

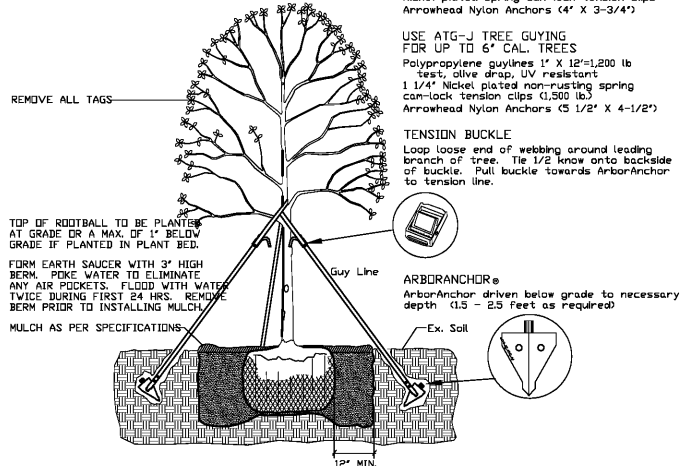
TREE PROTECTION DETAIL
(PRIOR TO CONSTRUCTION ACTIVITIES) N.T.S.

NOTE: Chainlink fence to only be utilized for protection when a tree or a group of trees are isolated meaning they are not behind the silt fence line or the silt fence is bubbled out just to protect the tree.

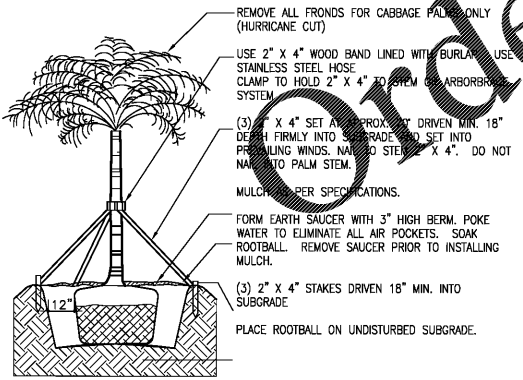
NOTE TO SILT FENCE INSTALLER:
The silt fence shall not be trenched within the driplines of trees. If unavoidable then the silt fence shall be installed at grade (no trenching) or use hay bales in those locations.

USE ATG-R TREE GUYING FOR UP TO 4" CAL. TREES
Polypropylene guylines 3/4" X 12'=800 lb test, olive drab, UV resistant
Nickel plated spring can-lock tension clips
Arrowhead Nylon Anchors (4" X 3-3/4")

USE ATG-J TREE GUYING FOR UP TO 6" CAL. TREES
Polypropylene guylines 1" X 12'=1200 lb test, olive drab, UV resistant
1 1/4" Nickel plated non-rusting spring can-lock tension clips (1,500 lb.)
Arrowhead Nylon Anchors (5 1/2" X 4-1/2")



TREE PLANTING DETAIL
SCALE: NOT TO SCALE



PALM TREE PLANTING DETAIL
SCALE: NOT TO SCALE

TREE PROTECTION DETAIL:

- Minimum amount of tree radius to be protected:
 - 100% of the dripline. Filled adjusted barricades to protect 100% of canopy.
 - If the proposed development will encroach within the proposed protection area, then effective pruning or other protective measures may be necessary to ensure that the tree survives. Prior approval from NRD Staff is required.
- Minimum construction: Chain link fence (new or used) or silt fence shall be utilized at the location shown on the approved Tree Protection Plan.
- Contractor shall maintain the barriers until all paving, construction and heavy equipment is out of the area.
- Trees located greater than 15' outside limits of clearing and not located on single family lots as marked by silt screen or hay bales do not require tree barricades.
- No debris, fill materials or construction activity shall occur within confines of barriers.
- Trees on single family lots do not require barricades.
- Protect designated trees scheduled to remain against:
 - Unnecessary cutting, breaking or skinning of roots.
 - Skimming or bruising of bark.
 - Smothering of trees by stockpiling construction or excavation materials within dripline.
 - Excess foot and all vehicular traffic are prohibited.
 - Parking vehicles within dripline.
- Provide water to trees as required to maintain their vigor.
- When necessary to cut roots over 1 1/2" diameter on trees which are to remain, cut must be a clean cut. Coat cut faces of roots with an emulsified asphalt or other acceptable coating formulated for use on damaged plant tissue. Temporarily cover exposed roots with wet burlap to prevent drying and cover with earth as soon as possible.
- No grade changes are to be made within the barricades without prior approval of owner or his designated representative and NRD Staff.
- Repair or replace trees indicated to remain which are damaged in the construction operations, in a manner acceptable to the owner. Employ a qualified tree surgeon to repair major damages to trees and shrubs promptly to prevent progressive deterioration caused by damage. Prior approval from NRD Staff is required.

GENERAL NOTES:

A minimum of 2 days and a maximum of 5 days prior to the commencement of any work, Sunshine State One Call shall be notified # 1 800 432-4770 per Florida Statute 953.851.

The general / site contractor shall be responsible for construction grades, including grading for berms if required, and site drainage unless otherwise specified. Drainage, irrigation and topsoil backfill shall be provided and installed by the general / site contractor to establish construction grades.

The site is to be received by the landscape contractor with finished grades at plus or minus one-tenth of one foot and clear of debris and weed growth. Finished grades in areas abutting curbs, walks, or pavement to be provided flush by the general / site contractor or other. The landscape contractor is responsible for fine grading by hand which consists of smooth, even grades. The landscape contractor is to cut all grades down to minus two inches (-2") below all walks, curbs, pavement, in planters or other outdoor areas in order to contain sod or mulch as specified.

All plants to be Florida grade #1 or better. Workmanship should be of the highest nursery standards.

All plants are to be planted from flush to one inch above finished grade of soil. All trees are to be planted flush with existing grade if surrounded by grass and if planted within a plant bed, trees are to be planted flush to one inch (1") below finished grade to create a shallow pan to hold water and mulch. Soil ring mounds around plants or trees for water must be graded / removed prior to mulch installation. DO NOT backfill any soil over the top of the rootball of any plant or tree.

There shall be a minimum clearance from landscape plants to the edge of meters less 3' and 10' for meters 3' and larger. There shall be a minimum clearance from the front and both sides and 4' from the back for all fire hydrants. No trees shall be planted within 10' of any County maintained water or sewer main.

Use fertilizer at the rate of 8 pounds per 1000 square feet of lawn or as recommended by the manufacturer for turf areas a minimum of two weeks after sod installation. All plants / trees / palms are to be fertilized with a granular type fertilizer at time of planting. All fertilizer is to be installed in an even ring / circle outside the edge of the rootball or edge of the dripline. Do Not broadcast fertilizer on plants. Follow the application rate: 1 gallon plants 2-4 fluid ounces granular fertilizer, 3 gallon plants 4-6 fluid ounces, 10-15 gallon plants 8 fluid ounces (1 pound), 30 gallon plants 15 fluid ounces, trees 1 pound per caliper inch, palms 3-4 pounds on small palms, 5-6 pounds on palms 15" or 8-10 pounds on palms over 15".

Zoysia and / or St. Augustine grass will be used in all Public viewed areas of the site. Bahia can be used in nonpublic areas. All areas within the property boundaries which require sod or plants will be covered with solid sod (areas indicated on the plan) unless otherwise specified. Free from pests and weeds, layed in staggered rows with no gaps. The contractor is to substantiate all sod types and quantities before final installation.

All planted areas will be mulched with a 3" deep layer in all plant beds. All trees are to have a mulched bed a minimum of three feet (3') in diameter and three inches (3") deep.

All trees are to be guaranteed for six (6) months and all plants are to be guaranteed for ninety (90) days from the date of final acceptance of the job by the owner / representative. Vandalism, theft, abuse, lack of proper maintenance, watering, or abnormal acts of God are not included.

ANY EXISTING EXOTIC PLANT SPECIES PRESENT SHALL BE REMOVED AND THE CONTINUED REMOVAL OF NUISANCE, EXOTIC PLANT SPECIES THAT MAY BECOME ESTABLISHED WITHIN ANY AREAS OF THE SITE SHALL BE REMOVED FOR THE LIFE OF THE PROJECT PER LDC SECTION 701.4.

ADDITIONAL NOTES:

Trees and shrubs shall not be placed within the middle two-thirds (2/3) of any drainage swale or within three (3) feet measured horizontally from the centerline of the drainage swale, whichever is greater. Swales must allow the positive flow of water without any obstruction.

The roadway buffers are not located in potential future Right of Way reservations setbacks or dedications.

IRRIGATION NOTES:

An irrigation system shall be installed which will provide 100% coverage for all proposed trees, palms and shrubs, as specified on the landscape plans. A rain / moisture sensing cut-off device will be installed at the controller location (to be determined). All trees and plants will be designed to be irrigated by drip or low volume sprays.

In accordance with Section 701.7.A.3 of the LDC, all irrigation systems shall use the lowest quality water available which adequately and safely meets the water needs of the system. The use of potable water will not be allowed.

LANDSCAPE REQUIREMENTS

TREE REMOVAL / REPLACEMENT INVENTORY

130.313.2 sq.ft. (less undisturbed area - 7,402 sq.ft.) = 122,911.2 sq.ft.	
122,911.2 / 43,560 = 2.82	
2.82 x 50 = 141	141 TREES REQUIRED
22 ARC Red Maple 12'h x 6'spr., 3'cal.	
26 CVC Weeping Bottlebrush 12'h x 6'spr., 3'cal.	121 TREES PROPOSED
9 LLC Ligustrum 8'h x 8'spr., 3'cal, 4'ct.	
5 QVC Live Oak 12'-14'h x 6'spr., 3'cal.	
16 QVD Live Oak 16'-18'h x 8'spr., 4'cal.	
20 SPB Cabbage Palm 14'-18'ct C40 Palms proposed 2 for 1D	
23 TDC Bald Cypress 10'-12'h x 5'spr., 3'cal.	
20 x \$445 (3' Replacement Trees) = \$8,900.00	20 TREES TO BE PAID INTO THE TREE FUND

ROADWAY BUFFER REQUIREMENT - N. CENTRAL OVERLAY DISTRICT (50'wide)

3 Canopy Tree (12'h x 5'spr., 3'cal.) / 100 ln. ft.	10
6 Evergreen Understory Tree (6'h x 3'spr., 2'cal.) / 100 ln. ft.	10
33 Shrubs (30'h * time of planting) / 100 ln. ft.	33

ROADWAY ENTRANCES REQUIREMENT

50' on either side of entrance shall contain a minimum of 8 Cabbage Palms 14' minimum

FUTURE HAMPSHIRE RD. EXT. + US 90A

849.68 ln. less ingress + 50' offsets - 266.41) / 100 = 5.83	
5.83 x 3 = 17	18 CANOPY TREES REQUIRED
3.83 x 6 = 23	39 UNDERSTORY TREES REQUIRED
3.83 x 3 = 11	143 SHRUBS REQUIRED
14 Ex. Trees (30-Oaks, 1-Pine)	28 CANOPY TREES PROPOSED
5 ARC Red Maple 12'h x 6'spr., 3'cal.	
5 QVC Live Oak 12'-14'h x 6'spr., 3'cal.	
4 QVD Live Oak 16'h x 8'spr., 4'cal.	
26 CVC Weeping Bottlebrush 12'h x 6'spr., 3'cal.	39 UNDERSTORY TREES PROPOSED
4 LLC Ligustrum 8'h x 8'spr., 3'cal, 4'ct.	
12 MF-7 Simpson's Stopper 30'h, 7 gal.	
23G PN-7 Wild Coffee 30'h, 7 gal.	318 SHRUBS PROPOSED

GREENBELT BUFFER REQUIREMENT - N. CENTRAL OVERLAY DISTRICT (20'wide)

3 Canopy Tree (12'h x 5'spr., 3'cal.) / 100 ln. ft.	3
33 Shrubs (30'h * time of planting) / 100 ln. ft.	33

WEST + NORTH PROPERTY LINES

682.32 lf. / 100 = 6.8	
6.8 x 3 = 20.4	21 CANOPY TREES REQUIRED
6.8 x 33 = 224.4	225 SHRUBS REQUIRED
31 Ex. Trees (30-Oaks, 1-Pine)	38 CANOPY TREES PROPOSED
7 QVD Live Oak 16'h x 8'spr., 4'cal.	
138 MF-7 Simpson's Stopper 30'h, 7 gal.	
13G PN-7 Wild Coffee 30'h, 7 gal.	274 SHRUBS PROPOSED

VEHICLE USE AREA

TERMINAL ISLANDS - 1 Canopy Tree + 5 Shrubs / Parking Island
DIVIDER MEDIANS - 1 Canopy Tree + 5 Shrubs / 45 ln. ft.

360 sq.ft. of landscaped areas / 20 Parking Spaces
4 Canopy Trees / 20 Parking Spaces
20 Shrubs / 20 Parking Spaces (40 / 20 spaces if 1 gallon installed)

24 spaces / 20 = 1.4	
1.4 x 360 = 504	504 SQ. FT. AREA REQUIRED
1.4 x 4 = 5.6	6 CANOPY TREES REQUIRED
1.4 x 20 = 28	28 SHRUBS REQUIRED
4 QVD Live Oak 16'h x 8'spr., 4'cal.	740 SQ. FT. AREAS PROPOSED
4 SPB Cabbage Palm 14'-18'ct. (2 for 1 - 8 Palms)	8 TREES PROPOSED
74 RI Dv. Indian Hawthorn 12'h, 3 gal.	74 SHRUBS PROPOSED

FOUNDATION LANDSCAPING

20 square feet per 1000 square feet of proposed Gross Floor Area (GSA)

MAIN BUILDING

4,649 / 1,000 = 4.6	
4.6 x 20 = 92	92 SQUARE FEET REQUIRED
32 RI Dv. Indian Hawthorn 12'h, 3 gal.	200 SQUARE FEET PROPOSED

CAR WASH BUILDING

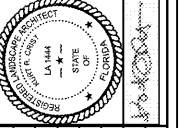
980 / 1,000 = .98	
.98 x 20 = 19.6	20 SQUARE FEET REQUIRED
21 PD Podocarpus 18'h, 3 gal.	84 SQUARE FEET PROPOSED

PLANT LIST:

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
22	ARC	Acer rubrum	Red Maple Tree	12'h x 6'spr., 3'cal.
26	CVC	Callistemon viminalis	Weeping Bottlebrush Tree	12'h x 6'spr., 3'cal.
9	LLC	Ligustrum japonicum	Ligustrum Tree	8'h x 8'spr., MT, 3-5 stems, 3'cal, 4'ct.
242	MF-7	Mycrnanthes fragrans	Simpson's Stopper	30'h, 7 gal. (42'o.c.)
328	PN-7	Psychotria nervosa	Wild Coffee	30'h, 7 gal. (42'o.c.)
5	QVC	Quercus virginiana	Live Oak Tree	12'-14'h x 6'spr., 3'cal.
16	QVD	Quercus virginiana	Live Oak Tree	16'h x 8'spr., 4'cal.
40	SPB	Sabal palmetto	Cabbage Palm	14'-18'ct. Cropped
23	TDC	Taxodium distichum	Bald Cypress	10'-12'h x 5'spr., 3'cal.
21	PD	Podocarpus macrophyllus	Podocarpus	18'h, 3 gal. (24'o.c.)
106	RI	Rhaphiolepis indica 'Alba'	Dv. Indian Hawthorn	12'h x 12'spr., 3 gal. (30'o.c.)

BID SET
7-1-2019

Kurt R. Crist -
Landscape Architect, Inc.
FL REG. LA # 20001444
email: krc@linc.com



No.	Date	Revision
1	5/14/19	Rev. per. County comments / site
2	6/12/19	Rev. per. County comments / site

T-ELEVEN PARRISH
Manatee County, Florida

NOTES & SPECS

Designed	krc
Drawn	cadd
Scale	ON PLAN
Date	3/25/19
Sheet	195043-31a

LA3
of 3
Project 19504