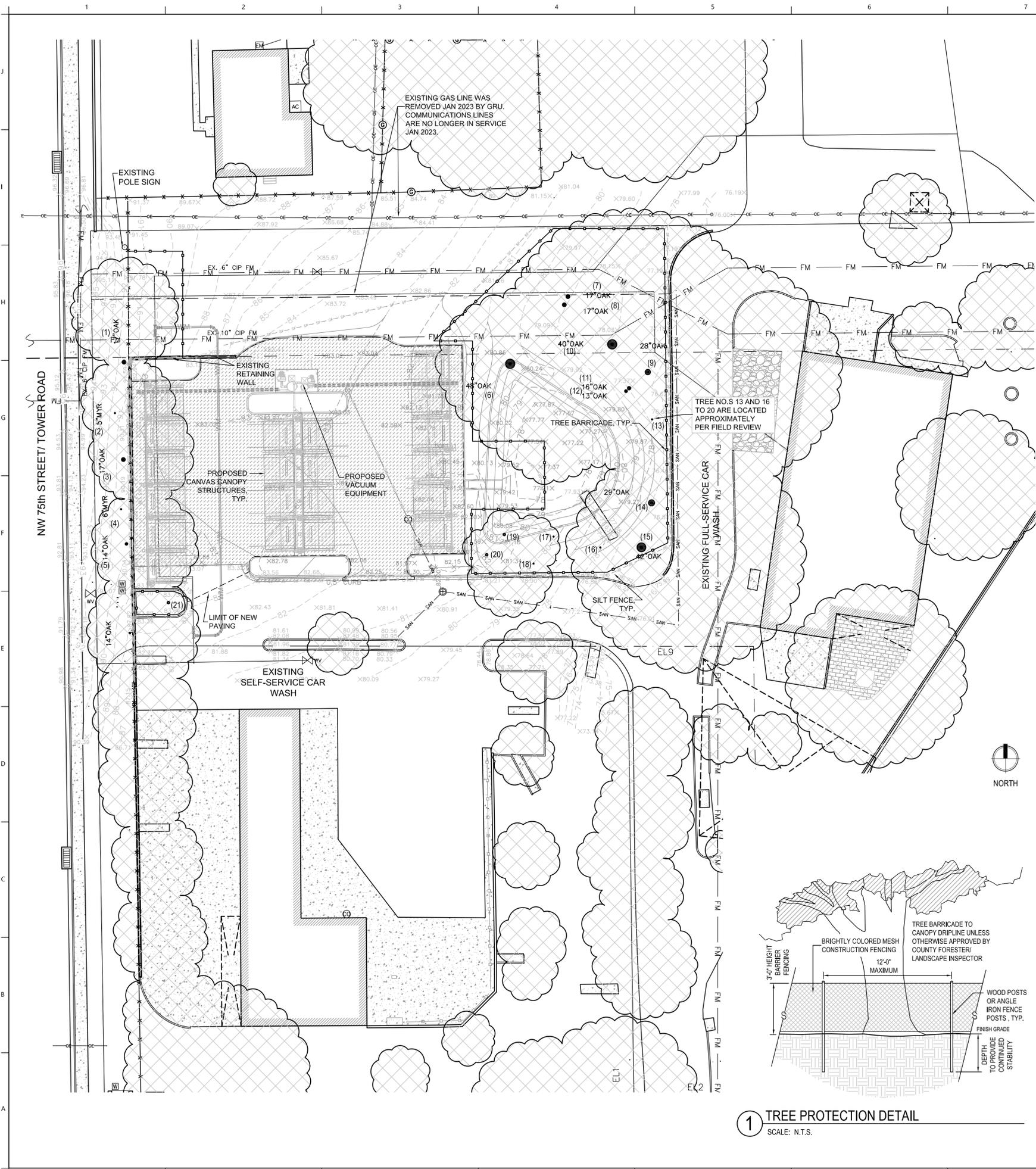


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LEGEND



TREE PRESERVATION AND REMOVAL NOTES

- PRE-CONSTRUCTION MEETING:** COORDINATE AND CONDUCT AN ON-SITE MEETING WITH THE ALACHUA COUNTY FORESTER/LANDSCAPE INSPECTOR OR DESIGNATED COUNTY REPRESENTATIVE TO DISCUSS EXISTING REGULATED TREES AND PROTECTION METHODS. CONTACT: (352) 374-5243 EXT. 3503.
- EXISTING TREE PROTECTION:** PROTECTIVE BARRIERS SHALL BE INSTALLED OUTSIDE THE PROTECTED AREA OF RETAINED TREES AND NATIVE VEGETATION TO PREVENT THE COMPACTION OF SOIL AND THE DESTRUCTION OR DAMAGE OF THE TREES. SEE DETAIL 11LS-2. PROTECTED TREES SHALL INCLUDE THOSE TREES THAT HAVE NOT BEEN PERMITTED NOR DESIGNATED FOR REMOVAL BY EITHER THE TERMS OF THE PERMIT OR APPROVED DEVELOPMENT ORDER. PROTECTIVE BARRIERS SHALL BE PLAINLY VISIBLE AND SHALL CREATE A CONTINUOUS BOUNDARY AROUND TREES OR VEGETATION CLUSTERS IN ORDER TO PREVENT ENCROACHMENT BY MACHINERY, VEHICLES, OR STORED MATERIALS. BARRIERS SHALL BE INSPECTED BY THE COUNTY FORESTER/LANDSCAPE INSPECTOR PRIOR TO PROCEEDING WITH SITE WORK. PROTECTIVE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL CONSTRUCTION IS COMPLETED. PRESERVE EACH REGULATED TREE AND ASSOCIATED NATIVE VEGETATION WITHIN THE AREA OF THE DRIPLINE IN ITS ORIGINAL LOCATION.
- INVASIVE SPECIES:** REMOVE INVASIVE, NONNATIVE PLANT SPECIES AS LISTED ON THE FLORIDA PROHIBITED AQUATIC PLANTS LIST OR THE FLORIDA NOXIOUS WEED LIST FROM THE SITE PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. ALL HERBICIDE APPLICATIONS TO CONTROL INVASIVE, NONNATIVE PLANTS IN WETLAND OR UPLAND SET-ASIDE AREAS, INCLUDING BUFFERS, SHALL BE APPLIED BY A CONTRACTOR LICENSED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF AGRICULTURAL ENVIRONMENTAL SERVICES, WITH A CURRENT CERTIFICATION IN NATURAL AREAS WEED MANAGEMENT.
- ON-SITE LITTER REMOVAL:** REMOVE ALL EXISTING LITTER AND DEBRIS VISIBLE ON THE PROJECT SITE.
- PRUNING:** IF TREE OR ROOT PRUNING IS REQUIRED, THESE ACTIVITIES SHALL BE PERFORMED BY AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA). TREE PRUNING SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS 'TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE' (ANSI 300) AND 'PRUNING, TRIMMING, REPAIRING, MAINTAINING, AND REMOVING TREES, AND CUTTING BRUSH—SAFETY REQUIREMENTS' (ANSI Z133). NO MORE THAN 25 PERCENT OF THE CROWN SHOULD BE REMOVED AT ONE TIME. ON YOUNG TREES, LIMB REMOVAL SHALL LEAVE NO MORE THAN 33 PERCENT OF THE TRUNK BARE OF BRANCHES.
- EXISTING UTILITIES:** LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK. CALL SUNSHINE STATE ONE CALL.

EXISTING TREE INVENTORY

Note that tree sizes as noted in below chart are per field measurements at the time of the site visit with the County Arborist on 02/23/22. The trees included below are those that are within and surrounding the proposed improvement area of this project.

*Tree 21 not on survey and not measured. DBH assumed from photos and other existing earlier planted tree sizes.

PRESERVATION OF EXISTING TREE CANOPY

Per Alachua County ULDC, Article II, Sec. 406.12
 A minimum of 20% of the tree canopy shown on the property's most recent aerial shall be retained.

No trees are proposed for removal or are impacted beyond code allowances. Existing canopy to remain calculated from Jola Tree Mitigation Plan, LS-1, issued August 5th, 2005 still apply:

SITE CALCULATIONS:	
Total Site Area	74,488 SF (1.71 AC)
Canopy To Be Removed	46,063 SF (1.05AC)
Canopy To Be Retained	= 13,032 SF
Canopy Coverage - New Plantings @ 20 YRS	= 40,858 SF
Total Canopy Coverage Provided @ 20 YRS	= 53,890 SF
Total Percentage Coverage @ 20 YRS	= 72%

MITIGATION FEES

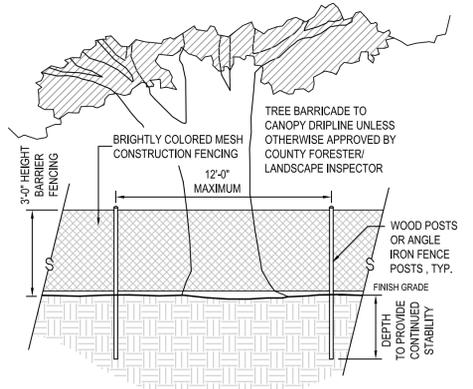
Per Alachua County ULDC, Article II, Sec. 406.13.c.
 Mitigation by fee in lieu payment: If relocation or mitigation by replacement are not feasible, a fee may be paid to Alachua County in lieu of replacement planting. Replacement trees may be satisfied by a fee-in-lieu payment to the County for the purchase and relocation of a like tree. The payment amount shall be based on the average cost of the purchase, installation and maintenance for one year of an equivalent number of replacement trees or actual cost of removing and replanting regulated trees.

No trees are being removed nor impacted.

NOTE:

- PRESERVE EACH REGULATED TREE AND ASSOCIATED NATIVE VEGETATION WITHIN THE AREA OF THE DRIPLINE IN ITS ORIGINAL LOCATION.
- CONTACT THE ALACHUA COUNTY FORESTER/LANDSCAPING INSPECTOR AT (352) 374-5243 EXT. 3503 FOR A TREE BARRICADE INSPECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- DO NOT STORE MATERIALS OR ALLOW ENCROACHMENT OF VEHICLES OR MACHINERY WITHIN TREE BARRIER AREA. NO BUILDING MATERIALS, FILL, MACHINERY OR HARMFUL CHEMICALS SHALL BE PLACED WITHIN PROTECTIVE BARRIERS.
- NO GRADE CHANGES MAY OCCUR WITHIN TREE BARRIER AREA WITHOUT APPROVAL.
- NO ATTACHMENTS OR WIRES OTHER THAN THOSE OF A PROTECTIVE AND NON-DAMAGING NATURE MAY BE ATTACHED TO ANY TREE.
- LANDSCAPE PREPARATION IN THE UNDISTURBED AREA SHALL BE PROHIBITED UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE COUNTY. LANDSCAPING SHALL BE LIMITED TO PLACEMENT OF SOD, MULCH, OR OTHER GROUND COVERS.
- TREE BARRIERS TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.

1 TREE PROTECTION DETAIL
 SCALE: N.T.S.



Manley Design, LLC
 224 NW 2nd Avenue, Suite E
 Gainesville, Florida 32601
 (352) 363-7412
 Certificate of Authorization No. LC26000575

PARK PLACE CAR WASH

Alachua County, FL

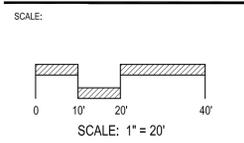
for
Park Place Self Service Car Wash And Quick Lube

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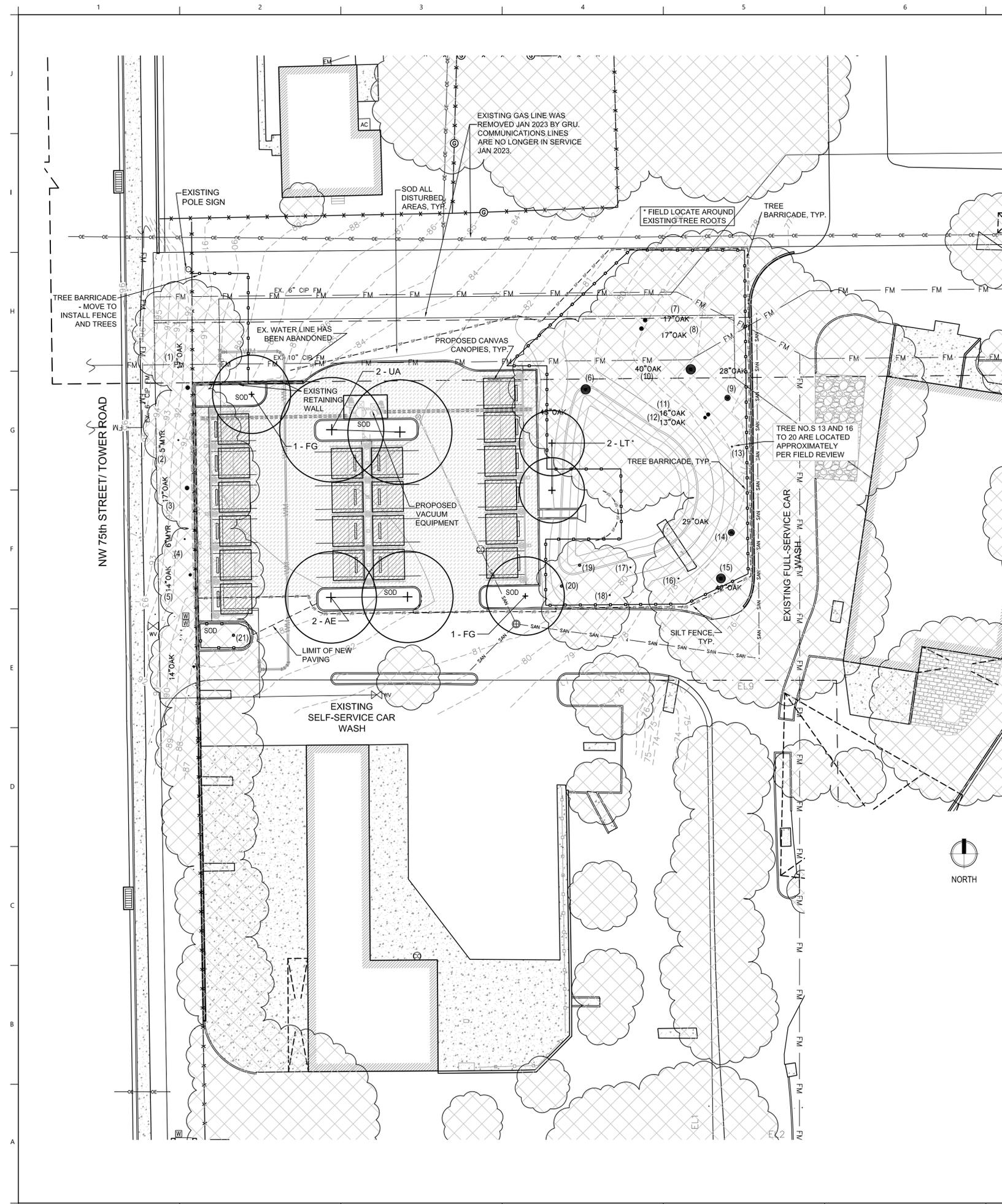
PROJECT NO: 21-073
 CLIENTS NO:
 ISSUED FOR: **REVISED FINAL SITE DEVELOPMENT REVIEW**
 ISSUED DATE: 07 MAR 2022
 REVISIONS:
 04 APR 2022
 05 JUL 2022
 17 MAR 2023
 09 JUN 2023



TREE PRESERVATION AND REMOVAL PLAN AND CHART

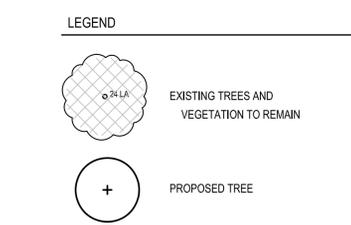
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LS-1

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TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NOTES	REMARKS
AE	2	Ulmus americana	American Elm	30 gal., 11' ht. x 48" sprd., 2' cal.	As shown		Canopy Tree
FG	2	Fraxinus pennsylvanica	Green Ash	30 gal., 11' ht. x 48" sprd., 2' cal.	As shown		Canopy Tree
LT	2	Liriodendron tulipifera	Tulip Poplar	30 gal., 11' ht. x 48" sprd., 2' cal.	As shown		
UA	2	Ulmus alata	Winged Elm	30 gal., 11' ht. x 48" sprd., 2' cal.	As shown		Canopy Tree

SOD/SEED	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	REMARKS
SOD	Paspalum notatum 'Argentine'	Bahia Grass	sod	Sand grown and weed free	



- LANDSCAPE NOTES**
- PRE-CONSTRUCTION MEETING:** COORDINATE AND CONDUCT AN ON-SITE MEETING WITH THE ALACHUA COUNTY FORESTER/LANDSCAPE INSPECTOR OR DESIGNATED COUNTY REPRESENTATIVE TO DISCUSS EXISTING REGULATED TREES AND PROTECTION METHODS. CONTACT: (352) 374-5243 EXT. 3503.
 - EXISTING UTILITIES:** LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK. CALL SUNSHINE STATE ONE CALL - SEE LOGO BELOW.
 - INVASIVE SPECIES:** REMOVE INVASIVE, NONNATIVE PLANT SPECIES AS LISTED ON THE FLORIDA PROHIBITED AQUATIC PLANTS LIST OR THE FLORIDA NOXIOUS WEED LIST FROM THE SITE PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. ALL HERBICIDE APPLICATIONS TO CONTROL INVASIVE, NONNATIVE PLANTS IN WETLAND OR UPLAND SET-ASIDE AREAS, INCLUDING BUFFERS, SHALL BE APPLIED BY A CONTRACTOR LICENSED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF AGRICULTURAL ENVIRONMENTAL SERVICES, WITH A CURRENT CERTIFICATION IN NATURAL AREAS WEED MANAGEMENT.
 - ON-SITE LITTER REMOVAL:** REMOVE ALL EXISTING LITTER AND DEBRIS VISIBLE ON THE PROJECT SITE.
 - PLANTING PREPARATION:** REMOVE ALL CONSTRUCTION DEBRIS, LIMESTONE, GRAVEL, ROAD BEDDING, LITTER, AND OTHER ITEMS POTENTIALLY DAMAGING TO PLANT GROWTH WITHIN PROPOSED LANDSCAPE AND TURF AREAS PRIOR TO PLANTING. MAINTAIN EXISTING GRADES UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. IF FILL IS REQUIRED, USE A CLEAN, SANDY LOAM WITH pH 5.5-6.5 AND EXCAVATED FROM LOCAL SOURCES AND DEEP PITS SUCH THAT IT IS FREE OF WEEDS, SEEDS, LITTER, TOXINS, AND OTHER ITEMS HARMFUL TO PLANTINGS.
 - PRUNING:** IF TREE OR ROOT PRUNING IS REQUIRED, THESE ACTIVITIES SHALL BE PERFORMED BY AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA). TREE PRUNING SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS "TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE" (ANSI 300) AND "PRUNING, TRIMMING, REPAIRING, MAINTAINING, AND REMOVING TREES, AND CUTTING BRUSH—SAFETY REQUIREMENTS" (ANSI Z133). NO MORE THAN 25 PERCENT OF THE CROWN SHOULD BE REMOVED AT ONE TIME. ON YOUNG TREES, LIMB REMOVAL SHALL LEAVE NO MORE THAN 33 PERCENT OF THE TRUNK BARE OF BRANCHES. MINIMIZE IMPACTS ON EXISTING TREE ROOTS AS MUCH AS POSSIBLE. AVOID TREE ROOT PLATE AREAS AS DEFINED BY PERMITTING AGENCIES. ALL ROOTS OF TREES TO REMAIN THAT ARE ADJACENT TO EXTENSIVE EXCAVATION AND ARE 1" DIAMETER OR OVER SHALL BE HAND CUT. EXPOSE ROOTS BY HAND DIGGING, HAND CUT OR SAW CLEANLY, AND IMMEDIATELY COVER WITH SOIL. DO NOT ALLOW CUT ROOTS TO DRY OUT. SUPPLEMENTAL IRRIGATION IS REQUIRED FOR TREES THAT HAVE UNDERGONE ROOT PRUNING AND SHALL BE PROVIDED IMMEDIATELY FOLLOWING ROOT TRIMMING ACTIVITIES.
 - MINIMUM PLANTING AREA:** A MINIMUM PERVIOUS AREA OF 200 SF AND MINIMUM PLANTING AREA OF 140 SF SHALL BE PROVIDED FOR CANOPY TREES WITHIN PARKING AREAS. A MINIMUM PLANTING AREA OF 200 SF SHALL BE PROVIDED FOR CANOPY TREES OUTSIDE OF PARKING AREAS. A MINIMUM PERVIOUS AREA OF 120 SF AND MINIMUM PLANTING AREA OF 90 SF SHALL BE PROVIDED FOR UNDERSTORY TREES WITHIN PARKING AREAS. A MINIMUM PLANTING AREA OF 120 SF SHALL BE PROVIDED FOR UNDERSTORY TREES OUTSIDE OF PARKING AREAS. PLANTING AREAS SHOULD BE FREE FROM COMPACTED MATERIAL TO A DEPTH OF 18-INCHES, MINIMUM.
 - PLANT MATERIAL GENERAL:** ALL PLANT MATERIALS SHALL MEET 'FLORIDA NUMBER 1' REQUIREMENTS AS PER THE MOST CURRENT EDITION OF 'FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS', FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
 - PROPOSED TREES:** TREES PROPOSED ALONG STREETS, WITHIN PAVING, OR IN PARKING LOT ISLANDS SHALL BE A MINIMUM OF TEN FEET TALL, HAVE A MINIMUM TRUNK CALIPER OF TWO INCHES, AND BE IN 30-GALLON MINIMUM CONTAINER. TREES PROPOSED IN STORMWATER FACILITIES OR ELSEWHERE SHALL BE A MINIMUM OF FOUR FEET TALL, HAVE A MINIMUM TRUNK CALIPER OF 3/4 INCHES, AND BE IN 7-GALLON MINIMUM CONTAINERS. NEW TREES LOCATED OUTSIDE OF LARGER PLANTING AREAS WITHIN TURF AREAS TO HAVE 6" OF PLASTIC DRAIN TUBING INSTALLED AROUND THE BASE OF THEIR TRUNK TO PROTECT FROM MOWER AND STRING TRIMMER IMPACTS.
 - NEW TREE STAKING:** IF NECESSARY TO MAINTAIN TREES PLUMB, TREES SHALL BE STAKED WITH BIODEGRADABLE STAKING MATERIALS.
 - SOD:** ALL UNPAVED AND DISTURBED AREAS OUTSIDE OF PROPOSED TREE, SHRUB, AND GROUND COVER PLANTINGS SHALL BE SODDED. SEE CIVIL PLANS FOR SODDING INFORMATION FOR STORMWATER FACILITIES. SOD SHALL BE SAND-GROWN, STRONGLY ROOTED, WITHOUT SYNTHETIC STABILIZING MATERIALS, FREE OF PESTS, AND CERTIFIED FREE OF NOXIOUS WEEDS BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY.
 - MULCHING:** THREE INCHES OF MULCH, SETTLED, SHOULD COVER TREE RING PLANTING AREAS AND ALL SHRUB AND GROUND COVER PLANTING AREAS. MULCH SHOULD BE NO DEEPER THAN ONE INCH OVER THE TOP OF TREE ROOTBALLS. USE PINESTRAW MULCH IN ALL AREAS. MULCH TO BE FREE OF DEBRIS, STICKS, AND CONES. NO PLASTIC OR NON-BIODEGRADABLE WEED CLOTH OR SURFACE COVERS TO BE USED.
 - IRRIGATION:** A TEMPORARY AUTOMATIC IRRIGATION SYSTEM IS REQUIRED FOR ALL NEW REQUIRED LANDSCAPING INSTALLED [407.46(A)]. TEMPORARY IRRIGATION SYSTEMS MUST BE REMOVED ONCE THE PLANTS ARE ESTABLISHED OR WITHIN TWO YEARS, WHICHEVER OCCURS FIRST. PRIOR TO THE INSTALLATION OF A NEW PERMANENT IRRIGATION SYSTEM OR SUBSTANTIAL MODIFICATION TO AN EXISTING SYSTEM, AN IRRIGATION PLAN MUST BE SUBMITTED TO AND APPROVED BY THE ALACHUA COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT THROUGH THE ONLINE ALACHUA COUNTY IRRIGATION PROFESSIONAL PORTAL. THE IRRIGATION SYSTEM SHALL COMPLY WITH THE LANDSCAPE IRRIGATION DESIGN AND MAINTENANCE STANDARDS FOUND IN ARTICLE II OF PART II, TITLE 7, CHAPTER 7B OF THE ALACHUA COUNTY CODE, WHICH, AMONG ADDITIONAL DESIGN STANDARDS, REQUIRES THE FOLLOWING. FOR MORE INFORMATION, CONTACT THE ALACHUA COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT AT 352-264-6800.
 - LIMIT HIGH VOLUME IRRIGATION TO 80% OF THE LANDSCAPED AREA.
 - ALL NEWLY PLANTED TREES SHALL HAVE INDIVIDUAL LOW FLOW OR MICRO-IRRIGATION SUPPLIES.
 - ALL IRRIGATION SYSTEMS ARE REQUIRED TO HAVE A MOISTURE SENSOR/AUTOMATIC RAINFALL SHUTOFF DEVICE.
 - RESPONSIBILITY:** ALL LANDSCAPING FROM THE APPROVED LANDSCAPE PLAN IS REQUIRED TO BE REPLACED IF AND/OR WHEN IT FAILS. OWNER IS RESPONSIBLE FOR THE SURVIVAL OF PLANTINGS. ALL TREE STAKING, IF INSTALLED, SHALL BE REMOVED WITHIN ONE YEAR FOLLOWING RECEIPT OF CERTIFICATE OF OCCUPANCY. IF A TREE THAT IS REQUIRED FOR MITIGATION OR TO FULFILL THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE DIES OR IS SEVERELY DAMAGED, AS DETERMINED BY THE COUNTY'S REPRESENTATIVE, THEN THE TREE MUST BE REPLACED BY THE OWNER PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
 - LETTER OF COMPLIANCE:** PROVIDE ONE WEEK NOTICE TO LANDSCAPE ARCHITECT REGARDING SCHEDULING THE FINAL REVIEW OF INSTALLED LANDSCAPE AND EXISTING VEGETATION PROTECTION FOR THE PURPOSES OF PREPARING THE LETTER OF COMPLIANCE.



PARK PLACE CAR WASH

Alachua County, FL

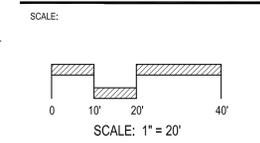
for
Park Place Self Service Car Wash And Quick Lube

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PROJECT NO: 21-073
CLIENTS NO:
ISSUED FOR: **REVISED FINAL SITE DEVELOPMENT REVIEW**
ISSUED DATE: 07 MAR 2022
REVISIONS:
04 APR 2022
05 JUL 2022
17 MAR 2023
09 JUN 2023



SHEET TITLE:
LANDSCAPE PLAN, SCHEDULE AND NOTES

SHEET NUMBER:
LS-2

PROJECT NAME:

PARK PLACE CAR WASH

Alacha County, FL

for Park Place Self Service Car Wash And Quick Lube

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PROJECT NO.: 21-073
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DEVELOPMENT REVIEW**
ISSUED DATE: 07 MAR 2022
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04 APR 2022
05 JUL 2022
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09 JUN 2023

SCALE:

SHEET TITLE:
**LANDSCAPE DETAILS
AND CALCULATIONS**

SHEET NUMBER:

LS-3

FINAL DEVELOPMENT PLAN CHECKLIST

- XIII. LANDSCAPE PLAN NOTES, DETAIL, AND CALCULATIONS**
- ✓ Tree Planting Detail
 - ✓ Tree Protection Detail
 - ✓ Legend
 - ✓ General Notes, Material, Grassed Areas, Irrigation, Details
 - ✓ Tree Canopy Data, including:
 - ✓ At least 20% of the existing tree canopy retained (ULDC 406.12(a)3.)
 - ✓ At least 50% of parking areas under canopy at 20 yrs. (ULDC 407.43(d)3.h.)
 - ✓ At least 30% of the site will be under canopy within 20 years parking areas under canopy at 20 yrs. (ULDC 406.12(a)3.)
 - ✓ Tabular list of all regulated trees indicating the species of tree, the diameter at breast height, and if the tree will either remain or will be relocated, removed, or mitigated (ULDC 406.12(c)2.e.)
 - ✓ Proposed mitigation table (tag number, species & caliper, required mitigation)
 - N/A Development Plan sheet reference map, if more than one development plan sheet
- XIV. DETAILED LANDSCAPE PLAN, MAXIMUM SCALE 1" = 50'**
- ✓ Existing tree size and type
 - ✓ Location and field tag number for each regulated tree to remain undisturbed during construction (ULDC 406.12c.2.d.)
 - ✓ Location of trees to be removed
 - ✓ Proposed trees and shrubs location, type, and number
 - ✓ Stormwater facilities comply with ULDC & MTPO design and landscape requirements
 - N/A Buffers & screening meet landscape requirements of pd, activity center, master plan and ULDC (ULDC 407.43)
 - ✓ Silt fence and tree barrier location (ULDC 406.12.d.)
 - ✓ Show proposed final grades & contours
 - ✓ Show lighting and utilities to identify potential conflicts
 - N/A Landscape to be provided for driveway connections, offsite roadway improvements, and utility extensions

DEVELOPMENT REVIEW FEES

Per Alachua County ULDC, Article II, Sec. 402.07.a.
Any substantial applicant-initiated revisions shall require payment of additional fees. The director shall determine if a proposed revision is to be deemed substantial, and the determination can include such factors as:
(5.) reduction or relocation of proposed buffers landscaping or conservation areas

PRESERVATION OF EXISTING TREE CANOPY

Per Alachua County ULDC, Article II, Sec. 406.12
A minimum of 20% of the tree canopy shown on the property's most recent aerial shall be retained.

No trees are proposed for removal or are impacted beyond code allowances. Existing canopy to remain calculated from Jola Tree Mitigation Plan, LS-1, Issued August 5th, 2005 still apply:

SITE CALCULATIONS:	
Total Site Area	74,488 SF (1.71 AC)
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Canopy To Be Retained	= 13,032 SF
Canopy Coverage - New Plantings @ 20 YRS	40,858 SF
Total Canopy Coverage Provided @ 20 YRS	53,890 SF
Total Percentage Coverage @ 20 YRS	= 72%

MITIGATION FEES

Per Alachua County ULDC, Article II, Sec. 406.13.c.
Mitigation by fee in lieu payment: If relocation or mitigation by replacement are not feasible, a fee may be paid to Alachua County in lieu of replacement planting. Replacement trees may be satisfied by a fee-in-lieu payment to the County for the purchase and relocation of a like tree. The payment amount shall be based on the average cost of the purchase, installation and maintenance for one year of an equivalent number of replacement trees or actual cost of removing and replanting regulated trees.

No trees are being removed nor impacted.

PROPOSED TREE CANOPY COVERAGE

Per Alachua County ULDC, Article II, Sec. 406.12
At least 30% of the site shall be under mature canopy within 20 years - % met as per below.
30% has been met from existing canopy to remain: See 20% calculations.
Please see below for additional canopy provided as part of this project.

TREE NAME - SCIENTIFIC COMMON (SYM.)	EST. 20-YR. CROWN	CROWN AREA	PROPOSED QUANTITY	PROPOSED % OF CANOPY ON SITE	PROPOSED CANOPY AREA ON SITE	
<i>Ulmus alata</i> Winged Elm (UA)	40	1,257 SF	2	100%	2,514 SF	
<i>Ulmus americana</i> American Elm (AE)	35	962 SF	2	50%	962 SF	
<i>Fraxinus pennsylvanica</i> Green Ash (FG)	30	706 SF	2	100%	1,412 SF	
<i>Liriodendron tulipifera</i> (LT)	25	491 SF	2	100%	982 SF	
					Total Proposed 20-year Canopy	5,870 SF
					Total Existing Canopy Retained	53,890 SF *
					Total Canopy	59,760 SF
					Site Area	74,488 SF *
					% Site Under Canopy at 20-years	80.2 % **

* From JOLA Plan - Issued August 5th, 2005
** Several proposed tree canopies overlap such that the effective proposed canopy may total less than what is indicated. However, proposed canopy is over 30%.

PAVED GROUND SURFACE SHADING

Per Alachua County ULDC, Article IV, Sec. 407.43.1.e.
Screening shall be provided where a paved ground surface area lies within 50 feet of and is visible from any street right-of-way. At least 50% of the paved ground surface area shall be under mature canopy within 20 years.
Provided: Screening is not required since paved ground service is not visible from street right of way. See below for canopy.

SHADE PROVIDED BY EXISTING TREE CANOPY					
Existing tree canopy on western and eastern side of proposed parking					1,940 SF
SHADE PROVIDED BY PROPOSED TREE CANOPY					
TREE NAME - SCIENTIFIC COMMON (SYM.)	EST. 20-YR. CROWN	CROWN AREA	PROPOSED QUANTITY	PROPOSED % OF CANOPY ON SITE	PROPOSED CANOPY SHADING PAVING
<i>Ulmus americana</i> American Elm (AE)	35	962 SF	2	50%	962 SF
<i>Ulmus alata</i> Winged Elm (UA)	40	1,257 SF	2	75%	1,885.5 SF
<i>Fraxinus pennsylvanica</i> Green Ash (FG)	30	706 SF	1	50%	353 SF
			1	25%	176.5 SF
<i>Liriodendron tulipifera</i> (LT)	25	491 SF	2	50%	491 SF
Subtotal shading SF provided proposed trees					3,868 SF
Subtotal shading SF provided existing trees					1,940 SF
Total SF shading provided					5,808 SF
Total SF paved ground surface					10,879 SF
% Shaded paved ground surface					53.4%

PROJECT BOUNDARY LANDSCAPE BUFFERS

Per Alachua County ULDC, Article IV, Sec. 407.43.b.

Parcel is zoned 'BH' as are adjacent parcels to the north and south. West of the parcel is NW 75th Street / Tower Road, with a tall existing retaining wall between proposed improvements such that the parking edge is not visible from the roadway. To the east a stormwater basin zoned as 'BUS'. As such, no project boundary buffers are required for this project.

LANDSCAPING OF STORMWATER MANAGEMENT FACILITIES

Per Alachua County ULDC, Article IV, Sec. 407.43.2. Landscape design of stormwater management facilities.

Requirements: The basin and landscaping area shall be designed to include canopy trees spaced no more than an average of every 35 linear feet around the basin and the perimeter. Maintain at least 25 percent of the area of the basin, including the shoulders and maintenance area, using the native landscape plantings, excluding sod. Landscape plantings shall not reduce the width of the required maintenance access.

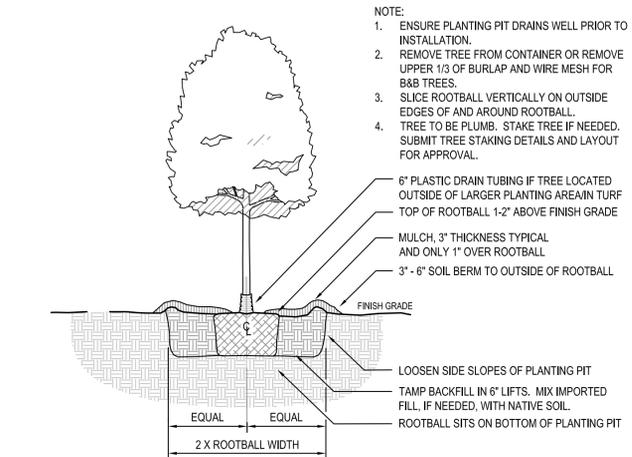
Note: Existing stormwater basins are landscaped per the JOLA Landscape Plan - Issued August 5th, 2005. Existing trees to remain as well as two of the newly proposed trees, which replace two that were indicated in the previous JOLA plan that are missing, overall meet required SMF landscape. Proposed grading is per maintenance of the pond versus grading for additional stormwater capacity - See Civil plans.

TREE SPECIES DIVERSITY

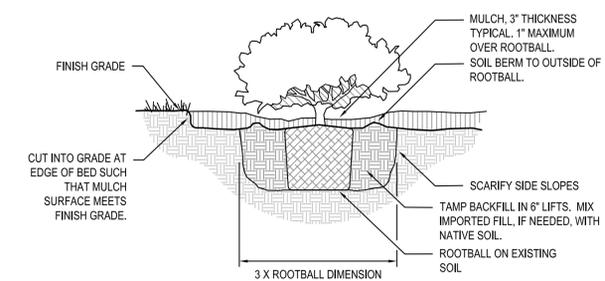
Per Alachua County ULDC, Article IV, Sec. 407.44.a.

New tree plantings shall not include more than 50 percent of any one genus or 25 percent of any one species.

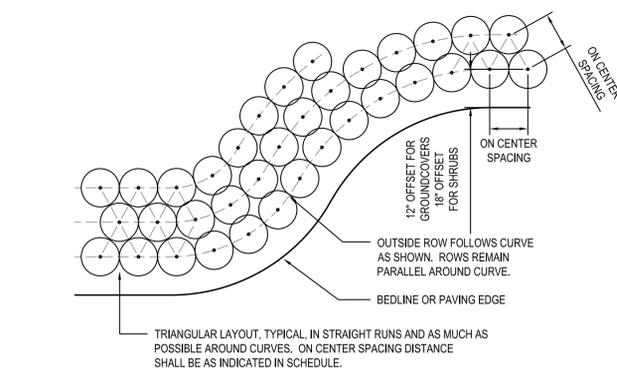
Total proposed trees	8
Total of one genus	2 (25%)
Total of one species	2 (25%)



1 TREE PLANTING DETAIL
SCALE: N.T.S.



2 SHRUB AND GROUND COVER PLANTING DETAIL
SCALE: N.T.S.



3 SHRUB AND GROUND COVER LAYOUT DETAIL
SCALE: N.T.S.

TECHNICAL SPECIFICATIONS - PLANTING, SECTION 329000

PART 1 - GENERAL

- 1.1 SUMMARY
A. PROVIDE ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO RENDER ALL SERVICES REQUIRED TO SUCCESSFULLY INSTALL ALL TURF AND LANDSCAPE PROPOSED WITHIN THE PROJECT AREA AS DEFINED ON PLANS.
B. WORK WILL INCLUDE BUT IS NOT LIMITED TO PREPARATION, INSTALLATION, AND MAINTENANCE FOR PROPOSED TURF AND LANDSCAPE MATERIAL.
1.2 SUBMITTALS
A. PROVIDE TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ANY PLANTING ACTIVITIES. SUBMITTALS SHALL INCLUDE:
1. A COPY OF CURRENT CERTIFICATE AS A CERTIFIED LANDSCAPE CONTRACTOR BY THE FLORIDA NURSERY, GROWERS, AND LANDSCAPE ASSOCIATION (FNGLA).
2. A COPY OF CURRENT PEST CONTROL LICENSE (ROW, ORNAMENTAL AND/OR AQUATIC, IF APPROPRIATE)
3. CERTIFICATION BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES AS A COMMERCIAL FERTILIZER APPLICATOR PER 5E-14.117(18) F.A.C.
4. MANUFACTURER'S LABELS OR INFORMATION FOR ANY COMPONENTS INCORPORATED INTO THIS PROJECT, INCLUDING BUT NOT LIMITED TO FERTILIZERS, PESTICIDES, AND STAKING SYSTEMS.
5. IF IMPORTED FILL IS REQUIRED TO AUGMENT EXISTING CONDITIONS FOR PLANTING, PROVIDE IMPORTED FILL AS DESCRIBED WITHIN PRODUCTS SECTION. PROVIDE A SOIL ANALYSIS THROUGH THE UNIVERSITY OF FLORIDA EXTENSION SOIL TESTING LABORATORY FOR EACH FILL SOURCE AND INCLUDING INCLUDE A WRITTEN REPORT CONTAINING SOIL-AMENDMENT AND FERTILIZER RECOMMENDATIONS FOR EACH SOURCE.
6. SCHEDULE OF VALUES: PRIOR TO THE COMMENCEMENT OF THE WORK, SUBMIT INSTALLED UNIT PRICES FOR ALL PLANT MATERIALS (MULCH SHALL BE INCLUDED IN THE INSTALLED UNIT PRICING) AND SODDING. THE SCHEDULE OF VALUES SHOULD EQUAL THE TOTAL CONTRACT PRICE FOR LANDSCAPE INSTALLATION.
7. TYPEWRITTEN INSTRUCTIONS PROVIDING A MAINTENANCE SCHEDULE AND ALL MAINTENANCE OPERATIONS NECESSARY TO MAINTAIN THE PLANTINGS DURING AND FOLLOWING INSTALLATION, AS SPECIFIED BELOW.
8. WRITTEN WARRANTIES AS SPECIFIED BELOW.
9. RECORD DRAWINGS: FURNISH ONE SET OF RECORD DRAWINGS THAT CLEARLY SHOW ALL CHANGES MADE TO THE ORIGINAL CONTRACT DRAWINGS DURING THE COURSE OF THE WORK. DRAWINGS SHALL BE PROVIDED IN PDF FILE FORMAT AND TO BE FULLY LEGIBLE AND TO SCALE.
1.3 QUALITY CONTROL
A. ALL WORK SHALL BE PERFORMED BY A FNGLA CERTIFIED LANDSCAPE CONTRACTOR (FCLC) WHO HAS COMPLETED LANDSCAPE WORK SIMILAR IN SCOPE, MATERIAL, DESIGN, AND EXTENT TO THAT AS INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL TREE AND SHRUB ESTABLISHMENT. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN FCLC CERTIFICATION UNDER FNGLA.
B. PRUNING AND TRIMMING, IF REQUIRED, SHALL BE PERFORMED BY A CERTIFIED ARBORIST, AS CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA).
C. ALL PLANT MATERIAL TO COMPLY WITH 'FLORIDA #1' GRADE QUALITY STANDARD AS DEFINED AND SPECIFIED WITHIN THE LATEST EDITION OF THE 'FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS' PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRIES. PROVIDE HEALTHY, VIGOROUS STOCK GROWN IN A RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN-SCALED, INJURIES, ABRASIONS, OR DISFIGUREMENT.
D. UNSATISFACTORY OR DEFECTIVE MATERIAL MAY BE REJECTED AT ANY TIME, AND REJECTED MATERIAL SHALL BE REMOVED IMMEDIATELY FROM THE PROJECT SITE.
E. CONTRACTOR SHALL MAINTAIN AND EXPERIENCED, FULL-TIME SUPERVISOR ON THE PROJECT SITE DURING ALL PLANTING ACTIVITIES.
F. SUBSTITUTIONS WILL NOT BE ACCEPTED UNLESS PROOF OF NON-AVAILABILITY OR EVIDENCE OF 'EQUAL' STATUS IS DEMONSTRATED PRIOR TO ORDERING AND/OR INSTALLATION. CONTRACTOR TO SUBMIT A SUBSTITUTION REQUEST TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ORDERING, DELIVERY, OR INSTALLATION OF MATERIAL. THE SUBSTITUTION REQUEST SHALL IDENTIFY THE ISSUE WITH THE SPECIFIED MATERIAL AND PROPOSE ALTERNATIVE, EQUAL MATERIAL(S). INFORMATION TO BE PROVIDED REGARDING ALTERNATIVE MATERIALS SHALL INCLUDE SCIENTIFIC NAME, COMMON NAME, SIZE, AND SOURCE.
G. PACKAGE STANDARD PRODUCTS WITH MANUFACTURER'S CERTIFIED ANALYSIS OR ANALYSIS BY RECOGNIZED LABORATORY.
1.4 CONTRACTOR REQUIREMENTS
A. PROVIDE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY FOR COMPLETION OF WORK AND MAINTENANCE.
B. OBTAIN ALL NECESSARY PERMITS, LICENSES, AND NOTIFICATIONS AND PAY FEES NECESSARY FOR COMPLETION OF THE WORK.
C. COMPLY WITH ALL APPLICABLE CODES.
D. COORDINATE WITH OTHER TRADES WORKING ON THE PROJECT DURING PLANTING ACTIVITIES.
E. COORDINATION SHALL OCCUR WITH OTHER CONTRACTORS OR PROJECTS OCCURRING OFF SITE IF NECESSARY.
F. IDENTIFY AND VERIFY THE LOCATION OF ALL UTILITIES WITHIN PROPOSED PLANTING AREAS. CONTRACTOR TO CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AS REQUIRED BY CHAPTER 556 OF FLORIDA STATUTES PRIOR TO ANY EXCAVATION OR PLANTING ACTIVITIES.
G. PROVIDE SAFE STORAGE FOR ALL EQUIPMENT AND MATERIALS. STORAGE OF SUCH ITEMS IS AT THE CONTRACTOR'S RISK.
H. REPAIR, AT NO COST TO THE OWNER, ANY DAMAGE OCCURRING DUE TO CONTRACTOR NEGLIGENCE TO EXISTING UTILITIES, STRUCTURES, FURNISHINGS, HARDCAPE, LANDSCAPE, OR OTHER ELEMENTS TO REMAIN. ANY DAMAGED WORK SHALL BE REPAIRED AS PER PLANS, OTHER SPECIFICATIONS SECTIONS, OR AS INSTRUCTED BY THE OWNER'S REPRESENTATIVE.
I. MAINTENANCE DURING INSTALLATION AND UNTIL FINAL ACCEPTANCE.
1.5 WARRANTY
A. EXISTING LANDSCAPE AND VEGETATION
1. ALL EXISTING LANDSCAPE AND TURF TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITIES.
B. NEW PLANTS
1. WARRANTY SHRUBS AND GROUNDCOVER FOR A PERIOD OF TWELVE (12) MONTHS AFTER DATE OF SUBSTANTIAL COMPLETION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR THAT WHICH IS A RESULT OF NEGLIGENCE BY OWNER, ABUSE, DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTRACTOR'S CONTROL.
2. REMOVE AND REPLACE ANY LANDSCAPE MATERIAL FOUND TO BE DEAD OR IN UNHEALTHY CONDITION DURING WARRANTY PERIOD.
B. NEW SOD
1. WARRANTY ALL GRASS FOR A PERIOD OF SIX (6) MONTHS AFTER SUBSTANTIAL COMPLETION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, AS DETERMINED BY THE OWNER'S REPRESENTATIVE, EXCEPT FOR DEFECTS RESULTING FROM NEGLIGENCE BY THE OWNER, ABUSE OR DAMAGE BY OTHERS, OR THE UNUSUAL PHENOMENA OR INCIDENTS, WHICH ARE BEYOND THE CONTRACTOR'S CONTROL.
2. REMOVE AND REPLACE ALL TURF FOUND TO BE DEAD OR IN AN UNHEALTHY CONDITION DURING WARRANTY PERIOD AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
C. REPAIR GRADES, LAWN AREAS, PAVING, AND ANY OTHER DAMAGE RESULTING FROM REPLACEMENT PLANTING OPERATIONS, AT NO ADDITIONAL COST TO OWNER.
D. IF ANY PLANTS ARE REPLACED DURING THE WARRANTY PERIOD, THEN THE REPLACEMENT MATERIAL SHALL ALSO BE WARRANTED FOR THE SAME PERIOD AS LISTED FOR NEW MATERIAL, ABOVE, FROM THE DATE OF REPLACEMENT. ONLY ONE REPLACEMENT WILL BE REQUIRED EXCEPT FOR LOSSES OR REPLACEMENTS DUE TO FAILURE TO COMPLY WITH SPECIFIED REQUIREMENTS.
E. A FINAL INSPECTION MAY BE MADE AT THE END OF THE WARRANTY PERIOD TO DETERMINE ACCEPTANCE OR REJECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER, IN WRITING, THIRTY (30) DAYS PRIOR TO THE END OF THE WARRANTY PERIOD, AT WHICH TIME THE OWNER HAS THE OPTION TO PERFORM AN END OF WARRANTY INSPECTION. FAILURE TO NOTIFY THE OWNER OF THE END DATE OF THE WARRANTY PERIOD SHALL CAUSE THE WARRANTY PERIOD TO EXTEND UNTIL SUCH TIME AS THE CONTRACTOR GIVES THE OWNER THE REQUIRED 30 DAYS' NOTICE.
1.6 DELIVERY, STORAGE, AND HANDLING
A. PACKAGED MATERIALS: DELIVER PACKAGED MATERIALS IN CONTAINERS SHOWING WEIGHT, CERTIFIED ANALYSIS, AND NAME OF MANUFACTURER. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND WHILE STORED AT SITE.
B. SOD: TIME DELIVERY SO THAT SOD WILL BE PLACED WITHIN 24 HOURS AFTER STRIPPING. PROTECT SOD AGAINST DRYING AND BREAKING OF ROLLED STRIPS.
C. PLANTS: DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. DO NOT BEND OR BIND-TIE SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING DELIVERY. DELIVER PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN SIX (6) HOURS AFTER DELIVERY, SET PLANTS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE. DO NOT REMOVE CONTAINER-GROWN STOCK FROM CONTAINERS UNTIL PLANTING TIME. HANDLE PLANT MATERIALS BY ROOTBALL.
1.7 PROJECT CONDITIONS
A. COORDINATE AND COOPERATE WITH OTHER TRADES TO ENABLE WORK TO PROCEED AS RAPIDLY AND EFFICIENTLY AS POSSIBLE.
B. IF WEATHER CONDITIONS DETRIMENTAL TO PLANTING ARE ENCOUNTERED OR ANTICIPATED, NOTIFY THE OWNER'S REPRESENTATIVE OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING. PLANTING SHALL NOT OCCUR DURING PERIODS OF OR WITHIN 48 HOURS OF PREDICTED TEMPERATURES LESS THAN 32 F.
C. WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED OR ANTICIPATED, INCLUDING BUT NOT LIMITED TO LIMESTONE, ROAD BASE, RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OBSTRUCTIONS, OR TOXIC MATERIALS, NOTIFY THE OWNER'S REPRESENTATIVE OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING.
D. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL REMOVAL IS MUTUALLY AGREED UPON BY PARTIES CONCERNED.
E. DETERMINE LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF WORK. CALL SUNSHINE STATE ONE CALL, 811. PERFORM WORK IN A MANNER THAT AVOIDS POSSIBLE DAMAGE. HAND EXCAVATE AS REQUIRED.

PART 2 - PRODUCTS

- 2.1 FILL
A. IF REQUIRED TO AUGMENT EXISTING SOILS FOR LANDSCAPE AND TURF INSTALLATION, PROVIDE NEW, DEEP FILL MATERIAL AS PER USDA STANDARD TEXTURES AND THAT IS TAKEN FROM WELL-DRAINING LOCAL SOURCES WITH SIMILAR SOIL TYPES AS FOUND AT THE PROJECT SITE.
B. FILL TO BE SUITABLE FOR PLANT GROWTH, FRIABLE, AND FREE OF CLAY LUMPS, BRUSH, WEEDS, SEEDS, ROOTS, STUMPS, STONES, ORGANIC MUCK, HARD PAN CLAY, LITTER AND CONSTRUCTION DEBRIS INCLUDING LIMESTONE OR PAVING BASE MATERIAL, ASPHALT, AND CONCRETE, AND OTHER EXTRANEIOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH
C. FILL TO BE OF PH 5.6-5.5.
2.2 MULCH
A. MULCH SHALL BE AS INDICATED IN NOTES OR THE PLANT SCHEDULE AND TO BE FREE OF BRANCHES, CONES, AND DEBRIS.
2.3 COMMERCIAL FERTILIZER
A. FERTILIZER TYPE AND APPLICATION TIMING AND METHODS SHALL MEET ALACHUA COUNTY 'FERTILIZER STANDARDS AND MANAGEMENT PRACTICES' LDR ARTICLE IV, REQUIREMENTS. DO NOT APPLY FERTILIZER FROM JULY - FEBRUARY. APPLY FERTILIZER EITHER DURING THE PROJECT'S INSTALLATION OR DURING THE ESTABLISHMENT PERIOD, DEPENDING ON WHICH IS POSSIBLE RELATIVE TO THIS TIME PERIOD. IF IT IS ANTICIPATED THAT THE PROJECT WILL BE COMPLETED OUTSIDE OF THE SPECIFIED FERTILIZING WINDOW AND THAT FERTILIZING WON'T BE POSSIBLE, DISCUSS WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
B. FERTILIZER MAY ONLY BE APPLIED WITHIN 10 FT. FROM ANY WETLAND OR BODY OF WATER FOR A PERIOD OF 90 DAYS FOLLOWING PLANTING. FOLLOWING THAT TIME PERIOD, FERTILIZING IN THIS AREA IS NOT ALLOWED.
C. FERTILIZERS APPLIED TO TURF AND/OR LANDSCAPE PLANTS SHALL BE FORMULATED AND APPLIED IN ACCORDANCE WITH DIRECTIONS PROVIDED BY RULE 5E-1.003, FLORIDA ADMINISTRATIVE CODE, LABELING REQUIREMENTS FOR URBAN TURF FERTILIZERS.
C.1. NITROGEN OR PHOSPHORUS FERTILIZER SHALL NOT BE APPLIED TO TURF OR LANDSCAPE PLANTS EXCEPT AS ALLOWED BY THIS RULE OR IF WITHIN UFIFAS RECOMMENDATIONS FOR LANDSCAPE PLANTS, VEGETABLE GARDENS, AND FRUIT TREES AND SHRUBS, UNLESS A SOIL OR TISSUE DEFICIENCY HAS BEEN VERIFIED BY AN APPROVED TEST.
C.2. NO FERTILIZER CONTAINING PHOSPHORUS SHALL BE APPLIED TO TURF, SOD, LAWNS, OR LANDSCAPE PLANTS UNLESS A SOIL OR PLANT TISSUE DEFICIENCY IS VERIFIED BY A TESTING METHODOLOGY APPROVED BY THE UNIVERSITY OF FLORIDA, INSTITUTE OF FOOD AND AGRICULTURAL SCIENCES. IF A DEFICIENCY IS VERIFIED, THE APPLICATION OF FERTILIZER CONTAINING PHOSPHORUS MUST ADHERE TO THE RATES AND DIRECTION FOR THE APPROPRIATE REGION OF FLORIDA, AS ADOPTED BY THE FLORIDA ADMINISTRATIVE CODE RULE.
C.3. FERTILIZERS CONTAINING NITROGEN APPLIED TO TURF OR LANDSCAPING PLANTS MUST CONTAIN NO LESS THAN 50 PERCENT SLOW RELEASE NITROGEN PER GUARANTEED ANALYSIS LABEL.
D. SHRUBS AND GROUNDCOVERS: IF PERMISSIBLE BY SECTION C, ABOVE, UTILIZE A ROOT STARTER OR EQUIVALENT SLOW RELEASE FERTILIZER TO ENCOURAGE ROOT GROWTH. APPLY AT MANUFACTURER'S RECOMMENDED RATE. ROOT STARTER SHALL BE A COMPLETE, SLOW RELEASE FERTILIZER WITH ORGANIC NITROGEN AND CONTAIN THE FOLLOWING PERCENTAGES OF AVAILABLE PLANT NUTRIENTS:
D.1. BETWEEN 5-6% TOTAL NITROGEN (N) CONSISTING OF 3.5-4.5% WATER INSOLUBLE/SLOW RELEASE NITROGEN AND 1.5% WATER SOLUBLE NITROGEN
D.2. BETWEEN 1-2% PHOSPHATE (P2O5)
D.3. BETWEEN 0.5-3% POTASH/POTASSIUM (K)
E. TURF: IF PERMISSIBLE BY SECTION C, ABOVE, PROVIDE FERTILIZER WITH NOT LESS THAN SIXTEEN (16) PERCENT TOTAL NITROGEN, FOUR (4) PERCENT AVAILABLE PHOSPHORIC ACID AND EIGHT (8) PERCENT SOLUBLE POTASH. APPLY AT MANUFACTURER'S RECOMMENDED RATE.
2.4 PLANT MATERIALS
A. PROVIDE SHRUBS AND GROUNDCOVERS OF SIZE, GENUS, SPECIES, AND VARIETY AS SHOWN IN THE PLANT SCHEDULE FOR LANDSCAPE WORK THAT CONFORM TO FLORIDA NO. 1 QUALITY STANDARDS.
B. PROVIDE HEALTHY, VIGOROUS STOCK GROWN IN A RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN-SCALED, INJURIES, ABRASIONS, OR DISFIGUREMENT.
C. LANDSCAPE MATERIAL SHALL BE CONTAINER GROWN MATERIAL UNLESS OTHERWISE SPECIFIED OR UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.
2.5 SOD
A. PROVIDE SAND-GROWN ONLY, STRONGLY ROOTED SOD, NOT LESS THAN TWO YEARS OLD, FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES, AND MACHINE CUT TO PAD THICKNESS OF 3/4 INCH (PLUS OR MINUS 1/4 INCH), EXCLUDING TOP GROWTH AND THATCH. PROVIDE ONLY SOD CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED. SOD SHALL BE VIABLE AND NOT DORMANT.
B. PROVIDE SOD OF UNIFORM PAD SIZES WITH A MAXIMUM 5% DEVIATION IN EITHER LENGTH OR WIDTH. BROKEN PADS OR PADS WITH UNEVEN ENDS WILL NOT BE ACCEPTABLE. SOD PADS INCAPABLE OF SUPPORTING THEIR OWN WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON UPPER 10 PERCENT OF PAD WILL BE REJECTED.
C. STABILIZING NETTING OR OTHER SYNTHETIC MATERIALS WITHIN SOD SHALL BE PROHIBITED.
D. SOD TO BE AS LISTED WITHIN THE PLANT SCHEDULE.
E. REFER TO CIVIL PLANS FOR SOD TYPE AND INSTALLATION METHODS WITHIN STORMWATER FACILITIES.
2.6 WEED PRE-EMERGENT HERBICIDE
A. IF APPROVED BY OWNER, APPLY 'RON STAR G' PRE-EMERGENT HERBICIDE, OR APPROVED EQUAL IN PLANTING AREAS.

PART 3 - EXECUTION

- 3.1 PREPARATION
A. CONDUCT A PRE-CONSTRUCTION CONFERENCE ON SITE WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. DISCUSS PROPOSED ACTIVITIES, REVIEW PROPOSED PLANTING AREAS, AND CONFIRM PROPOSED SCHEDULE OF WORK. PROVIDE ONE WEEK'S NOTICE OF PROPOSED CONFERENCE.
B. ENSURE ALL ASPHALT, LIMESTONE, AND OTHER CONSTRUCTION DEBRIS ARE REMOVED FROM AREAS OF PROPOSED PLANTING OR SODDING TO A MINIMUM DEPTH OF THREE FEET PRIOR TO INSTALLATION.
C. CLEAN EXISTING SOIL OF ROOTS, PLANTS, SODS, STONES, CLAY, LUMPS AND OTHER EXTRANEIOUS MATERIALS HARMFUL OR TOXIC TO PLANT GROWTH.
D. PLANTING DEPTH OF SOIL SHALL BE A MINIMUM OF THREE (3) FEET. IF FILL MUST BE ADDED, IT SHALL CONFORM TO THE REQUIREMENTS LISTED ABOVE.
E. PLANTING AREAS SHALL NOT BE COMPACTED.
F. PLANTING AREAS SHALL BE WELL-DRAINING. IF SATURATED OR WET CONDITIONS EXIST IN PROPOSED PLANTING AREAS OR WITHIN PLANTING HOLES, DO NOT PLANT MATERIAL AND CONTACT LANDSCAPE ARCHITECT FOR DIRECTION.
G. GAIN APPROVAL FROM OWNER PRIOR TO WORK FOR REMOVAL OF EXISTING GRASS, VEGETATION, AND TURF BY METHODS OTHER THAN HAND REMOVAL. IF APPROVED, SPRAY AREAS WITH 'ROUND-UP' OR OTHER APPROPRIATE HERBICIDE AND PERFORM ADDITIONAL SPRAY TREATMENTS AS NEEDED TO ENSURE A COMPLETE KILL. REMOVE AND DISPOSE OF RESULTING DEAD VEGETATION AND TURF. DO NOT TURN RESULTING DEAD VEGETATION OR TURF OVER TO SOIL. REPEAT IF NECESSARY TO REMOVE EXISTING VEGETATION.
H. FOR TURF AREAS INDICATED FOR RENOVATION, MECHANICALLY CUT OUT AREAS OF FAILING TURF AND CREATE A CLEAN EDGE FOR NEW SOD INSTALLATION.
I. FINE GRADE PROPOSED PLANTING AND SOD AREAS TO SMOOTH, EVEN SURFACES WITH LOOSE, UNIFORMLY FINE TEXTURE AND FREE OF LUMPS, CLODS, STONES, ROOTS, AND OTHER EXTRANEIOUS MATTER. ROLL, RAKE, AND DRAG AREAS, REMOVE RIDGES, AND FILL DEPRESSIONS AS REQUIRED TO MEET FINISH GRADES.
J. ALLOW FOR SOD THICKNESS IN AREAS TO BE SODDED SUCH THAT INSTALLED SOD MEETS FINISHED GRADES.
3.2 TREE BARRIERS AND EXISTING TREE PROTECTION
A. REFER TO NOTES ON DEMOLITION PLANS OR LANDSCAPE PLANS REGARDING TREE PROTECTION AND TREE PROTECTION BARRIERS.
B. MINIMIZE IMPACTS ON EXISTING TREE ROOTS AS MUCH AS POSSIBLE. AVOID TREE ROOT PLATE AREAS AS DEFINED BY PERMITTING AGENCIES.
C. ALL ROOTS OF TREES TO REMAIN THAT ARE IMMEDIATELY ADJACENT TO EXTENSIVE EXCAVATION AND ARE 1" DIAMETER OR OVER SHALL BE HAND CUT, EXPOSE ROOTS BY HAND DIGGING, HAND CUT OR SAW CLEANLY, AND IMMEDIATELY COVER WITH SOIL. DO NOT ALLOW CUT ROOTS TO DRY OUT.
D. SUPPLEMENTAL IRRIGATION IS REQUIRED FOR TREES THAT HAVE UNDERGONE ROOT PRUNING. PROVIDE SUPPLEMENTAL IRRIGATION IMMEDIATELY FOLLOWING PRUNING AND CONTINUE THROUGH CONSTRUCTION.

PART 3 - EXECUTION, CONT

- 3.3 PLANTING
A. PLANT TREES, SHRUBS, AND GROUNDCOVER AFTER FINAL GRADES ARE ESTABLISHED AND PRIOR TO PLANTING OF LAWNS UNLESS OTHERWISE AUTHORIZED BY OWNER'S REPRESENTATIVE. IF PLANTING OF TREES AND SHRUBS OCCURS AFTER INSTALLATION OF LAWNS, PROTECT LAWN AREAS AND PROMPTLY REPAIR DAMAGE CAUSED BY LANDSCAPE INSTALLATION.
B. LAY OUT INDIVIDUAL PLANT LOCATIONS AND AREAS FOR MULTIPLE PLANTINGS. TRIANGLE SPACING SHALL BE USED FOR SHRUBS AND GROUNDCOVERS UNLESS OTHERWISE SPECIFIED IN PLANS OR BY OWNER'S REPRESENTATIVE. OUTLINE AREAS AND SECURE OWNER'S REPRESENTATIVE'S OR OWNER REPRESENTATIVE'S ACCEPTANCE BEFORE START OF PLANTING WORK. MAKE MINOR ADJUSTMENTS AS MAY BE REQUIRED.
C. EXCAVATE PITS, BEDS, AND TRENCHES SUCH THAT PITS ARE AS DEEP AS THE PLANT'S ROOTBALL AND 1.5 TIMES THE DIAMETER OF THE ROOTBALL. LOOSEN HARD SUBSOIL IN BOTTOM OF EXCAVATION. SCARIFY SIDES OF PIT.
D. FILL EXCAVATIONS FOR SHRUBS WITH WATER AND ALLOW WATER TO PERCOLATE OUT PRIOR TO PLANTING. NOTIFY OWNER'S REPRESENTATIVE OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING IF PITS DO NOT DRAIN PRIOR TO PLANTING.
E. REMOVE PLANT MATERIAL FROM CONTAINER. LIFT TREES AND SHRUBS BY THE ROOTBALL AND NOT BY THE TRUNK OR MAIN STEM. SET PLANT MATERIAL STOCK IN CENTER OF PIT OR TRENCH WITH TOP OF BALL AT 1-2" ABOVE ADJACENT FINISH LANDSCAPE GRADES.
F. REMOVE ANY SYNTHETIC OR STRAPPING MATERIAL PRIOR TO SETTING PLANT MATERIAL INTO PLANTING PIT OR TRENCH.
G. ENSURE PLANT MATERIAL IS PLUMB.
H. PLACE BACKFILL AROUND BASE AND SIDES OF BALL AND WORK IN EACH LAYER TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS. ENSURE ROOTBALL REMAINS 1-2" ABOVE ADJACENT FINISH GRADE. WHEN EXCAVATION IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE WATER IS ABSORBED. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
I. DISH TOP OF BACKFILL FOR TREES AND PALMS TO ALLOW FOR MULCHING.
J. ALL PLANT MATERIAL SHALL BE FERTILIZED AT THE TIME OF PLANTING ONLY IF THAT IS WITHIN THE ALLOWABLE FERTILIZING TIME WINDOW PER COUNTY CODE. MIX OR APPLY FERTILIZER ON TOP OF ROOTBALL AND NOT UNDER OR WITHIN PLANTING PITS. APPLY JUST INSIDE OF PLANT FOULAGE/DRIFLINE AND NOT DIRECTLY ON STEMS OR EXPOSED ROOTS OF MATERIAL. MIX SPECIFIED FERTILIZERS WITH EXISTING SOIL AT RATES SPECIFIED BY THE MANUFACTURER. DELAY MIXING OF FERTILIZER IF PLANTING WILL NOT FOLLOW PLACING OF PLANTING SOIL WITHIN THREE (3) DAYS. DO NOT APPLY OR SPILL FERTILIZER ON IMPERVIOUS SURFACES. IMMEDIATELY CLEAN OFF AND/OR CONTAIN IF SO. DO NOT WASH, SWEEP, OR BLOW OFF EXCESS OR SPILLED FERTILIZER INTO DRAINS, STORMWATER DITCHES OR PONDS, OR OTHER WATER BODIES OR CONVEYANCE SYSTEMS.
K. APPLY PRE-EMERGENT HERBICIDE. IF APPROVED BY OWNER, AND AS PER MANUFACTURER'S SPECIFICATIONS.
L. MULCH PITS, TRENCHES, AND PLANTED AREAS. PROVIDE A THREE (3) INCH THICKNESS OF MULCH AND WORK ONTO TOP OF BACKFILL. THE FINISH LEVEL OF MULCH SHOULD MEET ADJACENT FINISH GRADES. MULCH AREAS BETWEEN GROUNDCOVER PLANTS.
M. WATER THOROUGHLY AFTER PLANTING, TAKING CARE NOT TO COVER CROWNS OF PLANTS WITH WET SOILS.
N. GUY AND STAKE TREES AND PALMS IMMEDIATELY AFTER PLANTING AS NEEDED.
3.4 SODDING NEW LAWNS
A. ENSURE GRADE IS SMOOTH AND EVEN WITH A LOOSE, UNIFORM TEXTURE. ROLL, RAKE AND DRAG PROPOSED LAWN AREAS, REMOVE RIDGES, AND FILL DEPRESSIONS AS REQUIRED TO MEET FINISH GRADES AND PROVIDE AN EVEN SURFACE FOR SOD INSTALLATION.
B. LAY SOD WITHIN 24 HOURS FROM TIME OF STRIPPING.
C. MOISTEN PREPARED LAWN AREAS BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE MOISTURE TO DRY BEFORE PLANTING LAWNS. DO NOT CREATE A MUDDY SOIL CONDITION.
D. APPLY SPECIFIED COMMERCIAL FERTILIZER IF WITHIN THE ALLOWABLE FERTILIZING TIME WINDOW PER COUNTY CODE. APPLY AT RATES SPECIFIED AND THOROUGHLY MIX INTO UPPER TWO INCHES OF SOIL IN AREAS OF PROPOSED SOD. DELAY APPLICATION OF FERTILIZER IF LAWN PLANTING WILL NOT FOLLOW WITHIN A FEW DAYS. SPREADER DEFLECTOR SHIELDS ARE REQUIRED WHEN FERTILIZING VIA ROTARY/BROADCAST SPREADERS. DO NOT APPLY OR SPILL FERTILIZER ON IMPERVIOUS SURFACES. IMMEDIATELY CLEAN OFF AND/OR CONTAIN IF SO. DO NOT WASH, SWEEP, OR BLOW OFF EXCESS OR SPILLED FERTILIZER INTO DRAINS, STORMWATER DITCHES OR PONDS, OR OTHER WATER BODIES OR CONVEYANCE SYSTEMS.
E. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS. DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. TAP SOD FIRMLY IN PLACE ONCE LAID.
F. ANCHOR SOD ON SLOPES GREATER THAN 3:1 WITH WOOD PEGS TO PREVENT SLIPPAGE, IF NEEDED.
G. AVOID DAMAGE TO SUBGRADE OR SOD DUE TO INSTALLATION ACTIVITIES.
H. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.
3.5 CLEANUP
A. MAINTAIN WORK AREAS IN AN ORDERLY CONDITION. KEEP PAVEMENTS AND ADJACENT SITE AREAS CLEAN. REMOVE ALL POTS, LITTER, TOOLS, EQUIPMENT, AND EXTRANEIOUS SOIL, SOD, OR MATERIALS AT THE END OF EACH WORK DAY. STORE MATERIALS AND EQUIPMENT WHERE DIRECTED. DISPOSE OF MATERIALS AS DIRECTED.
3.6 NEW PLANT PROTECTION
A. PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DURING CONSTRUCTION. MAINTAIN PROTECTION DURING INSTALLATION AND THROUGHOUT THE MAINTENANCE PERIOD. TREAT, REPAIR, OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED.
B. TREES WHICH ARE TO REMAIN IN THE CONSTRUCTION AREA SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS BY THE CONTRACTOR.
C. DO NOT PERMIT HEAVY EQUIPMENT OR STOCKPILES WITHIN THE DRIP LINE OF EXISTING OR NEWLY PLANTED TREES. REMOVE INTERFERING BRANCHES WITHOUT INJURY TO TRUNKS.
3.7 MAINTENANCE
A. MAINTENANCE ACTIVITIES SHALL INCLUDE THE FOLLOWING ACTIVITIES DURING CONSTRUCTION AND UNTIL FINAL ACCEPTANCE:
1. WEEDING: MAINTAIN PLANTINGS AND TURF AS WEED FREE.
2. MULCHING: MAINTAIN MULCH AT TREES, PALMS, AND WITHIN PLANTING BEDS AT A 3" DEPTH.
3. PEST CONTROL: SPRAY AS REQUIRED TO KEEP PLANTINGS AND TURF FREE OF INSECTS AND DISEASE.
4. MOWING: MOW TURF AREAS AS NEEDED OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
5. REPLACEMENT: REPLACE PLANTS OR SOD AREAS THAT ARE IN POOR CONDITION.
6. LITTER REMOVAL: REMOVE LITTER AND DEBRIS FROM LANDSCAPE AND TURF AREAS.
7. RESTORE PLANTING SAUCERS OF TREES AND SHRUBS.
8. TIGHTEN AND REPAIR STAKE AND GUY WIRE SUPPORTS, IF PRESENT, AND RESET TREES AND SHRUBS TO PROPER GRADES OF VERTICAL POSITION AS REQUIRED.
9. REMOVE ALL TREE STAKING, IF PRESENT, WITHIN ONE YEAR AFTER PLANTING.
3.8 REPLACEMENT OF EXISTING LANDSCAPE DAMAGED DURING PROJECT
A. ANY EXISTING VEGETATION, INCLUDING TREES AND SHRUBS, DAMAGED OR DESTROYED SHALL BE REPLACED OR MITIGATED BY THE CONTRACTOR WITH LIKE SPECIES OR ANOTHER SPECIES APPROVED BY THE OWNER'S REPRESENTATIVE. ANY AREA OF VEGETATION THAT IS DAMAGED DURING CONSTRUCTION WILL BE RESTORED TO ITS ORIGINAL STATE WITHIN 72 HOURS OF THE COMPLETION OF THE ASSOCIATED CONSTRUCTION WORK.
B. IF REMOVAL OF AN EXISTING TREE REQUIRES MITIGATION, THE CONTRACTOR SHALL BE HELD LIABLE FOR THE COMPLETE COST, INCLUDING BUT NOT LIMITED TO TREE REPLACEMENT COSTS AND PAYMENTS REQUIRED TO PERMITTING AGENCIES.
C. TREE REPLACEMENT SPECIES AND PROCEDURES SHALL BE DISCUSSED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF ACTIVITIES.
3.9 INSPECTION AND ACCEPTANCE
A. WHEN ALL LANDSCAPE WORK IS SUBSTANTIALLY COMPLETE, THE OWNER'S REPRESENTATIVE WILL, UPON REQUEST, MAKE A SUBSTANTIAL COMPLETION INSPECTION TO DETERMINE ACCEPTABILITY AND COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE OWNER'S REPRESENTATIVE WILL PRODUCE A WRITTEN PUNCH LIST FOR THE CONTRACTOR AND OWNER'S REPRESENTATIVE TO IDENTIFY ITEMS THAT SHALL BE ADDRESSED PRIOR TO FINAL ACCEPTANCE.
B. ONCE ITEMS OF THE PUNCH LIST ARE ADDRESSED, THE OWNER'S REPRESENTATIVE WILL CONDUCT A FINAL COMPLETION INSPECTION. IF NECESSARY, THE OWNER'S REPRESENTATIVE WILL PRODUCE A FINAL PUNCH LIST FOR THE CONTRACTOR AND OWNER'S REPRESENTATIVE TO IDENTIFY ITEMS TO BE ADDRESSED PRIOR TO FINAL ACCEPTANCE.
C. FINAL ACCEPTANCE WILL NOT BE ISSUED UNTIL ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ACCEPTED BY THE OWNER AND ALL SUBMITTALS HAVE BEEN MADE.
D. WORK MAY BE INSPECTED FOR ACCEPTANCE IN PORTIONS AS PHASES OF INSTALLATION ARE COMPLETED AND AS AGREEABLE TO THE OWNER'S REPRESENTATIVE, PROVIDED EACH PORTION OF WORK OFFERED FOR INSPECTION IS SUBSTANTIALLY COMPLETE.

END OF SECTION

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Certificate of Authorization No. LC26000575

PROJECT NAME:

PARK PLACE
CAR WASH

Alacha County, FL

for
Park Place Self Service
Car Wash And Quick
Lube

SEAL:
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CONSIDERED SIGNED AND SEALED. THE
SIGNATURE MUST BE VERIFIED ON THE
ELECTRONIC DOCUMENTS. THE ABOVE NAMED
REGISTERED LANDSCAPE ARCHITECT SHALL BE
RESPONSIBLE FOR THIS SHEET IN ACCORDANCE
WITH RULE 61G10-11.011 F.A.C.

Table with project details: PROJECT NO: 21-073, CLIENTS NO., ISSUED FOR: REVISED FINAL SITE DEVELOPMENT REVIEW, ISSUED DATE: 07 MAR 2022, REVISIONS: 04 APR 2022, 05 JUL 2022, 17 MAR 2023, 09 JUN 2023.

NOT APPLICABLE

LANDSCAPE
TECHNICAL
SPECIFICATIONS

SHEET NUMBER:
LS-4

Vertical text on the left margin: PLOTDATE: 06/09/2023 8:09 AM USER: ELISABETH MANLEY FILENAME: C:\USERS\ELMAN\BOVA\PROJECT\2021\21-073_SHEETS\DRAWING\AC\04_PRODUCT\02_SPA_2023-06-09_SFR_01_SHEETS\21073_MD_PARK_PLACE_CARWASH-DRAWP...