

CITY OF MIAMI BEACH LANDSCAPE LEGEND INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS Acres____1.23_ Zoning District TC-1 Lot Area __53,776 _s.f. REQUIRED/ **OPEN SPACE** ALLOWED PROVIDED A. Square feet of required Open Space as indicated on site plan: Lot Area = **53,776** s.f.x **20** % = 10,755 s.f. 10,755 s.f. 2,010 s.f. B. Square feet of parking lot open space required as indicated on site plans Number of parking spaces __N/A__ x 10 s.f. parking space = N/A N/A C. Total square feet of landscaped open space required: A+B= 10,755 s.f. 2,010 s.f. LAWN AREA CALCULATION A. Square feet of landscaped open space required 10,755 s.f. 2,010 s.f. B. Maximum lawn area (sod) permitted= _____50 % x _10,755 s.f. 5,378 s.f. A. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements= 22 trees x 1.35 net lot acres - number of existing trees= B. % Natives required: Number of trees provided x 30% = 5 C. % Low maintenance / drought and salt tolerant required: Number of trees provided x 50%= D. Street Trees (maximum average spacing of 20' o.c.) 731 linear feet along street divided by 20'=_37 37 23 E. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.): _____ linear feet along street divided by 20'= NOTE: TREE DEFICIT SHORTFALL TO BE PAID TO CMB TREE TRUST FUND. A. Number of shrubs required: Sum of lot and street trees required x 12= 804 0

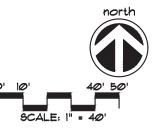
B. % Native shrubs required: Number of shrubs provided x 50%=

A. Number of large shrubs or small trees required: Number of required

B. % Native large shrubs or small trees required: Number of large shrubs or

LARGE SHRUBS OR SMALL TREES

small trees provided x 50%=



402

81

0

0

0

ARQUITECTONICA

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LANDSCAPE ARCHITECTURE

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FINAL SUBMITTAL 7140 ABBOTT AVE. MIAMI **BEACH, FL 33141**

SITE LANDSCAPE PLAN



DATE: 06/05/20

L-1.1

SCALE: AS SHOWN

GYM	NATIVE	#	NAME	BOTANICAL NAME	SPECIFICATION			
5111.	NATIVE		NAME	BOTANICAL NAME	SPECIFICATION			
PF	ROPOSE	D TRE	ES					
BS	YES	12	GUMBO LIMBO Bursera simaruba		16' X 7' spr., 4" D.B.H., 6' CLEAR TRUNK			
QVS	YES II		LIVE OAK SPECIMEN	Quercus virginiana	22' X 12'spr., 6" D.B.H., 8' CLEAR TRUNK.			
					FL. FANCY, CHARACTER			
					SUBMIT PHOTO for APPROVAL			
TD	YES	5	BALD CYPRESS	Taxodium distichum	16' x 7' spr., 4" DBH.			
G	ROUNDO	OVER	<u> </u>					
FG3	COONDO	1,175	"GREEN ISLAND" FICUS	Ficus "Green Island"	3 gal., 18" x 18", 18" o.c., full			
HYM	YES	200	SPIDER LILY	Hymenocallis latifolia	3 gal., 12" × 12" full, 14" o.c.			
MUH	YES	150	MUHLY GRASS	Muhlenbergia capillaris	1 gal., 12" x 12", 18" o.c., full			
FGG	YES	460	FLORIDA GAMA GRASS	Tripsacum floridana	1 gal., 12" x 12", 18"o.c., full			
TOP	SOII ·		TOPSOIL:SAND MIX	50:50 TOPSOIL:SAND MI	IX SPREAD IN PLACE			
TOPSOIL:			TREES, PALMS, SHRUBS AND GROUNDCOVERS					
MUL	CHING:							
	42 0	C.Y.+/-	RECYCLED DRK BRIIN MULCH	4 3" DEPTH, SPREAD IN PL	LACE, ATLAS PEAT AND SOIL			
				PROVIDE SAMPLE FOR A	APPROVAL PRIOR TO INSTALLATION			
			TOPSOIL, SOD AND MUL	CH QUANTITIES SHOWN ARE A	APPROXIMATE, CONTRACTOR			
			TO PROVIDE A UNIT PR	RICE PER UNIT AND WILL BE F	PAID ON THAT UNIT PRICE BASIS			
			UPON FINAL INSPECTION	N AND APPROVAL.				
INST	ALLATION	ON WA	ATERING:					
			CONTRACTOR SHALL TO	HOROUGHLY WATER-IN ALL P	LANTINGS WHEN PLANTED,			
			AND SHALL CONTINUE U	NATERING UNTIL FINAL INSPEC	TION AND APPROVAL BY			
			THE LOCAL GOVERNING	AGENCY AND THE OWNER.				

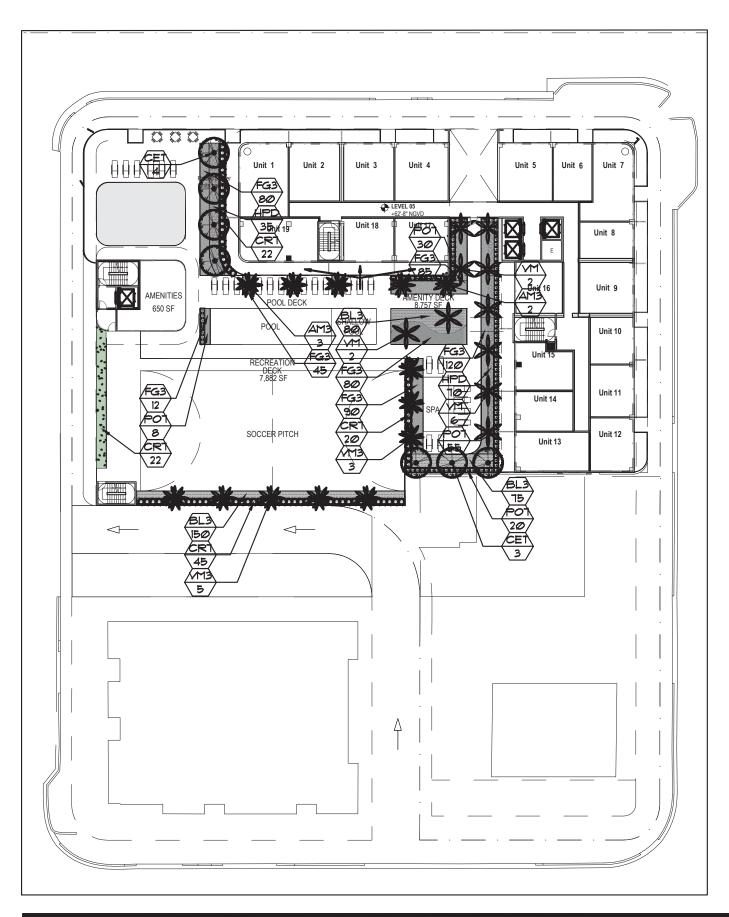
STREET TREE TABULATIONS							
	REQUIRED	PROVIDED					
BYRON AVE. 191 LF., 1 TREE/ 20 LF. = 10 TREES	10	5 5 86					
72TH STREET 239 LF. , I TREE/ 20 LF. = 12 TREES	12	11 11 QVS					
ABBOTT AVE. 295 L.F., TREE/ 20 L.F. = 5 TREE5	15	7 7 86					
NOTE: PROPOSED STREET TREE PLANTINGS ARE SHOWN TO BE INSIDE OF THE PROPERTY DUE TO SIGHT TRIANGLE RESTRICTIONS AS SHOWN ON THE PLAN.							
TOTALS	37	23					

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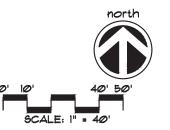
FINAL SUBMITTAL 7140 ABBOTT AVE, MIAMI BEACH, FL 33141 PLANTLIST &
STREET TREES TABULATION

Digitally signed by James F Socash DN: c=US, o=JFS DESIGN INC. 0016693E46BBA0 0001E9C. Cri-James F Socash Date: 2020.06.04 09:50:44-04'00'

DATE: 06/05/20



PLANTLIST										
SYM.	NATIVE	*	NAME	BOTANICAL NAME	SPECIFICATION					
PI	PROPOSED TREES									
CET	YES	٦	SILVER BUTTONWOOD	Conocarpus erec. "Sericeus"	12' x 6'spr., 2" D.B.H.					
P	ALMS									
ДМ З		5	CHRISTMAS PALM	Adonidia merrillii	FG., 10' o.a., TPL., full head					
M		10	MONTGOMERY PALMS	Veitchia montgomeryana	SGL. TK., FG., 14' o.a., full hd.					
VM3		8	MONTGOMERY PALMS	Veitchia montgomeryana	TPL. TK., FG., 14' o.a., full hd.					
SI	IRUBS									
CRT	YES	109	SMALL-LEAVED CLUSIA	Clusia guttifera	7 GAL., 36" ht., 30" Ø.C., FTB.					
HPD	YES	105	DWARF FIREBUSH	Hamelia nodosa	3 gal., 18" x 18", 24" o.c.					
P01		103	PODOCARPUS HEDGE	Podocarpus spp.	7 gal., 30" x 24", full heavy					
G	GROUNDCOVERS									
BL3		305	BLUEBERRY FLAX LILY	Dianella tasmanica	3 gal., 12" x 18", 18" o.c., full					
FG3		512	"GREEN ISLAND" FICUS	Ficus "Green Island"	3 gal., 18" x 18", 18" o.c., full					
TOP	SOIL:									
285 c.y, "2100 MIX" FOR PLANTING-PER ATLAS PEAT AND SOIL FOR PLANTER BOXES										
BASED UPON 3,845 S.F. X 2' DEPTH/27 C.F. PER C.Y.										
MUL	CHING:									
	35 C	:.Y.+/-	RECYCLED DRK BRWN MUL	CH 3" DEPTH, SPREAD IN PL	ACE, 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 INSPECTI	ON AND APPROVAL.						
INS	TALLATIO	AW NC	TERING:							
CONTRACTOR SHALL THOROUGHLY WATER-IN ALL PLANTINGS WHEN PLANTED,										
	AND SHALL CONTINUE WATERING UNTIL FINAL INSPECTION AND APPROVAL BY									
			THE LOCAL GOVERNII	NG AGENCY AND THE OWNER.						



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DATE: 06/05/20

■ 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 GROUND COVERS: (12-06-08 AFEC * 5231) RATE: 1,5 OZ./ FT. OF HEIGHT

LANDSCAPE NOTES

- 1. ALL PLANT MATERIAL SHALL BE FLORIDA NO. I 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 GROUNDCOVERS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR AND BE INCLUSIVE WITH THE LANDSCAPE BID.
- 1. CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR AND LEAVE PROVISIONS FOR ALL, INCLUDING UNDERGROUND UTILITY LINE LOCATIONS DIAL SII "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.

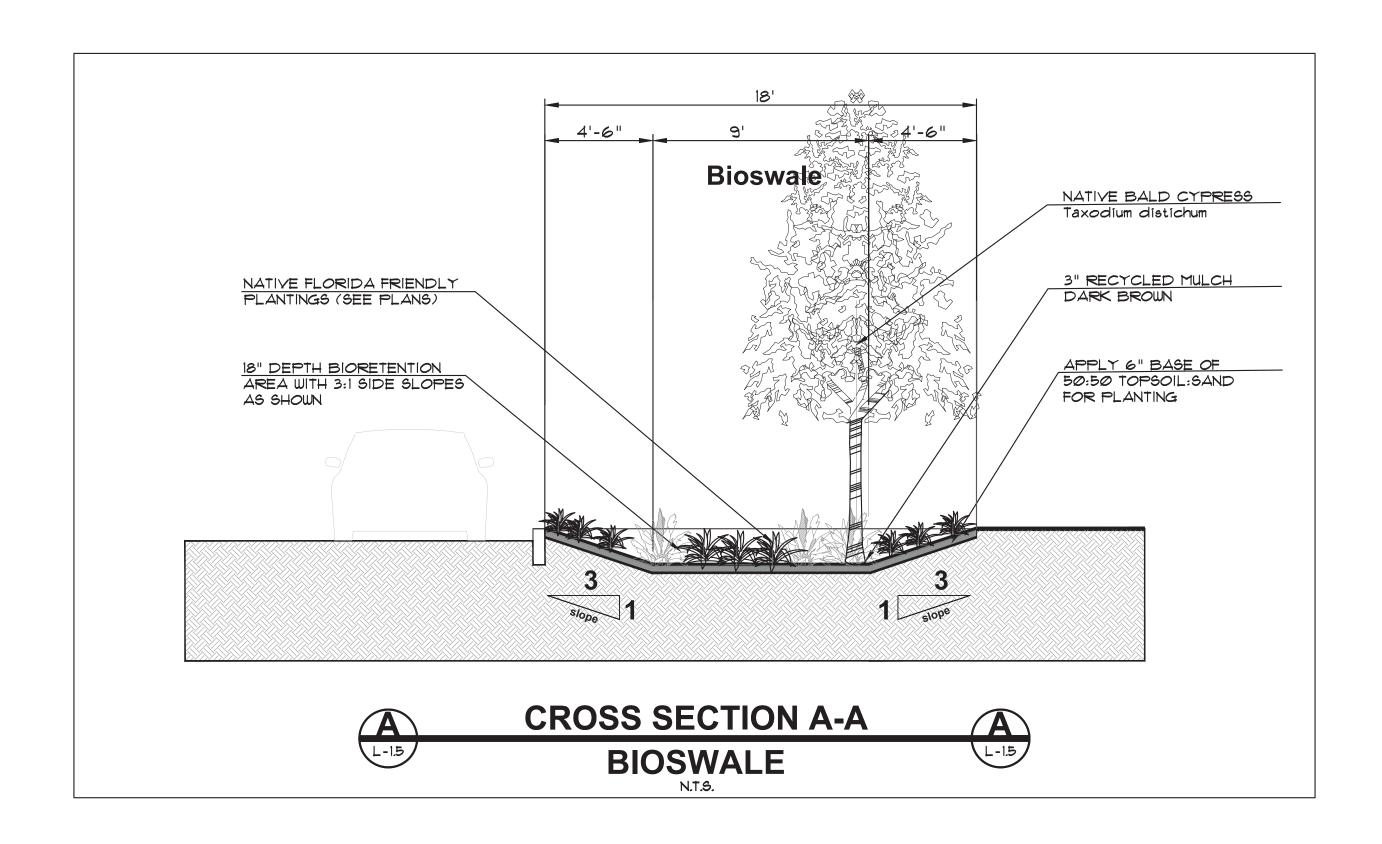
LANDSCAPE NOTES

- 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.
- 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.
- IT. 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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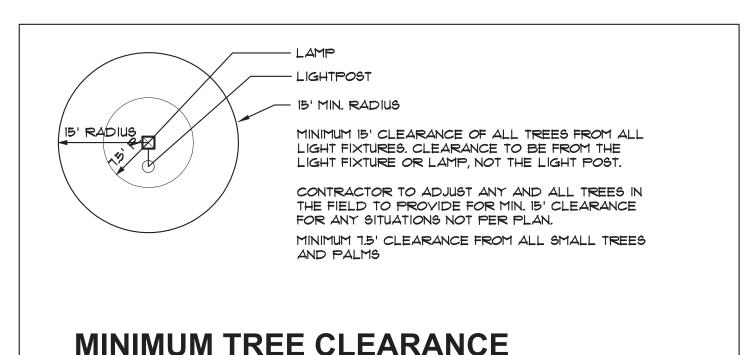
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BIOSWALE CROSS SECTION

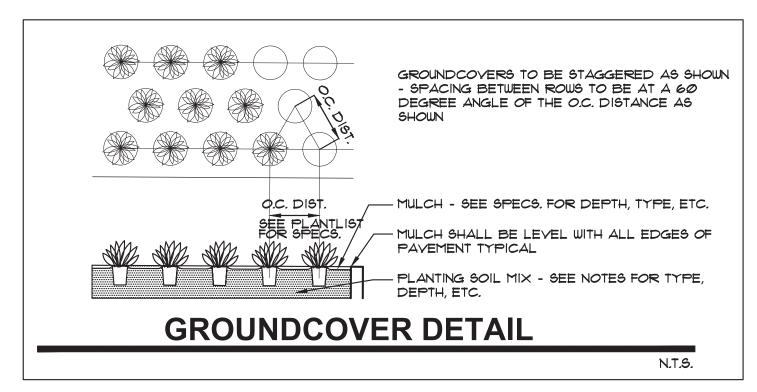


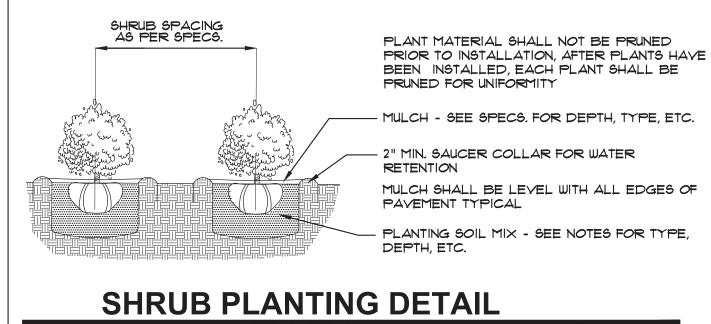
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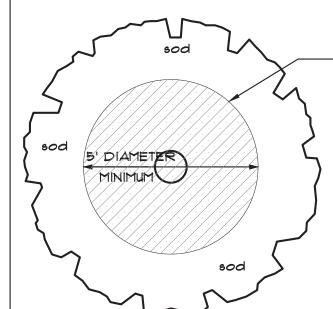
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N.T.S.







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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FINAL SUBMITTAL 7140 ABBOTT AVE, MIAMI BEACH, FL 33141 LANDSCAPE DETAILS



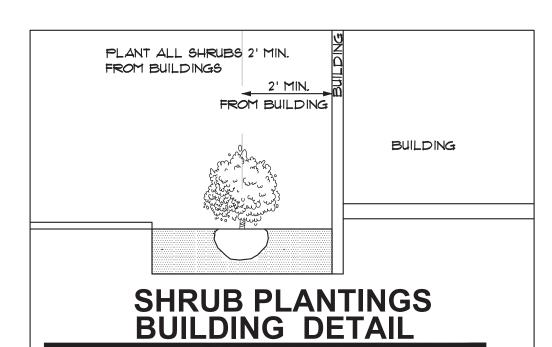
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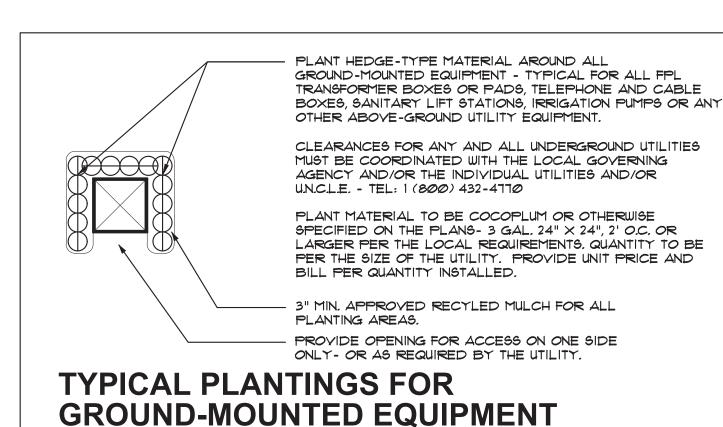
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FROM LIGHT FIXTURES

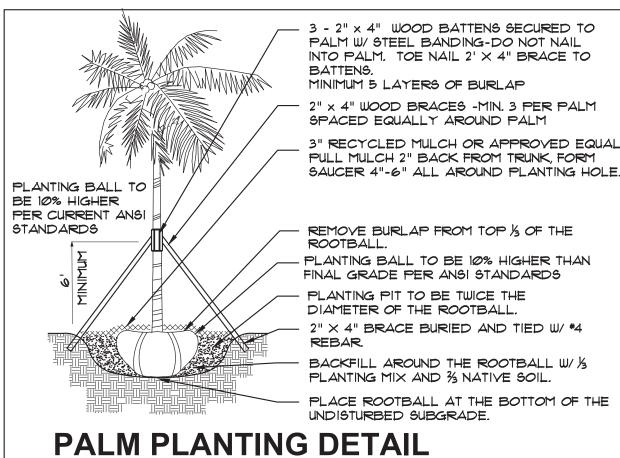
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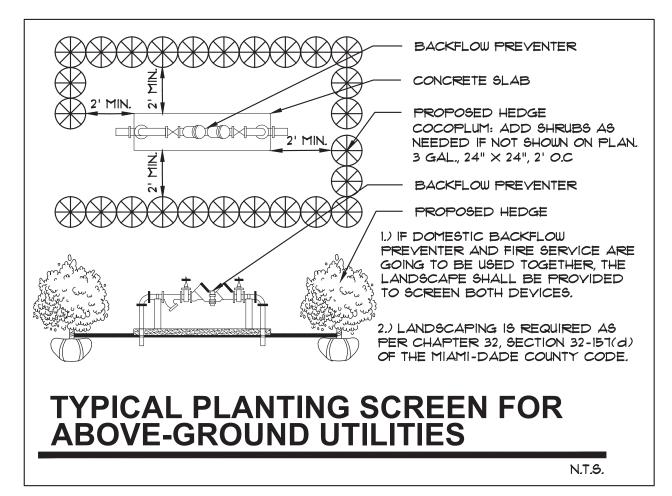
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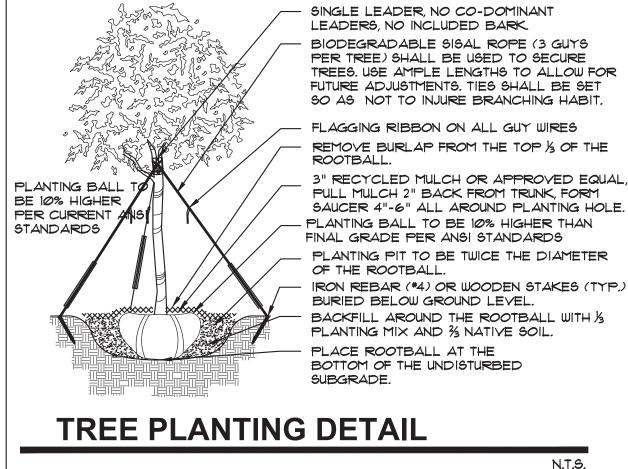
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LANDSCAPE DETAILS



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LANDSCAPE DETAILS



DATE: 06/05/20

MATERIALS LIST

SYM. NATIVE * NAME BOTANICAL NAME SPECIFICATION

"DEEPROOT" SILVA CELLS

24 SILVA CELLS

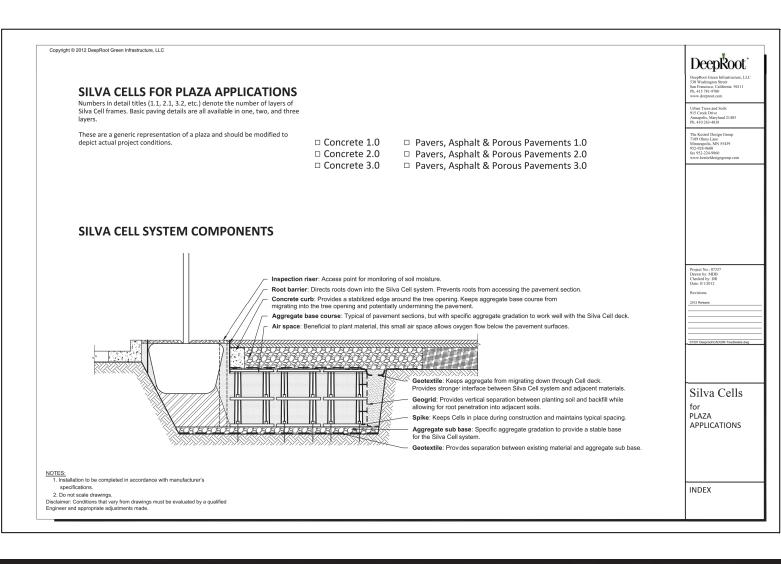
"2 X SILVA CELL 2" TO PROVIDE DEPTH AS SHOWN IN SECT.

PER MANUFACTURER'S SPECIFICATIONS.

90 C.U.

"5050 MIX" FOR PLANTING-PER ATLAS PEAT AND SOIL

CONTRACTOR SHALL MAKE PROVISIONS FOR ALL EXISTING AND PROPOSED UTILITIES, (ABOVE AND BELOW GROUND) AND SHALL BE RESPONSIBLE TO PROTECT THROUGHOUT THE CONSTRUCTION PROCESS.



DEEPROOT SILVA CELL

ESTORING ECOSYSTEM SERVICES TO THE URBAN ENVIRONS

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.

ARQUITECTONICA

2900 Oak Avenue, Miami, FL 33133 T 305.372.1812 F 305.372.1175 JFS Design Inc.
LANDSCAPE ARCHITECTURE
LC 000393

FINAL SUBMITTAL 7140 ABBOTT AVE, MIAMI BEACH, FL 33141 DEEPROOT SILVA CELLS SPECIFICATIONS, ETC.

Digitally signed by James F Socash DN: c=US, o=JFS DESIGN INC., ou=A01410D000 0016E93E46BBA0 0001E9C. Cn:=James F Socash Date: 2020.06.04 09:47:11-04'00'

DATE: 06/05/20

L-1.9

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CELL SYSTEM INSTRUCTIONS

DeepRoot

tuidelines. 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.

The Silva Cell system is designed to be installed beneath paved areas such as pavement types (concrete, asphalt, or pavers) require different pavement profiles in order to neet H-20 loading requirements. The Silva Cell traffic loads. Consult our standard details for more information

structures might affect your Silva Cell layout. Silva Cells can often accommodate existing and for this integration is critical for a successful layout and installation. Share your Silva Cell to work around site and utility conflicts early in

Silva Cells allow growth of large trees that, with adequate soil volumes, proper installation and care, will reach its true mature size. a significant trunk flare that your design

to each other or to existing nearby soil volumes

SIZING A SILVA CELL SYSTEM

used to grow big trees or grow big trees and

- Silva Cells are used to provide soil to grow large trees, but can also be used to treat think about how to size and design your

> system can use a passive irrigation system. sure to include irrigation in your plans.

For large trees and stormwater, consider how to distribute the stormwater throughout the drainage.

- See "Stormwater Schematics" for concepts for managing stormwater in the Silva Cells.

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.

is to provide 1,000 ft3 (28m3) of soil for a canopy tree and 600 ft3 (17m3) of soil for an 2:1 ratio of Soil Volume: Canopy Size. Trees can also share soil volumes, an efficient way planters together. Shared soil volume targets are typically around 600 ft3 (17m3) per

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 mature tree.

- Wherever possible, link Silva Cell soil soil volumes, such as parks or lawns.

- Calculate the Available Soil Volume in the area of work, including available soil in the open space that the Silva Cells can link to

meet the target soil volume.

- Each Silva Cell holds approximately 10 ft3 (0.28 m3) of soil.

Soil in Silva Cells)

For example: The tarnet 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 approximately 3.75'.

3.75'x4'x4' = 60 ft3 (1.7m3) in the tree opening

.y 1,000 ft3 – 60 ft3 = 940 ft3 needed in Silva Cells 940 ft2/10ft2 per frame - 94 Cell frame

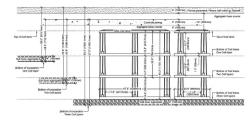
Since we're using 3-frames deep, 94/3 = Obviously, we can't have 0.3 Cell decks. So bump this up to:

32 decks x 3 frames deep = 96 Cell frames 960 ft3 + 60 ft3 = 1,020 ft3 soil provided

5. If designing the system for on-site stormwater management, determine how many Silva Cells are needed to provide stormwater treatment

- Bioretention soil is used within the Silva Cells any distribution or overflow pipes.

03 04 05



Cells will be roughly equivalent to 20% of the total bioretention soil volume (2 ft³/.05 m³ mately 2' (0.6 m) wide x 4' (1.2 m) long. 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 stormwater treatment.

- Provide approximately 1,000 ft3 (28 m3) of soil for an understory tree. Stormwater treatment volumes will vary based on project

Standard Silva Cell dimensions are approxi

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

Cells is 1-3* (25 mm x 75 mm). These dimensions should be used for all standard Silva Cell x 75 mm) gap between each stack they can be oriented in a layout that best accommodates

placement based on existing and proposed

limited to) structures, utilities, roads and landscape plans to evaluate all potential conflicts with the Silva Cell system.

system. This will depend on available space. target soil volume, and budget.

Cell system depth.

depth to use the Silva Cell.

- Stacks of Silva Cells 1-, 2- and 3-frames

the depth of the system is a useful way

pass through your area of work.

For use on sites with slopes greater than

(415 781 9700 or info@deeproot.com).

2. Determine the available area for Silva Cell

or existing curbs.

deep can be positioned adjacent to one another in one-frame increments. Altering

installed immediately adjacent to walls, footings, or other site structures that - Silva Cells can be stacked 1-, 2-, or extend below the Silva Cell System. The the maximum depth that can be maximum distance should be 3" (75 mm) accommodated, refer to "Construction additional support measures. This the Silva Cell system will fit into your site circumstance should always be evaluated by a DeepRoot consultant prior to construction. Please see the "Gap Bridging" cross-section. Note the pavement profile details in our Modified Details package for materials when calculating the total Silva

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, grate. Tree grate support shall be placed directly above the Silva Cell posts. Remember when designing the tree opening and choosing an appropriate tree grate.

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

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

required Silva Cell spacing for ease of layout. into your drawing for compliance with standard Silva Cell dimensions.

- Silva Cell frames must be placed bet 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 for information about gap bridging.

5. Place Silva Cells on your site starting with the

. Conv the Silva Cell block to fill the approxinate Silva Cell area, starting along the curb setback and around tree openings and/or

- Copy the Silva Cell block to fill the approximate Silva Cell area, starting along the curb 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 Cell frames.

- Link soil volumes wherever possible between trees so that they can share soil.

perpendicular to each other.

avoided if possible. See "Gap Bridging" details for further information.

volume calculations and Silva Cell counts.

. Varify that the designed system meets tree(s), and if used in a stormwater application, meets the target stormwate

and Silva Cell decks required for your design 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 DeepRoof if you run into any difficulties; we will help find

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DEEPROOT SILVA CELLS SPECIFICATIONS, ETC.

SCALE: AS SHOWN

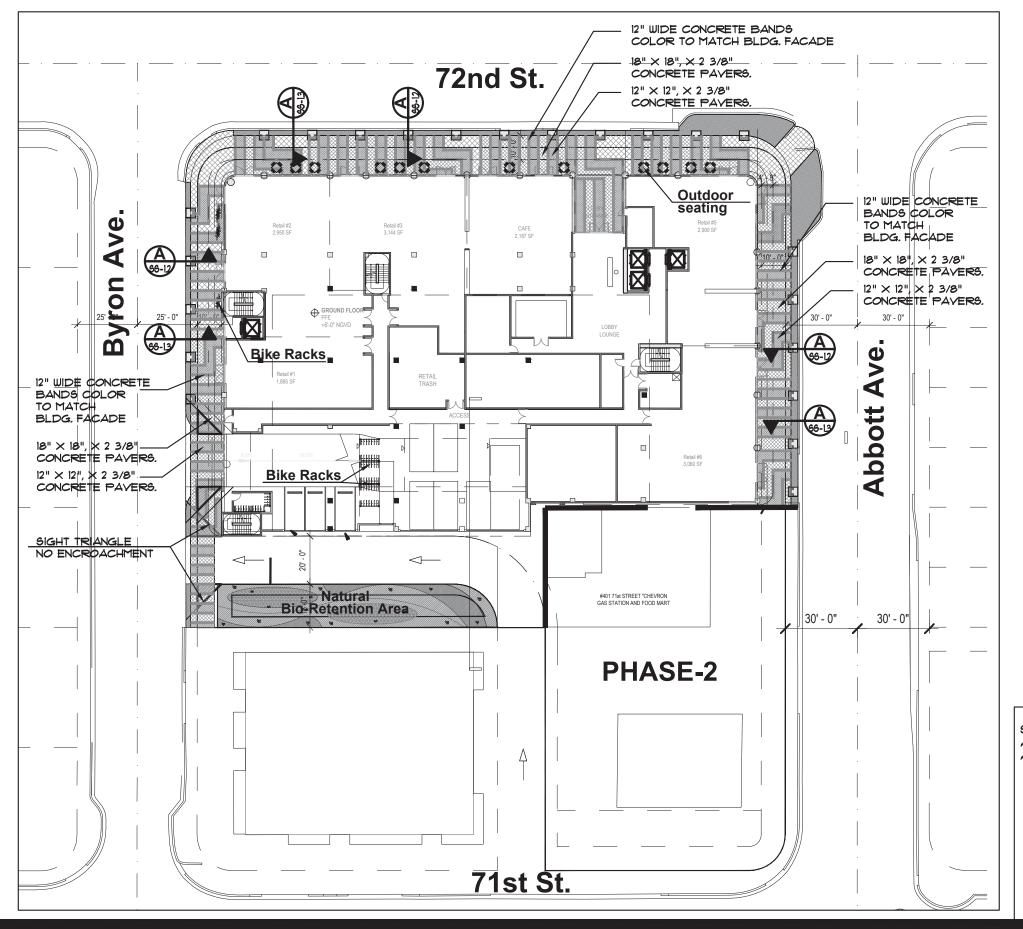


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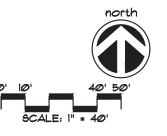
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SEE RESPECTIVE SHEETS SS-12 AND SS-1.3 FOR TYPICAL SECTION AND DETAIL.



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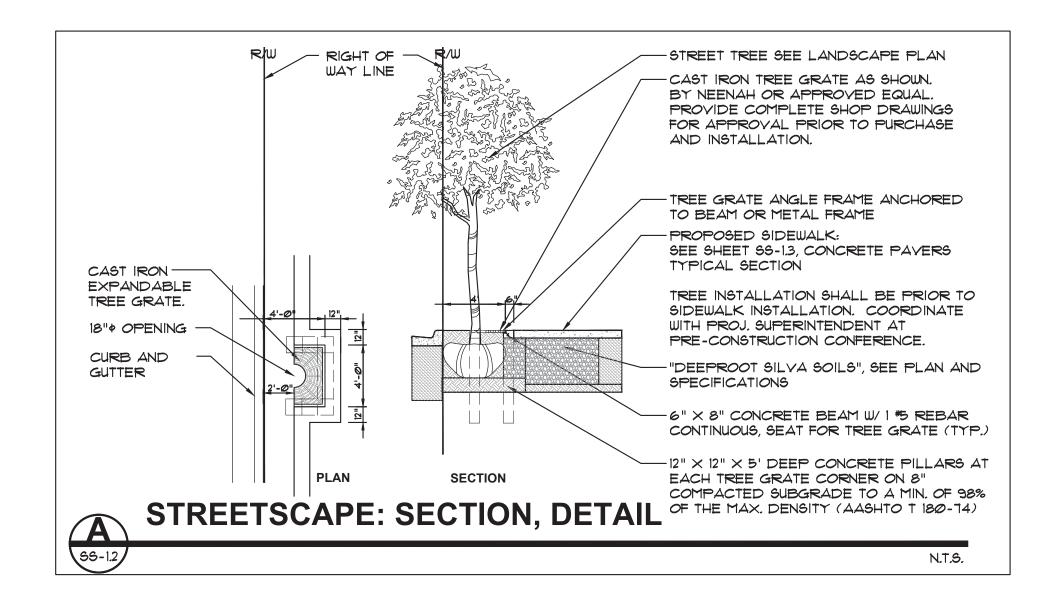
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SS-1.1



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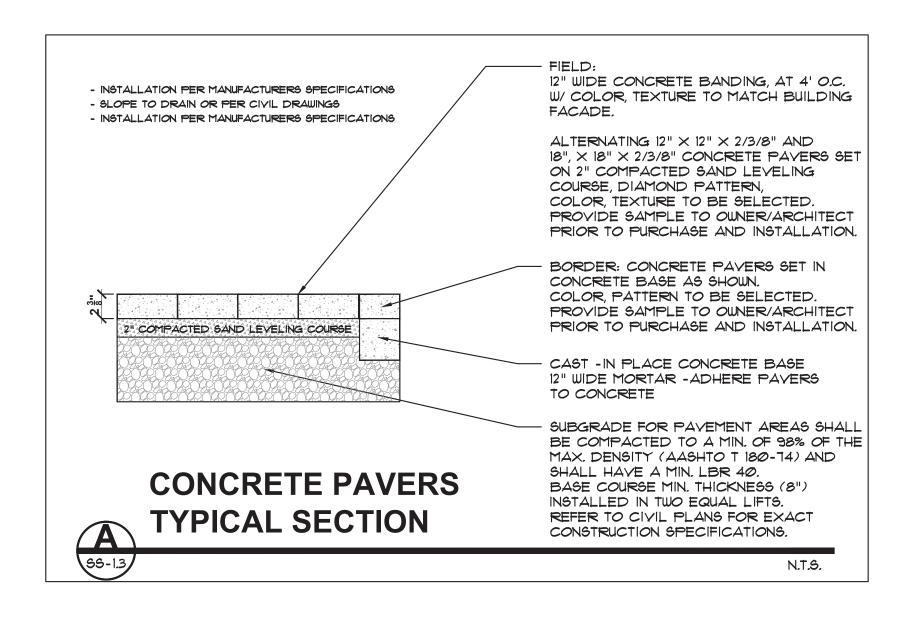
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STREETSCAPE: SECTION, DETAIL



DATE: 06/05/20

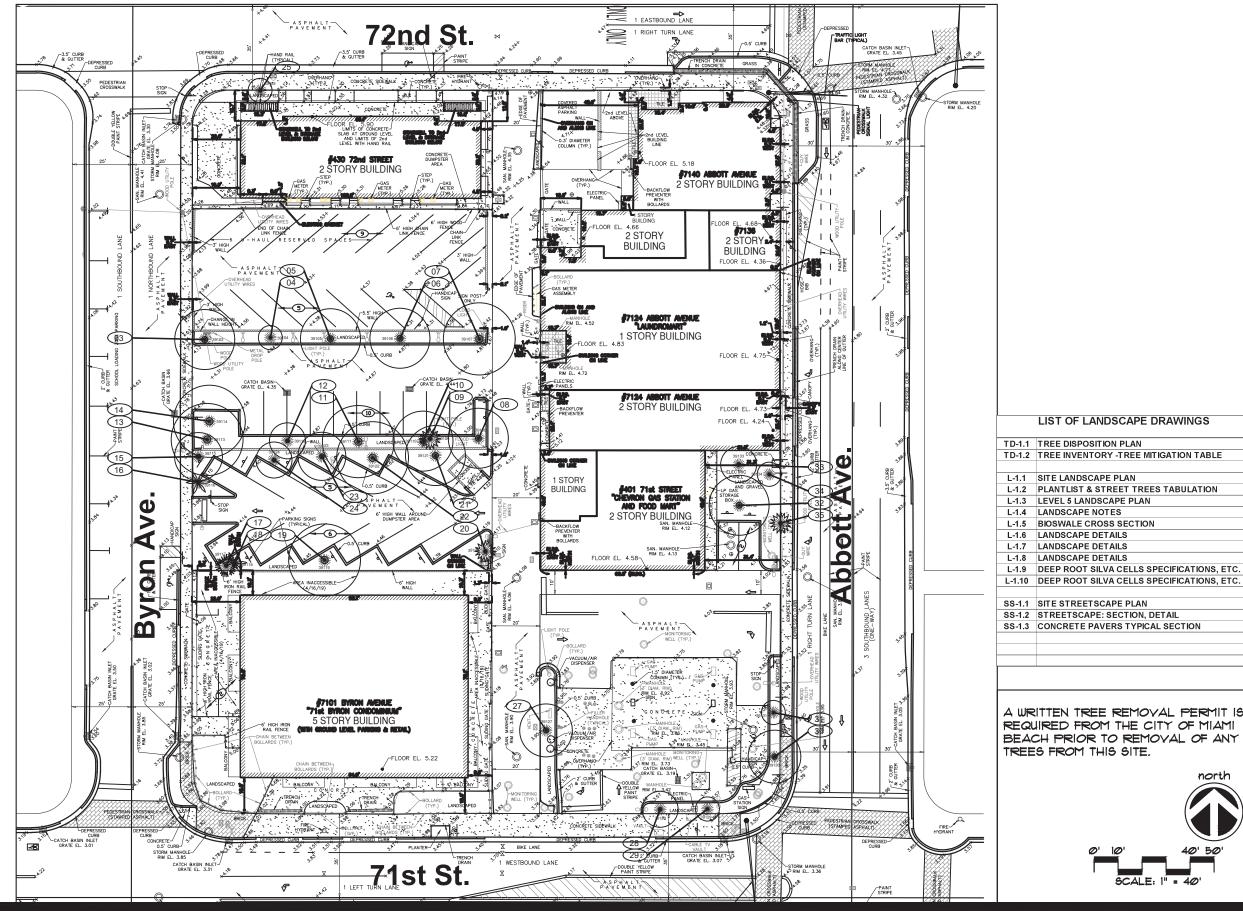
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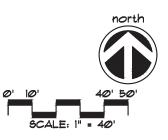


DATE: 06/05/20



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

LIST OF LANDSCAPE DRAWINGS



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TREE DISPOSITION PLAN



DATE: 06/05/20

TD-1.1

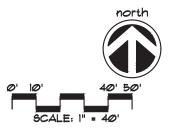
TREE MITIGATION-REPLACEMENT PLANTLIST SYM. NATIVE BOTANICAL NAME SPECIFICATION **REMOVAL OF 279" D.B.H. OF EXISTING TREES** MITIGATION REQUIREMENT: 94 TREES @ 12' HT., 2" DBH OR 47 TREES @ 16' HT., 4" DBH SEE TREE DISPOSITION PLAN FOR EXISTING TREE INVENTORY AND STATUS PROVIDED MITIGATION: 67 trees @ 12' ht. (equivalency of 17 trees @ 16' ht, 4" dbh and 11 @22', 6"dbh) BS YES 12 GUMBO LIMBO Bursera simaruba $16' \times 1'$ spr., 4" D.B.H., 6' CLEAR TRUNK. QVS YES II LIVE OAK SPECIMEN $22' \times 12'$ spr., 6" D.B.H., 8' CLEAR TRUNK. Quercus virginiana FL. FANCY, CHARACTER. SUBMIT PHOTO for APPROVAL TD YES 16' x 1' spr., 4" DBH. 5 BALD CYPRESS Taxodium distichum TREES WITHIN THE RIGHT OF WAY SHALL BE STANDARD, SINGLE-LEADER WITH 4' OF CLEAR TRUNK AT TIME OF PLANTING MITIGATION DEFICIT: 27 TREES @ 12' HT., 2" DBH TOTAL: \$27,000 (27 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:

- 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.

TREE		*	COMMON NAME -	BOTANICAL NAMI -	HEIGH -	SPRE/	DBH -	STATU	DBH -	PALI -
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 PALM CLUSTER	?	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 BUTTONWOO	Conocarpus erectus	25	15	14	REMOVE	14	
39134	34	CE	GREEN BUTTONWOO	Conocarpus erectus	20	8	16	REMOVE	16	
39135	35	WR	WASHINGTONIA PAL	Washingtonia robusta	4	8	12	REMOVE		
			TOTALS						279	3
			FIELD INVENTORY C	ONDUCTED BY JFS	DESIGN IN	IC. ON NO	OVEMBE	R 15, 2019		

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TREE INVENTORY- TREE MITTON PORTION OF THE PROPERTY OF THE PRO **TABLE**

01E9C, cn=James Date: 2020.06.04

DATE: 06/05/20 TD-1.2