Conklin Car Wash

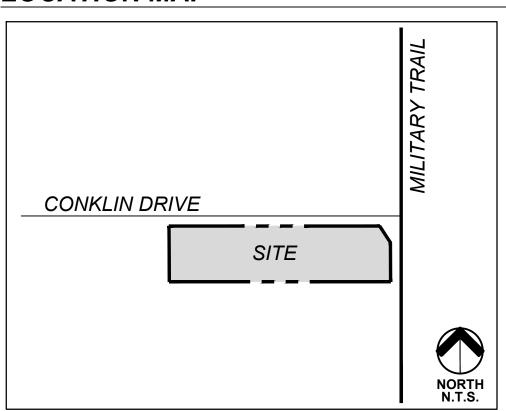
Landscape Plan City of Delray Beach, Florida

NOTE: These Landscape Plans have been prepared to satisfy City of Delray Beach zoning requirements and to conceptually reflect landscape requirements for the site. They are not to be utilized for construction drawings until final engineering and architectural plans are available. These drawings are not to be used for Building Permit application until these plans are finalized.

SHEET INDEX

COVER SHEET & PLANT SCHEDULE	LA-1
TREE DISPOSITION PLAN & CHART	LA-2
LANDSCAPE PLAN	. LA-3
PLANTING DETAILS	LA-4
PLANTING SPECIFICATIONS	LA-5

LOCATION MAP



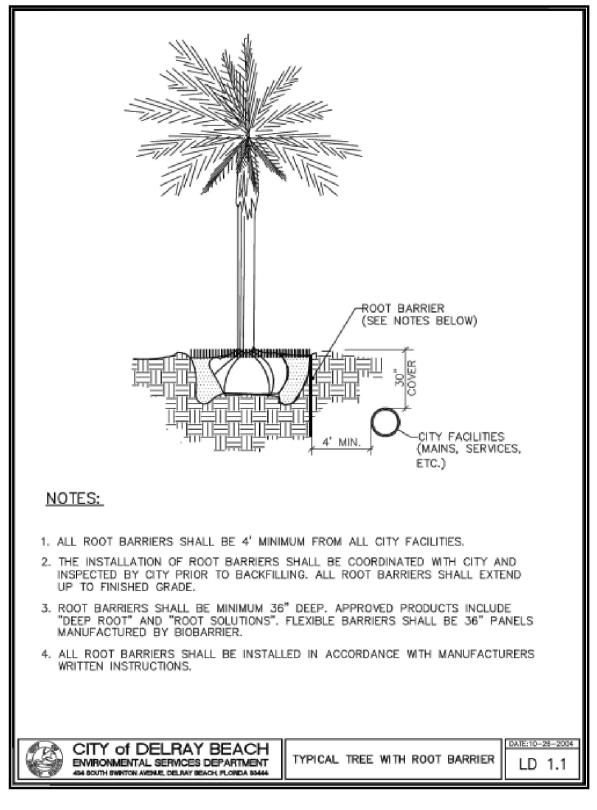
SITE DATA

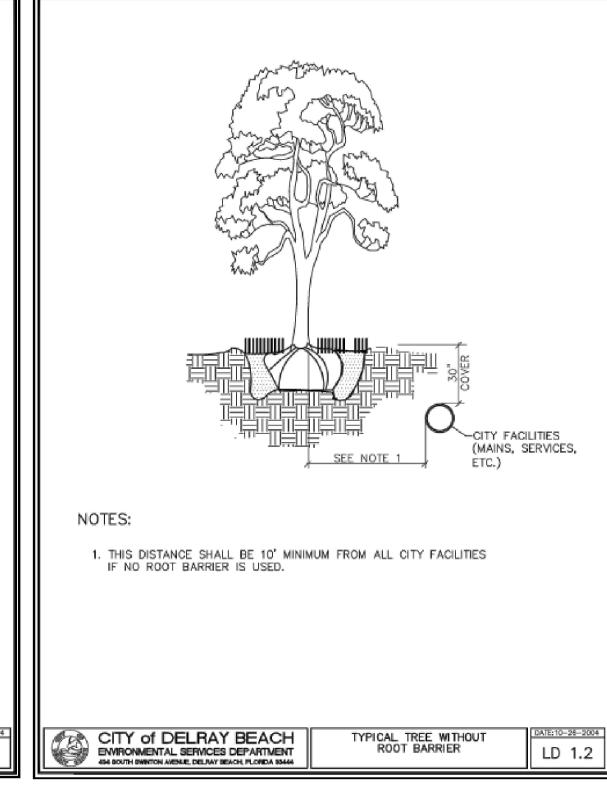
SIIE DAIA	
APPLICATION NAME PROPERTY CONTROL NUMBER EXISTING FUTURE LAND USE	FAZIO CONSULTING, LLC 12-42-46-14-03-002-0010 GENERAL COMMERCIAL (
EXISTING ZONING DISTRICT	GENERAL COMMERCIAL (
OVERLAY(S)	N/A
EXISTING USE	VACANT COMMERCIAL
PROPOSED USE	AUTOMATIC CAR WASH
SITE AREA	0.99-AC (43,109 SF)

LANDSCAPE TABULAR DATA

LANDSCAPE TABULAR DATA	
TOTAL PAVED AREA FOR PARKING AND ACCESS:	22,243.16 SF
REQUIRED INTERIOR LANDSCAPING: (NO LESS THAN 10% OF TOTAL PAVED AREA @ 22,243.16 SF)	2,224.32 SF
INTERIOR LANDSCAPING PROVIDED:	13,908.80 SF
NUMBER OF INTERIOR TREES REQUIRED: (1 INTERIOR TREE PER 125 SF OF REQUIRED INTERIOR LANDSCAPING)	18
NUMBER OF INTERIOR TREES PROVIDED:	18
PERIMETER LANDSCAPE SPACE PROVIDED: (MIN. 5' DEPTH x LENGTH @ 890 LF ALONG CENTERLINE)	4,450 SF
NUMBER OF PERIMETER TREES REQUIRED: (ADJ TO COMM/IND. = 1 PERIMETER TREE PER 30 LF OF PERIMETER LANDSCAPE SPACE NORTH BUFFER: 307 LF / 30 = 10 TREES (ADJ TO RES. = 1 PERIMETER TREE PER 25 LF OF PERIMETER LANDSCAPE SPACE @ 58 WEST BUFFER: 109 LF / 25 = 4 TREES SOUTH BUFFER: 363 LF / 25 = 15 TREES EAST BUFFER: 115 LF / 25 = 5 TREES	,
NUMBER OF PERIMETER TREES PROVIDED: (3 PALMS = 1 CANOPY TREE)	34
FOUNDATION PLANTING TREES REQUIRED: (CHRISTMAS PALM = 1 TREE PER 20 LF OF BUILDING FACADE @ 127 LF)	6
FOUNDATION PLANTING TREES PROVIDED:	6
FOUNDATION PLANTING SHRUBS & GROUNDCOVER PROVIDED:	93
NUMBER OF TREE SPECIES REQUIRED: (22 REQUIRED TREES)	3
NUMBER OF TREE SPECIES PROVIDED:	7

CITY OF DELRAY BEACH STANDARD ROOT BARRIER DETAILS





PLANT SCHEDULE

- 1) DROUGHT TOLERANT RATING BASED UPON SFWMD WATERWISE PUBLICATION SOUTH FLORIDA EDITION.
- 2) ALL PLANT MATERIAL SPECIFICATIONS AND CONTAINER SIZES LISTED IN THE PROJECT PLANT SCHEDULE ARE REQUIRED MINIMUMS. CONTRACTOR MAY EXCEED THE REQUIRED MINIMUM SPECIFICATION AND CONTAINER SIZE BASED ON MATERIAL AVAILABILITY
- 3) ALL PLANT MATERIAL SHALL MEET AND ADHERE TO LATEST EDITION OF FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS. ALL PLANT MATERIAL SHALL BE FLORIDA # 1 OR BETTER.THE LANDSCAPE ARCHITECT OR OWNER/OWNER'S REPRESENTATIVE HAVE THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING THESE STANDARDS.
- 4) QUANTITIES ON PLANT SCHEDULE ARE FOR CONVENIENCE ONLY. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOWN ON LANDSCAPE PLANS.

CODE	QTY	BOTANICAL / COMMON NAME	NATIVE	DROUGHT TOLERANT	
TREES					
СО	8	Conocarpus erectus / Green Buttonwood Min. 16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full Canopy	Yes	Very	
EF	14	Eugenia foetida / Spanish Stopper 16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full Canopy	No	Very	
LI	7	Lagerstroemia 'Natchez' / Crape Myrtle 16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full	No		
		Canopy Quercus virginiana / Southern Live Oak			
QV	3	16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full Canopy	Yes	Very	
TH	3	Tabebuia heterophylla / Pink Tabebuia 16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full Canopy	No	Very	
TREES					
EF-M	5	Eugenia foetida / Spanish Stopper 16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full Canopy	No	Very	
SP	9	Sabal palmetto / Cabbage Palmetto 16' Ht. 8' C.T. Min., Single Straight Trunk, Hurricane Cut, No Scarred Trunks	Yes	Very	
VM	14	Veitchhia montgomeriana / Montgomery Palm Min. 12' Ct. 16' O.A. Ht. Single Trunk, Full Head, No Scarred Trunks	No	Moderate	
	1	r			
CHR	467	Chrysobalanus icaco 'Red Tip' / Red Tip Cocoplum 24" Ht. 24" Spr. 24" O.C., Full and Dense Shrub, Full to Base	Yes	Very	
CLU	9	Clusia guttifera / Small Leaf Clusia 6' HT. x 3' SPR., 36" O.C., Full and Dense to Base	Yes	Yes	
TRJ	8	Trachelospermum jasminoides / Chinese Star Jasmine 36" Ht Runners., 3' O.C., espalier to living green wall with stainless steel eye hooks,	No	Yes	
\S	1	T		_	
COE	118	Conocarpus erectus / Green Buttonwood Min. 24" Ht. x 24" Spr. 24" O.C., Full and Dense Shrub, Full to Base	Yes	Very	
CON	105	Min. 24" Ht. x 24" Spr. 24" O.C., Full and Dense Shrub, Full to Base	Yes	Very	
HAM	198	Min. 24" Ht. x 24" Spr. 30" O.C., Full and Dense Shrub, Full to Base	Yes	Very	
JAS	169	Jasminum volubile / Wax Jasmine Min. 24" Ht. x 24" Spr. 24" O.C., Full and Dense Shrub, Full to Base	No	Moderate	
VERS		Appuele / Second Appuele			
ANN	197	Min. 4" Pots, Full Flowering When Installed, 12" O.C.	No	Moderate	
AGE	210	Arachis glabrata / Perennial Peanut 6" Ht. x 12" Spr., 18" O.C., Full to Edge of Pot	No	No	
ASP	15	Min. 15" Ht. x 18" Spr.,24" O.C., Full and Dense Shrub, Full to Edge of Pot	No	Moderate	
FIG	56	Ficus microcarpa 'Green Island' / Green Island Indian Laurel Fig 18" Ht. x 18" Spr., 18" O.C., Full and Dense Pentas lanceolata / Penta (pink)	No		
PEN	73	Min. 15" Ht. x 18" Spr.,24" O.C., Full and Dense Shrub, Full to Edge of Pot Trachelospermum asiaticum ` Minima` / Minima Jasmine	No	Moderate	
TRA	1,025	Min. 12" Ht. x 12" Spr. 12" O.C., Full and Dense Shrub, Full to Edge of Pot	No	Moderate	
MULCH	7,955 sf	Shredded Melaleuca / Mulch Free of Foreign Materials and Weeds, Minimum Depth After Settling Shall be 3"; *Quantity to be Verified in the Field	N/A	N/A	
SOD	4,778	Stenotaphrum secundatum `Floritam` / Floritam St. Augustine Sod Laid tightly and flat, sanded and rolled to provide a uniform flat lawn	No	Moderate	
	CO EF LI QV TH TREES EF-M SP VM CHR CLU TRJ AS COE CON HAM JAS VERS ANN AGE ASP FIG PEN TRA JICH MULCH	CO 8 EF 14 LI 7 QV 3 TH 3 TREES 4 SP 9 VM 14 CHR 467 CLU 9 TRJ 8 AS 118 CON 105 HAM 198 JAS 169 VERS 15 ANN 197 AGE 210 ASP 15 FIG 56 PEN 73 TRA 1,025 JLCH MULCH 7,955 sf	Consequence of the Consequence	CO 8 Conceptus election / Green fluttorwood Min. 16 Ht. x 7 Spr., 3* DBH. 8*C.T., Single Straight Trunk, Full Canapy FF 14 Eugenia footida / Spanish Stopper 15*Ht. x 7*Spr., 3* DBH. 8*C.T., Single Straight Trunk, Full No Canapy Green Spr., 3* DBH. 8*C.T., Single Straight Trunk, Full Canapy The 15*Ht. x 7*Spr., 3* DBH. 8*C.T., Single Straight Trunk, Full Canapy Gov. 3 Claeraus virginiana / Southern Live Oak 15*Ht. x 7*Spr., 3* DBH. 8*C.T., Single Straight Trunk, Full Canapy The 3 Tabebula hoterophylla / Pink Tabebula Canapy TREES FF-M 6 Eugenia footida / Spanish Stopper 15*Ht. x 7*Spr., 3* DBH. 8*C.T., Single Straight Trunk, Full Canapy FF 9 Sabal palmeto / Cabbago Palmoto Canapy Spr., 3* DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 9 Sabal palmeto / Cabbago Palmoto Straight Trunk, Full No Canapy FF 9 Sabal palmeto / Cabbago Palmoto Straight Trunk, Full No Canapy FF 9 Sabal palmeto / Cabbago Palmoto Straight Trunk, Full No Canapy FF 15*Ht. X 7*Spr., 3* DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3* DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3* DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3* DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3*DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3*DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3*DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3*DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3*DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3*DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3*DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3*DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 7*Spr., 3*DBH. 8*C.T., Single Straight Trunk, Full No Canapy FF 16*Ht. X 15*Spr., 18*C.T., Single Straight Trunk, Full No Canapy FF 18*Ht. X 10*Spr., 18*C.T., Single Straight	

GENERAL NOTES

- STREETSCAPE LANDSCAPE PLANS (STREET TREES AND PLANTINGS WITHIN ROW)
 ARE A SEPARATE DOCUMENT.
- 2) SEE ENGINEERING PLANS PREPARED BY OTHERS FOR CONFIGURATION, HEIGHT AND SLOPE OF BERMS.

 3) DETAILING OF FOCAL POINTS AND HARDSCAPE ARE A SERABATE DOCUMENT. S.
- DETAILING OF FOCAL POINTS AND HARDSCAPE ARE A SEPARATE DOCUMENT. SEE PLANS PREPARED BY OTHERS FOR THESE DETAILS.

LANDSCAPE NOTES

- BASE INFORMATION OBTAINED FROM KEEN ENGINEERING DATED 09-04-2025.
 ALL INVASIVE SPECIES WILL BE ERADICATED FROM SITE AS REQUIRED BY
- 3) ALL LANDSCAPE MATERIAL SHALL CONFORM TO THE MOST RECENT STANDARDS AS OUTLINED BY THE "GRADES AND STANDARDS FOR NURSERY PLANTS" PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND
- CONSUMER SERVICES. ALL PLANT MATERIAL SHALL BE FLORIDA #! OR BETTER.

 4) SIGHT TRIANGLES SHALL BE PROVIDED AND MAINTAINED BY OWNER CLEAR OF VEGETATION TO PROVIDE UNOBSTRUCTED VISIBILITY BETWEEN 30 INCHES
- AND 8 FEET ABOVE GRADE.

 5) UTILITY EASEMENTS SHALL NOT ENCROACH INTO LANDSCAPE BUFFERS MORE THAN 5 FEET OR AS PERMITTED BY CODE.
- 6) FDOT TYPE "D" OR "F" CURB OR WHEEL STOPS TO BE PROVIDED ALONG ALL LANDSCAPE AREAS, INCLUDING DRIVE AISLES AND PARKING SPACES.
- 7) ALL INSTALLATION WORK SHALL BE CARRIED OUT IN A PROFESSIONAL MANNER IN ACCORDANCE WITH STANDARD NURSERY AND INSTALLATION PRACTICES
- 8) ALL LANDSCAPE AREAS SHALL BE SODDED, MULCHED OR OTHERWISE COVERED WITH GROUND COVER PER THESE PLANS AS LABELED.
- 9) TREES SHOWN ON THIS PLAN ARE GRAPHIC REPRESENTATION ONLY. TREE SPACING IS BASED ON DESIGN REQUIREMENTS AND TREES SHOWN ON THESE PLANS ATTEMPT TO ACCOMPLISH THAT SPACING WHILE MAINTAINING THE REQUIRED SETBACKS FROM UTILITIES. TREES MAY BE FIELD ADJUSTED TO AVOID CONFLICTS WITH DRIVEWAYS AND UNDERGROUND UTILITIES.
- 10) CONTRACTOR TO COORDINATE PLANTING OPERATIONS WITH ALL UNDERGROUND UTILITY PROVIDERS AND CALL "SUNSHINE DIG" / 811 TO FLAG UTILITY LOCATIONS PRIOR TO COMMENCING PLANTING OPERATIONS FOR ANY PORTION OF THE SITE. IF "SUNSHINE DIG" / 811 DOES NOT LOCATE ALL UNDERGROUND UTILITIES ON-SITE, THE CONTRACTOR IS RESPONSIBLE FOR SECURING THESE SERVICES FROM A PRIVATE PROVIDER.
- 11) LANDSCAPE CONTRACTOR TO HAND DIG PLANTING HOLES FOR TREES AND/OR SHRUBS WITHIN FIVE (5') OF ALL FP&L EASEMENTS.
- 12) GROUND MOUNTED MECHANICAL EQUIPMENT TO BE SCREENED PER THESE PLANS INCLUDING AS-BUILT EQUIPMENT LOCATIONS AT TIME OF LANDSCAPE INSTALLATION. CONTRACTOR TO NOTIFY OWNER / OWNER'S REPRESENTATIVE OF ADDITIONAL REQUIRED PLANT MATERIAL QUANTITIES AT TIME OF LANDSCAPE INSTALLATION FOR ADDITIONAL MECHANICAL EQUIPMENT OR RELOCATED EQUIPMENT THAT MAY REQUIRE ADDITIONAL LANDSCAPE SCREENING.
- 13) PLANTINGS ADJACENT TO OVERHEAD LINES TO COMPLY WITH FP&L's "RIGHT TREE IN THE RIGHT PLACE" GUIDELINES FOR MINIMUM SEPARATIONS TO OVERHEAD LINES.

UTILITY SETBACK NOTES

- 1) ALL SETBACK DIMENSIONS SHOWN ON THE PLANS ARE TO BE MET AT THE TIME OF INSTALLATION.
- 2) TREES ARE TO BE INSTALLED WITH A TEN FOOT (10') SEPARATION FROM ANY WATER OR SEWER MAIN AND/OR SERVICE, HYDRANTS, AND LIFT STATIONS, OR WITH A MINIMUM SEVEN FOOT (7') SETBACK IF INSTALLED WITH A ROOT BARRIER SYSTEM. REFER TO THE "ROOT BARRIER" DETAIL ON THE PLANTING DETAILS SHEET FOR INSTALLATION REQUIREMENTS. HOWEVER IN NO CASE SHALL A TREE ENCROACH INTO A UE WITHOUT PRIOR UTILITY PROVIDER APPROVAL AND ONLY SOD CAN BE INSTALLED WITHIN 5' OF ANY WATER METER AND WITHIN 7.5' OF ANY FIRE HYDRANT UNLESS OTHERWISE APPROVED BY THE FIRE MARSHAL AND UTILITY PROVIDER.
- 3) TREES ARE TO BE INSTALLED WITH A TEN FOOT (10') SEPARATION FROM ANY DRAINAGE OR STORM SEWER INFRASTRUCTURE, OR WITH A MINIMUM SEVEN FOOT (7') SETBACK IF INSTALLED WITH A ROOT BARRIER SYSTEM. REFER TO THE "ROOT BARRIER" ON THE PLANTING DETAILS SHEET FOR INSTALLATION REQUIREMENTS.
- 4) WHERE REQUIRED, ROOT BARRIER TO BE INSTALLED WITH A MINIMUM 5' SEPARATION TO THE EDGE OF ALL UNDERGROUND UTILITIES AND INFRASTRUCTURE.
- 5) TREES SHALL BE PLANTED WITH A MIN. 2' SEPARATION BETWEEN ANY ROOT BARRIER (MEASURED FROM THE CENTER OF THE TREE).

LANDSCAPE EXCAVATION & BACKFILL NOTES

- 1) TREE AND SHRUB PLANTING BEDS WHICH FALL WITHIN OR NEAR ROADWAY AREAS SHALL BE COMPLETELY EXCAVATED AND BACK-FILLED WITH TOPSOIL. ALL SHELL-ROCK OR OTHER BASE MATERIALS, AND ALL SUBSOIL AND DEBRIS, SHALL BE COMPLETELY REMOVED FROM BENEATH SUCH PLANTING AREAS, TO A MINIMUM DEPTH OF 36". UPON COMPLETION OF EXCAVATION, LANDSCAPE ARCHITECT OR OWNER SHALL INSPECT THE EXCAVATED AREA PRIOR TO BACKFILLING WITH TOPSOIL.
- 2) ALL TREE AND/OR SHRUB PLANTING AREAS WITHIN 8' OF BUILDING FOUNDATIONS, AND ANY OTHER PLANTING AREAS WHERE SIGNIFICANT BURIED CONSTRUCTION DEBRIS IS ENCOUNTERED, SHALL BE COMPLETELY EXCAVATED TO A MINIMUM DEPTH OF 36". UPON COMPLETION OF EXCAVATION, LANDSCAPE ARCHITECT OR OWNER SHALL INSPECT THE EXCAVATED AREA PRIOR TO BACKFILLING WITH TOPSOIL.

MULCH NOTES

 MULCH SHALL BE GRADE A PREMIUM NATURAL MULCH, OR APPROVED EQUAL, FREE OF FOREIGN MATERIALS AND WEED SEEDS. MINIMUM DEPTH AFTER SETTLING SHALL BE THREE (3") INCHES.

DEVELOPMENT TEAM

OWNER / APPLICANT: FAZIO CONSULTING, LLC 50 LIBERTY DRIVE, SUITE 9F BOSTON, FL 02110

LANDSCAPE ARCHITECT & PLANNER: URBAN DESIGN STUDIO
610 CLEMATIS STREET, SUITE CU02
WEST PALM BEACH, FL 33401
(561) 366-1100

ARCHITECT:
A.23 STUDIOS
711 E. 9TH STREET
TUCSON, AZ 85719

SURVEYOR:
PERIMETER SURVEYING & MAPPING
947 CLINT MOORE ROAD
BOCA RATON, FL 33487
(561) 241-9988

TRAFFIC ENGINEER:
PINDER TROUTMAN
CONSULTATING, INC.
601 HERITAGE DRIVE, SUITE 493
JUPITER, FL 33458
(561) 296-9698

CIVIL ENGINEER:
KEEN ENGINEERING INC.
7280 PALMETTO PARK RD., SUITE 105
BOCA RATON, FL 33433
(561) 325-6700

IRRIGATION:
PARKER YANETTE DESIGN
GROUP, INC.
4425 MILITARY TRAIL, SUITE 202
JUPITER, FL 33458





Urban Design Land Planning Landscape Architecture

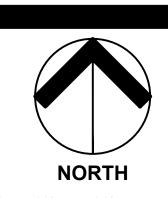
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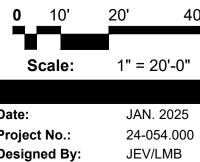
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onklin Car Wash 4145 S. Military Trai y of Delray Beach, Florida





Project No.: 24-054.000
Designed By: JEV/LMB
Drawn By: JEV/LMB
Checked By: AV/RD

Revision Dates:

01-21-2025 SUBMITTAL

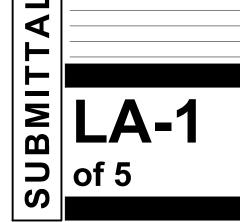
Revision Dates:

01-21-2025 SUBMITTAL

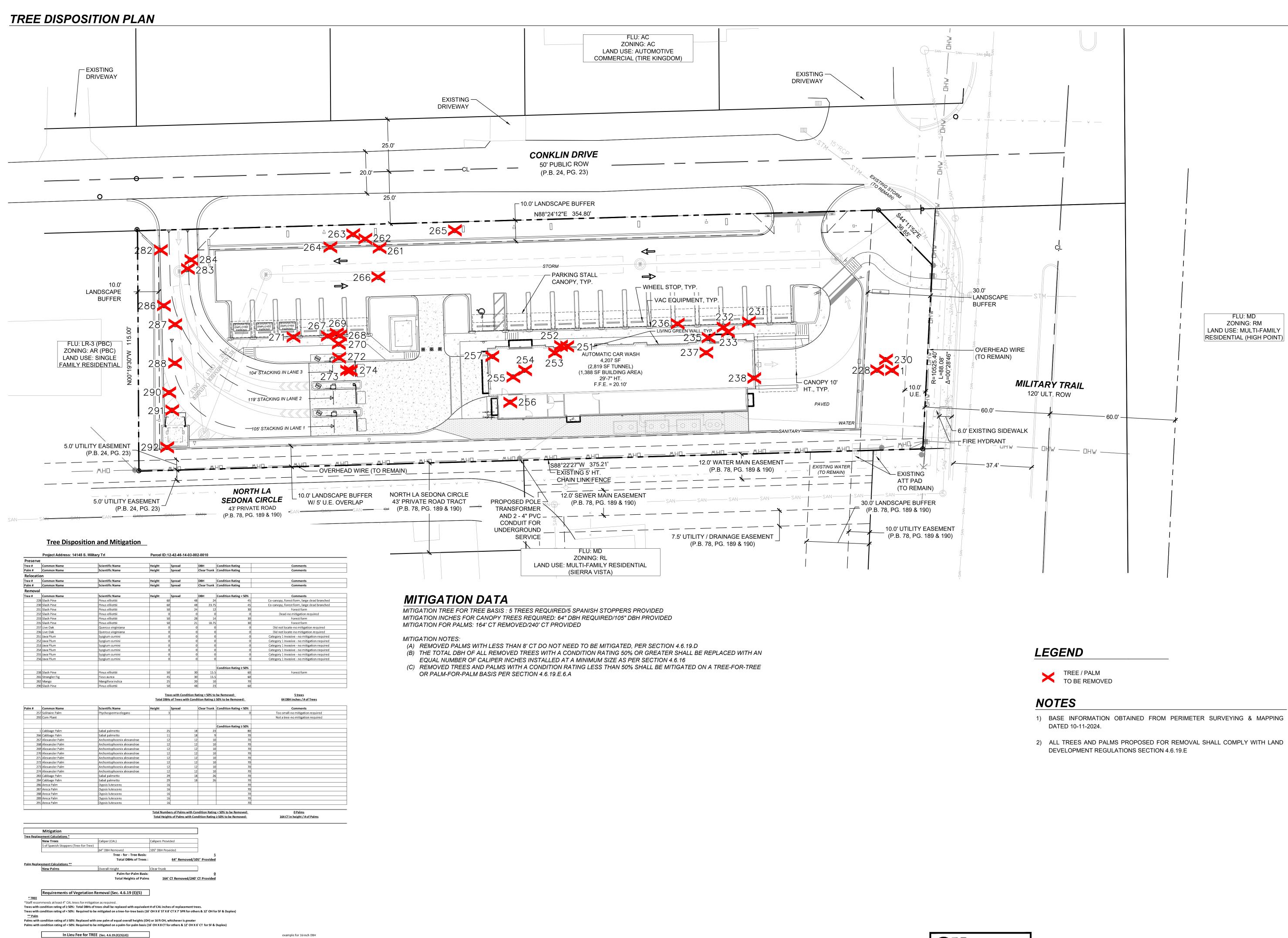
05-12-2025 RESUBMITTAL

08-06-2025 RESUBMITTAL

08-06-2025 RESUBMITTAL
09-17-2025 RESUBMITTAL



ROOT BARRIER
36" DEPTH MIN., INSTALLED PER MANUFACTURER'S SPECS.



\$3,600 \$2,600

\$3,400

DBH 9" to 12"

DBH 13" to 18" DBH 19" and greater

In-lieu-fee for a palm: \$75 per one foot grey trunk or clear trunk

Example: In-lieu-fee for a 21" DBH tree: $(\$450 \times 8") + (\$650 \times 4") + (\$850 \times 6") + (\$1,000 \times 3") = \$3,600 + \$2,600 + \$5,100 + \$3,000 = \$14,300$ For trees with a condition rating of between 0 percent and 49 percent, the in-lieu fee shall be calculated at 50 percent of the above escalating scale.

Trees and palms with a condition < 50 % are exempt from DBH/caliper inch-for-inch replacement, but are required to be mitigated on a tree-for-tree or palm-for-palm basis.

Land Planning **Landscape Architecture**

610 Clematis Street, Suite CU02 West Palm Beach, FL 33401 561.366.1100 FAX 561.366.1111 www.udsflorida.com #LA0001739

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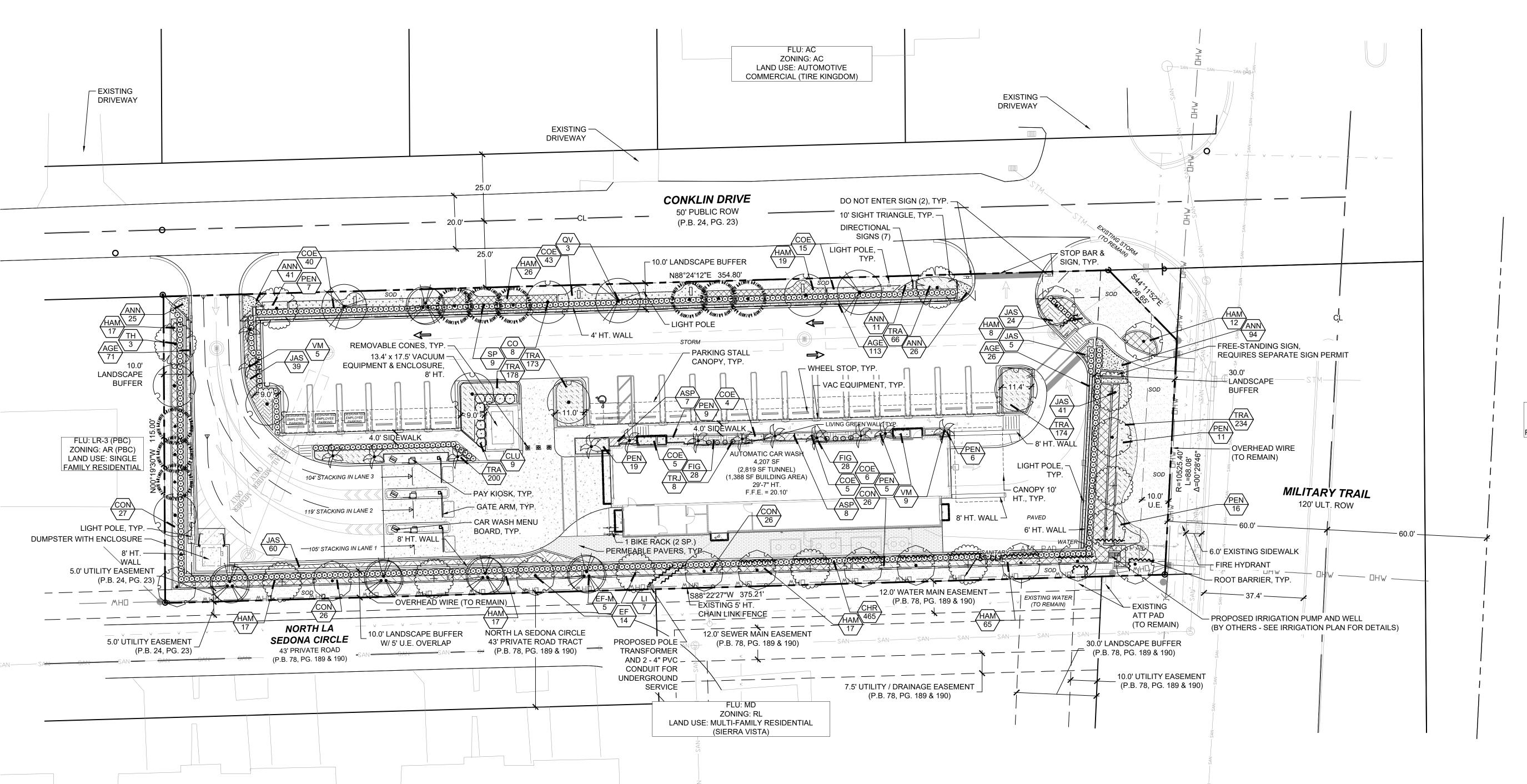
Scale: 1" = 20'-0" JAN. 2025

Project No.: 24-054.000 Designed By: JEV/LMB Drawn By: JEV/LMB AV/RD Checked By:

Revision Dates: 01-21-2025 SUBMITTAL

05-12-2025 RESUBMITTAL 08-06-2025 RESUBMITTAL 09-17-2025 RESUBMITTAL

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Land Planning Landscape Architecture

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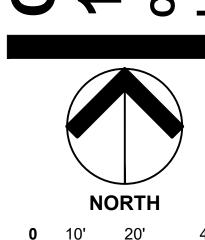
PLANT LEGEND

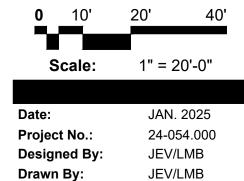
SYMBOL TREES	CODE	BOTANICAL / COMMON NAME		VM	Veitchhia montgomeriana / Montgomery Palm Min. 12' Ct. 16' O.A. Ht. Single Trunk, Full Head, No Scarred Trunks		
0		Conocarpus erectus / Green Buttonwood			Trutino		
(•) co		Min. 16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full	SHRUBS				
7		Canopy	+	CHR	Chrysobalanus icaco 'Red Tip' / Red Tip Cocoplum 24" Ht. 24" Spr. 24" O.C., Full and Dense Shrub, Full to Base		
	EF	Eugenia foetida / Spanish Stopper 16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full Canopy	\odot	CLU	Clusia guttifera / Small Leaf Clusia 6' HT. x 3' SPR., 36" O.C., Full and Dense to Base		
000			VINE				
£ + 33	LI	Lagerstroemia 'Natchez' / Crape Myrtle 16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full Canopy	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	TRJ	Trachelospermum jasminoides / Chinese Star Jasmine 36" Ht Runners., 3' O.C., espalier to living green wall with stainless steel eye hooks,		
				SHRUB AREAS			
	QV	Quercus virginiana / Southern Live Oak 16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full Canopy	511 VID ARE	COE	Conocarpus erectus / Green Buttonwood Min. 24" Ht. x 24" Spr. 24" O.C., Full and Dense Shrub, Full to Base		
£ . 3	TH	Tabebuia heterophylla / Pink Tabebuia 16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full		CON	Conocarpus erectus `Sericeus` / Silver Buttonwood Min. 24" Ht. x 24" Spr. 24" O.C., Full and Dense Shrub, Full to Base		
E. Composition of the contract		Canopy		НАМ	Hamelia patens / Firebush Min. 24" Ht. x 24" Spr. 30" O.C., Full and Dense Shrub, Full to Base		
MITIGATION	TREES						
	EF-M	Eugenia foetida / Spanish Stopper 16` Ht. x 7` Spr., 3" DBH., 8' C.T., Single Straight Trunk, Full		JAS	Jasminum volubile / Wax Jasmine Min. 24" Ht. x 24" Spr. 24" O.C., Full and Dense Shrub, Full to Base		
Canopy		GROUND CO	OVERS				
PALM TREES	<u> </u>				Annuals / Seasonal Annuals Min. 4" Pots, Full Flowering When Installed, 12" O.C.		
THE MANY AND MINE	SP	Sabal palmetto / Cabbage Palmetto 16' Ht. 8' C.T. Min., Single Straight Trunk, Hurricane Cut, No Scarred Trunks		AGE	Arachis glabrata / Perennial Peanut 6" Ht. x 12" Spr., 18" O.C., Full to Edge of Pot		

			-		
		ASP	Asparagus densiflorus `Myers` / Myers Asparagus Min. 15" Ht. x 18" Spr.,24" O.C., Full and Dense Shrub, Full to Edge of Pot		
		FIG	Ficus microcarpa 'Green Island' / Green Island Indian Laurel Fig 18" Ht. x 18" Spr., 18" O.C., Full and Dense		
	*	PEN	Pentas lanceolata / Penta (pink) Min. 15" Ht. x 18" Spr.,24" O.C., Full and Dense Shrub, Full to Edge of Pot		
		TRA	Trachelospermum asiaticum ` Minima` / Minima Jasmine Min. 12" Ht. x 12" Spr. 12" O.C., Full and Dense Shrub, Full to Edge of Pot		
SOD AND MULCH					
		MULCH	Shredded Melaleuca / Mulch Free of Foreign Materials and Weeds, Minimum Depth After Settling Shall be 3"; *Quantity to be Verified in the Field		
		SOD	Stenotaphrum secundatum `Floritam` / Floritam St. Augustine Sod Laid tightly and flat, sanded and rolled to provide a uniform flat lawn		
:		SOD	· · · · · · · · · · · · · · · · · · ·		

ROOT BARRIER
36" DEPTH MIN., INSTALLED PER MANUFACTURER'S SPECS. (SEE DETAIL ON SHEET LA-1 AND LA-4)





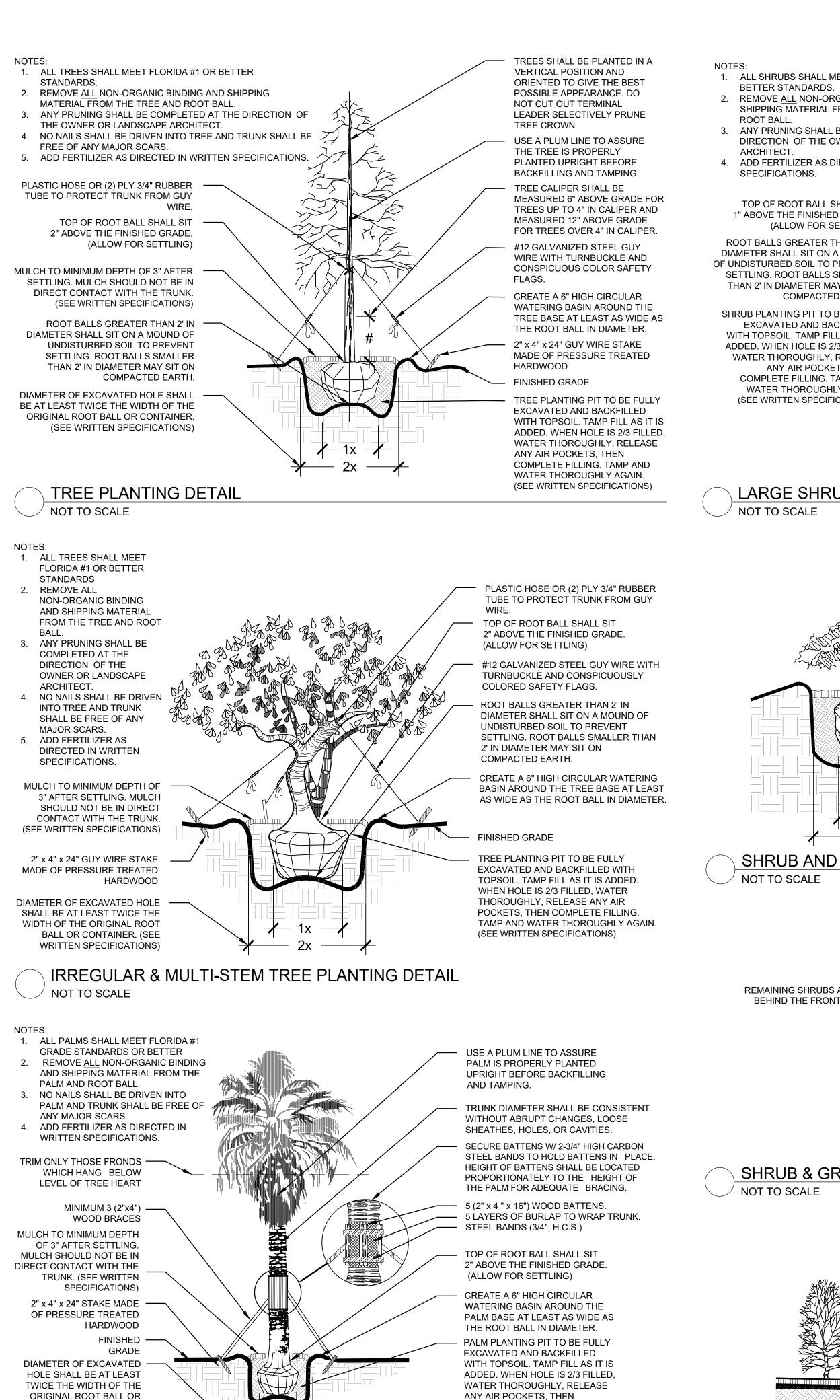


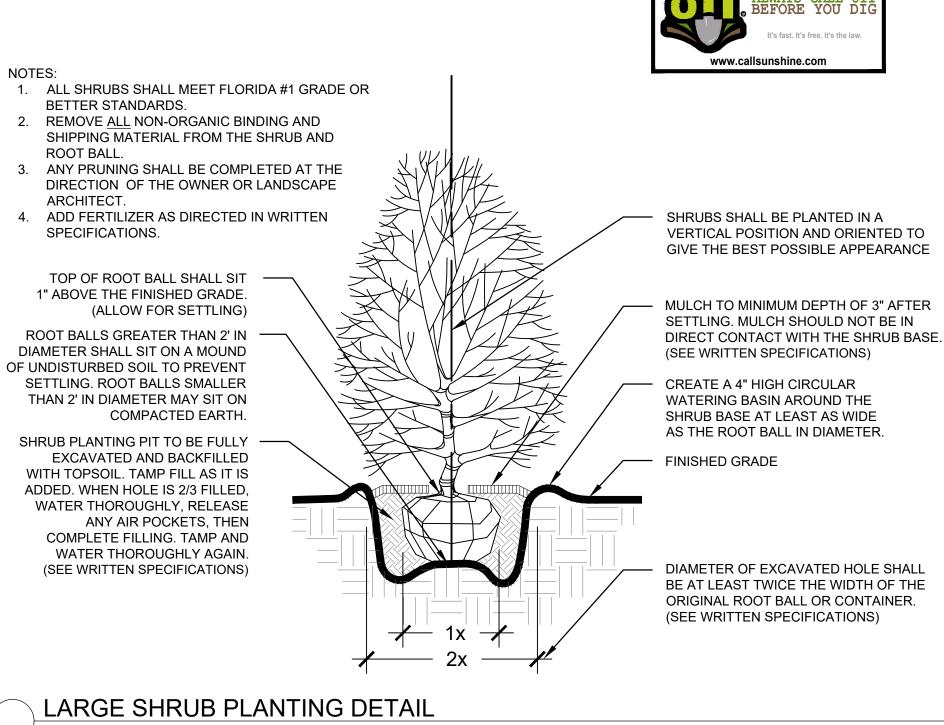
Drawn By: Checked By:

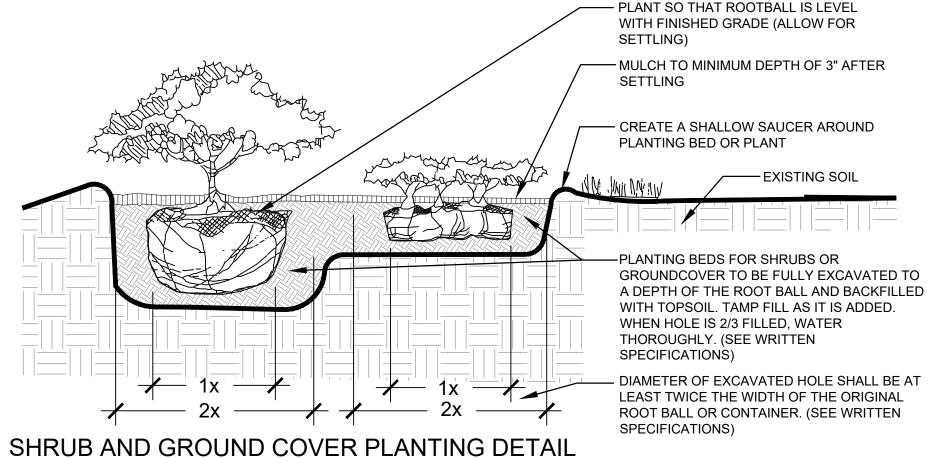
AV/RD **Revision Dates:**

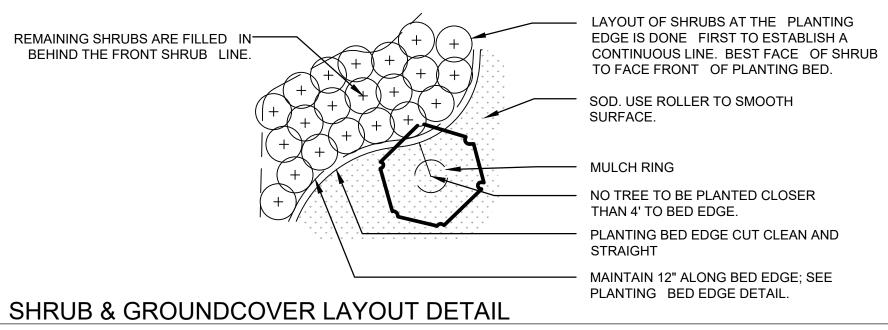
01-21-2025 SUBMITTAL 05-12-2025 RESUBMITTAL 08-06-2025 RESUBMITTAL

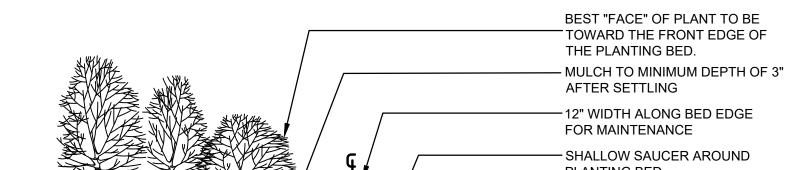
09-17-2025 RESUBMITTAL

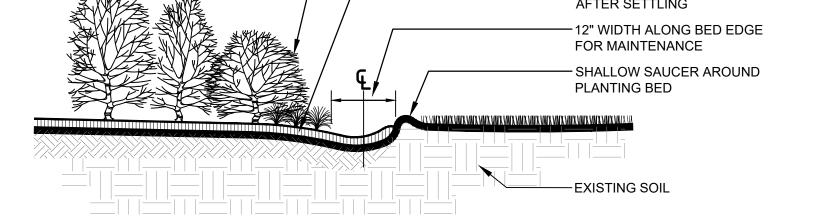












PLANTING BED EDGE DETAIL

NOT TO SCALE

COMPLETE FILLING, TAMP AND

WATER THOROUGHLY AGAIN.

(SEE WRITTEN SPECIFICATIONS)

CONTAINER. (SEE WRITTEN

NOT TO SCALE

SPECIFICATIONS)

PALM PLANTING DETAIL

UB 48-2 SPECIFICATIONS 48" DEEPROOT TREE ROOT BARRIER

SPECIFIED TREE ROOT BARRIERS ARE A MECHANICAL BARRIER AND ROOT DEFLECTOR TO PREVENT TREE ROOTS FROM DAMAGING HARDSCAPES, AND LANDSCAPES. ASSEMBLED IN 2 FOOT (61 CM) LONG MODULES TO CREATE VARYING LENGTHS FOR LINEAR APPLICATION DIRECTLY BESIDE A HARDSCAPE ELEMENT, ADJACENT TO ONE SIDE OF A TREE, OR FOR LARGE PERIMETER SURROUND APPLICATIONS WITH A MINIMUM 8 FOOT (2.43 M) DIAMETER USING 12 PANELS.

A. MATERIALS

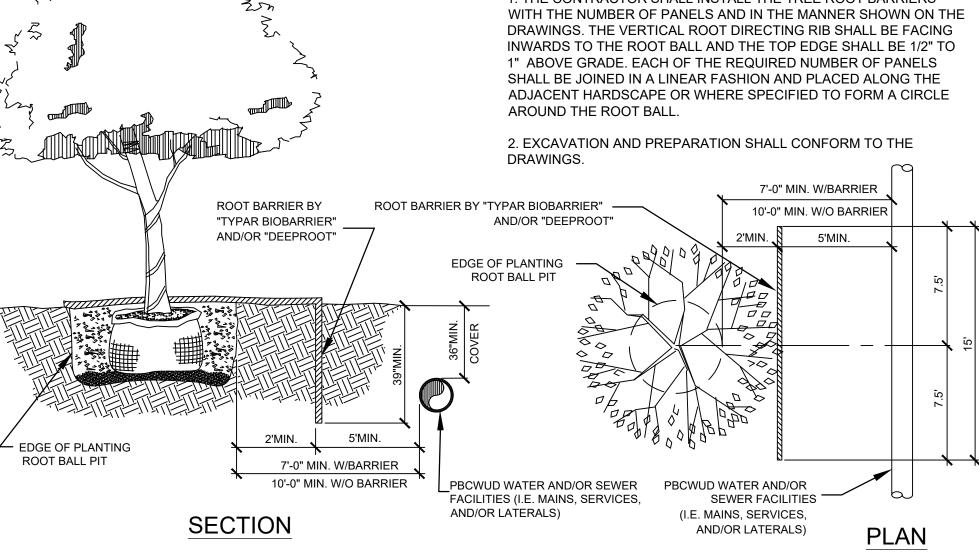
(121.92CM)

1. THE CONTRACTOR SHALL FURNISH AND INSTALL TREE ROOT BARRIERS AS SPECIFIED. THE TREE ROOT BARRIERS SHALL BE EITHER PRODUCT UB 48-2 AS MANUFACTURED BY DEEPROOT PARNTERS, L.P., 81 LANGTON STREET, SUITE 4. SAN FRANCISCO, CA 94103 (800.458.7668), OR APPROVED EQUAL. THE BARRIER SHALL BE BLACK, EXTRUDE PANELS, OF 0.80" (2.03MM) WALL THICKNESS IN MODULES 24" (61CM) LONG 48" (122 CM) DEEP: MANUFACTURED WITH HOMOPOLYMER POLYETHYLENE WITH ADDED ULTRAVIOLET INHIBITORS; RECYCLABLE. EACH 2 FOOT (61CM) SECTION SHALL HAVE:

NOT LESS THAN 4 MOLDED INTEGRAL VERTICAL ROOT DIRECTING RIBS OF A MINIMUM 0.080" (2.03MM) THICKNESS PROTRUDING 1/2" (12.7MM) AT 90° FROM INTERIOR OF THE BARRIER PANEL, SPACED 6" (154 MM) APART. SEE PANEL DRAWING.

AN INTEGRATED JOINING SYSTEM PROVIDING FOR INSTANT ASSEMBLY BY SLIDING ONE PANEL INTO ANOTHER.

B. CONSTRUCTION AND INSTALLATION 1. THE CONTRACTOR SHALL INSTALL THE TREE ROOT BARRIERS AROUND THE ROOT BALL.



90° ROOT DEFLECTING RIBS

INTEGRAL PART OF PANEL

HOMOPOLYMER POLYETHYLENE

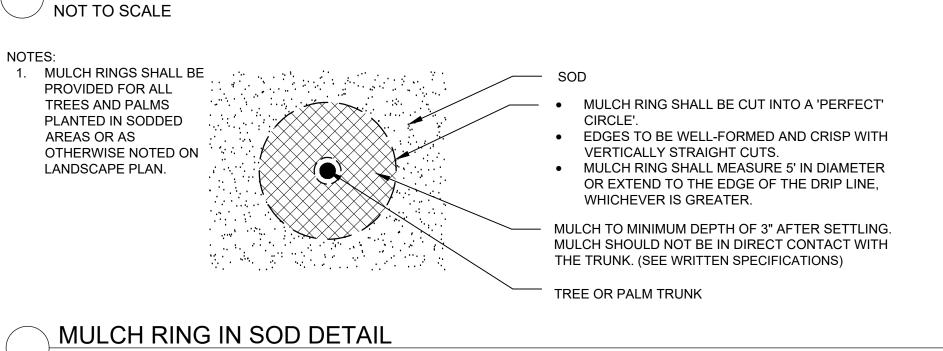
PANEL 0.080" (2.03MM) THICK

- 1. TREES SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY. TREE SPACING IS BASED ON DESIGN REQUIREMENTS AND THE TREES SHOWN ON THESE PLANS ATTEMPT TO ACCOMPLISH THAT SPACING WHILE MAINTAINING THE REQUIRED SETBACKS FROM UTILITIES. TREES MAY BE FIELD ADJUSTED TO AVOID CONFLICTS WITH DRIVEWAYS AND UNDERGROUND UTILITIES. IN ANY CASE THE TREES SHALL BE LOCATED IN THE FIELD IN ACCORDANCE WITH THE PLANTING DETAILS SHOWN HEREON.
- 2. TREES ARE TO BE INSTALLED WITH A TEN FOOT (10') SEPARATION FROM ANY WATER OR SEWER MAIN AND/OR SERVICE, HYDRANTS, AND LIFT STATIONS. IF A TEN FOOT (10') SEPARATION CANNOT BE ACHIEVED, THE TREE CAN BE INSTALLED WITH A ROOT BARRIER SYSTEM, HOWEVER, IN NO CASE SHALL A TREE ENCROACH INTO A PBCUE WITHOUT PRIOR DEPARTMENT APPROVAL
- 3. ONLY SOD CAN BE INSTALLED WITHIN 7.5' MINIMUM OF A FIRE HYDRANT UNLESS OTHERWISE APPROVED BY THE FIRE MARSHAL AND

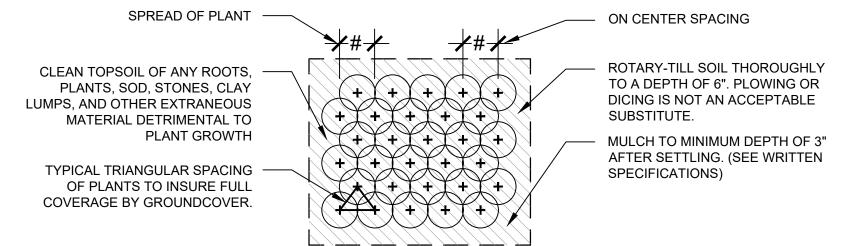
4. SOD ONLY SHALL BE INSTALLED WITHIN 5.0' MINIMUM OF ANY DEPARTMENT WATER METER.

5. WHEN INSTALLING A SOLID ROOT BARRIER PANEL SYSTEM THE PANEL RIBS MUST FACE THE TREE ROOT BALL.

ROOT BARRIER DETAIL







GROUND COVERS & ROOTED CUTTING PLANTING DETAIL

NOT TO SCALE

NOT TO SCALE

Land Planning

www.udsflorida.com

permission of the designer.

#LA0001739

Landscape Architecture

610 Clematis Street, Suite CU02

561.366.1100 FAX 561.366.1111

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These ideas, designs, arrangements or plans

West Palm Beach, FL 33401

Project No.: 24-054.000 Designed By: JEV/LMB Drawn By: JEV/LMB Checked By: AV/RD **Revision Dates:** 01-21-2025 SUBMITTAL 05-12-2025 RESUBMITTAL 08-06-2025 RESUBMITTAL 09-17-2025 RESUBMITTAL

JAN. 2025

By bidding on this project and/or signing a contract for landscape work, the Contractor acknowledges that he/she has read and understood these specifications in their entirety, that he/she has inspected the site, and that he/she will abide by all plans, specifications, and conditions found herein. Any perceived conflicts or concerns within the specifications or on the plant list, including unavailability of materials, are to be brought to the attention of the Landscape Architect prior to bid submission.

1.01 WORK INCLUDED

- A. Contractor shall obtain or ensure that all necessary permits have been granted to the Owner for work on the Owner's properties or in any adjacent easements prior to commencement of
- B. All planting and construction work shall be executed as shown on the provided drawings, schedules, and specifications.
- Any additional work or materials required to install landscape elements as called for on the plans, specifications or plant list shall be provided and installed by the Contractor.
- Finish Grade Elevations: 2 inch below top of pathway edging. E. The Contractor shall be entirely responsible for all work until final acceptance by the Owner. The Contractor shall protect all materials and work against injury and shall provide and maintain all necessary guards for the protection of the public. He shall be held responsible for

1.02 QUALITY ASSURANCE

any negligence during the execution of the work.

- A. All work specified herein shall be performed by a single firm specializing in landscape work. The Landscape Architect and the Owner retain the right to approve any proposed subcontractors prior to awarding the contract.
- B. Ship landscape materials with certificates of inspection required by governing authorities. Comply with all regulations applicable to landscape materials.
- C. Package standard products with manufacturers certified analysis. For other materials, provide analysis by recognized laboratory made in accordance with methods established by the Association of Official Agricultural Chemists, wherever applicable.
- D. Provide trees, palms, shrubs and groundcover grown in a recognized nursery in accordance with good horticultural practice. Materials must be healthy and vigorous, free of disease, insects, eggs, larvae, and defects such as decay, rot, knots, sun scald, injuries, abrasions, and poor or unusual form. No collected material will be permitted unless specific written approval is granted.
- Do not make substitutions. If specified landscape material is not available at time of planting, submit proof of non-availability and provide a list of proposed equivalent material. Once authorized, adjustments to the contract will be made. Owner is not financially responsible for unauthorized substitutions.
- Plant materials of larger size than specified may be used if acceptable to Landscape Architect and if sizes of root balls are increased proportionately. Installation of larger sizes will not increase contract amount unless specifically authorized by Owner.
- G. Owner and Landscape Architect reserve the right to inspect, approve or reject at any time plant materials or work either at the nursery or at the site which does not meet the condition in the plans, plant list or specifications.
- H. The Contractor shall be responsible for planting the landscape in complete accordance with all applicable codes, ordinances, and laws. Any modification made to conform with said codes, laws and ordinances, after the bid is awarded, shall be completed at the Contractor's expense at no additional cost to the Owner.

1.03 SUBMITTALS

- A. Certification: Submit certificates of inspections as required by governmental authorities, and manufacturers or vendor's certified analysis for soil amendments and fertilizer materials. Submit other data substantiating that materials comply with specified requirements. B. Submit seed vendor's certified statement for each grass seed mixture required, stating
- botanical and common name, percentage by weight, and percentage of purity, germination, and weed seed for each grass seed species Planting Schedule: Submit planting schedule showing schedule dates for each type of planting
- in each area of site. D. Maintenance Instructions: Submit typewritten procedures for maintenance of landscape work, through final acceptance.

1.04 DELIVERY, STORAGE AND HANDLING

against drying and breaking of rolled strips.

- A. Packaged Materials: Deliver packaged materials in original containers showing manufacturer's guaranteed weight analysis and name of manufacturer. Protect materials from damage and deterioration during delivery and storage.
- B. Trees, shrubs, and ground covers: Provide freshly dug trees, palms, and shrubs. Do not prune prior to delivery. All plants shall be handled and stored so that they are adequately protected from drying out, from sun or wind burn, and from any other injury at all times. Any plant determined to be wilted or burned may be rejected at any time, whether in the ground or not. Plants shall be handled only by their containers or root balls, not by stems or trunks. Trees that are scraped or scarred during delivery, storage, or planting will be rejected. The on-site storage area shall be approved prior to the delivery of any plant materials. Do not bend or bind plants in such a manner as to damage bark, break branches, or destroy natural shape. Provide protective covering during delivery.
- C. Deliver plant materials after preparations for planting are complete, and plant immediately Roots or balls of all plants shall be adequately protected at all times from sun and/or wind Balled and burlapped (B&B) plants that cannot be planted immediately upon delivery shall be set on the ground and protected by having soil, wet peat, or other acceptable material covering the roots or balls keeping them moist.
- D. Do not remove container grown stock from containers until planting time. Label at least one tree, one palm and one shrub of each variety with a securely attached
- F. Sod: Time delivery so that sod will be placed within 24 hours after stripping. Protect sod

waterproof tag bearing legible designation of botanical and common name, if requested by

1.05 JOB CONDITIONS

- A. Proceed with and complete landscape work as rapidly as portions of site become available. Utilities: Determine location of overhead and underground utilities and perform work in a manner which will avoid possible damage. Hand excavate, as required. Forty eight (48) hours prior to digging, call the appropriate Utility Authority to have all utilities identified and marked in order to avoid conflicts.
- Protection of Existing Structures: All existing buildings, walks, walls, paving, piping, and other items of construction and planting already completed or established shall be protected from damage. All damage resulting from negligence shall be repaired or replaced, including but not limited to marks on pavers and cracks within existing walkways caused by the Contractor. The Owner may, at his discretion have any damage repaired by others and subsequently costs back-charged to the Contractor.
- Protection of Existing Plant Material: The Contractor shall be responsible for all unauthorized cutting or damage to existing trees or shrubs caused by careless operation of equipment, stockpiling of materials, etc. This shall include compaction by driving or parking inside the drip-line of any tree, or spilling of oil, gasoline, or other deleterious materials within the
- drip-line of any tree. No materials shall be burned. E. Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Landscape Architect before planting.

PART II - PRODUCTS 2.01 TOPSOIL

- A. The Contractor is required to obtain a soil sample and perform a soil analysis test to determine the existing soil composition and conclude whether it complies with the composition
- B. Where topsoil does not meet the specified limits within the project site, it shall be furnished. Throughout all parts of site where finish grades and contour lines differ from existing contour
- lines, bring to finish grade contours shown on "Grading Plan." C. Topsoil shall be friable, fertile soil with representative characteristics of local soils. It shall be free of heavy clay, marl, stone, extraneous lime, plant roots, refuse and/or solid waste, sticks, brush, construction demolition debris, and any other deleterious materials. There shall be no noxious weeds or weed seeds (i.e., nut grass, Bermuda grass and the like). In no case shall there be more than five percent (5%) by dry weight of clay lumps or stones larger than 1". It shall test in the pH range of 6.0 to 7.2 and shall contain no substance that will impede plant growth. The Contractor shall have topsoil laboratory-tested at his expense and approved by

PARTICLE SIZE

Landscape Architect or Owner prior to material delivery. Topsoil shall conform to the following specifications:

Silt/Clay	2% - 10%	< 0.074 mm
Sand	85% - 98%	0.075 - 3.00 mm
Gravel	0% - 5%	4.75 mm - 1 inch
The analysis shall a	lso show the following ranges:	
Soluble salt	.2 - 1.0mmmhos/cm	
Nitrogen	25-150 PPM	
Phosphorus	26 - 39 PPM	
Potassium	50 - 250 PPM	
Calcium	500 - 2500 PPM	
Magnesium	50 - 500 PPM	
Iron	2.5 - 25 PPM	
Manganese	2.5 - 25 PPM	
Zinc	2.5 - 25 PPM	
Copper	1.3 - 5 PPM	
Boron	0.5 - 1.5 PPM	
Sulphur	15 - 200 PPM	
Chlorine	less than 100 PPM	
Sodium	less than 10	
Nematodes	none	

2.02 SOIL AMENDMENTS AND FERTILIZERS

- A. Peat Moss: Peat moss shall be a commercial, baled sphagnum material, free of woody
- material, minerals, or foreign matter, with a pH range of 3.0 5.5. B. Sand: Sand shall be clean, sharp, and free of all deleterious material.
- C. Lime: Natural limestone (Dolomite) containing not less than 85% of total carbonates, ground so that not less than 90% passes a 10-mesh sieve and not less than 50% passes a 100-mesh
- D. Humus Soil Conditioner: Consisting of yard trimmings and biosolids co-compost. E. Fertilizer: Fertilizer shall be a commercial grade, granular, slow release "pre-plant" type
- 1. Fertilizer shall be delivered to the site in the original unopened container, bearing the manufacturer's guaranteed analysis. Any opened, caked, or damaged fertilizer will be
- 2. Tree, palm, shrub and grass fertilizer shall be "UF (University of Florida) Formulated" product 8-2-12 or 8-2-13 with minor elements as an all-purpose fertilizer, or equal, and
- applied according to the manufacturer's direction 3. Application of fertilizer shall be consistent with the current recommendations of the Green
- Industries Best Management Practices. 4. Fertilizer shall be applied by an individual who has successfully completed the GI-BMP program and holds a current Urban Fertilizer License or as required by the State and Local Ordinances.

A. All water necessary for planting and maintenance shall be of satisfactory quality to sustain adequate growth of plants and shall not contain harmful, natural or man-made elements

2.04 OTHER LANDSCAPE PRODUCTS

- A. Mulch: Mulch shall be shredded Melaleuca, Eucalyptus, Grade "A" Pine Bark Nuggets, or approved equal, free of foreign materials and weed seeds. Minimum depth after settling shall B. Guying and Bracing: Tree guying and bracing shall be the responsibility of the Contractor in
- accordance with the planting details to insure stability and maintain plants in an upright C. Anti-desiccant: Anti-desiccant shall be "Wiltpruf" or equal, if specified on plans.
- D. Tree Wound Paint: Tree wound paint shall be an asphaltic base paint containing an antibacterial agent, specially prepared for tree surgery work.
- E. Super Absorbent Polymer: "Terra Sorb" or approved equal as packaged in 3 oz. Handy Pac composed of synthetic acriamide copolymer, potassium, acrylate. Particle size of 1.0 mm to 3.0 mm and absorption rate of 300 times its weight in water, if specified on plans.

Apply dry, using the following amounts:

- 1. For trees and palms up to 36" diameter root ball, use one 3 oz. Handy Pac. For trees and palms over 36" diameter root ball use two 3 oz.
- 3. Handy Pacs. Broadcast throughout planting hole and backfill as per manufacturers specifications.

For container grown plants: Container Size

Application Rate 1 Gallon 1 Handy Pac / 9 Containers 3 Gallons 1 Handy Pac / 4 Containers 7-10 Gallons 1 Handy Pac / 2 Containers 20 Gallons 1 Handy Pac / 1 Container

- A. Plant list is part of this specification section. The Contractor shall be responsible for furnishing and installing all plant materials shown on the drawings and plant list. In case of conflict between the two documents, the drawings shall rule.
- B. Quality: Trees, palms, shrubs, and other plants shall be Florida #1 or better as defined in the latest edition of Grades and Standards for Nursery Plants, Florida Department of Agriculture and Consumer Services. Multi-trunked trees will not be accepted unless they are specifically specified in the planting plans. All plants shall have a normal habit of growth and shall be sound, healthy, and vigorous. Trees shall have normal well-developed branching structures and vigorous root systems that are not root or container bound.
 - 1. Balled and burlapped plants (BB or b&b) shall be dug with firm, natural balls of earth, of sufficient depth and diameter to include the fibrous and feeding roots. Plants with cracked, dry, or broken balls will not be accepted, nor will plants with root balls of insufficient size.
 - 2. All plants, other than those collected on site, shall be nursery grown in accordance with good horticultural practices and under climatic conditions similar to the site for at least two years. Transplanting or root pruning shall have taken place during growth.
- C. Size: Plant sizes shown in the plant list are minimums. When a plant size is given by height and spread or by container size, all specifications are minimums to be met or exceeded. All trees and shrubs shall be measured when their branches are in a normal position. Spread dimensions specified refer to the main body of the plant and not from extreme branch tip to tip. Height is measured from the soil line to the average height of the canopy. Measurement does not include any terminal growth; the container or root ball is also not included.

Unless otherwise specified, the determining measurement for trees shall be caliper, which shall be measured 6" above the ground for trees up to 4" in caliper, and 12" above the ground for trees over 4" caliper.

2.06 GRASS MATERIALS A. Types: Sod type shall be as specified on the provided landscape plan and associated plant

- B. Dimensions: The sod shall be taken up in commercial size rectangles, preferably 12-inch x
- C. Measurement: Sod shall be measured on the basis of square footage. Contractor shall be
- responsible for complete coverage based on the square footage shown on plans; therefore, Contractor shall factor in cutting and shrinkage of materials. D. The sod shall be sufficiently thick to provide a dense stand of live grass. The sod shall be live,
- fresh and uninjured, at the time of planting. It shall be a soil mat of sufficient thickness, at least 2" thick, adhering firmly to the roots to withstand all necessary handling. It shall be free of weeds and other grasses. It shall be planted as soon as possible after being dug, and shall be shaded and kept moist from the time it is dug until it is planted. After approval, the area from which the sod is to be harvested shall be closely mowed and raked as necessary to remove excessive top growth and debris.

2.07 REJECTION, SUBSTITUTION, AND RELOCATION

- A. All plants not conforming to the requirements herein specified shall be considered defective and such plants shall be marked as rejected and removed from the site whether in the ground or not, at the Contractor's expense. Such removal shall take place immediately and new plants shall be brought in as replacements. The plant materials must meet all applicable
- inspections required by law. B. The Owner or Landscape Architect also reserves the right to require that plants be relocated after installation if their initial installation does not conform to the plans or the intent of the plans, or if the original location poses an unforeseen threat to other facilities, human life, health, or safety, or to site utilities. Such relocation shall be at the Contractor's expense.

3.01 GENERAL

- A. Proceed with and complete landscape work as rapidly as portions of the site become B. No planting shall be done until all operations in conjunction with the installation of the sprinkler
- properly graded and prepared C. Adverse Conditions: When conditions potentially detrimental to plant growth are encountered during work, such as rubble or refuse fill, adverse drainage conditions, or obstructions, notify

system have been completed, final grades have been established, planting areas have been

- Owner or Landscape Architect before planting. D. Work Scheduling: Work is to be scheduled to establish a logical sequence of steps for
- completion of each type and phase of landscape work, in such a way as to correspond with, and avoid damage and conflict with, other disciplines on site. E. Coordination with Sod/Lawn: Plant trees, palms, and shrubs only after final grades are
- established, and prior to sodding or lawn establishment. If such planting must be done after lawn work, protect lawn/sod areas during planting and promptly repair any resulting damage. F. Timina: 1. Planting work shall not be started until the final subgrade has been established, berms
- have been constructed and fine finished grading completed. 2. Under no conditions shall work be done if weather or soil conditions are not satisfactory. 1. At all times during the construction and installation, the site shall be maintained in a
- and equipment for planting work shall be limited to the quantity required for the particular phase of work currently underway on the job site. 2. Protect landscape work and materials from damage due to landscape installation and maintenance operations, operations by other contractors and trades, and trespassers. Maintain protection during installation, Maintenance and Establishment periods. Treat,

clean, orderly and safe condition. Streets and pavements shall be kept clean. Materials

A. Grading and soil preparation work shall be performed only during periods when best results can be obtained. If the moisture content of the soil is high enough that work would damage soil structure, grading and tilling operations shall be suspended.

repair or replace damaged landscape work as directed.

- B. Before mixing in soil amendments, clean topsoil of roots, plants, sods, stones, clay lumps, and other extraneous materials harmful or toxic to plant growth. Apply Herbicide for weed control
- C. Mix specified soil amendments and fertilizers with topsoil at rates specified. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.

- D. For planting beds, mix planting soil either prior to planting or apply on surface of topsoil and mix thoroughly before planting.
- 1. Mix lime with dry soil prior to mixing of fertilizer.
- Prevent lime from contacting roots of acid-loving plants. E. Unless drawings indicate otherwise, berms shall not exceed a 3:1 slope. Berms near buildings or in potentially troublesome drainage situations shall be checked for correct drainage by the
- project Engineer or Owner prior to planting. F. Tree and shrub planting beds which fall within or near parking lot areas shall be completely excavated and back-filled with topsoil. All shell-rock or other base materials, and all subsoil and debris, shall be completely removed from beneath such planting areas, to a minimum depth of 24".
- G. All tree and/or shrub planting areas within 36" of building foundations, and any other planting areas where significant buried construction debris is encountered, shall be excavated to a minimum depth of 24" and backfilled with topsoil as specified elsewhere in these specifications.

3.03 TILLING

- A. Before mixing, clean soil of roots, plants, clay lumps, stones in excess of 1" in diameter, and other extraneous or potentially harmful materials.
- B. After all soil conditioning (and topsoil if called for on plans) has been spread at specified rates, the areas to be planted should be thoroughly rotary-tilled to a depth of six (6) inches. Plowing or dicing is not an acceptable substitute for rotary-tilling.
- 1. If the sprinkler system is installed after grading and tilling is completed, the backfill shall be retilled in the affected areas.
- 2. When the subsoil, grading, topsoil addition, soil conditioning, and tilling have been accomplished, all areas so treated shall be compacted and settled by application of heavy irrigation to a minimum depth of twelve (12) inches. Erosion scars shall be repaired.

3.04 FINE FINISH GRADING

- A. When preliminary grading has been completed and the soil has dried sufficiently to be readily worked, all lawn and planting areas shall be graded to the elevations indicated on the Engineering Plans. The top four (4) inches shall be completely free of stones larger than one (1) inch. Grades not otherwise indicated shall be uniform levels or slopes between points where elevations are given. Positive drainage away from buildings shall always be maintained. Surface drainage shall be directed as indicated on the drawings by remodeling surfaces to facilitate the natural run-off of water. All depressions where water will stand, all voids, erosion, settled trenches and excavations, and all ridges and rises shall be amended and/or removed leaving a smooth, even finish grade. If additional amended topsoil is required to accomplish the intent of this specification, it shall be according to the foregoing specifications for topsoil.
- 1. All area shall be graded so that the final grades are 2" below adjacent paved areas, sidewalks, valve boxes, mowing strips, clean-outs, drains, etc., with appropriate adjustments for varying sod thicknesses. The intent is for water always to drain away from paving into lawn/sod areas.
- 2. Eliminating all erosion scars prior to beginning planting. 3. The Owner and/or his representative shall approve all final finish grades prior to planting.
- B. Prior to fine grading or the installation of plant material the Contractor shall obtain certification that the project area is at the grade levels proposed by the Civil Engineer or Landscape Architect from a licensed Surveyor. The Contractor shall fine grade the lawn and planting areas to bring the rough grade up to final finished grade allowing for thickness of sod and/or mulch depth.

3.05 PLANTING TREES AND PALMS

- A. Layout individual tree locations and areas for multiple plantings. Stake all locations and outline areas, then secure Landscape Architect's acceptance before the start of planting work. Prior to preparation of tree pits, ascertain the location of all electrical cables, all conduits, all
- utility lines, oil tanks and supply lines, so that proper precautions may be taken not to disturb or damage any existing conditions. Properly maintain and protect existing utilities. Should such underground or overhead obstructions be encountered that interfere with planting, the Contractor will inform the Landscape Architect or Owner's representative and shall be consulted as to the adjustment of the location of plants to clear such obstruction or the relocation of the obstruction.
- C. Tree pit locations shall be staked by the Contractor and approved by the Owner or Landscape Architect before digging. Pits shall be excavated to the depth and width indicated and all subsoil removed.
- D. Protect all areas from excessive compaction by foot traffic or machinery when bringing trees to the planting area. E. All excavated holes shall have vertical sides with roughened surfaces and shall be of a size that is at least twice the width of the original plant container or ball. In all cases the holes shall
- be large enough to permit handling and planting without damage to the roots or root ball. Excess soil shall be removed or utilized as directed by Owner or the Owner's representative. If the excess soil will not be used, it is the responsibility of the Contractor to remove and dispose
- of the discarded soil off site in an acceptable manner. G. Tree pits shall be backfilled with a topsoil mixture as specified elsewhere in these specifications Palm tree pits will be backfilled with a mixture of up to 95% sand and 5% organic material.
- Add fertilizer to tree pits as specified elsewhere in these specifications. Set balled and burlapped stock on a layer of 50% native soil and 50% topsoil compacted to a 6" depth. Loosen burlap from top of sides of the ball but no burlap shall be pulled from underneath. Remove non-organic binding material (if any) from tree ball. Immediately cut any damaged roots with clean shears. Using a plumb to assure that the tree is properly upright, begin filling the hole and tamping the fill material. When the hole is 2/3 filled, water thoroughly and probe with a stick to be sure that no air pockets remain. Re-plumb, complete filling the
- hole, re-tamp, and water again. J. Set container-grown stock as above, taking care not to damage roots when removing the
- K. During planting, do not cover the top of the root ball with the soil mixture. All rope, wires, burlap mesh etc., shall be removed from the root ball. No synthetic burlap is allowed on any plant material. Synthetic burlap is unacceptable for rootballs. Trees shall be planted so that the top of the root ball is 2" above final grade. Allow for settling. Any trees resting deeper or higher must be either reset or replaced at the discretion of the Owner or Landscape Architect; such work shall be at the Contractor's expense.
- Create a watering basin around each tree at least as wide as the root ball in diameter formed by a circular ridge of soil at least 6" high. M. Each planting basin shall be mulched to a minimum depth of 3" (after settling). Mulch shall not
- be applied until the tree has been thoroughly watered and two days have elapsed. Mulch should be placed so that it is not in direct contact with trunks. N. All trees are to be staked or guyed per these specifications. All stakes shall be painted a
- conspicuous color or shall be flagged for visibility and public safety; guy wires shall be O. Palms shall be planted per above specifications.

- 3.06 PLANTING SHRUBS, VINES, AND GROUND COVERS A. The locations of all plants, bed outlines and all other areas to be planted shall be clearly marked with agricultural gypsum or landscape marking paint then approved by the Owner or Landscape Architect before any holes are dug.
- B. No planting shall be done until the area concerned has been satisfactorily prepared in accordance with these specifications.
- C. No more plants shall be distributed in the planting area on any work day than can be planted and watered in that day.
- D. Unless otherwise indicated, all plants shall be planted in pits, centered as called for on the plant list, and set in 24" depth of topsoil as specified elsewhere in these specifications to such depth that the soil line of the plants will match the surrounding grade after settling. Plants shall be planted in a vertical position and oriented to give the best possible appearance or relationship to adjacent structures or features. Remove all inorganic containers or binding. All damaged roots shall be cut away cleanly. Planting soil shall be placed and compacted carefully to fill all voids and avoid root injury. When the hole is 2/3 filled, water thoroughly. The hole shall then be filled to finish grade and a shallow saucer shall be formed around each bed.
- After settling, soil shall be added as needed to bring the hole to grade level. Azaleas and other ericaceous and acid-loving plants shall be backfilled with a mixture of 20% topsoil and 80% acid peat. They shall be set so that the bases of the plants are slightly higher than they grew in the container or nursery after settling. At no time shall lime in any form be brought into contact with the plants or their roots. Mulch with pine straw unless noted otherwise.
- F. Add fertilizer to plants as outlined in section 2.02. G. Vines shall be planted in pits containing at least 2 cubic feet of prepared topsoil. They shall be planted in the same manner as shrubs, and shall be mulched. Vine stems shall be fastened to walls, trellises, etc. as specified in the drawings.
- H. Groundcover plants shall be laid out in their proposed planting locations without being removed from their containers after the soil is properly prepared per these specifications. Planting methodology is the same as for other shrubs. Any plants which, after settling, rest significantly higher or even slightly lower than they grew in the nursery or container are subject to resetting or replacement at the discretion of the

OWNER or Landscape Architect. Such work shall be at the Contractor's expense.

If called for in the plans, landscape edging shall be installed as specified.

3.07 ANNUAL AND SEASONAL COLOR BEDS

- K. All planting beds and individual plantings shall be mulched with a minimum of 3" (after settling) of mulch as specified in this document. Mulch shall be free of weed seeds and other foreign matter
- A. Beds shall be mounded to a height 6" on top of the existing grade and composed of 50% topsoil and 50% compost. B. Soil shall be covered with ½" - 1" deep layer of Pine Fines Mulch or comparable product.

A. All pruning shall be done in the presence of, and with the approval of, the Owner or

- Landscape Architect. Only clean, sharp tools designed for the purpose shall be used. The goal of pruning is always to preserve and enhance the natural character of the plant. Pruning shall be done per modern horticultural practice (see National Arborist Standards, latest
- pruned back to the next sound outside lateral bud, branch or limb. The terminal bud or leader
- shall never be removed. C. Prune trees and shrubs to retain required height and spread. Remove the minimal amount of
- tissue shall be covered. D. Existing Trees: If indicated on drawings, Contractor shall prune and thin existing trees on site. The use of climbing spurs is prohibited. All diseased, dead branches and those interfering with healthy plant growth shall be removed. Also, remove root suckers, low branches, and any

- A. If specified, landscaping in planters shall be installed using the following method:
- Install 4" deep layer of fine crushed stone in bottom of planter.
- 3. Install planting soil mix over filter fabric to within $3\frac{1}{2}$ " of top for planter. Do not compact planting soil.
- Install plant material as specified elsewhere in these specifications. Install 3" of mulch over planting soil.

- A. The Contractor shall sod all areas indicated and noted on the drawings. No sodding shall occur until areas to be sodded are cleared of any rough grass, weeds and debris, the ground brought to an even grade and specified amendments have been added. See details for specific amendments as per sod type.
- stacked in an approved manner and maintained properly moistened.
- firmly and smoothly embedded by light tamping with appropriate tools. Sod shall be rolled with 1,000 lbs. roller unless waived by the Landscape Architect or Owner.
- exceed six (6) inches. At the inside of the curbs, sod shall abut squarely and evenly. E. On areas where the sod may slide, due to height and slope, the Landscape Architect or Owner may direct that the sod be pegged, with pegs driven through the sod blocks into firm
- earth, at suitable intervals. F. Any pieces of sod which, after placing, show an appearance of extreme dryness shall be removed from the work.
- G. Where placement of new sod abuts existing sodded areas, new sod must be placed in such a manner as to produce an even transition to existing sodded areas. H. It shall be the responsibility of the Contractor to bring the sod edge in a neat, clean manner to

PART IV MAINTENANCE, ESTABLISHMENT AND WARRANTY PERIODS 4.01 MAINTENANCE AND ESTABLISHMENT PERIOD

- A. The Maintenance Period shall begin immediately after each plant is planted, and the
- B. The Establishment Period shall begin on the first day after all planting and installation of all Establishment Period shall continue for not less than ninety (90) continuous calendar days. Hurricane cut Sabal Palms shall have an Establishment Period of not less than one hundred and eighty (180) continuous calendar days. The Establishment Period will end at the time the project is given final acceptance. An inspection shall be made by the Owner or Landscape
- C. Maintenance of new plantings shall consist of, but not necessarily be limited to, pruning, watering, cultivating, weeding, mulching, tightening or replacing guys and stakes, resetting plants to proper grades or upright positions, furnishing and applying sprays as necessary to combat insects and disease, litter control, rolling, fertilizing and replanting.
- additional cost. The Contractor is responsible for acts of vandalism or theft during the maintenance and establishment period unless this responsibility is assumed in writing by E. Restrict foot and vehicular traffic from all lawn and planting areas after seeding and planting
- operations. Erect signs and barriers if required and remove when lawn and plantings are well established and accepted by Owner.
- Requirements for Newly Planted Grass, Ground Covers, Shrubs and Trees in Florida", distributed by South Florida Water Management District. In those areas where a permanent
- Watering Program identified in the Landscape Plans. H. The Landscape Contractor is responsible for keeping all plant materials adequately fertilized throughout the Maintenance and Establishment Periods. Fertilizer shall be applied at a rate to keep plant materials healthy. All fertilizer shall be done under the direction of a licensed
- fertilizer operator. I. The Landscape Contractor shall control disease and pest infestations in the planting area. caution in using hazardous materials and taking all necessary steps to protect others on and near the job site. All disease and pest control shall be done under the direction of a licensed
- 2. "Ronstar" pre-emergent or OWNER approved equal, shall be applied 2 weeks before planting. Apply per manufacturers specifications. 3. Apply "Fusilade" in all areas where torpedo grass has emerged. Apply per manufacturers
- 4. Apply "Basagram" or "Marage" in all areas where nutgrass has emerged. Apply per manufacturers specifications.
- operation no more than 1/3 of the grass blade is removed per cutting. L. If the lawn surface becomes uneven or develops any low spots or gaps in the sod at any time during the maintenance or establishment periods, contractor to provide clean sand to fill all low spots and gaps to level the lawn surface. Roll the lawn immediately afterwards with a 1,000 lb. roller after thoroughly irrigating lawn. If required, level the lawn again, using the same procedure until a uniform level lawn surface is provided. Between the 15th and 20th day of the Establishment Period, the Contractor shall re-sod all spots or areas within the lawn where normal turf growth is not evident. Turf must be well established and free of bare spots and weeds to the satisfaction of the OWNER or Landscape Architect prior to final acceptance.
- establishment period. Landscape Architect or Owner are to be notified a minimum of forty eight (48) hours in advance.

All planted areas other than lawn shall be weeded at intervals of not more than ten (10) days.

M. Application of fertilizer to be done between the fortieth (40) and fiftieth (50) day of the

- O. Inspection and Final Acceptance: 1. In all cases the Landscape Architect will perform an initial and final inspection at the beginning and end of the Establishment Period, respectively. It is the responsibility of the
- Landscape Architect and OWNER.
- at no charge. A tree shall be considered dead when the main leader has died or when 25% of the crown is dead. A tree that has suffered significant leaf drop but shows signs

- B. Pruning shall be limited to the minimum necessary to remove injured twigs, branches, and fronds, to compensate for root loss suffered during digging and transplanting, and to thin and shape shrubs and trees. In no case shall more than 1/3 of the branching structure be removed. Damaged, scarred, frayed, split, or skinned twigs, branches, or limbs shall be
- wood necessary on flowering trees and shrubs. Remove only dead or dying fronds from palms. Cuts over 3/4" in diameter shall be treated with tree wound paint; all exposed living

others as directed by the Owner or Landscape Architect. Cuts shall be flush with the trunk or

limb and shall be painted with tree paint. Remove any nails, wires, etc. fastened to the tree.

3.09 PLANTERS - DECORATIVE OR STRUCTURAL

- Install filter fabric over stone layer. Turn up edges of fabric all around.

3.10 SODDING NEW LAWNS

- B. Whenever a suitable area has been graded and is ready for sodding the Contractor shall, when directed by the Landscape Architect, proceed at once with the sodding of the available areas. Sodding shall be incorporated into the project at the earliest practical time in the life of the contract. No sod which has been cut for more than seventy two (72) hours shall be used unless specifically authorized by the Landscape Architect or Owner after his careful inspection thereof. Any sod which is not planted within twenty four (24) hours after cutting shall be
- C. The sod shall be placed on the prepared surface, with edges in close contact, and shall be
- D. Where sodding is used in drainage ditches, sod panels shall be set in a staggered pattern, such as to avoid a continuous seam along the line of flow. Offsets of individual strips shall not

the edge of all paving and shrub areas.

- Contractor shall continuously maintain all areas involved in this contract during the progress landscape elements is completed and initially accepted. The Contractor shall continuously maintain all areas from initial acceptance until final acceptance by the Owner. The
- Architect to accept the completed work and issue a determination of substantial completion. Inspections may be performed on all or partially completed phased work under the Contract, as directed by the Owner.
- duration of the maintenance and establishment periods. If any plants are injured or damaged, they shall be treated or replaced as directed by the Owner or Landscape Architect at no

D. Planting areas and plants shall be protected at all times against damage of any kind for the

- F. The Contractor shall be responsible for maintaining adequate protection of the site. Areas damaged by the Landscape Contractor's men or equipment, or the men or equipment of his Subcontractor's, shall be repaired at the Landscape Contractor's expense. G. The Contractor is responsible for keeping all plant materials adequately watered after installation even if the irrigation system is not operational. Plants shall receive a thorough watering immediately after planting. Afterwards, plants shall be watered during the maintenance and establishment periods per the requirements set forth in "Water
- irrigation system will not be provided, the Contractor is responsible for implementing the
- Upon approval, the Contractor shall implement the control measures, exercising extreme
- J. Herbicide Weed Control: All landscape areas shall be free of nut grass, torpedo grass, and other noxious weeds until final acceptance of work. 1. "Round-up" shall be applied to all planting areas as needed and determined on-site by the

disease and pest control operator.

the work is acceptable.

- Owner for weed control. Apply per manufacturers specifications.
- K. Mowing of turf will commence ten (10) days after installation. The height of cut will be 3". After the first cut, the Contractor shall adjust the frequency of mowing so that at each
- N. Improper maintenance or poor condition of any planting at the time of the termination of the scheduled Establishment Period may cause postponement of the final acceptance of the contract. Any material found to be dead, missing, or in poor condition during the establishment period shall be replaced immediately. Maintenance shall be continued by the Contractor until
- Contractor to notify the Owner or Landscape Architect of the beginning and end of this period and to submit a written request for an inspection ten (10) days in advance. 2. Following inspection(s), Landscape Architect will prepare a listing of outstanding items to be addressed prior to final acceptance. Final acceptance will be given once the outstanding items are completed, and the work performed to the satisfaction of the
- 3. Any material that is 25% or more dying shall be considered dead and must be replaced

of life may be left for later re-inspection. Such trees shall be subject to removal and replacement at any time up to and including the first re-inspection, as requested by the Owner or Landscape Architect. The Warranty Period for such trees shall not begin until after the second re-inspection.

4.02 WARRANTY PERIOD

- A. Unless a different agreement is reached in writing between the Owner and the Contractor, all trees and other plant material, including ground covers, installed under this agreement shall be guaranteed to live and grow, and shall be warranted against defects, death and unsatisfactory growth for a period of one (1) year from the day of final acceptance of contract
- Non-living landscape elements shall also carry a one (1) year guarantee on materials, labor,
- and workmanship. Material found to be dead or in poor condition within the Warranty Period shall be replaced by the Contractor within fifteen (15) days of written notification by the Owner's representative.
- The Owner or Landscape Architect shall be the sole judges as to the condition of the material. Materials and labor involved in the replacing of materials shall be supplied by the Contractor at no additional cost to the Owner.
- E. Soil Testing: Should plant materials show yellowing or other signs of soil and/or nutritional problems, the Owner or Landscape Architect may request soil testing and analysis. Such testing will be at the expense of the Contractor.
- 1. Soil problems (as revealed by testing) shall be corrected by application of corrective chemicals and nutrients, removal and replacement of soil, or other measures as agreed upon by all parties. All such measures shall be at the Contractor's expense unless clear evidence establishes that the soil problem is not pre-existing and is caused by factors
- F. Replacement and Conditions: 1. Materials will be replaced as many times as necessary to satisfy the OWNER'S representative and the specifications. All replacement costs will be the responsibility of

beyond the Contractor's control.

- 2. Replacements will be of the same size, species, and specifications as the original. No additional soil additives will be required unless significant amounts of soil mix are lost
- before or during replacement. 3. Plant losses due to abnormal weather conditions such as floods, excessive wind damage (on properly staked or guyed trees), severe freezing, or hail will not be the responsibility

4. Deciduous materials will be guaranteed to break dormancy at the proper season. Materials planted during their normal dormant period will be guaranteed to resume normal growth at the proper time for that species.

Landscape Architect

of the Contractor.

- 1. All proposed material shall be Florida No. 1 or better as set forth in "Grades & Standards for Nursery Plants," Part 1&2, Florida Dept. of Agriculture and Consumer Services, latest edition. No deviations will be permitted.
- By submitting a bid, the landscape contractor is responsible for providing the material specified on the plans. No substitutions will be accepted without prior written approval and acceptance by the Owner or his representative, or Landscape Architect. Materials to be hand-selected at the discretion of the Owner or his representative, or
- 4. All work shall proceed in a professional manner in accordance with standard nursery and installation practice Quantities on plant list are for convenience only. Landscape Contractor is responsible for all plants shown on planting plans. When discrepancies occur between plant list and planting
- confirming sod quantities and certifying such to the Owner or his representative. 6. Contractor is responsible for locating all underground utilities prior to digging. Notify the Owner or his representative, or the Landscape Architect immediately regarding discrepancies
- least three (3) working days prior to beginning any stage of work. 8. Owner or Landscape Architect to be immediately notified of any discrepancies found in field. 9. Owner or his representative, or Landscape Architect reserve the right to field adjust plant

material on-site to avoid conflicts or discrepancies not anticipated in the planning process.

Landscape Contractor to notify the Owner or his representative, or Landscape Architect at

plans, the plans are to override the plant list in all cases. Contractor is responsible for

10. Existing plant material to be removed, except as noted. TREES & PALMS

- All trees, new and relocated, to be staked and guyed as detailed. No double or multi-trunk trees unless otherwise specified. 3. Face of trees and palms to be located a minimum of 2'-0" off all sidewalks/bike paths or other
- 5. All trees falling within grassed areas to have a mulch ring 3' in diameter, mulched 3" deep with no more than 1" deep directly adjacent to the trunk of the tree.

paved surface, unless otherwise notated on plans.

4. Root suckers on Live Oaks are not acceptable.

- Groundcover and shrubs to be laid out in a uniform and consistent pattern. All planting beds to receive mulch per plans. Landscape Contractor is responsible for verifying that clean top soil, meeting the attached specifications, exists in each planting bed prior to planting. Contractor shall add or amend
- top soil if necessary. Tree pits shall be backfilled as noted in attached specifications. Excavate all shrub and groundcover beds as specified and backfill with planting soil per specifications.
- All existing paving base material to be removed from planting areas and replaced with clean top soil prior to planting. Final grade within planting areas to be 2" below adjacent paved areas or top of curb. Soil in landscaped areas shall be free of debris, including paving base or fill material, and calcareous materials such as shell, lime rock, concrete, plaster and stucco. Planting areas

1. Landscape Contractor is responsible for replacing any damaged sod.

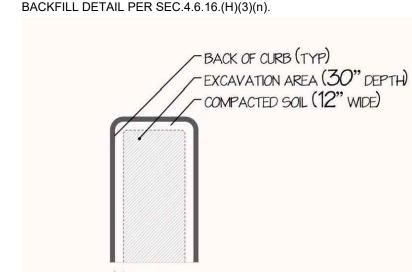
Architect.

1. All landscape areas (including sod) shall be irrigated with an underground automatic sprinkler system providing 120% coverage with 50% overlap or utilizing a drip irrigation/low volume watering system. No landscape installation shall occur until the irrigation system is operational, unless approval is granted by Owner or his representative, or Landscape

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containing excessive calcareous materials shall be excavated to a minimum depth of (2') two

Last updated: April 2017



Land Planning Landscape Architecture

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permission of the designer.

a V

Y

JAN. 2025 Project No.: 24-054.000 Designed By: JEV/LMB Drawn By: JEV/LMB Checked By: AV/RD

Revision Dates:

01-21-2025 SUBMITTAL

05-12-2025 RESUBMITTAL

08-06-2025 RESUBMITTAL

09-17-2025 RESUBMITTAL

1'0"

IRRIGATION TO BE INSTALLED ACCORDING TO LOCAL CODES AND TO THE REGIONAL WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS. IRRIGATION PLAN DESIGNED TO MEET OR EXCEED THE FLORIDA BUILDING CODE APPENDIX F AND THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS.

IRRIGATION PLAN IS TO BE USED AS A GENERAL GUIDE. CONTRACTOR TO ENSURE 100% HEAD TO HEAD COVERAGE OCCURS. IT IS UP TO THE CONTRACTOR TO MAKE ADJUSTMENTS WHEN THERE IS AN UNFORESEEN OBSTRUCTIONS. CONTRACTOR TO FAMILIARIZE THEMSELVES WITH SITE PLANTING/HARDSCAPE LOCATIONS, UTILITIES, AND GRADE DIFFERENCES, IF NOTICEABLE DIFFERENCES EXIST BETWEEN THE PLAN AND SITE CONDITIONS CONTRACTOR TO MAKE ADJUSTMENTS AS NEEDED, OR COORDINATE WITH SITE OWNER FOR LAYOUT CHANGES.

IRRIGATION CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE START OF WORK. ANY ITEMS DAMAGED BY THE IRRIGATION INSTALL IS TO BE REPLACED/REPAIRED AT THE COST OF THE CONTRACTOR CONTRACTOR TO COORDINATE WITH OTHER CONTRACTORS IN REGARDS TO SLEEVE LOCATIONS FOR UNDER WALLS, ROADWAYS, OR PAVED AREAS.

IRRIGATION POINT OF CONNECTION (P.O.C.) IS TO BE A 2 HP PUMP PULLING FROM 3" WELL. PUMP TO MEET 22 GPM @ 120 T.D.H. DESIGN BASED OFF OF 22 GPM @ 50 PSI. CONTRACTOR TO CONFIRM P.O.C. MEETS OR EXCEEDS THESE SYSTEM REQUIREMENTS PRIOR TO THE START OF INSTALL. PUMP TO BE INSTALLED ON CONCRETE PAD, MIN. 3'X3'

ALL PIPING SHOWN IS SCHEMATIC AND IS TO BE ADJUSTED AS NEEDED IN THE FIELD. PIPING IS DESIGNED TO HAVE WATER FLOW VELOCITIES OF 5'/SECOND OR LESS IN ORDER TO LIMIT FRICTION LOSS WITHIN THE SYSTEM. SMALLER PIPE SHALL NOT BE SUBSTITUTED, BUT LARGER PIPE UPGRADES ARE ALLOWED. MAINLINE PIPE TO BE SCHEDULE 40, AND ALL LATERAL LINE PIPE IS TO BE CLASS 200. ALL PIPE IS TO BE BURIED TO APPROPRIATE LEVELS FOUND ON DETAIL "F". FITTINGS ARE TO BE SCH. 40 PVC. WHEN APPLICABLE, KEEP ALL PIPE WITHIN GRASS AREAS AND AWAY FROM PROPOSED TREES. ANY PIPE INSTALLED AGAINST WALLS/HARDSCAPES ARE TO HAVE SUFFICIENT CLEARANCE TO ALLOW FOR FUTURE MAINTENANCE/REPAIRS. PIPE TO BE CEMENTED WITH GLUE AND PRIMER. GLUE TO BE GREY WELD-ON 711 AND PRIMER TO BE PURPLE WELD-ON P70, OR EQUALS.

PIPE THAT IS LOCATED UNDER HARDSCAPE SHALL BE INSTALLED WITHIN A SCHEDULE 40 SLEEVE THAT IS TWO SIZES LARGER, OR AS CALLED OUT ON PLAN. SLEEVE IS TO BE A MINIMUM OF 24" DEEP AND EXTEND A MINIMUM OF 3' PAST THE HARDSCAPE. ALL MAINLINE CROSSINGS ARE TO INCLUDE A 2" SLEEVE FOR WIRE RUNS.

CONTROLLER ELECTRIC TO BE 120V, 20 AMP. PROVIDE RACK TO MOUNT CONTROLLER/ PSR. PUMP ELECTRIC TO BE 230V AND CONNECTED THROUGH A PSR. ALL ELECTRIC CONNECTIONS MADE ARE TO MEET NATIONAL ELECTRICAL CODE AND ARE TO BE INSTALLED BY A LICENSED ELECTRICIAN. CONTROLLER TO BE HARDWIRED TO POWER SOURCE AND ALL WIRES TO CONTROLLER ARE TO BE HOUSED WITHIN CONDUIT WITH CONNECTIONS MADE IN A JUNCTION BOX EACH CONTROL WIRE IS TO BE LABELED WITH ZONE NUMBER AT THE CONTROLLER, JUNCTION BOX, EACH VALVE LOCATION, OR AT ANY SPLICE LOCATIONS. ANY SPLICES MADE TO THE WIRE PATH ARE TO BE HOUSED WITHIN A VALVE BOX AND MARKED ON SITE MAP.

ZONE VALVES ARE TO BE PLACED WITHIN A RECTANGULAR VALVE BOX WITH GRAVEL AT THE BOTTOM. WHEN MULTIPLE VALVE BOXES ARE GROUPED TOGETHER, THEY SHOULD BE IN THE SAME ORIENTATION AND EVENLY ALIGNED. PLACE VALVE BOXES LEVEL TO THE GROUND AND IN MULCHED AREAS WHEN POSSIBLE.

ALL SPRAY EMITTERS SHALL BE PLACED TO AVOID OVER SPRAYING ONTO WALLS, ROADS, SIDEWALKS, OR OTHER STRUCTURES. SPRAY HEADS TO BE INSTALLED A MINIMUM OF 4" OFF CURBED ROADS OR SIDEWALKS. AND 12" OFF WALLS OR CURBLESS ROADS. INSTALL ALL HEADS LEVEL WITH GRADE WHEN IN GRASS/TURF AREAS. INSTALL 12" SPRAY HEADS AND STANDPIPES SO THEY SPRAY A MIN. 3" ABOVE THE PROPOSED SHRUB MATERIAL'S MAINTAINED HEIGHT. STANDPIPES ARE TO USE ₹" SCHEDULE 40 PIPE. ANY PVC PIPE ABOVE GROUND TO BE PAINTED BLACK OR DARK GREEN. DESIGN IS BASED ON 100% HEAD TO HEAD COVERAGE AND THE CONTRACTOR IS RESPONSIBLE TO ENSURE PROPER COVERAGE OCCURS. STAKE OUT HEADS PRIOR TO INSTALL AND ADJUST LAYOUT/NOZZLE TYPE TO FIELD CONDITIONS AS NEEDED TO PROVIDE PROPER COVERAGE. FLUSH LINES A MIN. OF 10 MINUTES PRIOR TO INSTALLING FILTERS/NOZZLES.

BUBBLERS ARE TO BE USED ON TREES AND PALMS, ALL FUNNY PIPE SHALL BE BURIED BELOW GRADE LEVEL AND STAKED JUST BELOW THE BUBBLER TO AVOID TRIPPING HAZARDS. ENSURE THAT ALL NEWLY PLANTED TREES WITH BUBBLERS HAVE A 4" HEIGHT SOIL BERM TO AVOID RUNOFF WATER.

TRENCHING DETAIL

A | B

3/4"-2" | 18" | 12"

2 1/2"-3" | 18" | 18"

| 24" |

1) BUBBLER NOZZLE

(4) LATERAL TEE OR ELL

(3) HUNTER 'PRO-FLEX' TUBING

2 FINISH GRADE

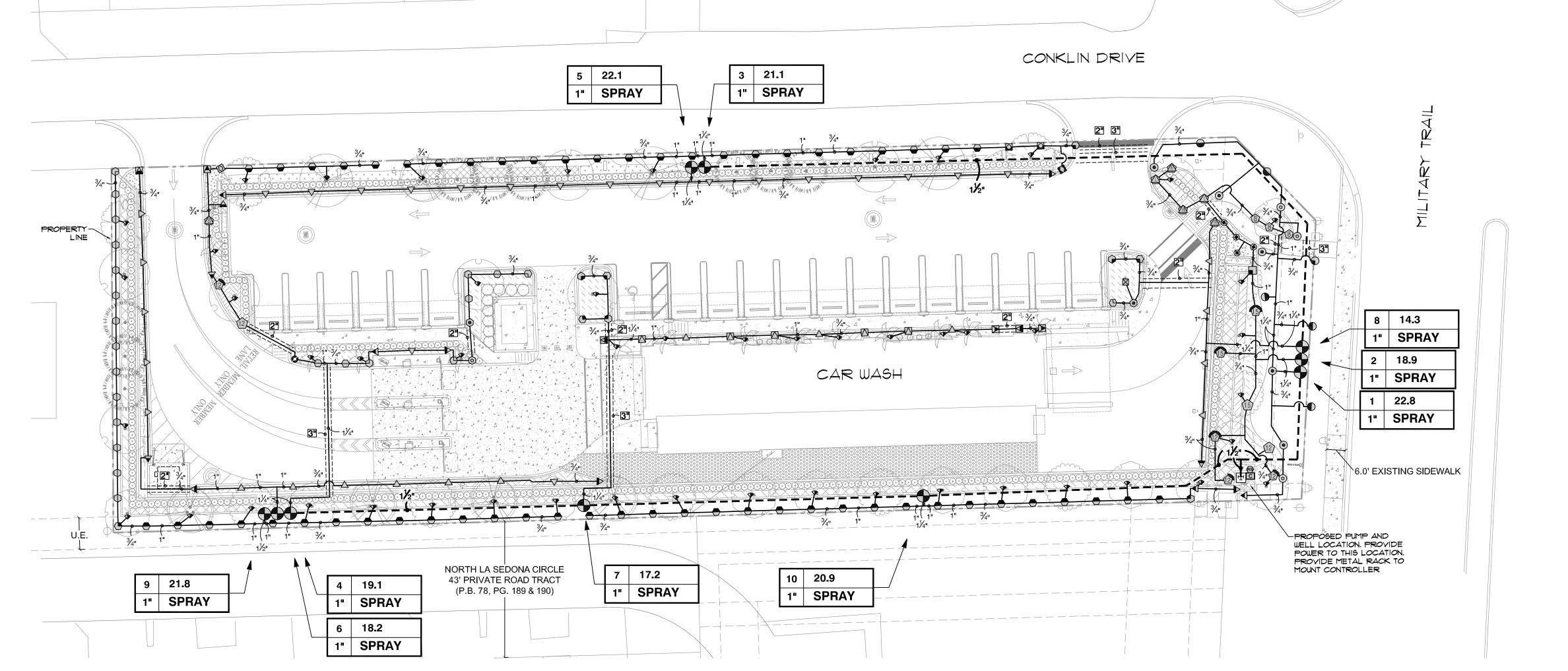
(5) LATERAL PIPE

7) TREE TRUNK

24"-36"

6) STAKE

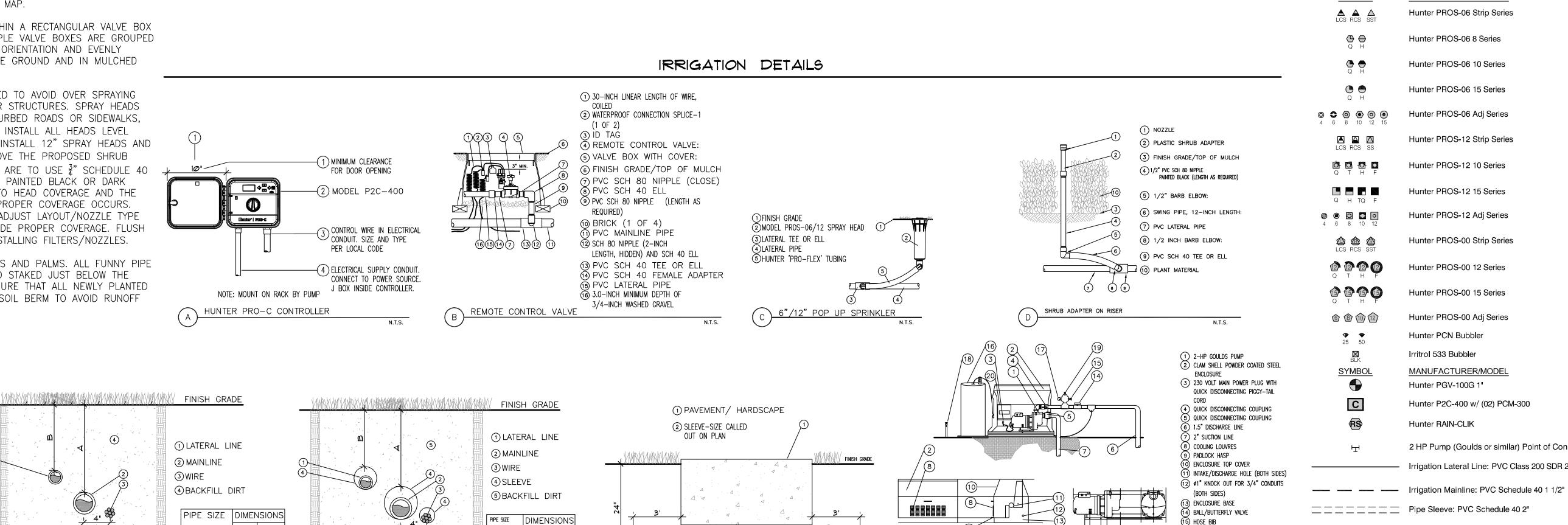
BUBBLER



<u>Front</u>

2 HP PUMP STATION

STEEL ENCLOSURE



SLEEVE DETAIL

A | B

1.5"-2" | 24" | 24"

3"-4" | 30" | 24"

TRENCH DETAIL FOR TRAFFIC AREAS



<u>QTY</u>

12

11

<u>QTY</u>

615 l.f.

98 l.f.

110 l.f.

10

IRRIGATION SPECIFICATIONS

MANUFACTURER/MODEL

Hunter PROS-06 8 Series

Hunter PROS-06 10 Series

Hunter PROS-06 15 Series

Hunter PROS-06 Adj Series

Hunter PROS-12 Strip Series

Hunter PROS-12 10 Series

Hunter PROS-12 15 Series

Hunter PROS-12 Adj Series

Hunter PROS-00 Strip Series

Hunter PROS-00 12 Series

Hunter PROS-00 15 Series

Hunter PROS-00 Adj Series

MANUFACTURER/MODEL

Hunter P2C-400 w/ (02) PCM-300

2 HP Pump (Goulds or similar) Point of Connection

Valve Callout

Valve Flow

----- Emitter Type

Irrigation Lateral Line: PVC Class 200 SDR 21

Hunter PCN Bubbler

Irritrol 533 Bubbler

Hunter PGV-100G 1"

Hunter RAIN-CLIK

_____ Pipe Sleeve: PVC Schedule 40 3"

(16) CHEMICAL INJECTION TANK (RID 0

(18) HOSE BIB HOOKED UP TO CITY WATER

RUST) (IF APPLICABLE)

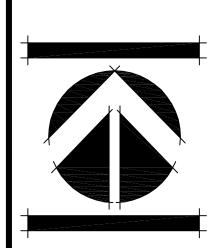
(17) 1/4" PRESSURE GUAGE

19 PRESSURE RELIEF VALVE

2 HP PUMP

Hunter PROS-06 Strip Series

DATE: 1.15.2025 DRAWN BY: TY JOB NO.: 25-003 SCALE: |" = 20'-0"



PARKER · YANNETTI design group, inc. LANDSCAPE ARCHITECTURE PLANNING • GRAPHICS

4425 Military Trail, Suite 202 Jupiter, Florida 33458

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FILENAME: Conklin Car Wash

REVISIONS: 5.8.2025 7.18.2025 8.4.2025 9.10.2025