

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



ARQUITECTONICA

2900 Oak Avenue, Miami, FL 33133
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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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ou=A01410D0000016E93E46B8A0
0001E9C, cn=James F. Socash
Date: 2020.02.10 09:14:18 -05'00'

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02/10/20

TD-1.1

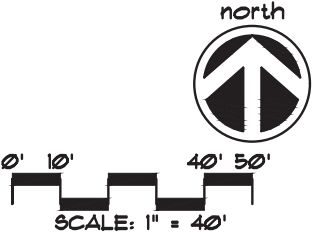
TREE MITIGATION-REPLACEMENT PLANTLIST					
SYM.	NATIVE	*	NAME	BOTANICAL NAME	SPECIFICATION
REMOVAL OF 279" D.B.H. OF EXISTING TREES					
MITIGATION REQUIREMENT: 94 TREES @ 12' HT., 2" DBH OR 47 TREES @ 16' HT., 4" DBH					
SEE TREE DISPOSITION PLAN FOR EXISTING TREE INVENTORY AND STATUS					
PROVIDED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

NOTES:

1. SEE LANDSCAPE PLANS FOR PROPOSED LANDSCAPE PLANTINGS, LANDSCAPE LEGEND, PLANTLIST, SPECIFICATIONS, DETAILS, ETC.
2. 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.
3. 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			COMMON NAME	BOTANICAL NAM	HEIGHT	SPRE	DBH	STATU	DBH	PALM
NUM		SYM					inches		LOSS	LOSS
39103	3	QV	LIVE OAK	Quercus virginiana	18	25	10	REMOVE	10	
39104	4	QV	LIVE OAK	Quercus virginiana	15	10	4	REMOVE	4	
39105	5	QV	LIVE OAK	Quercus virginiana	24	28	10	REMOVE	10	
39106	6	QV	LIVE OAK	Quercus virginiana	28	25	12	REMOVE	12	
39107	7	QV	LIVE OAK	Quercus virginiana	35	33	12	REMOVE	12	
39108	8	QV	LIVE OAK	Quercus virginiana	35	27	12	REMOVE	12	
39109	9	WR	WASHINGTONIA PAL	Washingtonia robusta	10	10	14	REMOVE		
39110	10	QV	LIVE OAK	Quercus virginiana	30	25	12	REMOVE	12	
39111	11	QV	LIVE OAK	Quercus virginiana	35	33	12	REMOVE	12	
39112	12	QV	LIVE OAK	Quercus virginiana	18	15	5	REMOVE	5	
39113	13	QV	LIVE OAK	Quercus virginiana	30	35	12	REMOVE	12	
39114	14	QV	LIVE OAK	Quercus virginiana	30	35	12	REMOVE	12	
39115	15	CU	SEAGRAPE	Coccoloba uvifera	25	20	12	REMOVE	12	
39116	16	AM	CHRISTMAS PALM	Adonidia merrillii	18	16	4,4	REMOVE		1
39117	17	SP	SABAL PALM	Sabal palmetto	14	10	12	REMOVE		
39118	18		PALM		16	10	4	REMOVE		1
39119	19	SM	MAHOGANY	Swetenia mahogani	35	33	14	REMOVE	14	
39120	20	WR	WASHINGTONIA PAL	Washingtonia robusta	40	10	16	REMOVE		1
39121	21	CU	SEAGRAPE	Coccoloba uvifera	30	25	12	REMOVE	12	
39122	22	SM	MAHOGANY	Swetenia mahogani	40	30	18	REMOVE	18	
39123	23	SM	MAHOGANY	Swetenia mahogani	35	20	10	REMOVE	10	
39124	24	SM	MAHOGANY	Swetenia mahogani	20	15	4	REMOVE	4	
39125	25		FAN PALMCLUSTER		12	9	36	REMOVE		
39127	27	SM	MAHOGANY	Swetenia mahogani	32	22	14	REMOVE	14	
39128	28	SM	MAHOGANY	Swetenia mahogani	25	15	12	REMOVE	12	
39129	29	SM	MAHOGANY	Swetenia mahogani	25	10	12	REMOVE	12	
39130	30	SM	MAHOGANY	Swetenia mahogani	30	22	14	REMOVE	14	
39131	31	SM	MAHOGANY	Swetenia mahogani	30	10	10	REMOVE	10	
39132	32	SM	MAHOGANY	Swetenia mahogani	40	25	14	REMOVE	14	
39133	33	CE	GREEN BUTTONWO	Conocarpus erectus	25	15	14	REMOVE	14	
39134	34	CE	GREEN BUTTONWO	Conocarpus erectus	20	8	16	REMOVE	16	
39135	35	WR	WASHINGTONIA PAL	Washingtonia robusta	4	8	12	REMOVE		
TOTALS									279	3
FIELD INVENTORY CONDUCTED BY JFS DESIGN INC. ON NOVEMBER 15, 2019										

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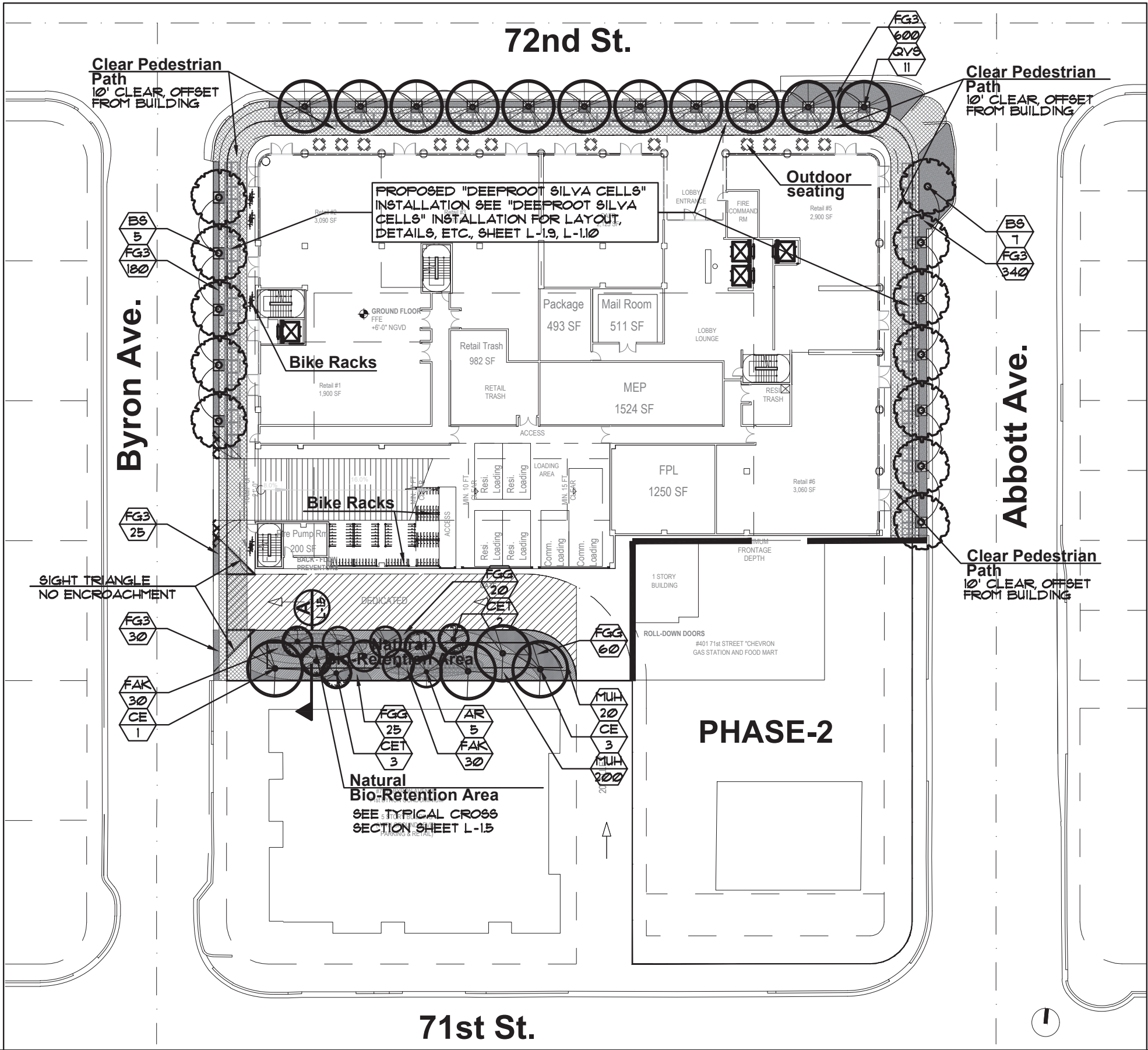
TREE INVENTORY- TREE MITIGATION
TABLE

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		
OPEN SPACE		
A. Square feet of required Open Space as indicated on site plan:		
Lot Area =	53,776 s.f. x 20 % =	10,755 s.f.
B. Square feet of parking lot open space required as indicated on site		
Number of parking spaces	N/A x 10 s.f. parking space =	N/A
C. Total square feet of landscaped open space required: A+B=		
LAWN AREA CALCULATION		
A. Square feet of landscaped open space required		
B. Maximum lawn area (sod) permitted=		
TREES		
A. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements=		
B. % Natives required: Number of trees provided x 30% =		
C. % Low maintenance / drought and salt tolerant required:		
Number of trees provided x 50%=		
D. Street Trees (maximum average spacing of 20' o.c.)		
E. Street tree species allowed directly beneath power lines:		
(maximum average spacing of 20' o.c.):		
SHRUBS		
A. Number of shrubs required: Sum of lot and street trees required x 12=		
B. % Native shrubs required: Number of shrubs provided x 50%=		
LARGE SHRUBS OR SMALL TREES		
A. Number of large shrubs or small trees required: Number of required shrubs x 10%=		
B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50%=		

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SITE LANDSCAPE PLAN

SCALE: AS SHOWN



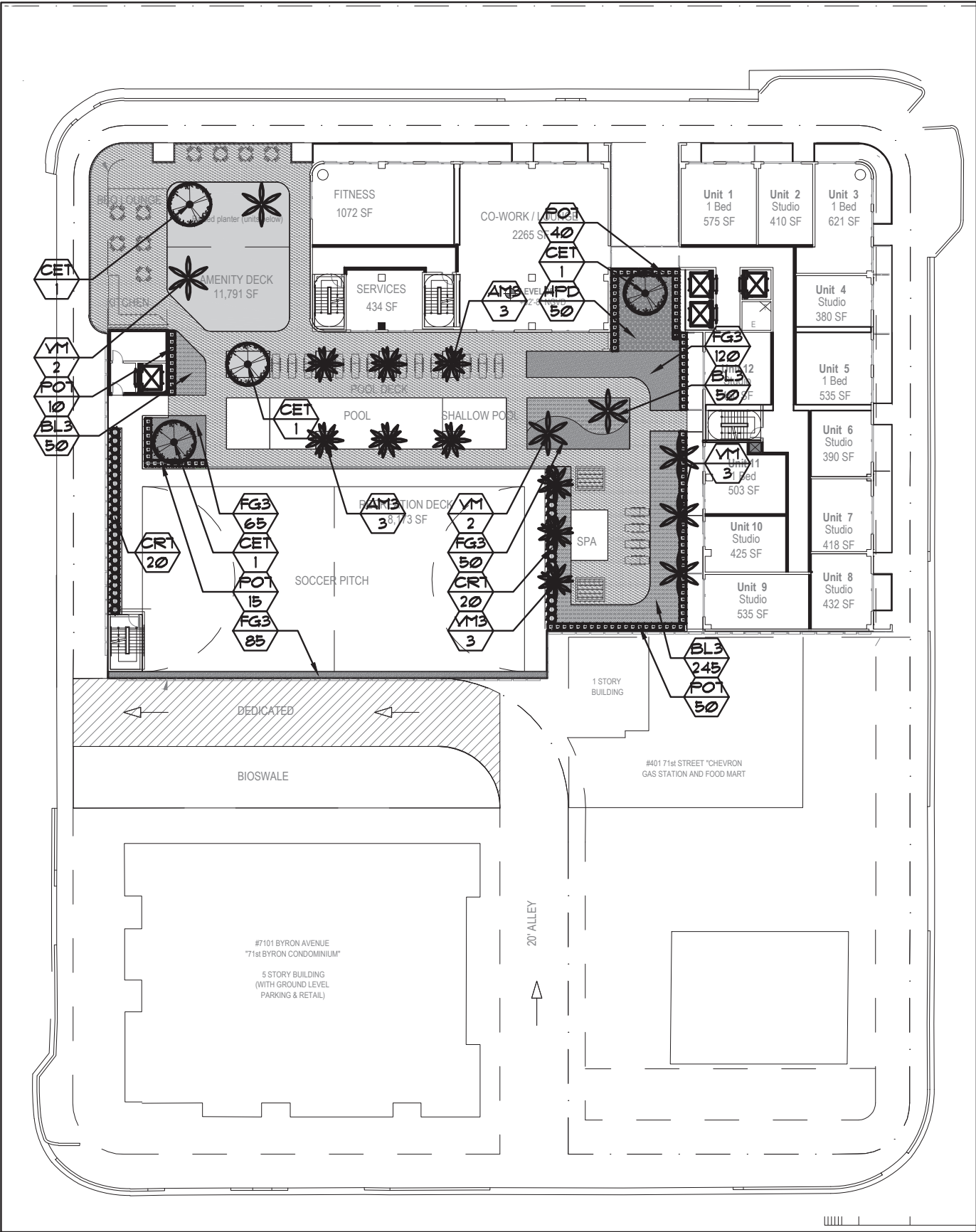
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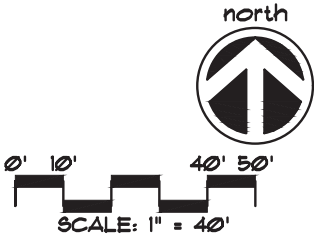
PLANTLIST						
SYM.		NATIVE	#	NAME	BOTANICAL NAME	SPECIFICATION
PROPOSED TREES						
AR	YES		5	RED MAPLE	Acer rubrum	12' x 6'spr., 2" D.B.H.
BS	YES		12	GUMBO LIMBO	Bursera simaruba	16' X 12'spr., 4" D.B.H., 6' CLEAR TRUNK
CE	YES		4	GREEN BUTTONWOOD	Conocarpus erectus	12' x 6'spr., 2" D.B.H.
CET	YES		5	SILVER BUTTONWOOD	Conocarpus errec. "Sericeus"	12' x 6'spr., 2" D.B.H.
QVS	YES		11	LIVE OAK SPECIMEN	Quercus virginiana	22' X 12'spr., 6" D.B.H., 8' CLEAR TRUNK
						FL. FANCY, CHARACTER
						SUBMIT PHOTO for APPROVAL
GROUNDCOVERS						
FG3			1,175	"GREEN ISLAND" FICUS	Ficus "Green Island"	3 gal., 18" x 18", 18" o.c., full
MUH	YES		22Ø	MUHLY GRASS	Muhlenbergia capillaris	1 gal., 12" x 12", 18" o.c., full
FAK	YES		6Ø	FAKAHATCHEE GRASS	Tripsacum dactyloides	3 gal., 24" x 24", 3Ø" o.c., full
FGG	YES		1Ø5	FLORIDA GAMA GRASS	Tripsacum floridana	1 gal., 12" x 12", 18"o.c., full
TOPSOIL:		TOPSOIL:SAND MIX		5Ø:5Ø TOPSOIL:SAND MIX, SPREAD IN PLACE		
24 C.Y.		TREES, PALMS, SHRUBS AND GROUNDCOVERS				
MULCHING:						
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.						
INSTALLATION WATERING:						
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
BYRON AVE. 191 L.F. , 1 TREE/ 2Ø L.F. = 1Ø TREES	10	5 5 BS
72TH STREET 239 L.F. , 1 TREE/ 2Ø L.F. = 12 TREES	12	11 11 QVS
ABBOTT AVE. 295 L.F. , 1 TREE/ 2Ø L.F. = 15 TREES	15	7 1 BS
NOTE: PROPOSED STREET TREE PLANTINGS ARE SHOWN TO BE INSIDE OF THE PROPERTY DUE TO SIGHT TRIANGLE RESTRICTIONS AS SHOWN ON THE PLAN.		
TOTALS	37	23



PLANTLIST

SYM.	NATIVE	*	NAME	BOTANICAL NAME	SPECIFICATION
PROPOSED TREES					
CET	YES	4	SILVER BUTTONWOOD	Conocarpus erect. "Sericeus"	12' x 6'spr., 2" D.B.H.
PALMS					
AM3		6	CHRISTMAS PALM	Adonidia merrillii	FG., 10' o.a., TPL., full head
VM		7	MONTGOMERY PALMS	Veitchia montgomeryana	SGL. TK, FG., 14' o.a., full hd.
VM3		3	MONTGOMERY PALMS	Veitchia montgomeryana	TPL. TK, FG., 14' o.a., full hd.
SHRUBS					
CR1	YES	40	SMALL-LEAVED CLUSIA	Clusia guttifera	1 GAL., 36" ht., 30" Ø.C., FTB.
HPD	YES	50	DWARF FIREBUSH	Hamelia nodosa	3 gal., 18" x 18", 24" o.c.
PO1		115	PODOCARPUS HEDGE	Podocarpus spp.	1 gal., 30" x 24", full heavy
GROUNDCOVERS					
BL3		345	BLUEBERRY FLAX LILY	Dianella tasmanica	3 gal., 12" x 18", 18" o.c., full
FG3		320	"GREEN ISLAND" FICUS	Ficus "Green Island"	3 gal., 18" x 18", 18" o.c., full
TOPSOIL:					
370 c.y., "2100 MIX" FOR PLANTING-PER ATLAS PEAT AND SOIL FOR PLANTER BOXES					
BASED UPON 4,970 SF. X 2' DEPTH/21 CF. PER C.Y.					
MULCHING:					
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.					
INSTALLATION WATERING:					
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					



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 GROWDCOVERS: (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.

GROUND COVER 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 GROWDCOVERS 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 GROWDCOVERS 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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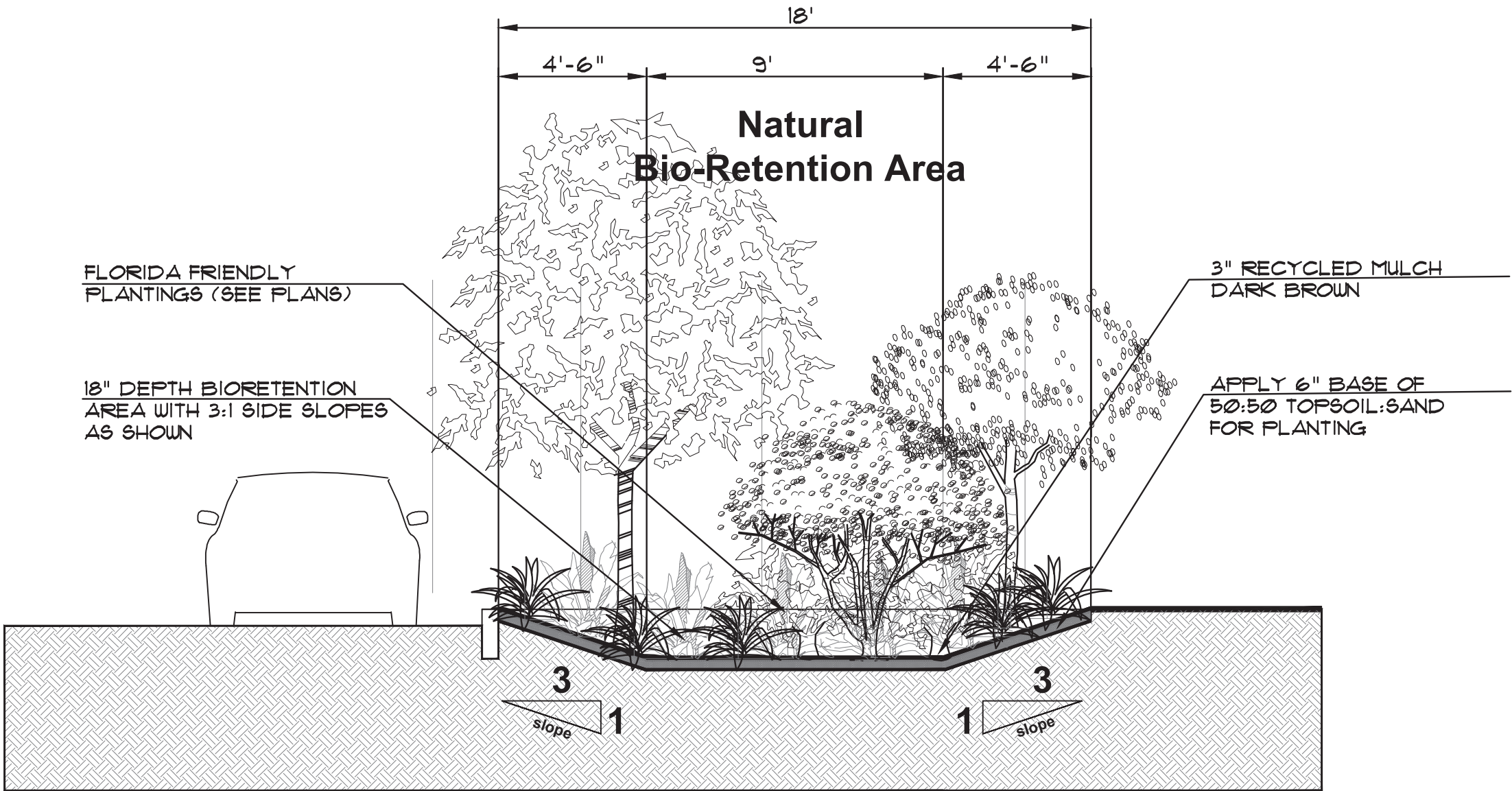
LANDSCAPE NOTES

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CROSS SECTION A-A
NATURAL BIO-RETENTION AREA
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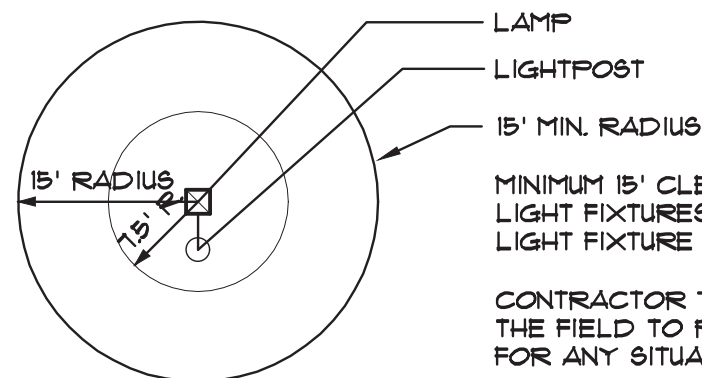
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NATURAL BIO-RETENTION AR

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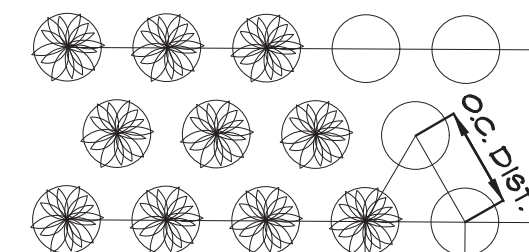
MINIMUM 15' CLEARANCE OF ALL TREES FROM ALL LIGHT FIXTURES. CLEARANCE TO BE FROM THE LIGHT FIXTURE OR LAMP, NOT THE LIGHT POST.

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

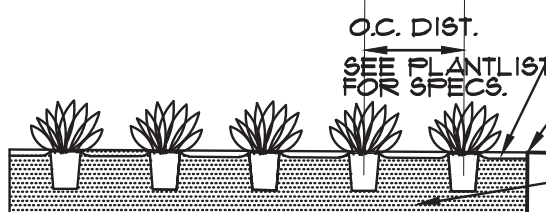
MINIMUM 7.5' CLEARANCE FROM ALL SMALL TREES AND PALMS

MINIMUM TREE CLEARANCE FROM LIGHT FIXTURES

N.T.S.

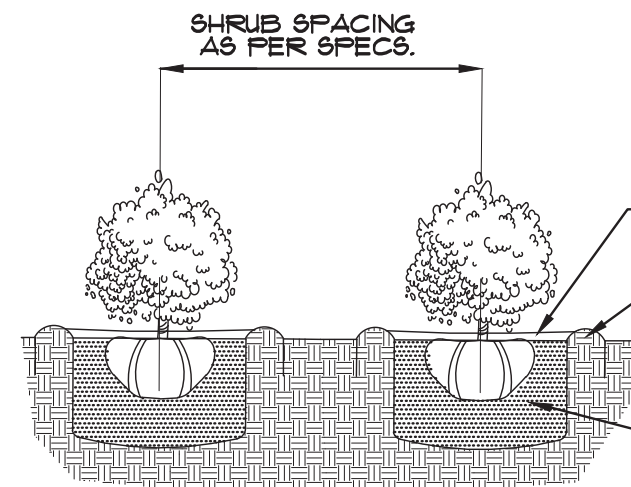


GROUNDCOVERS TO BE STAGGERED AS SHOWN - SPACING BETWEEN ROWS TO BE AT A 60 DEGREE ANGLE OF THE O.C. DISTANCE AS SHOWN



GROUNDCOVER DETAIL

N.T.S.



PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION, AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY

MULCH - SEE SPECS. FOR DEPTH, TYPE, ETC.

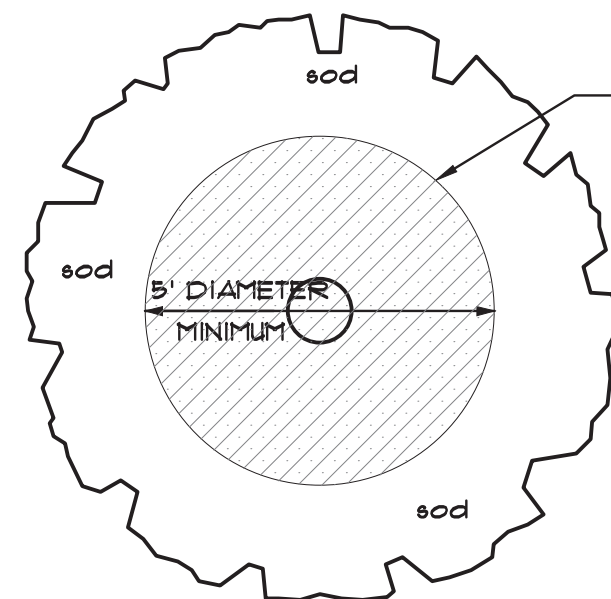
2" MIN. SAUCER COLLAR FOR WATER RETENTION

MULCH SHALL BE LEVEL WITH ALL EDGES OF PAVEMENT TYPICAL

PLANTING SOIL MIX - SEE NOTES FOR TYPE, DEPTH, ETC.

SHRUB PLANTING 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

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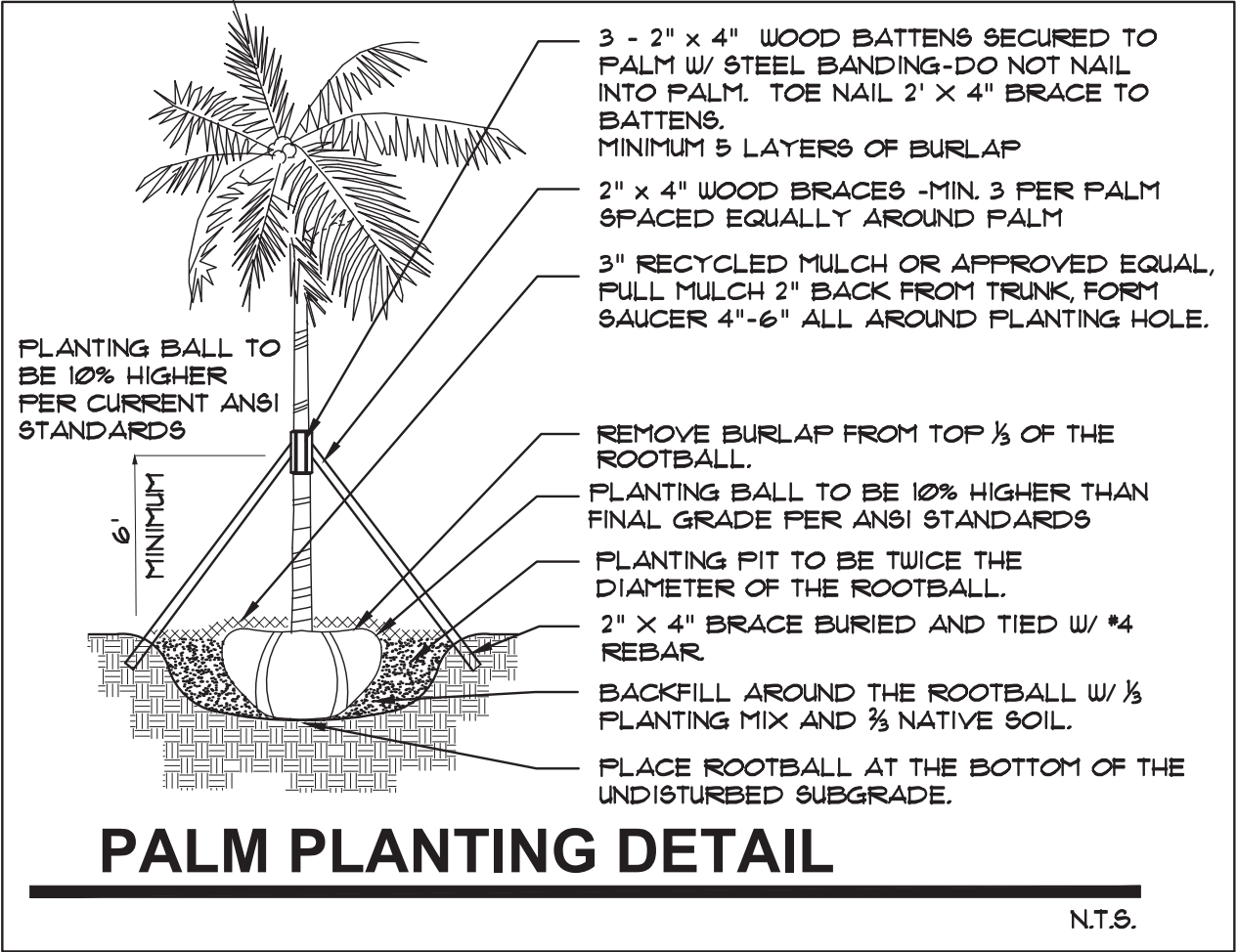
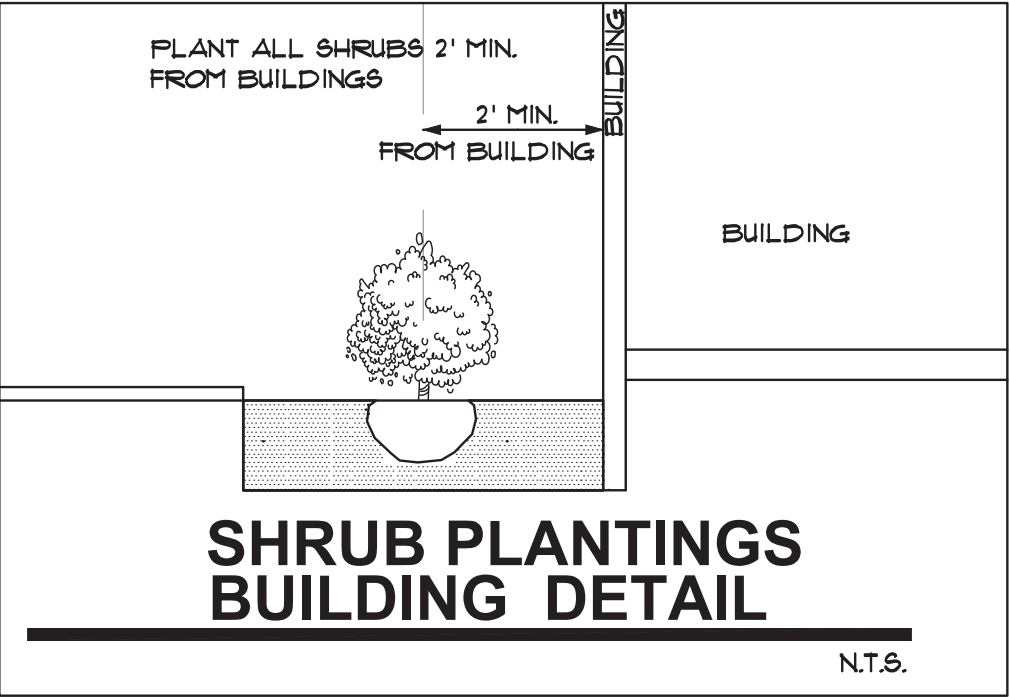
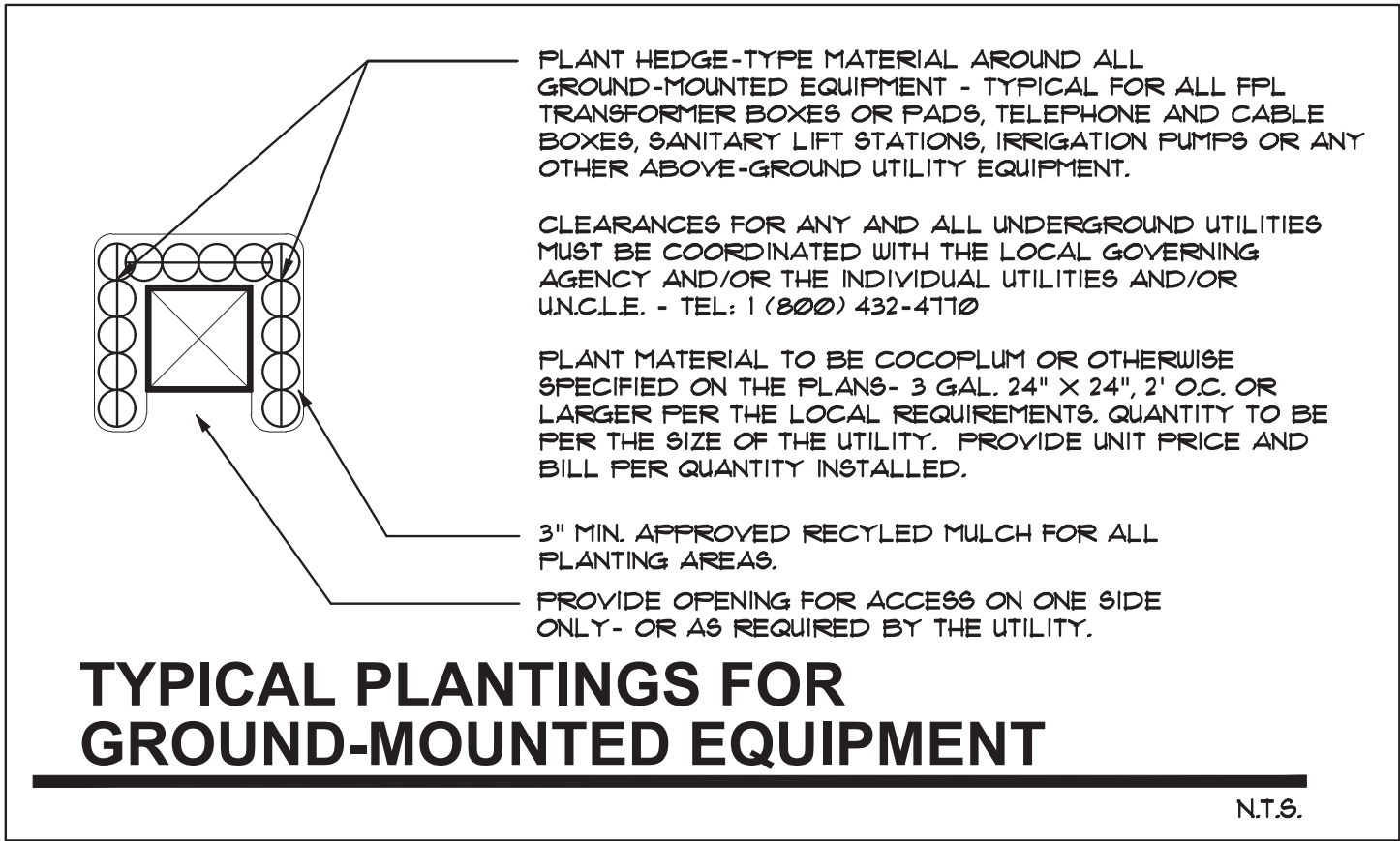
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James F. Socash
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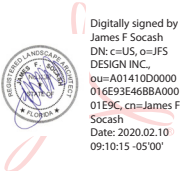
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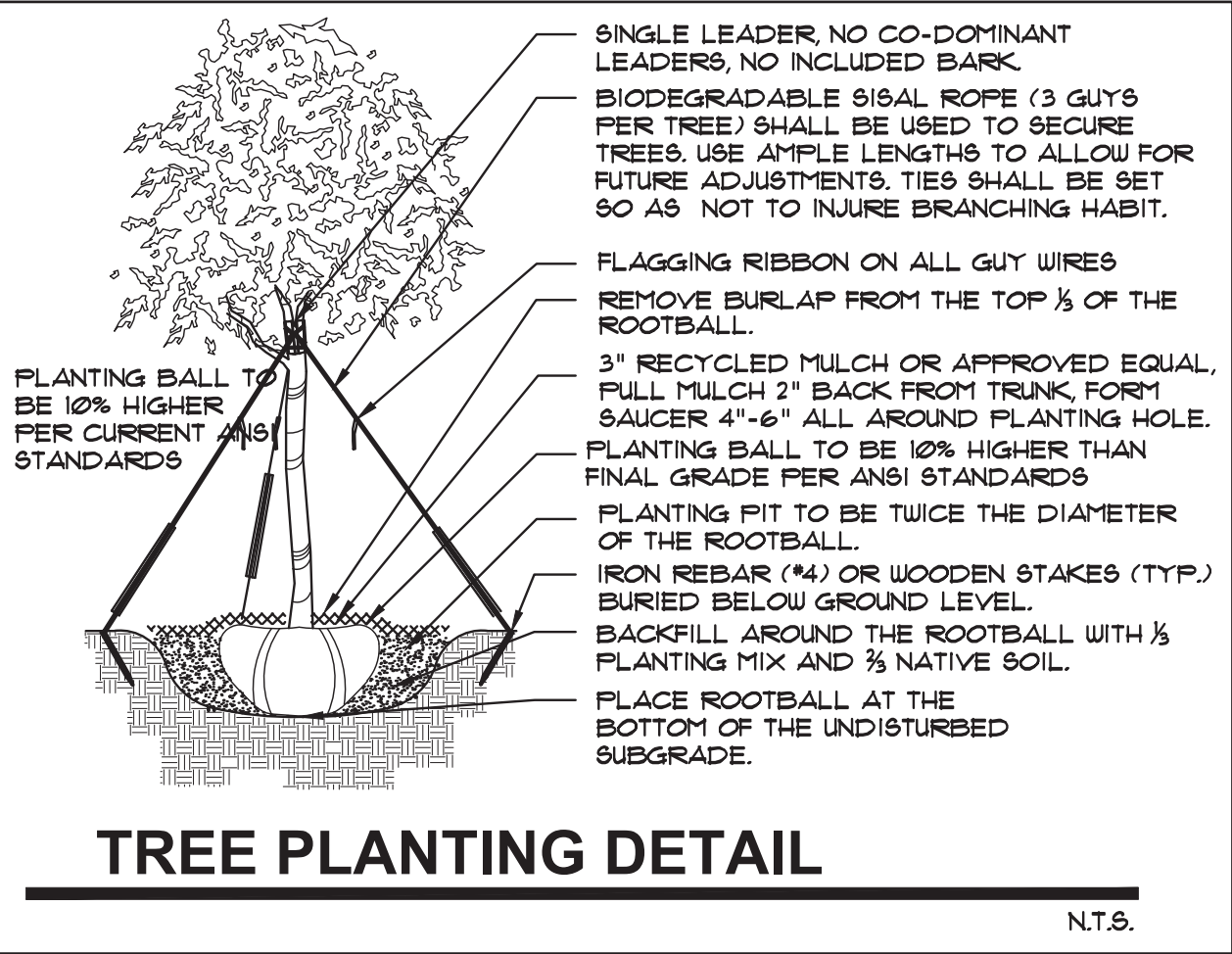
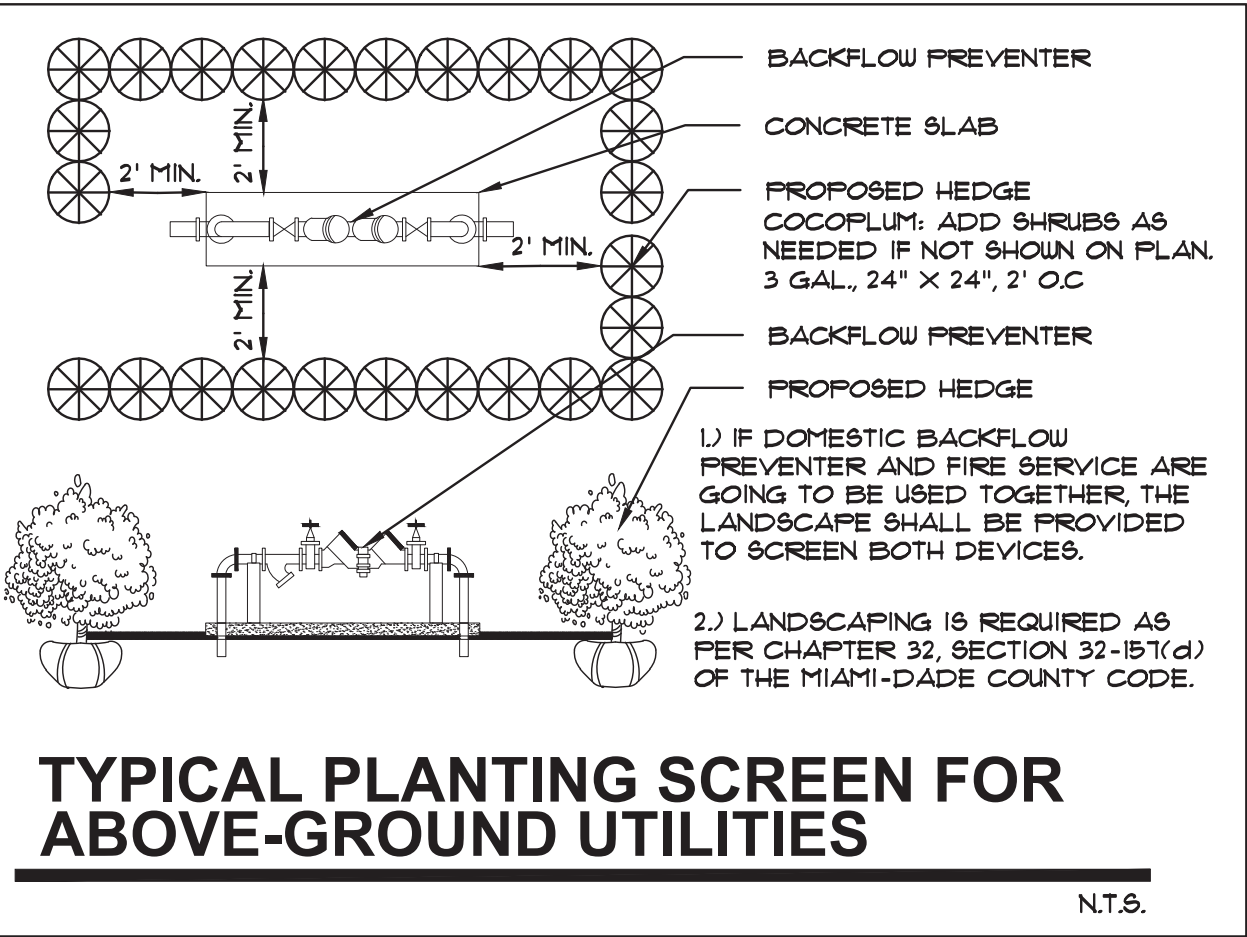
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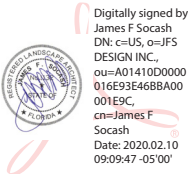
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SILVA CELL SYSTEM LAYOUT INSTRUCTIONS



Silva Cell system layout is not complicated, but it does require general product orientation. Accordingly, this document is divided into three sections – General Principles, Sizing a Silva Cell System, and Layout Guidelines. An understanding of each of these sections is critical for the successful integration of the Silva Cell into your site plans. Use these guidelines with the [Standard Silva Cell details](#).

GENERAL PRINCIPLES

- The Silva Cell system is designed to be installed beneath paved areas such as sidewalks, plazas, and parking bays. Different pavement types (concrete, asphalt, or pavers) require different pavement profiles in order to meet H-20 loading requirements. The Silva Cell system is not designed to support high speed traffic loads. Consult our standard details for more information.
- Understand how utilities, soils, water table and structures might affect your Silva Cell layout. Silva Cells can often accommodate existing and proposed utilities and structures, but planning for this integration is critical for a successful layout and installation. Share your Silva Cell layout with the project Civil Engineer in order to work around site and utility conflicts early in the process.
- Silva Cells allow growth of large trees that, with adequate soil volumes, proper installation and care, will reach its true mature size. This tree will grow to have a large canopy and a significant trunk flare that your design should accommodate.

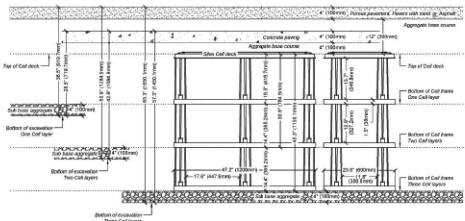
- Wherever possible, link Silva Cell soil volumes to each other or to existing nearby soil volumes such as parks or lawns.
- ### SIZING A SILVA CELL SYSTEM
1. Determine if the Silva Cell system will be used to grow big trees or grow big trees and treat stormwater.
 - Silva Cells are used to provide soil to grow large trees, but can also be used to treat stormwater. Determine your project goals for using Silva Cells and begin to think about how to size and design your system accordingly.
 - For large trees, consider how the Silva Cell system can use a passive irrigation system. If passive irrigation is not a possibility, make sure to include irrigation in your plans.
 - For large trees and stormwater, consider how to distribute the stormwater throughout the Silva Cell system and tie into overall site drainage.
 - See ["Stormwater Schematics"](#) for concepts for managing stormwater in the Silva Cells.

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2. Determine the optimal tree size that you would like to achieve on your site.
 - See ["How Much Soil to Grow a Big Tree"](#) to find a target soil volume for your ideal tree size.
 - A simple rule of thumb for target soil volume is to provide 1,000 ft³ (28m³) of soil for a canopy tree and 600 ft³ (17m³) of soil for an understory tree. You can also use a general 2:1 ratio of Soil Volume: Canopy Size. Trees can also share soil volumes, an efficient way to provide rooting volume is to connect planters together. Shared soil volume targets are typically around 600 ft³ (17m³) per overstory tree.
 3. Determine the volume of suitable soil available outside of the Silva Cell system.
 - Make your tree openings as large as possible. Due to lack of infrastructure, this is the cheapest soil available. Large tree openings will also accommodate the size of a mature tree.
 - Whenever possible, link Silva Cell soil volumes to each other or to existing nearby soil volumes, such as parks or lawns.
 - Calculate the Available Soil Volume in the area of work, including available soil in the tree openings themselves, as well as adjacent open space that the Silva Cells can link to like parks, lawns, etc.
 4. Determine how many Silva Cells are needed to meet the target soil volume.
- Each Silva Cell holds approximately 10 ft³ (0.28 m³) of soil.
 - Target Soil Volume ÷ (Available Soil Volume + Soil in Silva Cells)
- For example: The target soil volume is 1,000 ft³ (28m³). Each tree has a 4'x4' tree opening, and the Silva Cell system will be 3-frames deep. The depth of planting media in the Cells (and adjacent tree opening) would be approximately 3.75'.
- 3.75'x4'x4' = 60 ft³ (1.7m³) in the tree opening
- 1,000 ft³ ÷ 60 ft³ = 940 ft³ needed in Silva Cells
- 940 ft³/10ft³ per frame = 94 Cell frames
- Since we're using 3-frames deep, 94/3 = 31.3 decks.
- Obviously, we can't have 0.3 Cell decks. So bump this up to:
- 32 decks x 3 frames deep = 96 Cell frames = 960 ft³ + 60 ft³ = 1,020 ft³ soil provided
- 32 decks x 3 frames deep = 96 Cell frames = 26.9 m³ + 1.7 m³ = 28.6 m³ soil provided
5. If designing the system for on-site stormwater management, determine how many Silva Cells are needed to provide stormwater treatment for your site.
 - Bioretention soil is used within the Silva Cells for standard stormwater projects. Volume of filtration or "storage" is based on the water storage within the soil, and the location of any distribution or overflow pipes.

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- The static storage of water within the Silva Cells will be roughly equivalent to 20% of the total bioretention soil volume (2 ft³/0.05 m³ per frame).
 - There are many ways for stormwater to be brought into and out of the Silva Cell system. This is highly project-specific, but we would be happy to discuss your project to help you find the best fit. Please consult with DeepRoot if you have stormwater specific questions.
6. Balance the required soil volume for soil rooting with required soil volume for stormwater treatment.
 - Provide approximately 1,000 ft³ (28 m³) of soil for a canopy tree and 600 ft³ (17 m³) of soil for an understory tree. Stormwater treatment volumes will vary based on project location and goals.

CREATING YOUR SILVA CELL PLAN

Standard Silva Cell dimensions are approximately 2' (0.6 m) wide x 4' (1.2 m) long.

1-frame stack = 16.5" (419.7 mm) deep
2-frame stack = 30.9" (784.9 mm) deep
3-frame stack = 45.3" (1,150.6 mm) deep

The standard spacing required between Silva Cells is 1-3" (25 mm x 75 mm). These dimensions should be used for all standard Silva Cell Layouts. As long as you maintain a 1-3" (25 mm x 75 mm) gap between each stack they can be oriented in a layout that best accommodates your site needs.

1. Determine the available area for Silva Cell placement based on existing and proposed site conditions.

1.

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- Use current site base data, including (but not limited to) structures, utilities, roads and landscape plans to evaluate all potential conflicts with the Silva Cell system.
 - Determine the depth of your Silva Cell system. This will depend on available space, target soil volume, and budget.
 - Silva Cells can be stacked 1-, 2-, or 3-frames deep. Once you determine the maximum depth that can be accommodated, refer to ["Construction Depths for Silva Cells"](#) to calculate how the Silva Cell system will fit into your site cross-section. Note the pavement profile required to meet H-20 loading and required sub base depth. Account for these materials when calculating the total Silva Cell system depth.
 - Project sites do not have to be of uniform depth to use the Silva Cell.
 - Stacks of Silva Cells 1-, 2- and 3-frames deep can be positioned adjacent to one another in on-frame increments. Altering the depth of the system is a useful way to transition between site depths to accommodate utilities or other features that pass through your area of work.
 - For use on sites with slopes greater than 5%, please contact DeepRoot directly (415 781 9700 or info@deeproot.com).
2. Determine the available area for Silva Cell placement based on setbacks from proposed or existing curbs.
- Draw in the curb setback.
 - The standard setback from face of curb is 18" (45.72 cm). This setback can be used as a general guideline, but project-specific setbacks may vary.
 - In many cases, the Silva Cell system can be installed immediately adjacent to walls, footings, or other site structures that extend below the Silva Cell System. The maximum distance should be 3" (75 mm) from these structures in order to eliminate additional support measures. This circumstance should always be evaluated by a DeepRoot consultant prior to construction. Please see the ["Gap Bridging"](#) details in our [Modified Details](#) package for more information.
3. Evaluate the design of the tree openings.
 - Consider the dimensions of the tree openings and how easily they will work with the 2' x 4' (0.6 m x 1.2 m) basic Silva Cell size. If tree grates are part of the tree opening design, take into consideration how the Silva Cells can be arranged to provide support to the grate. Tree grate support shall be placed directly above the Silva Cell posts. Remember to plan for the trunk flare of a mature tree when designing the tree opening and choosing an appropriate tree grate.
 4. Create a Silva Cell in your landscape plan or use the supplied CAD file.
 - Insert the appropriate DeepRoot Silva Cell block into your project Landscape Plan. This

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- block has been created to scale and includes required Silva Cell spacing for ease of layout. Verify the size of the Silva Cell after insertion into your drawing for compliance with standard Silva Cell dimensions.
 - Silva Cell frames must be placed between 1" and 3" (2.5 cm and 7.6 cm) apart. Spacing between frames does not need to be uniform across the entire site as long as it stays within the 1" to 3" parameters. If Cells need to be placed more than 3" apart for any reason, please refer to our Modified details for information about gap bridging.
 - 5. Place Silva Cells on your site starting with the most restrictive areas.
 - Copy the Silva Cell block to fill the approximate Silva Cell area, starting along the curb setback and around tree openings and/or other site obstacles and utilities.
 - Copy the Silva Cell block to fill the approximate Silva Cell area, starting along the curb setback and around tree openings and/or other site obstacles and utilities.
 - All structures such as tree grates, curbs, and footings designed to be supported by Silva Cell structures must be placed directly above the Silva Cell posts. Silva Cell posts are located around the perimeter of the Silva Cell frames.
 - Link soil volumes wherever possible between trees so that they can share soil.
 - 6. Silva Cells should always be placed parallel or perpendicular to each other.
 - Gaps larger than 3" (75 mm) should be avoided if possible. See ["Gap Bridging"](#) details for further information.
 - 7. After the Silva Cells are laid out, finalize all volume calculations and Silva Cell counts.
 - Verify that the designed system meets the target soil volume for the intended tree(s), and if used in a stormwater application, meets the target stormwater treatment volumes.
 - Determine the number of Silva Cell frames and Silva Cell decks required for your design (i.e., a 3-layer system requires 3 Silva Cell frames and 1 Silva Cell deck).
- All Silva Cell layouts and details must be reviewed by a DeepRoot consultant prior to construction to ensure proper application of the Silva Cell technology. Please contact DeepRoot if you run into any difficulties; we will help find solutions for your site.
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Canada: (800) 561 3883
United Kingdom: +44 (0) 207 969 2739
info@deeproot.com

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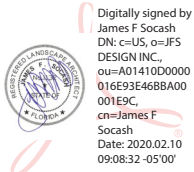
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DEEPROOT SILVA CELLS SPECIFICATIONS, ETC.

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