

LIST OF LANDSCAPE DRAWINGS	
TD-1.1	TREE DISPOSITION PLAN
TD-1.2	TREE INVENTORY - TREE MITIGATION TABLE
L-1.1	SITE LANDSCAPE PLAN
L-1.2	PLANTLIST & STREET TREES TABULATION
L-1.3	LEVEL 5 LANDSCAPE PLAN
L-1.4	LANDSCAPE NOTES
L-1.5	CROSS SECTION NATURAL BIO-RETENTION AREA
L-1.6	LANDSCAPE DETAILS
L-1.7	LANDSCAPE DETAILS
L-1.8	LANDSCAPE DETAILS
L-1.9	DEEP ROOT SILVA CELLS SPECIFICATIONS, ETC.
L-1.10	DEEP ROOT SILVA CELLS SPECIFICATIONS, ETC.

A WRITTEN TREE REMOVAL PERMIT IS REQUIRED FROM THE CITY OF MIAMI BEACH PRIOR TO REMOVAL OF ANY TREES FROM THIS SITE.



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**JFS Design Inc.**  
LANDSCAPE ARCHITECTURE  
LC 000393

FINAL SUBMITTAL  
7140 ABBOTT AVE, MIAMI  
BEACH, FL 33141

TREE DISPOSITION PLAN

SCALE: AS SHOWN



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Date: 2020.02.10 09:14:18 -05'00'

DATE:  
02/10/20

TD-1.1

# TREE MITIGATION-REPLACEMENT PLANTLIST

SYM.	NATIVE *	NAME	BOTANICAL NAME	SPECIFICATION
<b>REMOVAL OF 279" D.B.H. OF EXISTING TREES</b>				
<b>MITIGATION REQUIREMENT: 94 TREES @ 12' HT., 2" DBH OR 47 TREES @ 16' HT., 4" DBH</b>				
<b>SEE TREE DISPOSITION PLAN FOR EXISTING TREE INVENTORY AND STATUS</b>				
<b>PROVIDED MITIGATION: 75 trees @ 12' ht. (equivalency of 12 trees @ 16' ht, 4" dbh and 11 @22', 6"dbh)</b>				
AR	YES	5 RED MAPLE	<i>Acer rubrum</i>	12' x 6'spr., 2" D.B.H.
BS	YES	12 GUMBO LIMBO	<i>Bursera simaruba</i>	16' X 12'spr., 4" D.B.H., 6' CLEAR TRUNK
CE	YES	4 GREEN BUTTONWOOD	<i>Conocarpus erectus</i>	12' x 6'spr., 2" D.B.H.
CET	YES	9 SILVER BUTTONWOOD	<i>Conocarpus erectus</i> "sericeus"	12' x 6'spr., 2" D.B.H.
QVS	YES	11 LIVE OAK SPECIMEN	<i>Quercus virginiana</i>	22' X 12'spr., 6" D.B.H., 8' CLEAR TRUNK
<b>TREES WITHIN THE RIGHT OF WAY SHALL BE STANDARD, SINGLE-LEADER WITH 4' OF CLEAR TRUNK AT TIME OF PLANTING</b>				
<b>MITIGATION DEFICIT: 19 TREES @ 12' HT., 2" DBH</b>				
<b>TOTAL: \$19,000 ( 19 TREES @ \$1,000 EACH)</b>				
<b>REMOVAL OF 3 EXISTING PALMS: MITIGATION REQUIREMENT @ 2:1 = 6 PALMS</b>				
<b>PROVIDED MITIGATION: 0 PALMS</b>				
<b>MITIGATION DEFICIT: 6 PALMS = 3 TREES @ 12' HT., 2" DBH</b>				
<b>TOTAL MITIGATION DEFICIT: 19 TREES + 3 TREES = \$22,000</b>				
<b>MITIGATION DEFICIT TO BE A PAYMENT TO THE CITY OF MIAMI BEACH TREE TRUST FUND.</b>				

## NOTES:

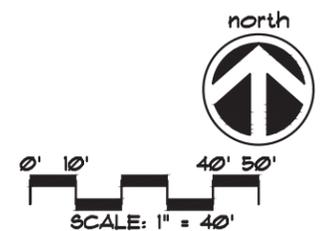
- SEE LANDSCAPE PLANS FOR PROPOSED LANDSCAPE PLANTINGS, LANDSCAPE LEGEND, PLANTLIST, SPECIFICATIONS, DETAILS, ETC.
- THE CONTRACTOR SHALL REMOVE ALL TREES AND HEDGES AS PER PLANS AND AS APPROVED BY THE LOCAL GOVERNING AGENCIES (CITY OF MIAMI BEACH). TREE, PALM AND HEDGE MATERIAL SHALL INCLUDE ALL TRUNKS, STUMPS AND ROOTS. ALL EXCESS DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED SITE. ALL HOLES AND DEPRESSIONS SHALL BE BACKFILLED WITH CLEAN, APPROVED BACKFILL.
- ALL INVASIVE EXOTIC VEGETATION AND ANY ANY OTHER PLANTS LISTED AS CATEGORY I, ON THE FLORIDA EXOTIC PEST PLANT COUNCIL'S LIST OF FLORIDA'S MOST INVASIVE SPECIES SHALL BE REMOVED FROM THE SITE AND MAINTENANCE SHALL GUARANTEE CONTROL OF RE-INVASION.

## 19-66-7140 ABBOTT AVE., MIAMI BEACH, FL. 33140

1/14/2020

TREE NUM	SYM	COMMON NAME	BOTANICAL NAME	HEIGHT	SPRE	DBH	STATU	DBH	PALM
						inches		LOSS	LOSS
39103	3	QV	LIVE OAK	<i>Quercus virginiana</i>	18	25	10	REMOVE	10
39104	4	QV	LIVE OAK	<i>Quercus virginiana</i>	15	10	4	REMOVE	4
39105	5	QV	LIVE OAK	<i>Quercus virginiana</i>	24	28	10	REMOVE	10
39106	6	QV	LIVE OAK	<i>Quercus virginiana</i>	28	25	12	REMOVE	12
39107	7	QV	LIVE OAK	<i>Quercus virginiana</i>	35	33	12	REMOVE	12
39108	8	QV	LIVE OAK	<i>Quercus virginiana</i>	35	27	12	REMOVE	12
39109	9	WR	WASHINGTONIA PAL	<i>Washingtonia robusta</i>	10	10	14	REMOVE	
39110	10	QV	LIVE OAK	<i>Quercus virginiana</i>	30	25	12	REMOVE	12
39111	11	QV	LIVE OAK	<i>Quercus virginiana</i>	35	33	12	REMOVE	12
39112	12	QV	LIVE OAK	<i>Quercus virginiana</i>	18	15	5	REMOVE	5
39113	13	QV	LIVE OAK	<i>Quercus virginiana</i>	30	35	12	REMOVE	12
39114	14	QV	LIVE OAK	<i>Quercus virginiana</i>	30	35	12	REMOVE	12
39115	15	CU	SEAGRAPE	<i>Coccoloba uvifera</i>	25	20	12	REMOVE	12
39116	16	AM	CHRISTMAS PALM	<i>Adonidia merrillii</i>	18	16	4,4	REMOVE	1
39117	17	SP	SABAL PALM	<i>Sabal palmetto</i>	14	10	12	REMOVE	
39118	18		PALM		16	10	4	REMOVE	1
39119	19	SM	MAHOGANY	<i>Swetenia mahogani</i>	35	33	14	REMOVE	14
39120	20	WR	WASHINGTONIA PAL	<i>Washingtonia robusta</i>	40	10	16	REMOVE	1
39121	21	CU	SEAGRAPE	<i>Coccoloba uvifera</i>	30	25	12	REMOVE	12
39122	22	SM	MAHOGANY	<i>Swetenia mahogani</i>	40	30	18	REMOVE	18
39123	23	SM	MAHOGANY	<i>Swetenia mahogani</i>	35	20	10	REMOVE	10
39124	24	SM	MAHOGANY	<i>Swetenia mahogani</i>	20	15	4	REMOVE	4
39125	25		FAN PALM CLUSTER		12	9	36	REMOVE	
39127	27	SM	MAHOGANY	<i>Swetenia mahogani</i>	32	22	14	REMOVE	14
39128	28	SM	MAHOGANY	<i>Swetenia mahogani</i>	25	15	12	REMOVE	12
39129	29	SM	MAHOGANY	<i>Swetenia mahogani</i>	25	10	12	REMOVE	12
39130	30	SM	MAHOGANY	<i>Swetenia mahogani</i>	30	22	14	REMOVE	14
39131	31	SM	MAHOGANY	<i>Swetenia mahogani</i>	30	10	10	REMOVE	10
39132	32	SM	MAHOGANY	<i>Swetenia mahogani</i>	40	25	14	REMOVE	14
39133	33	CE	GREEN BUTTONWOOD	<i>Conocarpus erectus</i>	25	15	14	REMOVE	14
39134	34	CE	GREEN BUTTONWOOD	<i>Conocarpus erectus</i>	20	8	16	REMOVE	16
39135	35	WR	WASHINGTONIA PAL	<i>Washingtonia robusta</i>	4	8	12	REMOVE	
<b>TOTALS</b>								279	3
<b>FIELD INVENTORY CONDUCTED BY JFS DESIGN INC. ON NOVEMBER 15, 2019</b>									

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LANDSCAPE ARCHITECTURE  
LC 000393

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BEACH, FL 33141

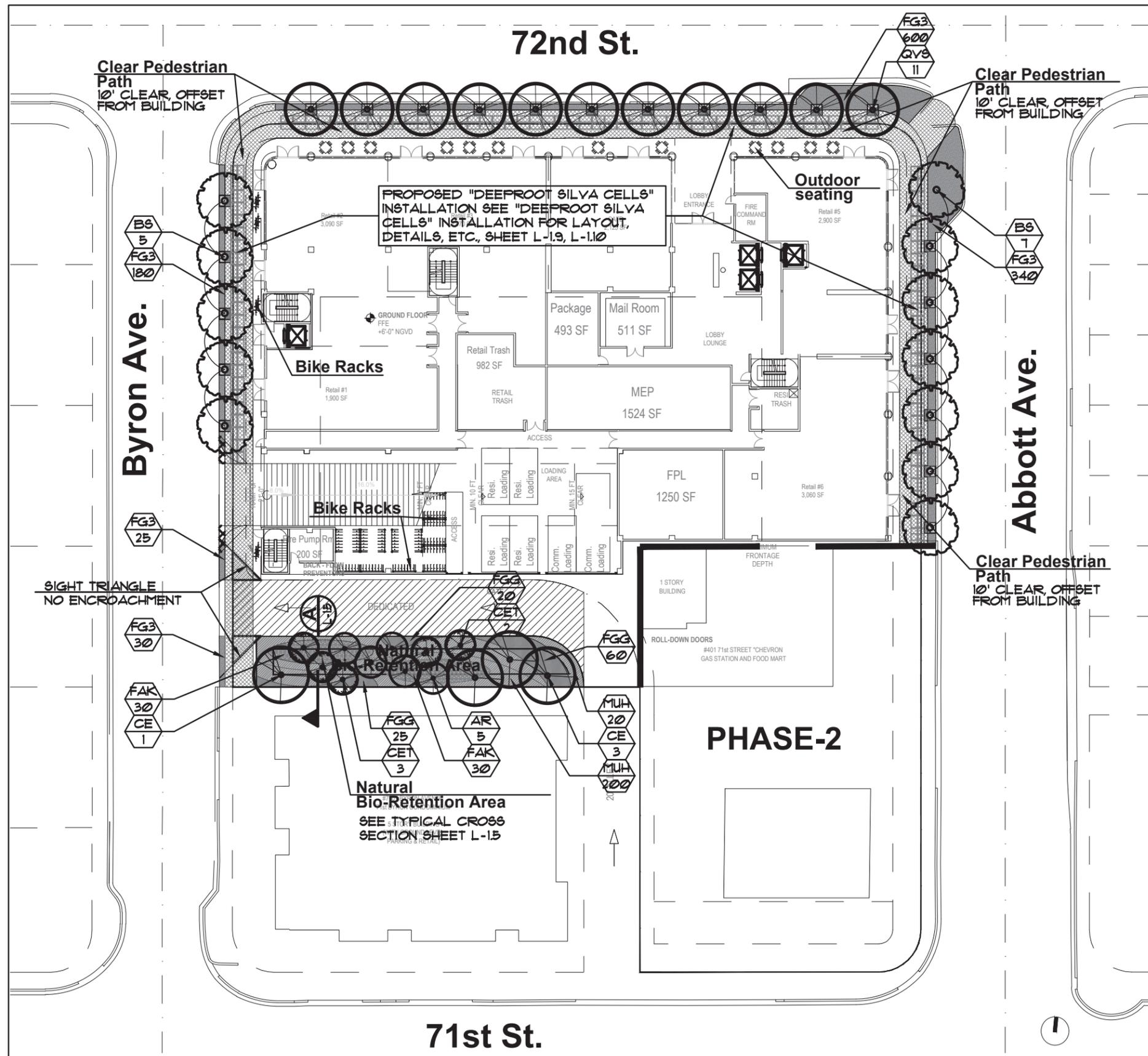
**TREE INVENTORY- TREE MITIGATION TABLE**

SCALE: AS SHOWN



DATE:  
02/10/20

**TD-1.2**

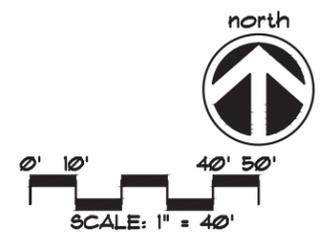


**CITY OF MIAMI BEACH**  
**LANDSCAPE LEGEND**

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS

Zoning District TC-1 Lot Area 53,776 s.f. Acres 1.23

	REQUIRED/ALLOWED	PROVIDED
<b>OPEN SPACE</b>		
A. Square feet of required Open Space as indicated on site plan: Lot Area = <u>53,776</u> s.f. x <u>20</u> % = <u>10,755</u> s.f.	<u>10,755 s.f.</u>	<u>2,010 s.f.</u>
B. Square feet of parking lot open space required as indicated on site Number of parking spaces <u>N/A</u> x 10 s.f. parking space =	<u>N/A</u>	<u>N/A</u>
C. Total square feet of landscaped open space required: A+B=	<u>10,755 s.f.</u>	<u>2,010 s.f.</u>
<b>LAWN AREA CALCULATION</b>		
A. Square feet of landscaped open space required	<u>10,755 s.f.</u>	<u>2,010 s.f.</u>
B. Maximum lawn area (sod) permitted = <u>50</u> % x <u>10,755</u> s.f.	<u>5,378 s.f.</u>	
<b>TREES</b>		
A. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements = <u>22</u> trees x <u>1.35</u> net lot acres - number of existing trees =	<u>30</u>	<u>14</u>
B. % Natives required: Number of trees provided x 30% =	<u>9</u>	<u>14</u>
C. % Low maintenance / drought and salt tolerant required: Number of trees provided x 50% =	<u>15</u>	<u>5</u>
D. Street Trees (maximum average spacing of 20' o.c.) <u>731</u> linear feet along street divided by 20' = <u>37</u>	<u>37</u>	<u>23</u>
E. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.): _____ linear feet along street divided by 20' =		
<b>SHRUBS</b>		
A. Number of shrubs required: Sum of lot and street trees required x 12 =	<u>804</u>	<u>0</u>
B. % Native shrubs required: Number of shrubs provided x 50% =	<u>402</u>	<u>0</u>
<b>LARGE SHRUBS OR SMALL TREES</b>		
A. Number of large shrubs or small trees required: Number of required shrubs x 10% =	<u>81</u>	<u>0</u>
B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50% =	<u>41</u>	<u>0</u>



# PLANTLIST

SYM.	NATIVE	#	NAME	BOTANICAL NAME	SPECIFICATION
<b>PROPOSED TREES</b>					
AR	YES	5	RED MAPLE	<i>Acer rubrum</i>	12' x 6'spr., 2" D.B.H.
BS	YES	12	GUMBO LIMBO	<i>Bursera simaruba</i>	16' X 12'spr., 4" D.B.H., 6' CLEAR TRUNK
CE	YES	4	GREEN BUTTONWOOD	<i>Conocarpus erectus</i>	12' x 6'spr., 2" D.B.H.
CET	YES	5	SILVER BUTTONWOOD	<i>Conocarpus erectus</i> "Sericeus"	12' x 6'spr., 2" D.B.H.
QVS	YES	11	LIVE OAK SPECIMEN	<i>Quercus virginiana</i>	22' X 12'spr., 6" D.B.H., 8' CLEAR TRUNK
FL. FANCY, CHARACTER					
SUBMIT PHOTO for APPROVAL					
<b>GROUNDCOVERS</b>					
FG3		1,175	"GREEN ISLAND" FICUS	<i>Ficus "Green Island"</i>	3 gal., 18" x 18", 18" o.c., full
MUH	YES	220	MUHLY GRASS	<i>Muhlenbergia capillaris</i>	1 gal., 12" x 12", 18" o.c., full
FAK	YES	60	FAKAHATCHEE GRASS	<i>Tripsacum dactyloides</i>	3 gal., 24" x 24", 30" o.c., full
FGG	YES	105	FLORIDA GAMA GRASS	<i>Tripsacum floridana</i>	1 gal., 12" x 12", 18" o.c., full
<b>TOPSOIL:</b>					
		TOPSOIL:SAND MIX		50:50 TOPSOIL:SAND MIX, SPREAD IN PLACE	
		24 C.Y. TREES, PALMS, SHRUBS AND GROUNDCOVERS			
<b>MULCHING:</b>					
		42 C.Y.+/- RECYCLED DRK BRUN MULCH		3" DEPTH, SPREAD IN PLACE, ATLAS FEAT AND SOIL	
PROVIDE SAMPLE FOR APPROVAL PRIOR TO INSTALLATION					
--- TOPSOIL, SOD AND MULCH QUANTITIES SHOWN ARE APPROXIMATE, CONTRACTOR TO PROVIDE A UNIT PRICE PER UNIT AND WILL BE PAID ON THAT UNIT PRICE BASIS UPON FINAL INSPECTION AND APPROVAL.					
<b>INSTALLATION WATERING:</b>					
CONTRACTOR SHALL THOROUGHLY WATER-IN ALL PLANTINGS WHEN PLANTED, AND SHALL CONTINUE WATERING UNTIL FINAL INSPECTION AND APPROVAL BY THE LOCAL GOVERNING AGENCY AND THE OWNER.					

# STREET TREE TABULATIONS

	REQUIRED	PROVIDED
<b>BYRON AVE.</b> 197 L.F. , 1 TREE/ 20 L.F. = 10 TREES	<b>10</b>	<b>5</b> 5 BS
<b>72TH STREET</b> 239 L.F. , 1 TREE/ 20 L.F. = 12 TREES	<b>12</b>	<b>11</b> 11 QVS
<b>ABBOTT AVE.</b> 295 L.F. , 1 TREE/ 20 L.F. = 15 TREES	<b>15</b>	<b>7</b> 7 BS
NOTE: PROPOSED STREET TREE PLANTINGS ARE SHOWN TO BE INSIDE OF THE PROPERTY DUE TO SIGHT TRIANGLE RESTRICTIONS AS SHOWN ON THE PLAN.		
<b>TOTALS</b>	<b>37</b>	<b>23</b>

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PLANTLIST &  
STREET TREES TABULATION

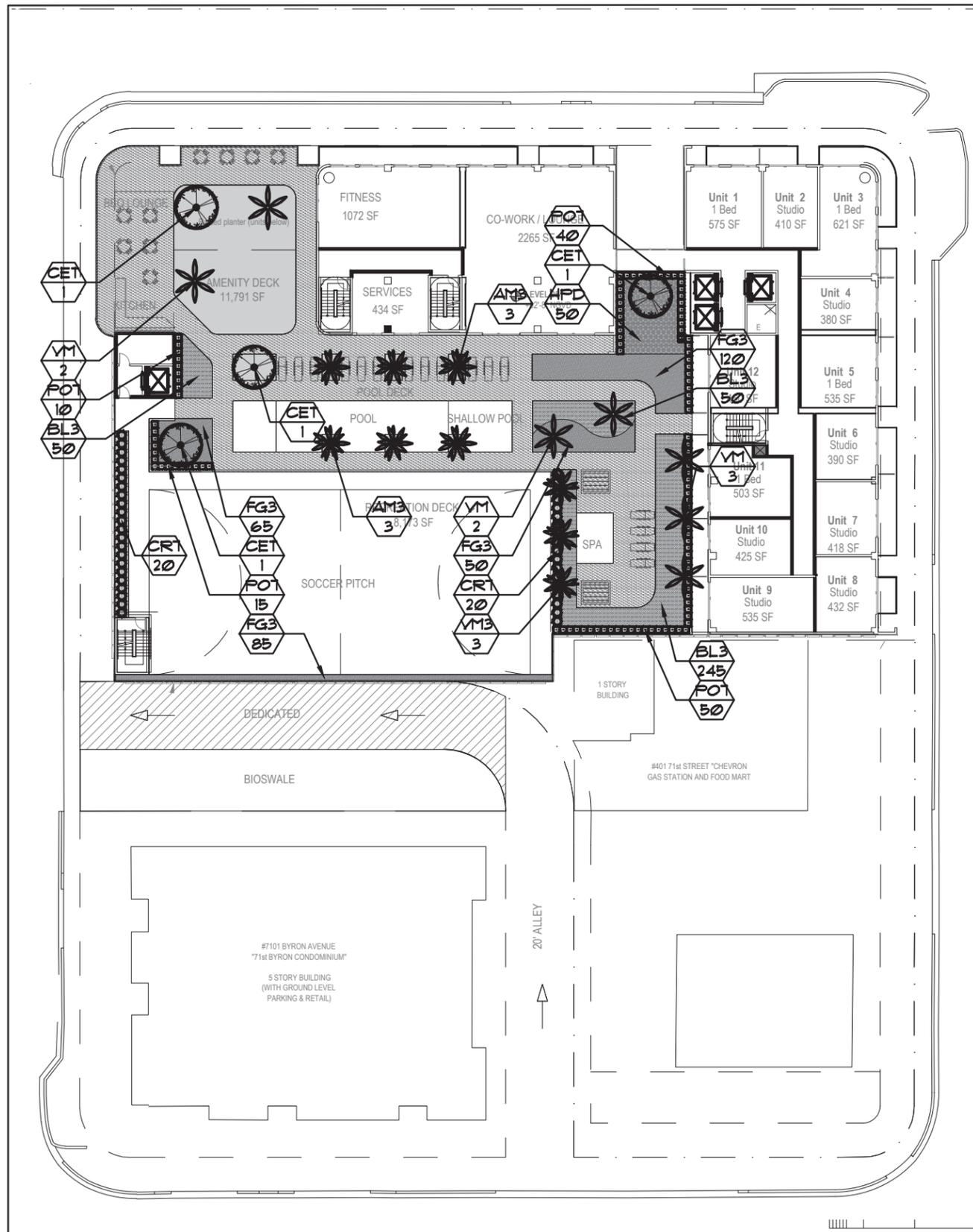
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cn=James F.  
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02/10/20

**L-1.2**



# PLANTLIST

SYM.	NATIVE	#	NAME	BOTANICAL NAME	SPECIFICATION
<b>PROPOSED TREES</b>					
CET	YES	4	SILVER BUTTONWOOD	<i>Conocarpus erect.</i> "Sericeus"	12' x 6'spr., 2" DB.H.
<b>PALMS</b>					
AM3		6	CHRISTMAS PALM	<i>Adonidia merrillii</i>	FG., 10' o.a., TPL., full head
VM		7	MONTGOMERY PALMS	<i>Veitchia montgomeryana</i>	SGL. TK, FG., 14' o.a., full hd.
VM3		3	MONTGOMERY PALMS	<i>Veitchia montgomeryana</i>	TPL. TK, FG., 14' o.a., full hd.
<b>SHRUBS</b>					
CR1	YES	40	SMALL-LEAVED CLUSIA	<i>Clusia guttifera</i>	1 GAL., 36" ht., 30" Ø.C., FTB.
HPD	YES	50	DWARF FIREBUSH	<i>Hamelia nodosa</i>	3 gal., 18" x 18", 24" o.c.
POT		115	PODOCARPUS HEDGE	<i>Podocarpus spp.</i>	1 gal., 30" x 24", full heavy
<b>GROUNDCOVERS</b>					
BL3		345	BLUEBERRY FLAX LILY	<i>Dianella tasmanica</i>	3 gal., 12" x 18", 18" o.c., full
FG3		320	"GREEN ISLAND" FICUS	<i>Ficus "Green Island"</i>	3 gal., 18" x 18", 18" o.c., full
<b>TOPSOIL:</b>					
		370 c.y.	"2100 MIX" FOR PLANTING-PER ATLAS PEAT AND SOIL FOR PLANTER BOXES BASED UPON 4,970 SF. X 2' DEPTH/21 C.F. PER C.Y.		
<b>MULCHING:</b>					
		35 C.Y.+/-	RECYCLED DRK BRUN MULCH	3" DEPTH, SPREAD IN PLACE, ATLAS PEAT AND SOIL PROVIDE SAMPLE FOR APPROVAL PRIOR TO INSTALLATION	
		---	TOPSOIL, SOD AND MULCH QUANTITIES SHOWN ARE APPROXIMATE, CONTRACTOR TO PROVIDE A UNIT PRICE PER UNIT AND WILL BE PAID ON THAT UNIT PRICE BASIS UPON FINAL INSPECTION AND APPROVAL.		
<b>INSTALLATION WATERING:</b>					
			CONTRACTOR SHALL THOROUGHLY WATER-IN ALL PLANTINGS WHEN PLANTED, AND SHALL CONTINUE WATERING UNTIL FINAL INSPECTION AND APPROVAL BY THE LOCAL GOVERNING AGENCY AND THE OWNER		



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LEVEL 5  
LANDSCAPE PLAN

SCALE: AS SHOWN



Digitally signed by  
James F. Socash  
DN: c=US, o=JFS  
DESIGN INC.,  
ou=40141000000  
016E93E468BA000  
01E9C, cn=James F.  
Socash  
Date: 2020.02.10  
09:12:15 -0500

DATE:  
02/10/20

L-1.3

## ■ FERTILIZATION:

ONE COMPLETE APPLICATION OF GRANULAR FERTILIZER SHALL BE APPLIED PRIOR TO FINAL ACCEPTANCE AND APPROVAL BY THE LANDSCAPE ARCHITECT. AN ADDITIONAL FERTILIZATION PROGRAM SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR AN ANNUAL FERTILIZATION APPLICATION PROGRAM. FERTILIZERS SHALL BE PER ATLANTIC - AFEC FERTILIZER & CHEMICAL (AFEC) OR AN APPROVED EQUAL. CONTRACTOR SHALL SUBMIT FERTILIZATION AS A SEPARATE ITEM IN THE BID.

FERTILIZATION SHALL BE AS FOLLOWS: TREES: 12-06-08 (AFEC \* 5231) RATE: 1.5 LBS./ INCH OF DIA. @ DBH PALMS: 12-04-12 (AFEC \* 7216) RATE: 1.5 LBS./ INCH OF DIA. @ DBH SHRUBS AND GROUNDCOVERS: (12-06-08 AFEC \* 5231) RATE: 1.5 OZ./ FT. OF HEIGHT

## ■ ■ LANDSCAPE NOTES

1. ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 GRADE OR BETTER.
2. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATION OF AND AVOID AND PROTECT UTILITY LINES, BURIED CABLES, AND OTHER UTILITIES.
3. TREE, PALM, ACCENT AND BED LINES ARE TO BE LOCATED IN THE FIELD AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. ALL PLANTING SOIL SHALL BE 50:50 TOPSOIL:SAND MIX, FREE OF CLAY, STONES, ROCKS, OR OTHER FOREIGN MATTER. THIS SPECIFICATION INCLUDES ALL BACKFILL FOR BERMS AND OTHER LANDSCAPE AREAS.  
**SODDED-LAWN AREAS**  
2" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT.  
**GROUNDCOVER PLANTING BEDS:**  
6" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT.  
**SHRUB AND HEDGE PLANTING AREAS:**  
12" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT.  
**TREES, PALMS, SPECIMEN PLANT MATERIAL:**  
24" DEPTH PLANTING SOIL SPREAD IN PLACE OR, TO THE DEPTH OF THE ROOTBALL OR CONTAINER WHICHEVER IS GREATEST.  
**LANDSCAPE ISLANDS AND BUILDING FOUNDATIONS:**  
EXCAVATE AND REMOVE ALL LIMEROCK, ROCKS, DEBRIS, ETC. TO A DEPTH OF 18" AND BACKFILL W/ 50:50 TOPSOIL:SAND MIX.  
BUILDING FOUNDATIONS SHALL BE THE SAME DEPTH TO A WIDTH OF 36" FROM THE BUILDING BASE.
5. THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO BRING ALL GRADES TO WITHIN 2" OF FINAL GRADES. THIS SHALL INCLUDE A 2" APPLICATION OF 50:50 TOPSOIL:SAND MIX FOR ALL LANDSCAPE AND AREAS TO BE SODDED.
6. THE LANDSCAPE CONTRACTOR SHALL CALCULATE AND SUBMIT AN ITEMIZED PRICE FOR THE 2" APPLICATION OF 50:50 MIX FOR ALL SOD AREAS AS A REFERENCE IN THE CASE THAT THERE WOULD BE A DISCREPANCY BETWEEN SITE AND LANDSCAPE CONTRACTORS AND NOTIFY THE SITE CONTRACTOR OR PROJECT SUPERINTENDENT AS TO THIS DISCREPANCY. IT WILL THEN BE DETERMINED WHICH PARTY WILL PROVIDE THIS 2" TOPSOIL:SAND APPLICATION AND SUBSEQUENT PAYMENT.  
OTHER PLANTING SOIL MIXES TO BE ADDED, I.E. FOR TREES, PALMS, SPECIMEN PLANTS, SHRUBS AND GROUNDCOVERS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR AND BE INCLUSIVE WITH THE LANDSCAPE BID.
7. CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR AND LEAVE PROVISIONS FOR ALL, INCLUDING UNDERGROUND UTILITY LINE LOCATIONS DIAL 811 "NO CUTS" AS REQUIRED BY LAW.
8. ALL PLANTING BEDS SHALL BE MULCHED TO A DEPTH OF 3" WITH AN APPROVED RECYCLED MULCH BY THE PRESIDING GOVERNING AGENCY. NO HEAVY METALS, I.E. ARSENIC, LEAD, ETC. ARE TO BE CONTAINED IN THE MULCH AND THE CONTRACTOR SHALL PROVIDE CERTIFICATION OR PROOF THAT ALL MULCH IS FREE OF HEAVY METALS OR SIMILAR ENVIRONMENTAL CONTAMINANTS.
9. SOD SHALL BE ARGENTINE "BAHIA" OR ST. AUGUSTINE "FLORATAM" AS SHOWN ON THE PLANS, STRONGLY ROOTED, FREE FROM WEED, FUNGUS, INSECTS AND DISEASE. CONTRACTOR SHALL SOD ALL AREAS AS INDICATED ON THE PLAN OR AS DIRECTED. PAYMENT SHALL BE DETERMINED BY THE TOTAL MEASURED SODDED AREAS X THE UNIT PRICE SUBMITTED AND FIELD VERIFIED.
10. SOD SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AS DEFINED BY FDOT. SOD SHALL CARRY A 5-MONTH WARRANTY.

## ■ ■ LANDSCAPE NOTES

11. ALL TREES, PALMS, SHRUBS AND GROUNDCOVERS SHALL CARRY A ONE-YEAR WARRANTY FROM THE DATE OF FINAL ACCEPTANCE.
12. ALL TREES AND PALMS SHALL BE STAKED PER ACCEPTED STANDARDS BY THE FLORIDA NURSERYMEN & GROWERS LANDSCAPE ASSOCIATION (FNGLA). THERE SHALL BE ONE FINAL INSPECTION FOR APPROVAL BY THE PRESIDING GOVERNING AGENCY. CONTRACTOR SHALL INSURE THAT THE PLANS, DETAILS, SPECIFICATIONS AND NOTES HAVE BEEN ADHERED TO AND THAT THE LANDSCAPE AND IRRIGATION INSTALLATION IS COMPLIANT TO ALL ITEMS AS DIRECTED ON THE PLANS PRIOR TO SCHEDULING OF THE FINAL INSPECTION.
13. THE PLANT LIST IS INTENDED ONLY AS AN AID TO BIDDING. ANY DISCREPANCIES FOUND BETWEEN THE QUANTITIES ON THE PLAN AND PLANT LIST, THE QUANTITIES ON THE PLAN SHALL BE HELD VALID.
14. IRRIGATION SHALL PROVIDE FOR A 100% COVERAGE WITH A 100% OVERLAP, AUTOMATIC SYSTEM W/ RAIN MOISTURE SENSOR ATTACHED TO CONTROLLER. ALL FLORIDA BUILDING CODE APPENDIX "F" IRRIGATION REQUIREMENTS SHALL BE STRICTLY ADHERED TO FOR INSTALLATION AND PREVAILING WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS SHALL BE IN COMPLIANCE FOR POST-INSTALLATION WATERING SCHEDULES.
15. EXISTING IRRIGATION SYSTEM (IF APPLICABLE) SHALL BE RETROFITTED TO COMPLY WITH THOSE SPECIFICATIONS AS OUTLINED ABOVE.
16. CONTRACTOR SHALL PROVIDE A WATER TRUCK DURING PLANTING TO INSURE PROPER WATERING-IN DURING INSTALLATION AND WILL BE RESPONSIBLE FOR CONTINUAL WATERING UNTIL FINAL ACCEPTANCE BY THE OWNER.
17. ALL EXISTING TREES, PALMS AND PLANT MATERIAL TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL INSTALL PROTECTIVE BARRIERS SUCH AS "TENAX" PROTECTIVE FENCING OR AS SHOWN ON THE DETAILS TO BE INSTALLED AT THE BEGINNING OF THE PROJECT. BARRIERS SHALL BE LOCATED TO INCLUDE THE DRIPLINE OF THE TREES, PALMS AND PLANT MATERIAL WHERE POSSIBLE. THE CONTRACTOR SHALL TAKE EXTRA CAUTION TO PREVENT ANY DAMAGE TO THE TRUNK, BRANCHES, ROOTS, ROOT ZONE AREAS AND ADJACENT GRADES.
18. EXISTING TREES AND PALMS TO REMAIN SHALL BE TRIMMED PER ANSI-300 STANDARDS. SUPERVISION OF THE TRIMMING SHALL BE PERFORMED BY AN ISA-CERTIFIED ARBORIST.
19. ALL EXISTING TREES AND PALMS SHALL BE "LIFTED AND THINNED" TO PROVIDE FOR AN 8' MINIMUM CLEARANCE FOR SIDEWALKS AND PEDESTRIAN WALKWAYS AND A 14' MINIMUM CLEARANCE FOR ROADWAYS, DRIVEWAYS, AND ALL VEHICULAR USE AREAS.
20. REMOVAL OF ANY TREES OR PALMS WILL REQUIRE A WRITTEN "TREE REMOVAL PERMIT" FROM THE LOCAL GOVERNING AGENCY PRIOR TO REMOVAL.
21. ALL PLANTINGS IN NON-IRRIGATED AREAS, I.E. RIGHTS OF WAYS, SWALES, ETC. SHALL BE WATERED-IN THOROUGHLY AND CONTINUED TO BE WATERED THROUGHOUT UNTIL C.O. ACCEPTANCE. COORDINATE WITH OWNER AND PROJECT MANAGER TO PROVIDE POST C.O. WATERING TO INSURE PLANT ESTABLISHMENT FOR A MINIMUM OF ONE YEAR AFTER CERTIFICATE OF OCCUPANCY ACCEPTANCE.
22. THE LANDSCAPE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE LOCAL GOVERNING AGENCY, GENERAL CONTRACTOR, LANDSCAPE ARCHITECT, AND IRRIGATION CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.

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### LANDSCAPE NOTES

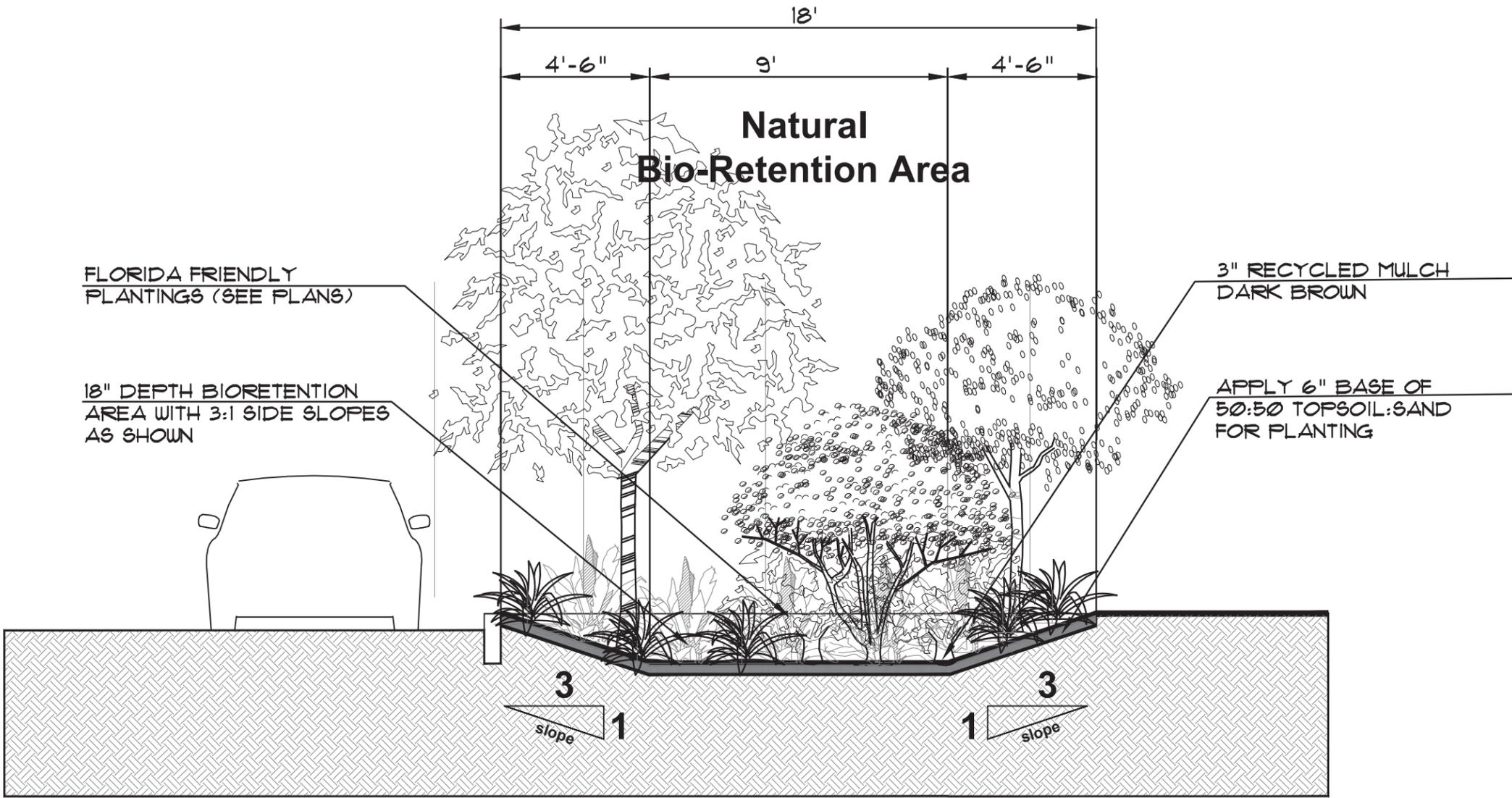
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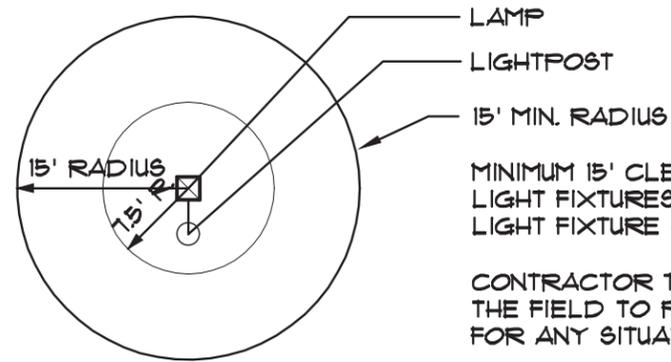
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**A** **CROSS SECTION A-A** **A**  
**L-1.5** **NATURAL BIO-RETENTION AREA** **L-1.5**  
 N.T.S.



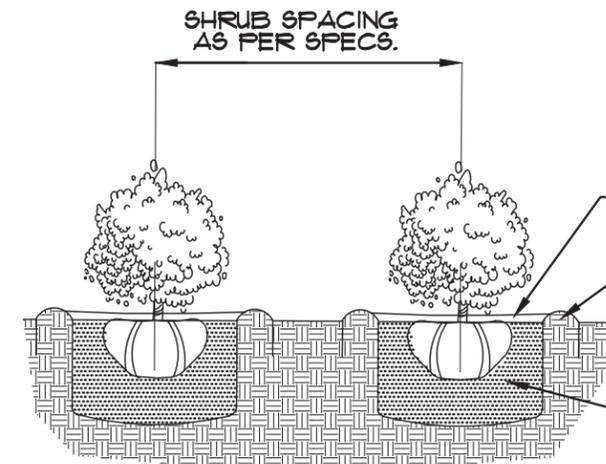
MINIMUM 15' CLEARANCE OF ALL TREES FROM ALL LIGHT FIXTURES. CLEARANCE TO BE FROM THE LIGHT FIXTURE OR LAMP, NOT THE LIGHT POST.

CONTRACTOR TO ADJUST ANY AND ALL TREES IN THE FIELD TO PROVIDE FOR MIN. 15' CLEARANCE FOR ANY SITUATIONS NOT PER PLAN.

MINIMUM 7.5' CLEARANCE FROM ALL SMALL TREES AND PALMS

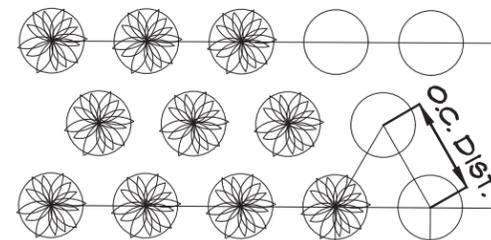
## MINIMUM TREE CLEARANCE FROM LIGHT FIXTURES

N.T.S.

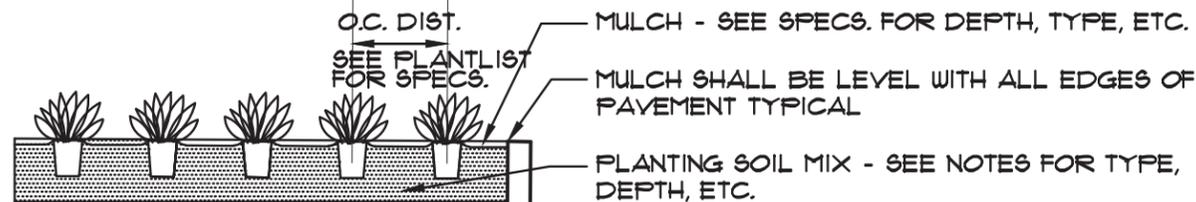


## SHRUB PLANTING DETAIL

N.T.S.

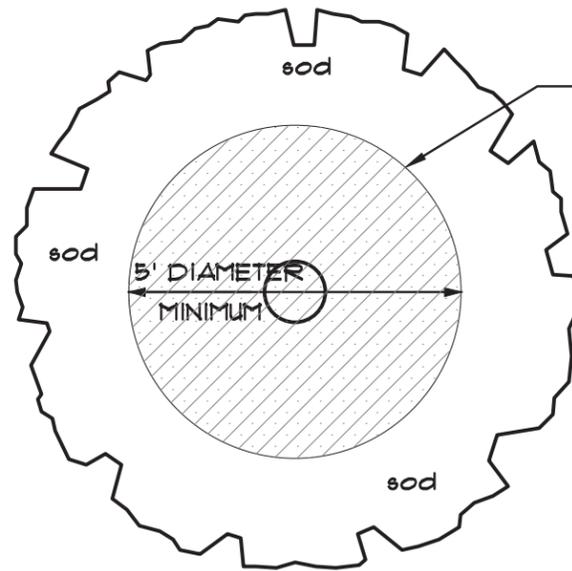


GROUNDCOVERS TO BE STAGGERED AS SHOWN - SPACING BETWEEN ROWS TO BE AT A 60 DEGREE ANGLE OF THE O.C. DISTANCE AS SHOWN



## GROUNDCOVER DETAIL

N.T.S.



ALL FREE-STANDING TREES AND PALMS SHALL HAVE A MINIMUM 5' DIAMETER MULCH RING

8. ALL PLANTING BEDS SHALL BE MULCHED TO A DEPTH OF 3" WITH AN APPROVED RECYCLED MULCH BY THE PRESIDING GOVERNING AGENCY.

NO HEAVY METALS. I.E. ARSENIC, LEAD, ETC. ARE TO BE CONTAINED IN THE MULCH AND THE CONTRACTOR SHALL PROVIDE CERTIFICATION OR PROOF THAT ALL MULCH IS FREE OF HEAVY METALS OR SIMILAR ENVIRONMENTAL CONTAMINANTS.

## TYPICAL MULCH RING FOR FREE-STANDING TREES AND PALMS

N.T.S.

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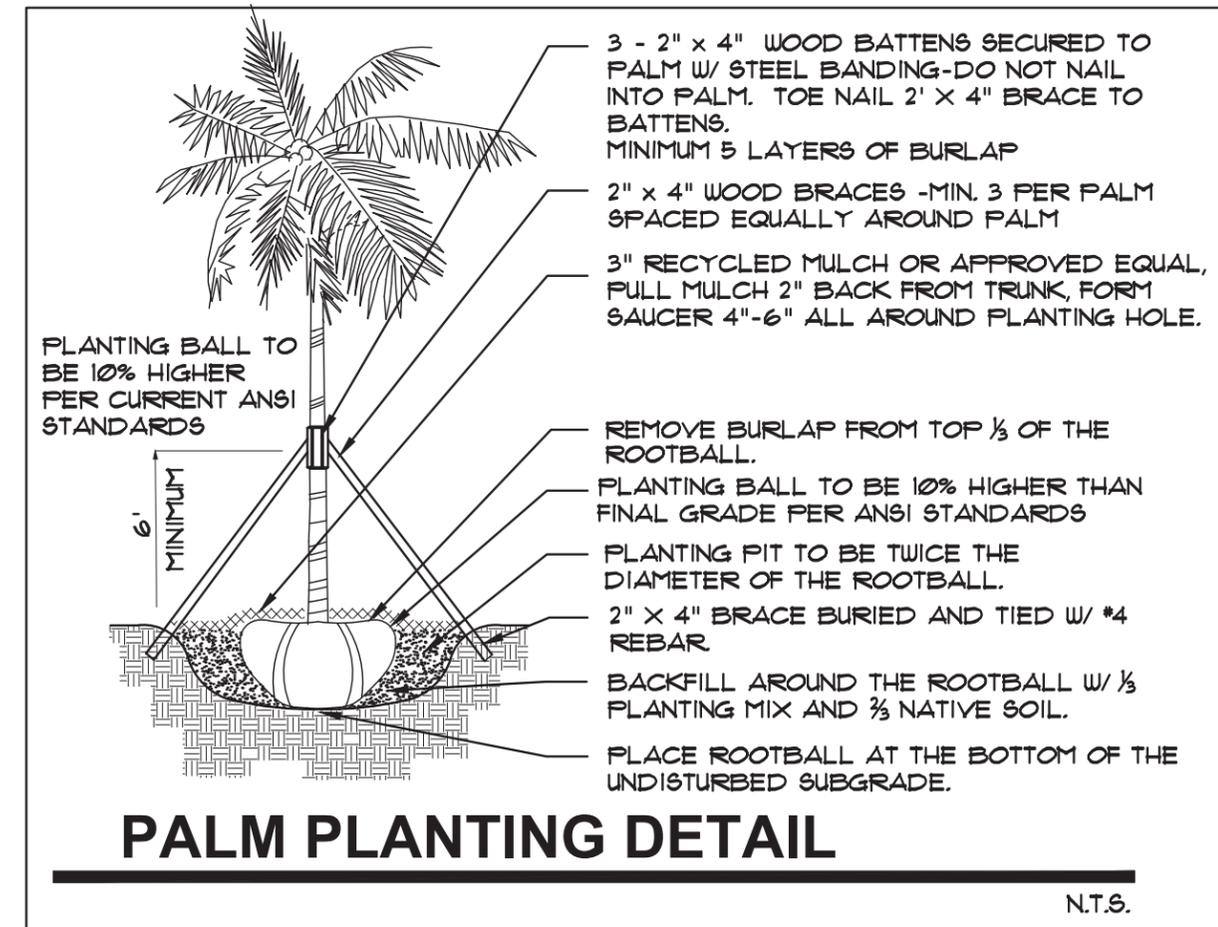
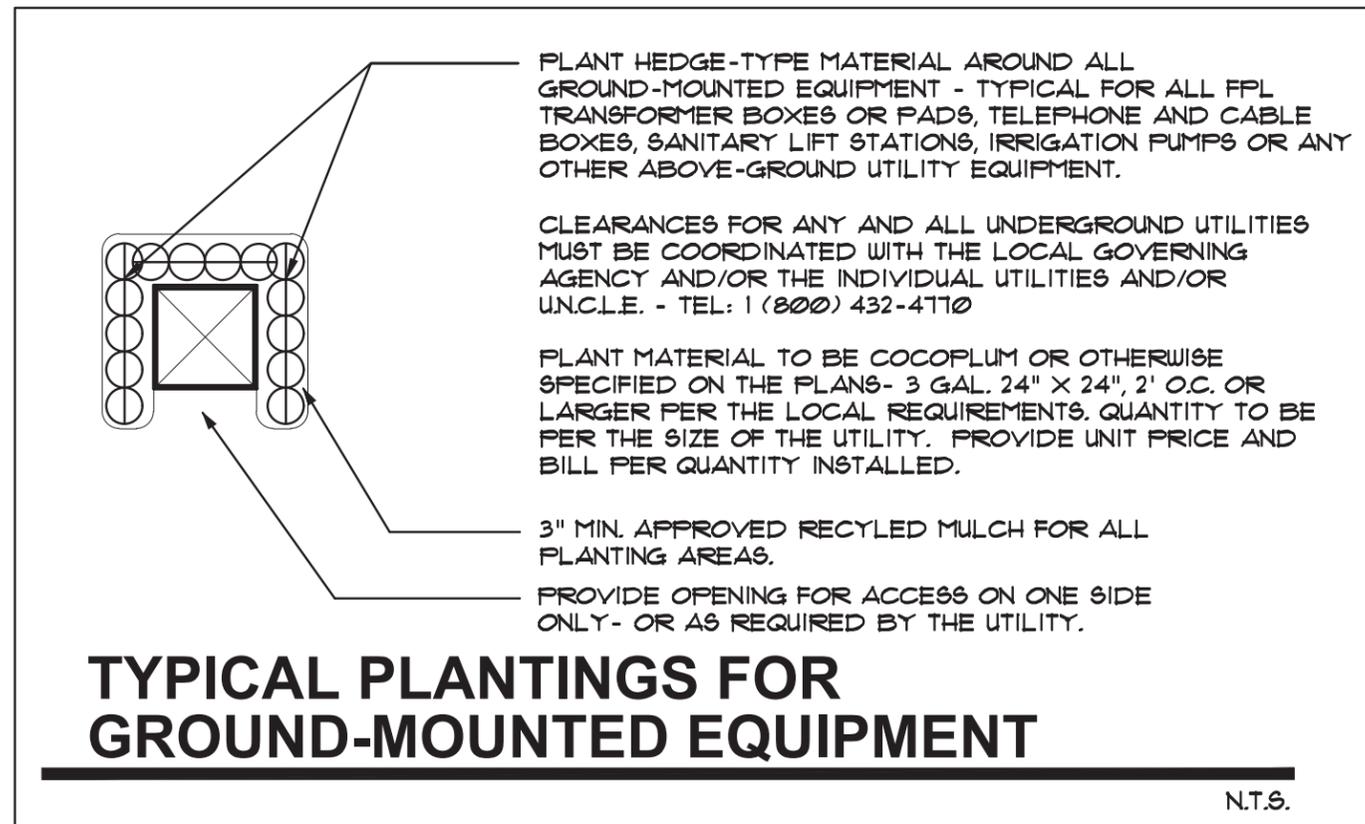
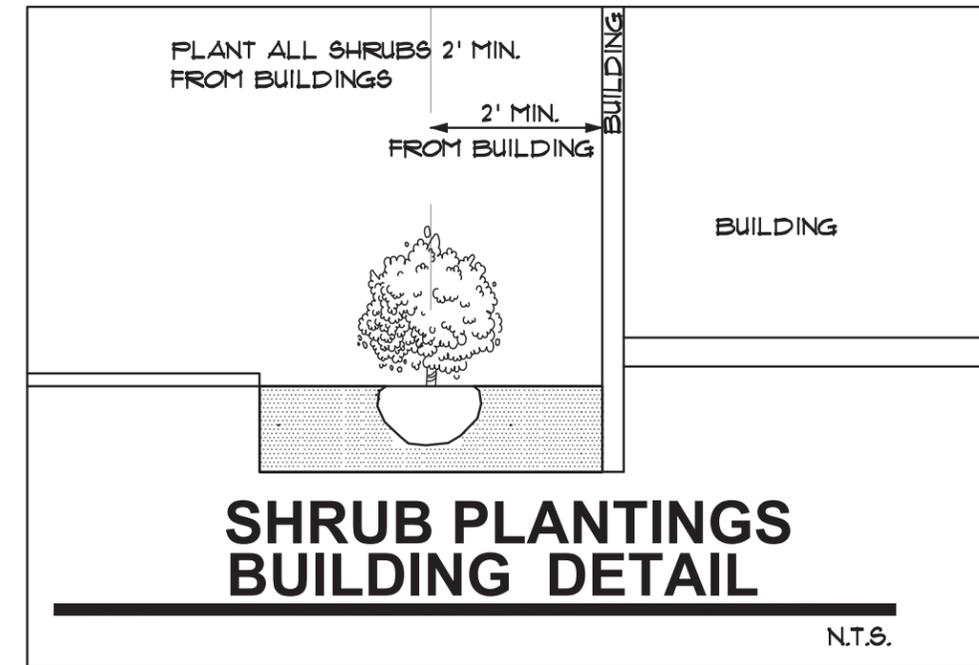
### LANDSCAPE DETAILS

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L-1.6



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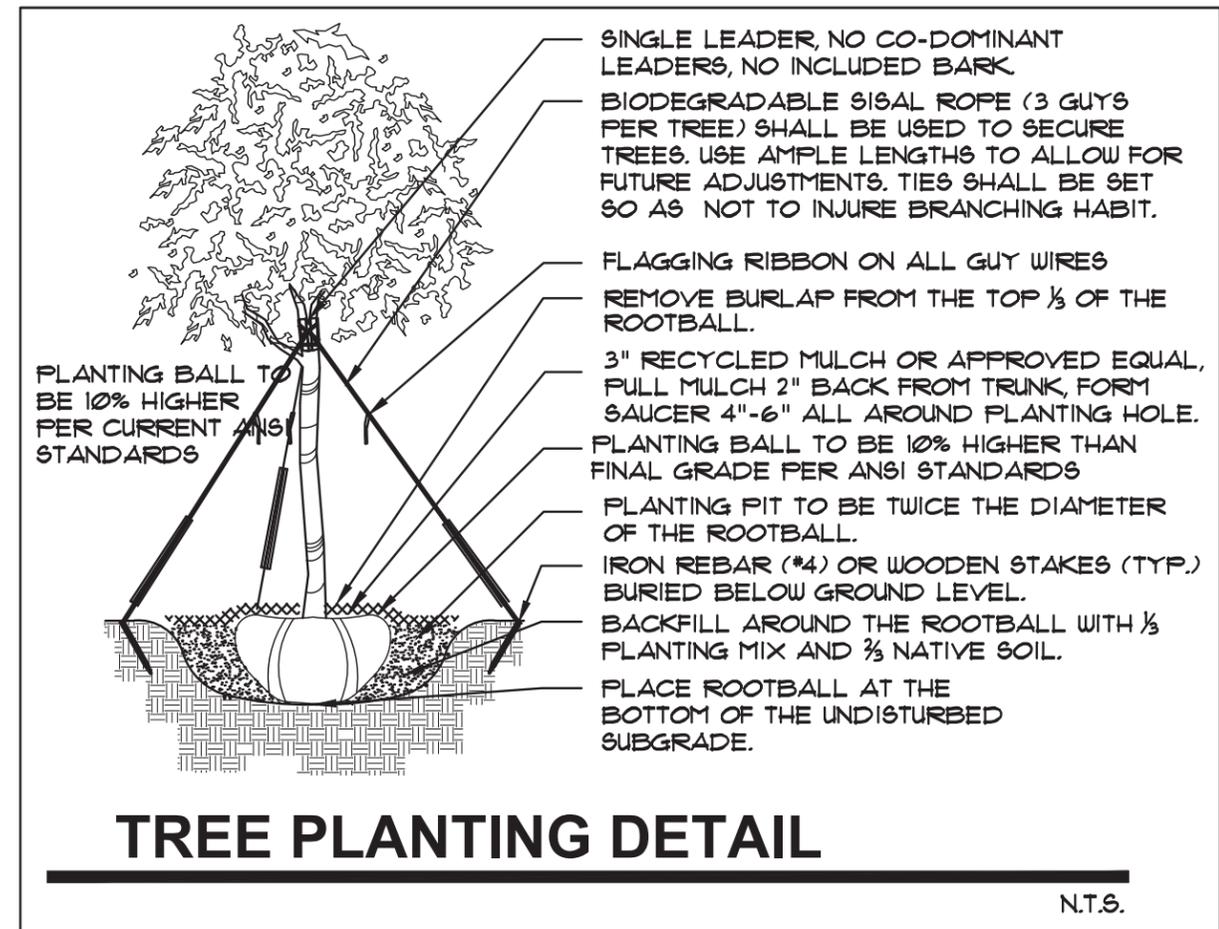
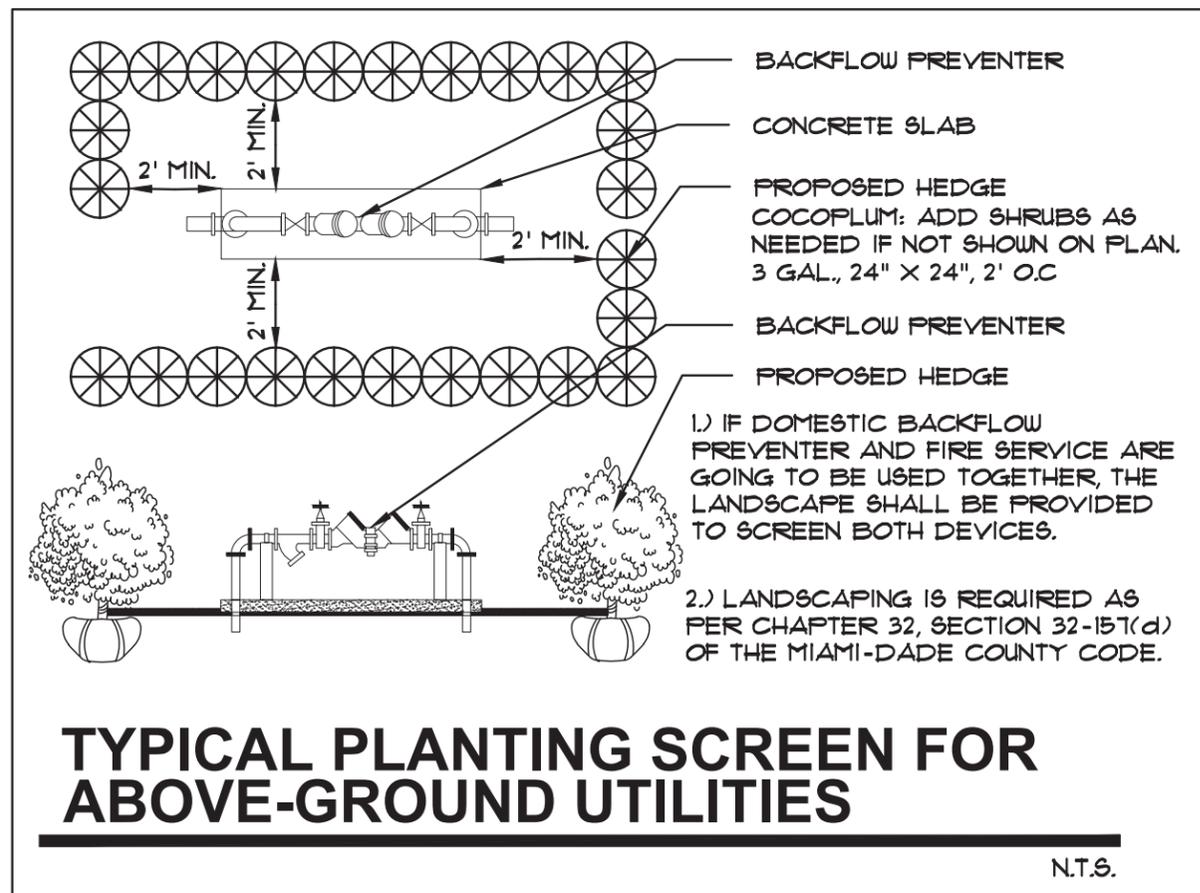
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**L-1.7**



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**L-1.8**

# MATERIALS LIST

SYM.	NATIVE #	NAME	BOTANICAL NAME	SPECIFICATION
<b>"DEEPROOT" SILVA CELLS</b>				
	224	SILVA CELLS	"2 X SILVA CELL 2" TO PROVIDE DEPTH AS SHOWN IN SECT.	PER MANUFACTURER'S SPECIFICATIONS.
	90 c.y.	"5050 MIX" FOR PLANTING-PER ATLAS PEAT AND SOIL		
<b>CONTRACTOR SHALL MAKE PROVISIONS FOR ALL EXISTING AND PROPOSED UTILITIES, (ABOVE AND BELOW GROUND) AND SHALL BE RESPONSIBLE TO PROTECT THROUGHOUT THE CONSTRUCTION PROCESS.</b>				

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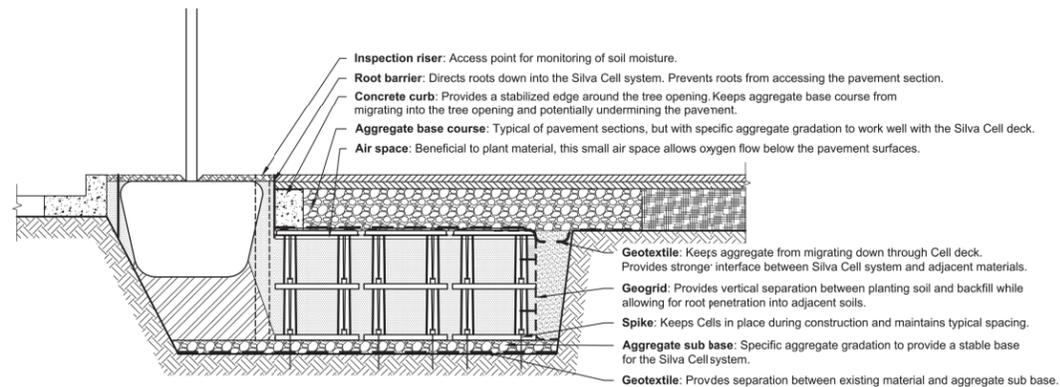
## SILVA CELLS FOR PLAZA APPLICATIONS

Numbers in detail titles (1.1, 2.1, 3.2, etc.) denote the number of layers of Silva Cell frames. Basic paving details are all available in one, two, and three layers.

These are a generic representation of a plaza and should be modified to depict actual project conditions.

- Concrete 1.0
- Concrete 2.0
- Concrete 3.0
- Pavers, Asphalt & Porous Pavements 1.0
- Pavers, Asphalt & Porous Pavements 2.0
- Pavers, Asphalt & Porous Pavements 3.0

## SILVA CELL SYSTEM COMPONENTS



- NOTES:**
1. Installation to be completed in accordance with manufacturer's specifications.
  2. Do not scale drawings.
- Disclaimer: Conditions that vary from drawings must be evaluated by a qualified Engineer and appropriate adjustments made.



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230 Washington Street  
San Francisco, California 94111  
Tel: 415.781.9700  
www.deeproot.com

Urban Trees and Soils  
915 Creek Drive  
Annapolis, Maryland 21403  
Tel: 410.263.4839

The Kestrel Design Group  
7109 Olmsted Lane  
Minneapolis, MN 55439  
652.928-9600  
Tel: 952.224-9660  
www.kestrel-design.com

Project No.: 07337  
Drawn by: MDM  
Checked by: DR  
Date: 8/1/2012

Revisions:  
2012 Release

07337 (Revised) CAD/DR, Tree/Soils.dwg

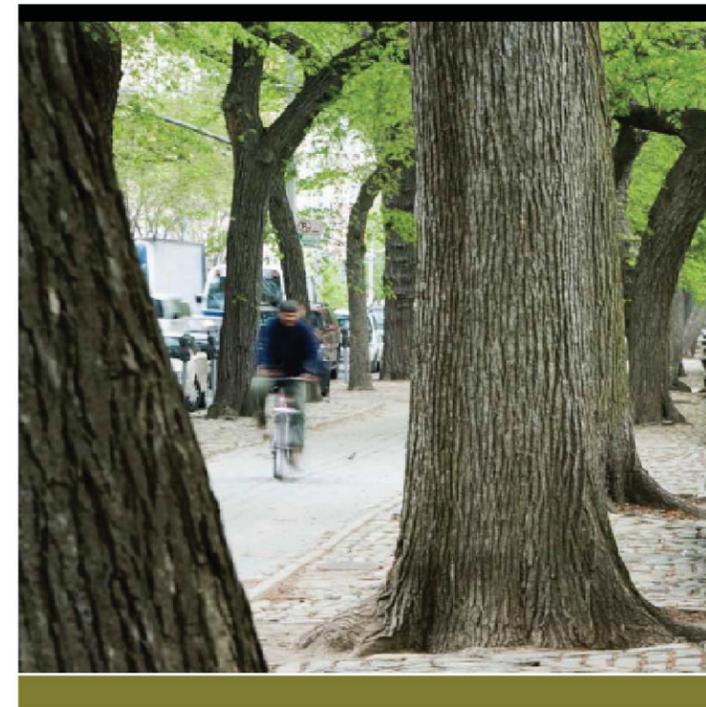
Silva Cells  
for  
PLAZA  
APPLICATIONS

INDEX

## DEEPROOT SILVA CELL

RESTORING ECOSYSTEM SERVICES TO THE URBAN ENVIRONMENT

## INTEGRATED TREE, SOIL AND STORMWATER SYSTEM



CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND INSTALL ALL COMPONENTS FOR "DEEPROOT SILVA CELL" PER MANUFACTURERS STANDARDS WITH INSPECTION AND APPROVAL TO BE SECURED BY THE PROJECT LANDSCAPE ARCHITECT AND THE CITY THROUGHOUT THE PROCESS, TO INCLUDE INSPECTION AND APPROVAL DURING, PRIOR TO SOIL BACKFILLING, AND ALL PHASES AS DEEMED NECESSARY BY THE PROJECT LANDSCAPE ARCHITECT AND THE CITY OF MIAMI BEACH.

CONTRACTOR SHALL CALL THE CITY OF MIAMI BEACH FOR A PRE-CONSTRUCTION CONFERENCE REGARDING ALL LANDSCAPE RELATED ITEMS TO INCLUDE SITE PREPARATION, DEEPROOT SILVA CELL INSTALLATION, LANDSCAPE AND IRRIGATION INSTALLATION AND ANY OTHER ITEMS RELATED TO THE LANDSCAPE COMPONENTS.

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DEEPROOT SILVA CELLS  
SPECIFICATIONS, ETC.

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