EXISTING TREE INVENTORY DETAILS - SEE SHEET L1.4 FOR LOCATIONS

Tree #	Size	Species	Rating	Credit	Preserved	Palm Trunks Saved	Palm Trunks Removed
1-106	Not Used						
107	25' CT	Senegal Date palm (*Phoenix reclinata*), cluster	4	x			12.5
108	16' CT	Senegal Date palm, cluster	3.5	x			12.5
109	33' CT	Senegal Date palm, stand	4	x	x	50	
110	21' CT	Canary Island date palm (*Phoenix canariensis*)	3.5	x	x	24	
111	21' CT	Senegal Date palm, cluster	4	x	x	12.5	
112	14"	crape myrtle (*Lagerstroemia spp.)*	4.5	x			
113	4"	crape myrtle	3	x			
114	16"	crape myrtle	3.5	x			
115	29"	Formosa sweetgum (*Liquidambar formosana*)	2.5				
116	32"	Formosa sweetgum	3	x			
117	4"	orange (*citrus spp.*)	3	x			
118	33' CT	Senegal Date palm, stand	4	x	x	50	
119	19"	live oak (*Quercus virgiana*)	3	x	x		
120	20"	live oak	2.5		x		
121	20"	water oak (*Quercus nigra*)	3	x	x		
122	15"	live oak	3	x	x		
123	20"	laurel oak (*Quercus laurifolia*)	3	x	x		
124	21' CT	Canary Island date palm	3.5	x		24	
125	24"	camphor (*Cinnamomum camphora*)	3	x			
126	15"	magnolia (*Magnolia grandiflora*)	3.5	x			
127	32"	live oak	3	x			
128	18"	live oak	2.5				
129	19"	laurel oak	2.5				
130	16"	camphor	2.5				
131	28"	live oak	3	x	x		
132	25"	laurel oak	3	x	x		
133	16"	long leaf pine (Pinus palustris)	3	x	x		
134	20"	water oak	3	x	x		
135	18"	dahoon holly (*Ilex cassine*)	3	x	x		
136	68"	sweet bay (Magnolia virginiana)	2.5				
137	24"	laurel oak	2.5		x		
138	19"	live oak	3	x	x		
139	25"	live oak	2.5		x		
140	30' CT	Cabbage Palm, (*Sabel palmetto*)	3	x		1	
141	24' CT	Cabbage palm	3.5	x		2.5	
142	21' CT	Cabbage palm	3	x		1	
143	27' CT	Senegal Date palm, cluster	3.5	x			
144	33' CT	Senegal Date palm, stand	4	x	x	5	
145	28"	laurel oak	2.5				
146	27' CT	Cabbage palm	3.5	x			2.5
147	13"	East Palatka holly (*Ilex x attenuate*)	1				
148	16"	East Palatka holly	1				
149	17"	live oak	3	x			
150	21' CT	Senegal Date palm, cluster	5	x			
151	15"	laurel oak	4	x			
152	13"	laurel oak	3.5	x	x		
153	21' CT	Senegal Date palm, stand	5	x	x	50	
154	72"	punk (*Melaleuca quinquenervia*)	2.5		x		
155	28"	live oak	3.5	x			
156	21' CT	paurotis palm (*Acoelorrhaphe wrightii*) cluster	4	x	x		
157	11"	live oak	2.5		x		
158	17"	live oak	3	x	x		
159	19"	laurel oak	3.5	x	x		
160	27' CT	paurotis palm, stand	4	x	x	50	
161	12' CT	paurotis palm, cluster	2		xx		
162	11"	ligustrum (*Ligustrum spp.*)	2				
163	18' CT	paurotis palm, cluster	3	x			1
164	12' CT	paurotis palm, cluster	2.5				
165	13"	East Palatka holly	1				
166	12"	East Palatka holly	0.5				
167	12"	East Palatka holly	1				
168	11"	East Palatka holly	0.5				
169	Varies	podocarpus (*Podocarpus macrophyllus*), stand	3	x	x		
170	20"	podocarpus	3	x	x		
171	18"	podocarpus	3	x	x		
172	28"	podocarpus	3	x	x		
173	28"	podocarpus	3	x	x		
174	32"	podocarpus	3	x	x		
175	10"	podocarpus	3	x	x		
176	6"	podocarpus	3	x	x		
177	14"	podocarpus	3	x	x		
178	7"	podocarpus	3	x	x		
179	8"	podocarpus	3	x	x		
180	Varies	podocarpus, stand	3	x	x		

- This stand lines Belcher Road. The trees have a mature height and they are planted as a hedge approx. 3' on center.

EXISTING TREE INVENTORY DETAILS cont.

Tree #	Size	Species	Rating	Credit	Preserved
181	9"	slash pine (*Pinus elliottii*)	3	x	
182	13"	slash pine	3	x	
183	12"	slash pine	4	x	
184	14"	slash pine (paid in lieu)	3		
185	11"	slash pine	2.5		
186	13"	slash pine	0		
187	11"	slash pine	3	x	
188	13"	slash pine	0		
189	9"	slash pine	0		
190	15"	slash pine	3	x	
191	12"	slash pine	0		
192	7"	slash pine	3	x	
193	12"	slash pine (paid in lieu)	3		
194	26"	Chinese elm (*Ulmus parvifolia*)	2.5		
195	13"	slash pine	2.5		
196	8"	slash pine	0		
197	13"	slash pine	0		
198	11"	slash pine	0		
199	12"	slash pine	0		
200	13"	slash pine	3	x	
201	10"	slash pine	3	x	
202	16"	slash pine	3	x	
203	13"	slash pine	3	x	
204	12"	slash pine	3	x	
205	10"	slash pine	3	x	
206	13"	slash pine	2.5		
207	18"	myrtle oak (*Quercus myrtifolia*)	2.5		
208	13"	slash pine	2.5		
209	13"	slash pine	3	x	
210	13"	slash pine	3	x	
211	13"	slash pine	0		
212	14"	slash pine	3	x	
213	15"	slash pine	3.5	x	
214	8"	slash pine	3	x	
215	13"	slash pine	3	x	
216	11"	slash pine	0		
217	14"	slash pine (paid in lieu)	3.5		
218	10"	slash pine	3	x	
219	11"	slash pine	0		
220	13"	slash pine	3	x	
221	10"	slash pine (paid in lieu)	3		
222	11"	slash pine	3.5	x	
223	29"	myrtle oak	3	x	
224	44"	live oak	3.5	x	
225	24"	myrtle oak	4	x	x
226	18"	myrtle oak	2.5		x
227	6,8,9"	ligustrum	1		x
228	4,7,8"	ligustrum	2.5		x
229	12"	ligustrum	2		x
230	7,13"	ligustrum	2.5		x
231	12"	ligustrum	1		x
232	7,9"	ligustrum	2		x
233	18"	slash pine	4	x	x
234	16"	slash pine	3	x	
235	4,6"	ligustrum	2		xx
236	52"	live oak	5.5	x	x
237	15"	slash pine	4.5	x	
238	26"	live oak	3.5	x	x
239	7"	ligustrum	1		xx
240	25"	live oak	3	x	
241	23"	live oak	3.5	x	
242	23"	live oak	3	x	
243	21"	live oak	3.5	x	
244	5"	laurel oak	4.5	x	
245	8,10"	ligustrum	2		
246	12"	Chinese elm	3	x	x
247	7"	Chinese elm	3	x	
248	11"	Chinese elm	3	x	x
249	10'	cherry laurel (*Prunus caroliniana*)	3	x	x

EXISTING TREE REPLACEMENT CALCULATIONS

Total Inches DBH with rating 3.0 and above =	1131
Total Palm Inches with rating 3.0 and above =	298.5
	1429.5
Total Inches Trees DBH with rating 3.0 and above preserved =	822.5
Total Palm Inches with rating 3.0 and above preserved =	270
	1092.5
Total Inches and Credits being removed =	337
(25% zoning MHDR allowable one time deduction)	-84.25
(see Section 3.1205-5.f Clearwater City Code)	

Credit for undeveloped multi-family and commercial property. Twenty-five percent of the DBH of the trees existing on an undeveloped property zoned MHDR, HDR, or any commercially designated property shall be permitted to be removed with no requirements for tree replacements. This removal allowance may be used only one time on any particular site.

Total Inches DBH required to be replaced after credits =	252.75
Total Inches DBH to be replanted =	301.5

BOUNDARY TREE CALCULATIONS

Total Site = 3,308 LF/35 = 95 BOUNDARY TREES REQUIRED
SEE SHEET L1.1 FOR BOUNDARY TREES INCLUDING NEW AND EXISTING
58 NEW TREES PROVIDED, EXISTING BOUNDARY TREES = 52 EQUIVALENT
SEE AERIAL FOR EXISTING TREE COVERAGE ALONG BELCHER RD.

VEHICULAR USE AREA CALCULATIONS

See Sheet L1.8 for graphic represtation

VEHICULAR USE AREA =	89,746 SF
INTERIOR LANDSCAPED AREA =	51,572 SF
INTERIOR LANDSCAPED AREA = 57% OF VUA	

TREE REPLACEMENT CALCULATIONS

96 SHADE TREES @ 2.5" cal. = 240"
5 UNDERSTORY TREES @ 2" = 10"
17 ACCENT TREES @ 1.5" cal. = 25.5"
4 PALM TREES @ 2.5" = 10"
16 PALM TREES @ 1" = 16"
138 TOTAL TREES
70% SHADE, 16% ACCENT, 12% PALMS

Northside Engineering Inc.
300 South Belcher Road, Clearwater, Florida 33765
Tel: 727-443-2869 Fax: 727-446-8038
tech@northsideengineering.net
Est. 1989
Civil Land Planning Traffic Studies Landscape
Due Diligence Reports Land Use Re-Zoning
Storm Water Management Utility Design
Construction Administration

ROMAN EARTH
ARCHITECTURAL & LANDSCAPE DESIGN
DEBRA L. ROMAN
LANDSCAPE ARCHITECT
813.431.9338 DEBRA@ROMANEARTH.COM

Digitally signed by Debra Roman
Date: 2015.11.28 22:44:32 -05'00'
DEBRA ROMAN, RLA
LA#6666762
COPIES OF THESE PLANS ARE NOT VALID UNLESS EMBOSSED WITH THE SIGNING ENGINEER'S SEAL

Project #
Issue Date:
Revisions:

No.	Date	Description
1	14 NOV 16	REVISE CALCS.
2	/ /	
3	/ /	
4	/ /	
5	/ /	
6	/ /	
7	/ /	
8	/ /	
9	/ /	

LANDSCAPE PLAN - TREE NOTES/ CALCULATIONS

MONTCLAIR LAKE ESTATES
2251 MONTCLAIR ROAD
CLEARWATER, FLORIDA 33763

Northside Engineering Inc.

L1.5