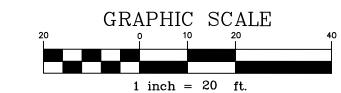
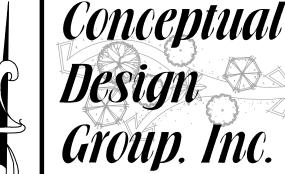


- 1. All utility boxes and structures, not currently known or shown on the plan, shall be screened with Cocoplum plants on three (3) sides. 2. Contractor to include drainage testing for all trees and palms in bid. If drainage is inadequate and the soil specification in item #8 of the landscape specifications is not appropriate for site conditions, the soil mixture shall be revised for this site's conditions. The Contractor shall notify the Owner and Landscape Architect of the poor drainage conditions in writing and written direction will be provided to the
- contractor of appropriate soil mixture specification to be used. 3. All prohibited, exotic and invasive species shall be removed from the entire site area of site prior to issuance of certificate of occupancy. 4. All planting areas to be irrigated to provide 100% coverage and provide adequate irrigation of landscape areas for the first full growing season and continue thereafter only as necessary to maintain
- required vegetation in good and healthy condition. Shop drawings to be submitted by the irrigation contractor for approval prior to installation. 5. The irrigation system shall be continuously maintained in working order.
- 6. All required landscape improvements must be inspected and approved by City of Pembroke Pines prior to the issuance of a Certificate of Occupancy.
- 7. This plan has been designed to meet with the tree planting requirements contained within the FPL document entitled 'Plant the Right Tree in the Right Place' on new (proposed) plantings. 8. Planting adjacent to fire hydrants shall have a minimum clear radius of 7.5' front and sides and 4' in the rear as required by the NFPA Uniform Fire Code Florida Edition 18.3.4.1 Hydrants standards. 9. No plant substitutions can be made without Owner's and the City of Pembroke Pine's approval.
- 10. All required landscape improvements must be inspected and approved by the City of Pembroke Pines prior to the issuance of a Certificate of Occupancy. 11. An automatic Rain sensor shall be placed on-site as part of the required irrigation system.
- 12. All trees planted under FP&L power lines are required to comply with the FP&L "Plant the right tree in the right place" guidelines. 13. All parking lot landscape islands and beds shall be free of compacted sub-base, shell rock, construction debris, etc., and excavated no farther than eighteen (18") inches from the back of curb(s) to a minimum depth of thirty (30") inches or to clean, native soils and shall be filled with the specified backfill planting mixture as specified on the landscape plans in the landscape specifications. The area where the hedges are located shall be excavated to a depth of twelve (12") inches and the areas where sod is located shall receive a minimum of three (3") inches of planting soil.
- 14. Root barriers shall be installed in accordance with manufacturer specifications adjacent to all trees planted within six feet of underground utilities, curbs or sidewalks. The total length of the root barriers shall be twenty feet adjacent to the sidewalk and twenty feet adjacent to the curb. 15. All new trees installed shall be irrigated with bubblers.





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PLANT LIST

QTY	SYM	SPECIES	COMMON NAME/DESCRIPTION	SIZE	SPACING	REMARKS	WATER USAG
TREES							
3	CE*	CONOCARPUS ERECTUS	GREEN BUTTONWOOD	14' x 5', 3" D.B.H.	A.S.	FULL CANOPY, 5' C.T. MIN.	LOW
6	CD*	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	14' x 5', 3" D.B.H.	A.S.	FULL CANOPY, 5' C.T. MIN.	LOW
2	DR	DELONIX REGIA	ROYAL POINCIANA	16' x 5', 3" D.B.H.	A.S.	FULL CANOPY, 5' C.T. MIN.	LOW
6	QV*	QUERCUS VIRGINIANA	LIVE OAK	14' x 5', 3" D.B.H.	A.S.	FULL CANOPY, 5' C.T. MIN.	LOW
10	PE*	PINUS ELLIOTTI	SLASH PINE	14' x 5', 2" D.B.H.	A.S.	FULL CANOPY, 5' C.T. MIN.	LOW
20	TD*	TAXODIUM DISTICHUM	BALD CYPRESS	14' x 5', 2" D.B.H.	A.S.	FULL CANOPY, 5' C.T. MIN.	LOW
PALMS							
9	SP*	SABAL PALMETTO	SABAL PALM	12' - 16' C.T.	A.S.	SLICK TRUNKS	LOW
SHRUBS /	GROUND COVERS						
40	ANN	ANNUALS	SEASONAL ANNUALS	4" POTS	12" O.C.	OWNER APPROVED	LOW
405	CHI*	CHRYSOBALANUS ICACO	COCOPLUM	#7, 3' x 2'	2' O.C.	FULL & THICK	LOW
110	DUR	DURANTA ERECTA	GOLD MOUND	#3, 1.5' x 1.5'	2' O.C.	FULL & THICK	LOW
70	FGI	FICUS MICROCARPA 'GREEN ISLAND'	FICUS GREEN ISLAND	#3, 1.5' x 1.5'	2' O.C.	FULL & THICK	LOW
420	ILV*	ILEX VOMITORIA	DWARF YAUPON HOLLY	#3, 1.5' x 1.5'	2' O.C.	FULL & THICK	LOW
27	MYR*	MYRICANTHES FRAGRANS	SIMPSON STOPPER	#15, 6' x 2'	2' O.C.	FULL & THICK	LOW
	SOD	STENOTAPHRUM SECUNDATUS	ST. AUGUSTINE SOD			SEE SPECS.	HIGH
		* = FLORIDA NATIVE					

LANDSCAPE DATA

SITE AREA	
AREA	SF
TOTAL SITE AREA	82,625 SF
TOTAL PAVEMENT AREA	22,925 SF

153.11G - MAXIMUM USE OF ONE TREE SPECIES REQUIRED = 28 TREES / 20% = 6 PROVIDED = 6 (EXCLUDES MITIGATION TREES & PALMS & 4 PROVIDED HEDGE = 114 SHRUBS ADDITIONAL PINES TO SCREEN RESIDENTIAL UNITS IN WEST BUFFER)

153.18 - MINIMUM LANDSCAPE REQUIREMENTS 82,625 S.F.

REQUIRED = 1 TREE / 5,000 S.F. = 17 PROVIDED = 28

REQUIRED = 10 SHRUBS / 5,000 S.F. = 170 PROVIDED = 1,032

153.11E - DUMPSTER SCREEN REQUIRED = 27 SHRUBS

153.11 (H) - TREE HEIGHTS:

TOTAL TREES = 28

MIN. HT. REQ.: % REQUIRED: PROVIDED/SPECIES: 40 = 13 13 (6 PE + 7 TD) 12 (6 QV + 6 CD) 12' - 14' 30 = 9 6 (2 DR + 4 EXISTING) 20 = 6

NATIVE PLANTS

TOTAL REQUIRED TREES PLANTED = 23 TOTAL NATIVE TREES PLANTED = 21 / 23 = 91%

TOTAL SHRUBS PLANTED = 1,032 TOTAL NATIVE SHRUBS PLANTED = 852 / 1,032 = 83%

TOTAL TREES TOTAL TREES REQUIRED = 28

TOTAL TREES PROVIDED = 28 (5 EXISTING + 23 PLANTED)

TOTAL MITIGATION TREES REQUIRED = 14 TOTAL MITIGATION TREES PROVIDED = 14

TOTAL MITIGATION PALMS REQUIRED = 8 TOTAL MITIGATION PALMS PROVIDED = 9 TOTAL TREES PLANTED = 47

TOTAL EXISTING TREES TO REMAIN = 5

TOTAL EXISTING PALMS TO REMAIN = 1

153.13 - R.O.W. LANDSCAPE BUFFERS: (NORTH BUFFERS)

REQUIRED = 1 TREE / 50' OF PROPERTY LINE 228 / 50' = 4 TREES PROVIDED = 4 TREES

REQUIRED HEDGE = HEIGHT 2' O.C. 228 / 2' O.C. = 114 SHRUBS

PROVIDED = 12 TREES

32 SPACES / 22,925 S.F.

153.14 - LANDSCAPE BUFFERS: (EAST, WEST & SOUTH)

REQUIRED = 1 TREE / 50' OF PROPERTY LINE 562 / 50' = 12 TREES

REQUIRED HEDGE = 2.5' HEIGHT 2 YEARS FROM PLANTING 562 / 2' O.C. = 281

PROVIDED HEDGE = 281 SHRUBS 153.15 - INTERIOR PARKING & PAVED AREAS

REQUIRED = 1 TREE / 5 SPACES = 6 TREES PROVIDED = 6 TREES

REQUIRED = 1 TREE / 100 S.F. OF INTERIOR LANDSCAPE AREA = 1,151 / 100 = 12 TREES

PROVIDED = 12 TREES

REQUIRED = 10 S.F. PER EVERY PARKING SPACE = 320 S.F. PROVIDED = 1,151 S.F.

REQUIRED = 1 S.F. OF LANDSCAPING FOR EVERY 100 S.F. OF PAVED AREA = 22,295 / 100 = 229 S.F.

PROVIDED = 1,162 S.F.

CENTE

LANDS

8100 JOHNS 1BROKE PINE ROKE

Seal :

EMB

SIGNATURE AND SEAL Landscape Architect Prepared, Reviewed & Supervised By: Conceptual Design Group, Inc. 900 East Ocean Boulevard, Suite 130d Stuart, Florida 34994

(772) 344-2340 LC: 26000198 Name: Jeffrey W. Smith, RLA

License # : LA0001635 PLAN STATUS

/21/2017 CITY COMMENTS & NEW BAS 0/25/2017 CITY COMMENTS & NEW BAS 17/2017 CITY COMMENTS & NEW BAS

DATE DESCRIPTION JWS | JS | JWS DESIGN DRAWN CHKD SCALE AS SHOWN

BOWMAN / CDG JOB No. 008916-01-002 / 17-0307 7/4/2017

SHEET L-1 OF 3

LANDSCAPE NOTES

1. All tree and plant material to be Florida No. 1 or better, as classified in "Grades and Standards for Nursery Plants", Part 1 and Part II, State of Florida, Dept. of Agriculture, Tallahassee. All plants not listed in "Grades and Standards for Nursery Plants" shall conform to a Florida No. 1 as to: (1) health and vitality, (2) condition of foliage, (3) root system, (4) freedom from pest or mechanical damage, (5) heavily branched and densely foliated according to the accepted normal shape of the species.

2. Undersizing or substitution of one species or cultivar for another species is a breach of contract and will be "Rejected" at the time of final landscape inspection unless approved by Landscape Architect. 3. Project Warranty: All plant material shall be warranted for a period of one (1) year after date of substantial completion against defects, including death and unsatisfactory growth, except for defects

resulting from abuse or damage by others or unusual phenomena or incidents which are beyond the contractor's control. 4. Any and all conditions which the contractor feels will be detrimental to the success of the planting shall be brought to the owner or representative's attention.

5. The contractor shall verify the location of underground utilities prior to commencing work on any project area.

6. Mulch planting areas with 3" layer of Melaleuca, Eucalyptus, or Environmulch. Cypress Mulch is <u>NOT ACCEPTABLE</u>. Planting beds to receive mulch throughout entire bed area.

7. All plants to be set to ultimate grade. No filling will be permitted around trunks or stems. Mulch to be kept a minimum of 2" away from trunks and stems. 8. Planting trees and shrubs: Excavate hole per planting detail. When plant is set, place additional backfill consisting of a 50% mixture of Peat humus and natural soil around the base and sides of ball, and work each layer to settle backfill and eliminate voids and air pockets. When excavation is approximately 2/3 full, water thoroughly before placing remainder of backfill. Water again after placing final layer of

9. Guy and stake trees in 3 directions with galvanized wire, through flexible hose chafing guards, with wooden stake anchors immediately after planting. (See Detail) 10. All fertilizers shall meet the requirements of the governing agencies such as Broward County, the City of Oakland Park, etc. No fertilizers shall conflict with any required ordinances. Should there be no fertilizer ordinances the fertilizers shall be as listed below.

Trees and shrubs shall be fertilized with a complete natural organic fertilizer with a ratio of approximately 3:1:2 or 3:1:3 (e.g. one labeled 12-4-8). Similar analysis such as 16-4-8 (4:1:2) can also be used. Fertilizers that are slow release, controlled release, sulphur coated or with nitrogen as IBDU or ureaformaldehyde have extended release period. Thirty to fifty percent of the nitrogen should be water

Palms should receive a complete granular fertilizer formulated for palms ("Palm Special") at a rate of 5 to 8 lbs. per palm.

Agriform 20-10-5 twenty-one gram planting tablets may be substituted for granular fertilizer. If utilized, the following rates shall be utilized: Position plant in hole. Backfill halfway up the rootball. Place tablet(s) beside rootball about 1" from root tips. Do not place tablet(s) in bottom of hole.

1 Gallon 1 Tablet 3 Gallon 2 Tablets

25 Gallon & B&B Trees 2 per 1" caliper

backfill and before installing mulch.

11. Maintain trees, shrubs, and other plants by watering, cultivating, and weeding as required for healthy growth. Restore planting saucers and mulch. Tighten and repair stake and guying and reset trees and shrubs to proper grade or vertical position as required. Spray as necessary to keep trees and shrubs free of insects and disease. The contractor shall begin maintenance immediately after planting and shall continue maintenance through final acceptance when Certificate of Occupancy is issued to the General Contractor by the governing agency and project is released by the General Contractor to Client. 12. Prune trees and shrubs only to remove damaged branches. 13. Planting Lawns: Provide clean, strongly rooted, uniformly sized strips of Stenotaphrom secundatus - St. Augustine "Floritam" sod (unless otherwise noted in Plant List), machine stripped not more

than 24 hours prior to laying. Grade and roll prepared lawn surface. Water thoroughly but not to create muddy soil conditions. Lay sod strips with tight joints, roll or tamp lightly, and water thoroughly. 14. Maintain positive drainage, no planting is to block drainage. Drainage Testing

Prior to planting of trees, palms, and specimen material, each planting pit shall be tested in the following manner to verify adequate drainage. A) Dig each planting pit to the minimum specified size.

B) Fill the planting pit with (12") twelve inches of water. If the water level in the planting pit drops (4") four or more inches within (4) four hours, the drainage is sufficient and a drainage channel is not required. If the water level drops less than (4") four inches within the (4) four hour period, then a drainage channel is required.

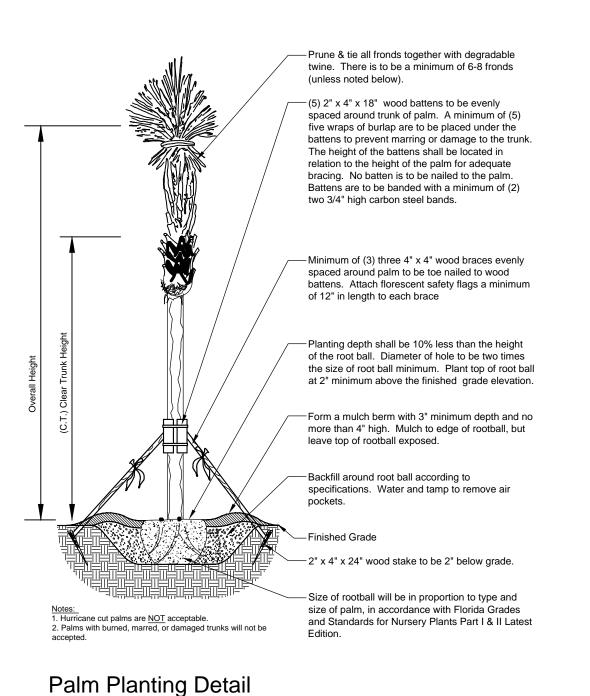
C) When a drainage channel is required, the drainage channel must extend down through the non porous soil and into porous soil. (See Drainage Testing Detail)

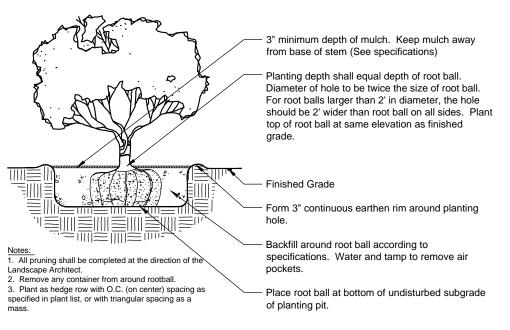
D) Discard all material removed from the drainage channel. E) When backfilling the planting pit, add course gravel to the drainage channel. Also, care must be taken to keep the consistency of the soil mix the same throughout the planting pit.

12" depth of water Drainage Testing Pit Finished grade ——— 6" diameter drainage channel Note: Refer to planting details for size of planting pit Finished grade Planting mix 6" diameter drainage channel filled with course gravel. Discard material removed from drainage channel.

Drainage Testing Detail

Not to Scale





Shrub Detail

Not to Scale

 Place 1/2" diameter black rubber hose on all guy Place 3 galvanized steel double strand #12 gauge twisted guy wires with one galvanized turnbuckle per guy wire spaced at equal distance around tree. Attach florescent safety flags a min. of 12" in length to each guy wire. hole to be three times the size of root ball minimum. Plant top of root ball at 2" minimum above the finished grade elevation.

> Form a mulch berm with 3" minimum depth and no more than 4" high. Mulch to edge of rootball, but leave top of rootball exposed. Remove burlap or steel cage from top 1/3 of root ball (If applicable).

Drive 2" x 4" x 24" wood stake a min. of 3" below

3 times diameter Backfill around root ball according to specifications. Water and tamp to remove air of rootball (Min.) Notes:

1. All pruning shall be completed at the

Tree Planting Detail

2. No nails shall be driven into tree

Not to Scale



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CE

AL LANDSCAPE PINES M

Seal :

EMBR

D

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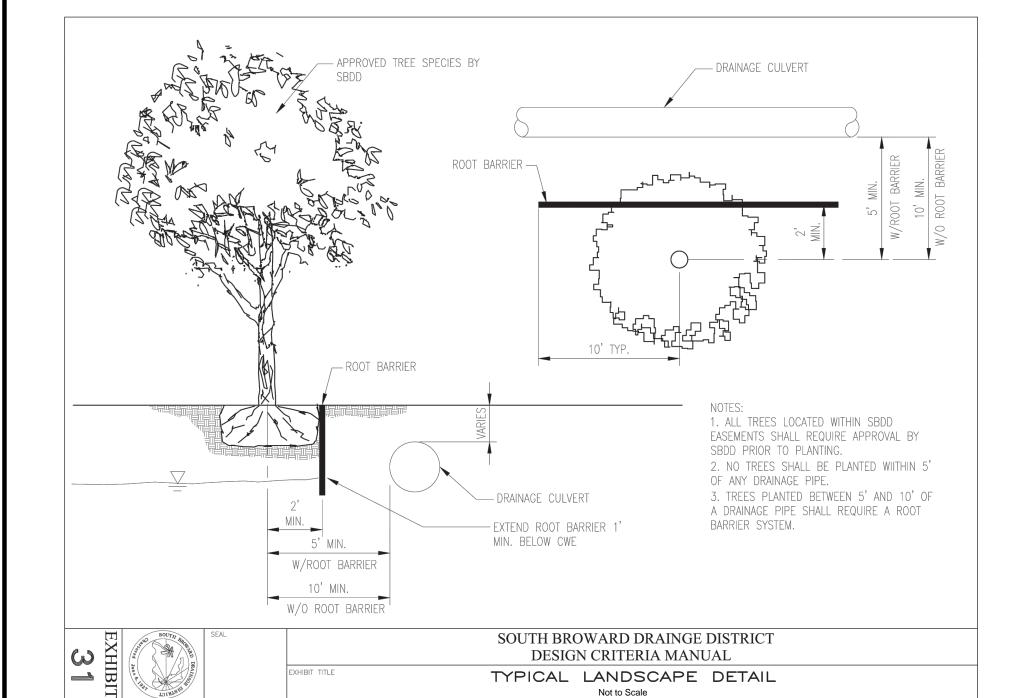
Name: Jeffrey W. Smith, RLA

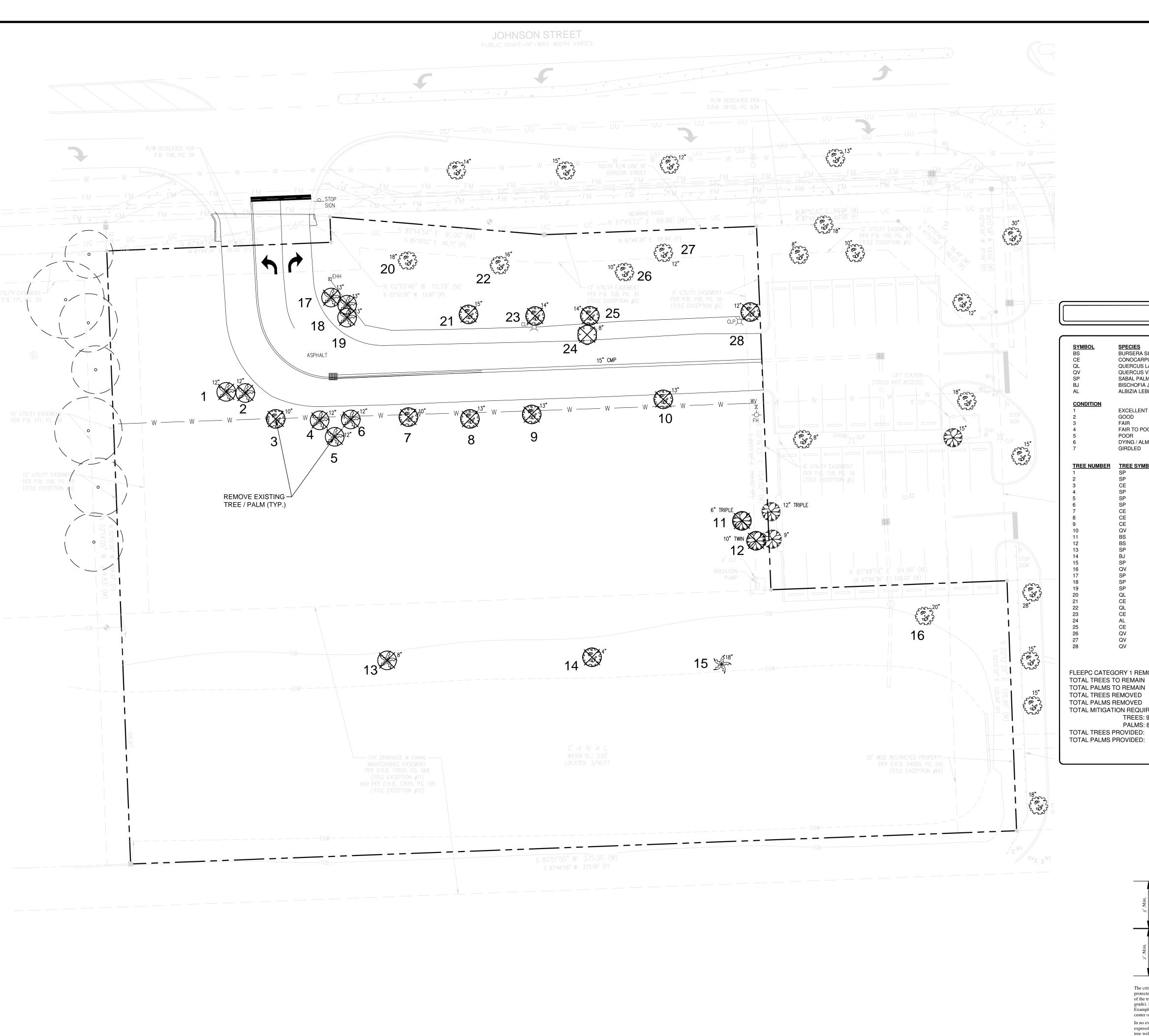
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8/21/2017	CITY COMMENTS & NEW BASE				
9/25/2017	CITY COMMENTS & NEW BASE				
10/17/2017	CITY COMMENTS & NEW BASE				
DATE	DESCRIPTION				
JWS	JS	JWS			
DESIGN	DRAWN	CHKD			
SCALE	AS SHOWN				
BOWMAN /CDG					

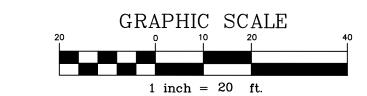
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SHEET L-2 OF 3









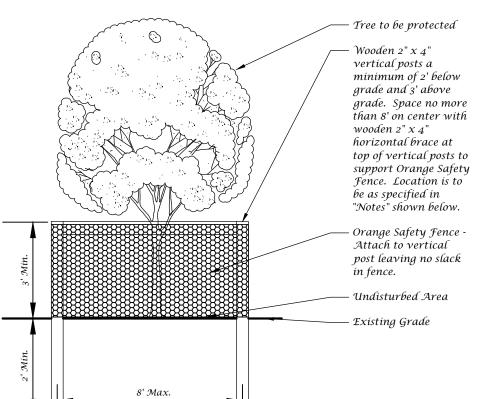
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MITIGATION DATA

	SYMBOL BS CE QL QV SP BJ AL	SPECIES BURSERA SIMAR CONOCARPUS E QUERCUS LAUR QUERCUS VIRGI SABAL PALMETT BISCHOFIA JAVA ALBIZIA LEBBEC	RECTUS IFOLIA NIANA O NICA	COMMON NA GUMBO LIMI GREEN BUT LAUREL OAK LIVE OAK SABAL PALM BISCHOFIA WOMAN'S TO	BO TONWOOD (E EPPC CATEGORY EPPC CATEGORY			
	CONDITION 1 2 3 4 5 6 7	EXCELLENT GOOD FAIR FAIR TO POOR POOR DYING / ALMOST GIRDLED	DEAD							
	TREE NUMBER 1 2	TREE SYMBOL SP SP	D.B.H. (INCHES)	HEIGHT (FEET)	SPREAD (FEET)	CLEAR TRUNK 14 16	CONDITION 3 3	RELOCATE (R) REMAIN (Y / N) N N	<u>NOTES</u> TRUNK DAMAGE TRUNK DAMAGE
	3 4 5 6	CE SP SP SP	10	25	20		16 14 16	5 3 3	N N N	TRUNK DAMAGE TRUNK DAMAGE TRUNK DAMAGE
	7 8 9 10 11	CE CE CE QV BS	10 13 13 13 5, 5, 6	25 25 30 30 25	20 20 20 25 20			5 5 5 3 5	N N N N	SPROUT SPROUT SPROUT LEANING TOP MISSING
	12 13 14 15	BS SP BJ SP	10, 10	30 12	30 12		5 12	2 3 2 2	N N N Y	
_	16 17 18 19 20	QV SP SP SP QL	18	35	35		18 20 18	2 5 5 5 2	Y	TRUNK DAMAGE TRUNK DAMAGE TRUNK DAMAGE
	21 22 23 24	CE QL CE AL	15 16 14 8	40 30 40 35 35	40 20 40 20 30			5 2 5 5	N Y N	
	25 26 27 28	CE QV QV QV	14 10 12 12	35 35 40 30	30 30 30 30			5 2 2 2	N Y Y	
	FLEEPC CATEG		ıL	2						
	TOTAL TREES T TOTAL PALMS T TOTAL TREES R TOTAL PALMS F TOTAL MITIGAT	O REMAIN REMOVED REMOVED ION REQUIRED		5 1 14 8	4					
	TOTAL TREES P				4 (TD) (SP)					



The critical root zone (CRZ) is an area around a tree that is regulated for the purpose of protecting the roots and trunk of a protected tree or a specimen tree, both during and after construction. It is a circular area using a radius measured from the center of the tree. The radius is calculated as one (1) foot of radius for each one (1) inch of diameter at breast height (4.5 feet above grade). For any fraction of a foot over a whole foot, the diameter at breast height will be rounded up to the next whole number. Example: a tree has a diameter at breast height of twenty-one and one-quarter (21 1/4) inches; the CRZ is a circle, centered on the center of the tree, with a radius of twenty-two (22) feet. In no event shall the CRZ be less than an area measured five (5) feet radially from the center of the tree at its base unless

expressly determined by the environmental planner and Landscape Architect that a smaller specified CRZ may be established. A tree well design shall be required as appropriate in cases when the placement of fill threatens the viability of a protected tree or specimen tree to be preserved.

During periods of development and construction, the areas within the drip-line of preserved trees shall be maintained at their original grade with pervious landscape material. Within these areas, there shall be no trenching or cutting of roots; no fill, compaction or removal of soil; and , no use of concrete, paint, chemicals or other foreign substances. All barricades must be maintained intact for the duration of construction.

Existing Tree Protection Barricade Detail

CENTER

OKE PINES MEDICAL
8100 JOHNSON ST
PEMBROKE PINES, FL 33024
OKE PINES

Seal :

OKE

PEMBR(

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Name: Jeffrey W. Smith, RLA License # : LA0001635

PLAN STATUS 3/21/2017 CITY COMMENTS & NEW BAS 9/25/2017 CITY COMMENTS & NEW BASE 0/17/2017 CITY COMMENTS & NEW BASE

DESCRIPTION JWS JS JWS DESIGN DRAWN CHKD SCALE AS SHOWN JOB No. BOWMAN / CDG 008916-01-002 / 17-0307

DATE 7/4/2017

SHEET L-3 OF 3