretion, add to or delete from the materials utilizing the unit price breakdown submitted to and accepted by the Owner.
- 1.9 SUBMITTALS**  
A. Fertilizer: The Contractor shall submit to the Owner and Landscape Architect documentation that all the fertilizer used for the project is of the analysis specified and placed at the rates specified in section 2.2 FERTILIZER.
- B. Planting soil: The Contractor shall submit a sample of the planting soil (approximately 1 cu. Ft.) for approval by the Landscape Architect prior to delivery to the site.
- 1.10 CLEAN-UP & MAINTENANCE OF TRAFFIC**  
A. Follow procedures in FDOT index 600 for maintenance of traffic during construction.
- B. At the end of each work day, the Contractor shall remove debris and shall barricade the un-filled holes in a manner appropriate in the path of pedestrians and motorists.
- C. Upon completion of the work or any major portion of the work or as directed by the Landscape Architect, all debris and surplus material from his work shall be removed from the job site.
- 1.11 MAINTENANCE PRIOR TO ACCEPTANCE**  
A. The Contractor is responsible to maintain the plantings until they are accepted under the provisions of 1.12 "ACCEPTANCE OF INSTALLATION".
1. Plants: Begin maintenance immediately following the final plant installation operation for each plant and continue until all plant installation is complete and accepted. Maintenance shall include watering all plants, weeding, mulching, pest and disease control, tightening and repairing of guys, repair of braces, removal of dead growth, resetting of plants to proper grade or upright position, restoration of plant saucer, litter pick-up in plant beds and other necessary operations to assure specified minimum grade of Florida No. 1.
2. Turf Areas: Begin maintenance of turf immediately following the placement of sod and continue until sod installation is complete and accepted. Maintenance shall include but not be limited to, watering, leveling, mowing, weed and pest control, fungus and disease control and other necessary operations as determined by the Landscape Architect and good nursery practice.
3. Re-setting or straightening trees and palms: The Contractor shall re-set and/or straighten trees and palms as required at no additional cost to the Owner unless caused by sustained winds of 75 mph or more. Then, the costs of the operations may be charged to the owner. Re-set trees within 48 hours.
- 1.12 ACCEPTANCE OF INSTALLATION**  
A. Inspection: Inspection of the work, to determine completion of contract work, exclusive of the possible replacement of plants and turf, will be made by the Landscape Architect at the conclusion of the maintenance period. Written notice requesting such an inspection and submitted by the Contractor at least ten (10) days prior to the anticipated date.
- 1.13 GUARANTEE**  
A. Guarantee all plants for a period of one year (COD). Guarantee shall commence from the date of written acceptance. Plant material which is on the site and scheduled to be relocated is not covered by the guarantee except in the case of Contractor's negligence or work that has been done in an unworkman-like manner. The Contractor is not responsible for loss due to acts of god, (i.e.) sustained winds of 75 mph or more, floods, frost, lightning, vandalism or theft.
- 1.14 REPLACEMENT**  
A. Replacement shall be made during the guarantee period as directed by the Landscape Architect within ten (10) days from time of notification. For all replacement plant material, the guarantee period shall extend for an additional forty-five (45) days beyond the original guarantee period. The Contractor shall be responsible to provide water to the replacement plants in sufficient quantity to aid in their establishment. At the end of the guarantee period, inspection will be made by the Landscape Architect, upon written notice requesting such inspection and submitted by the Contractor at least five (5) days before the anticipated date. Replacement plants must meet the requirements of Florida No. 1 at time of inspection. Remove from the site all plants that are dead or in a state of unsatisfactory growth, as determined by the Landscape Architect. Replace these and any plants missing due to the Contractor's negligence as soon as conditions permit.
1. Materials and Operations: All replacement plants shall be of the same kind and size as indicated on the plant list. The Contractor shall supply and plant the plants as specified under planting operations.
2. Cost of Replacements: A sum sufficient to cover the estimated cost of possible replacements, including material and labor will be retained by the Owner and paid to the Contractor after all replacements have been satisfactorily made and approved by the Landscape Architect.

- PART 2 - MATERIALS**
- 2.1 PLANTING SOIL**  
A. Planting soil for trees, shrubs and ground covers shall be of the composition noted on the plans, measured by volume.
- B. Soil for Sodded Areas: shall be coarse lawn sand.
- 2.2 FERTILIZER**  
A. Fertilizer for trees, palms, shrubs, and groundcovers shall be as follows: LESCO Palm Special 13-3-13 or equal, Sulfur coated with iron and other minor elements and maximum of 2% chlorine, or brand with equal analysis. The fertilizer shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original unopened containers, bearing the manufacturer's guaranteed analysis. Fertilizer for sod and seeded areas shall be 8-6-8, 50% organically derived nitrogen, or equal.

- 2.3 WATER**  
A. The Contractor shall provide potable water on site, available from the start of planting. The Contractor is responsible to ascertain the location and accessibility of the water source. The Contractor is responsible to provide the means of distribution (i.e. water truck, hoses, etc.) for distribution of water to the planting areas.
- 2.4 MULCH**  
A. Mulch shall be shredded Metaleuca mulch (Florimulch) as manufactured by Forestry Resources, Inc., or equal.
- 2.5 ROOT BARRIER MATERIAL**  
A. When specified in the plans, root barrier material shall be Biobarrier (19.5 inch width) Reemay or approved equal.
- B. Install per details in the plans.

- PART 3 - INSTALLATION PROCEDURES**
- 3.1 LAYOUT**  
A. Verify location of all underground utilities and obstructions prior to excavation.
- 3.2 HERBICIDE TREATMENT**  
A. In all areas infected with weed and/or grass growth, a systemic herbicide, such as Roundup, shall be applied per manufacturer's rates. When it has been established where work will be done, the systemic herbicide shall be applied in accordance with manufacturer's labeling to kill all noxious growth. Contractor shall schedule his work to allow more than one application to obtain at least 95% kill of undesirable growth. If necessary, Contractor shall conduct a test to establish suitability of product and applicator to be used on this project, prior to execution of the full application.
- 3.3 PLANT PIT EXCAVATION AND BACKFILLING**  
A. Trees: See the Planting and Bracing Details and notes.  
B. All planting holes shall be hand dug where machine dug holes may adversely affect utilities or improvements.  
C. Shrubs and Groundcover: Shrubs and groundcover shall be planted in a soil bed as described in the notes and details. Space shrubs and provide setback from curb and pavements as shown in the plans.  
D. Watering of field-grown plants: Thoroughly puddle in water to remove any air pockets in the plant hole.
- 3.4 WATERING**  
A. The Contractor is responsible to provide the water for all new plants and transplants and means of distribution (i.e. hand watering or water truck) during the maintenance period and extending into the period after acceptance until the full schedule as listed below is complete. Water for trees and other large field-grown plants shall be supplemented by hand or water truck, in addition to the irrigation system, (if one is provided). Contractor can adjust watering schedule during heavy rain season upon approval of the Landscape Architect.
- AMOUNT OF WATER PER APPLICATION**  
For trees up to 5 inch caliper - 5 gallons  
From 5 to 9 inch caliper - 25 gallons  
9 inch and up caliper - 50 gallons
- FREQUENCY OF WATER**  
Daily for the first week  
3 times per week for weeks 2 - 5  
2 times per week for weeks 6 - 8  
1 time per week for weeks 9 - 12
- B. Water in plants by thoroughly soaking of the entire root ball immediately after planting. For large trees and shrubs, add water while backfilling hole to eliminate any air pockets in the soil around the root ball.
- C. Water shrubs, sod and groundcover a minimum of once daily for a week or until an irrigation system is fully operational. If no irrigation system is to be installed, the Contractor shall be responsible for watering the shrub, sod, and groundcover for the time specified above, after installation of each section of the planting installation.

- 3.5 FERTILIZING**  
A. Add fertilizer on top of the surface of shrubs beds and tree and palms root balls two (2) months after installation. Fertilize soil within two (2) days after installing after planting of each segment of the job. Fertilizer shall be applied after soil has been well moistened. Fertilizer shall be washed off of plant leaves and stems immediately after application. Apply at the following rates:
1. Trees and Large Shrubs: One (1) pound per inch of trunk diameter, spread evenly over the root ball area.
2. Shrubs: One half (1/2) handful per shrub, spread evenly over the root ball area.
3. Groundcover: Twelve (12) pounds per 100 sq. ft. of bed area.
4. Sod: Twelve (12) pounds per 1,000 sq. ft. Wash fertilizer off blades immediately after spreading.
- 3.6 MULCHING**  
A. Spread mulch two (2) inches thick uniformly over the entire surface of shrubs and groundcover beds, depth measured after settling, unless otherwise specified in the plans. Provide 36" diameter bed of mulch, measured from outer edge of the trunk, for all trees and palms planted in sod areas. Keep mulch away from contact with the trunk. Create a 6" high ring of mulch at the outer edge of tree and palm holes.
- 3.7 GUYING AND BRACING**  
A. See the details bound herewith or made part of the plans.
- 3.8 SODDING**  
A. Provide a blanket of lawn sand as described in the notes in these plans. Prior to planting, remove stones, sticks, etc. from the sub-soil surface. Excavate existing non-conforming soil as required so that the finish grade of soil is flush with adjacent pavement or top of curb as well as adjacent soil in the case of sod patching.
- B. Place sod on moistened soil, with edges tightly butted, in staggered rows at right angles to slopes. The sod shall be rolled with a 500 pound hand roller immediately after placing.
- C. Keep edge of sod bed a minimum of 18" away from groundcover beds and 24" away from edge of shrub beds and 36" from trees, measured from the edge of plant or tree trunk.
- D. Sod shall be watered immediately after installation to uniformly wet the soil to at least two inches below the bottom of sod strips.
- E. Apply fertilizer to the sod as specified in Section 3.5.
- F. Excavate and remove excess soil so top of sod is flush w/top of curb or adjacent pavement, or adjacent existing sod.

- PLANT BED PREPARATION NOTES**
1. In all areas where new sod and shrub and groundcover masses are to be planted, kill all existing weeds by treating with Round-up prior to beginning soil preparation.
2. In all shrub and groundcover beds, prepare soil as described for either condition:
- Condition A:  
If any compacted road base or asphalt or rocky soil is encountered, remove compacted material entirely to allow an 18" depth of planting soil. Backfill the entire area of the shrub and groundcover beds with 18" planting soil (as specified in Plans) to within 2 inches of the adjacent pavement or top of curb.
- Condition B:  
Where no compacted soil is encountered, thoroughly mix 6 inches of planting soil into the existing soil to a depth of 18 inches. If required, excavate and remove the existing soil to lower the grade, so that the prepared mix is finished to a minimum of 2 inches below top of curb or adjacent walkway.
- For all sod areas, spread a 2" deep layer of lawn sand prior to sodding. Remove all debris and rocks and pebbles larger than 1 inch in size and level the grade before sodding. Remove, if required, existing soil so that top of soil is flush with and adjacent top of curb or pavement.
- SPACING OF PLANTS (SEE PLANT SPACING DETAIL)
1. Plants shall be planted sufficiently away from edges of pavements or curbs, to allow for growth toward the edges of the bed.
- PROTECTION OF PLANTS
1. The Contractor shall be responsible to protect existing trees and shrubs in and adjacent to the area of work. Erect barriers as necessary to keep equipment and materials, any toxic material, away from the canopy drip line of trees and shrubs. DO NOT PILE SOIL OR DEBRIS AGAINST TREE TRUNKS OR DEPOSIT NOXIOUS BUILDING SUPPLIES OR CHEMICALS WITHIN THE DRIP LINE.

**LANDSCAPE LEGEND - North Campus (This info to be permanently affixed to the plan.)**

Zoning District:	EU-1	Net Lot Area:	2.84	(acres)	123,650	(square feet)
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OPEN SPACE REQUIREMENTS	REQUIRED	PROVIDED
A. Square feet of open space required by Chapter 33, as indicated on site plan: Net Lot area = 123,650 square feet x N/A % = #VALUE! square feet	N/A	N/A
B. Square feet of parking lot open space required by Chapter 18A, as indicated on site plan: The number of parking spaces N/A x 10 square feet per parking space =	N/A	N/A
C. Total square feet of landscaped open space required by Chapter 33 = A+B=	N/A	N/A

LAWN AREA CALCULATION	REQUIRED	PROVIDED
A. Total square feet of landscape open space required by Chapter 33 =	N/A	N/A
B. Maximum lawn area (St. Augustine sod) permitted = N/A % = #VALUE! square feet	N/A	N/A

TREES	REQUIRED	PROVIDED
A. The number of trees required per net lot acre = 28 trees x net lot acreage =		
TOTAL SITE TREES REQUIRED	80	80
less the existing number of trees that meet the minimum requirements (minus)	51	51
TOTAL NEW SITE TREES REQUIRED	29	29
B. Street trees (max. average spacing of 35' o.c.) = 465 linear feet along street / 35 = 14	14	14
Palms as street trees (max. average spacing of 25' o.c.) = 250 linear feet along street / 25 = 10	10	10
Street trees located directly beneath power lines (Max. average spacing 25' o.c.) = 0	-	-
TOTAL STREET TREES REQUIRED	24	24
GRAND TOTAL TREES REQUIRED	104	104
GRAND TOTAL NEW TREES REQUIRED	53	53
C. 30% palm species allowed (two palms = one tree) Palms provided =	62	23
D. Percentage of native trees required = number of trees provided x 30% =	32	37

SHRUBS	REQUIRED	PROVIDED
A. The total number of trees required x 10 = the number of shrubs required	1,040	1,122
B. The total number of trees required x 30% = the number of native shrubs required	312	1,066

IRRIGATION: Required by Chapter 33. Auto Irrigation  or hose bib  provided.

**LANDSCAPE LEGEND - South Campus (This info to be permanently affixed to the plan.)**

Zoning District:	EU-1	Net Lot Area:	5.41	(acres)	235,804	(square feet)
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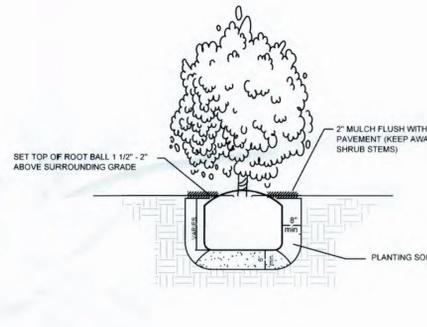
OPEN SPACE REQUIREMENTS	REQUIRED	PROVIDED
A. Square feet of open space required by Chapter 33, as indicated on site plan: Net Lot area = 235,804 square feet x N/A % = #VALUE! square feet	N/A	N/A
B. Square feet of parking lot open space required by Chapter 18A, as indicated on site plan: The number of parking spaces N/A x 10 square feet per parking space =	N/A	N/A
C. Total square feet of landscaped open space required by Chapter 33 = A+B=	N/A	N/A

LAWN AREA CALCULATION	REQUIRED	PROVIDED
A. Total square feet of landscape open space required by Chapter 33 =	N/A	N/A
B. Maximum lawn area (St. Augustine sod) permitted = N/A % = #VALUE! square feet	N/A	N/A

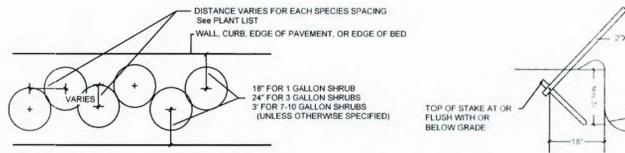
TREES	REQUIRED	PROVIDED
A. The number of trees required per net lot acre = 28 trees x net lot acreage =		
TOTAL SITE TREES REQUIRED	152	158
less the existing number of trees that meet the minimum requirements (minus)	107	107
TOTAL NEW SITE TREES REQUIRED	50	55
B. Street trees (max. average spacing of 35' o.c.) = 995 linear feet along street / 35 = 28	28	28
Palms as street trees (max. average spacing of 25' o.c.) = 325 linear feet along street / 25 = 13	13	13
Street trees located directly beneath power lines (Max. average spacing 25' o.c.) = 0	-	-
TOTAL STREET TREES REQUIRED	41	41
GRAND TOTAL TREES REQUIRED	193	199
GRAND TOTAL NEW TREES REQUIRED	91	96
C. 30% palm species allowed (two palms = one tree) Palms provided =	115	85
D. Percentage of native trees required = number of trees provided x 30% =	58	58

SHRUBS	REQUIRED	PROVIDED
A. The total number of trees required x 10 = the number of shrubs required	1,930	4,292
B. The total number of trees required x 30% = the number of native shrubs required	579	3,318

IRRIGATION: Required by Chapter 33. Auto Irrigation  or hose bib  provided.

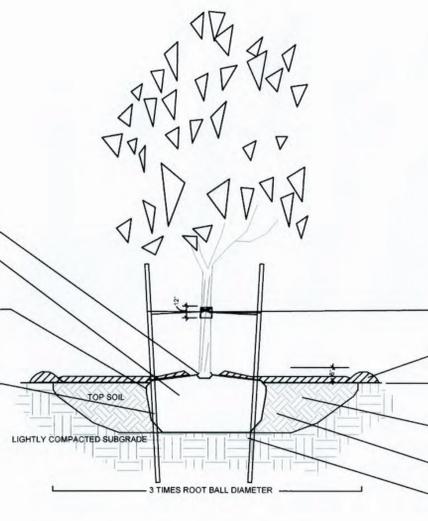


**SHRUB INSTALLATION DETAIL**  
N.T.S.

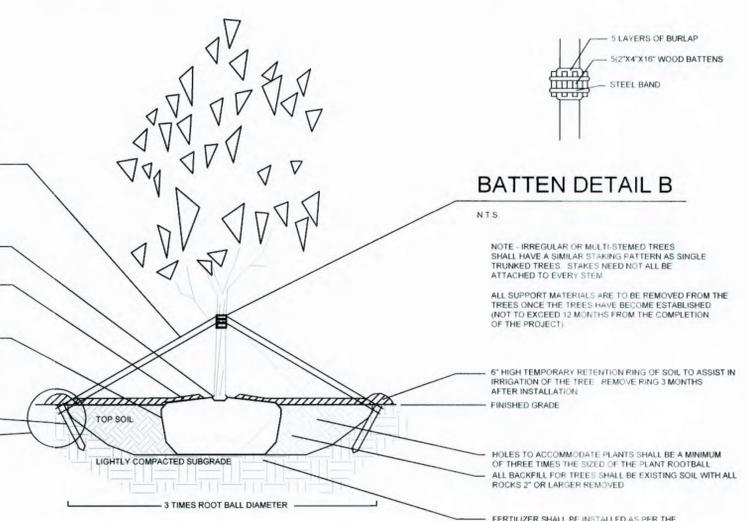


**SHRUB SPACING DIAGRAM**  
N.T.S.

**DETAIL A**  
N.T.S.



**PLANTING & BRACING DETAIL UNDER 3 1/2" CALIPER**  
N.T.S.



**PLANTING & BRACING DETAIL OVER 3 1/2" CALIPER**  
N.T.S.

**BATTEN DETAIL B**  
N.T.S.

**LANDSCAPE SPECIFICATIONS AND DETAILS**

1  
LA-6

SCALE: N.T.S.

0 20' 40' 80'

No.	REVISION	BY
1	REVISED	TKS
2	REVISED	TKS
4	REVISED	TKS
5	REVISED	TKS
6	REVISED	TKS

DR: [Signature] APPROVED BY:

AD: [Signature]

DATE: [Signature] SCALE:

JAN [Signature] 10/14/15



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