

Plant List Phase I

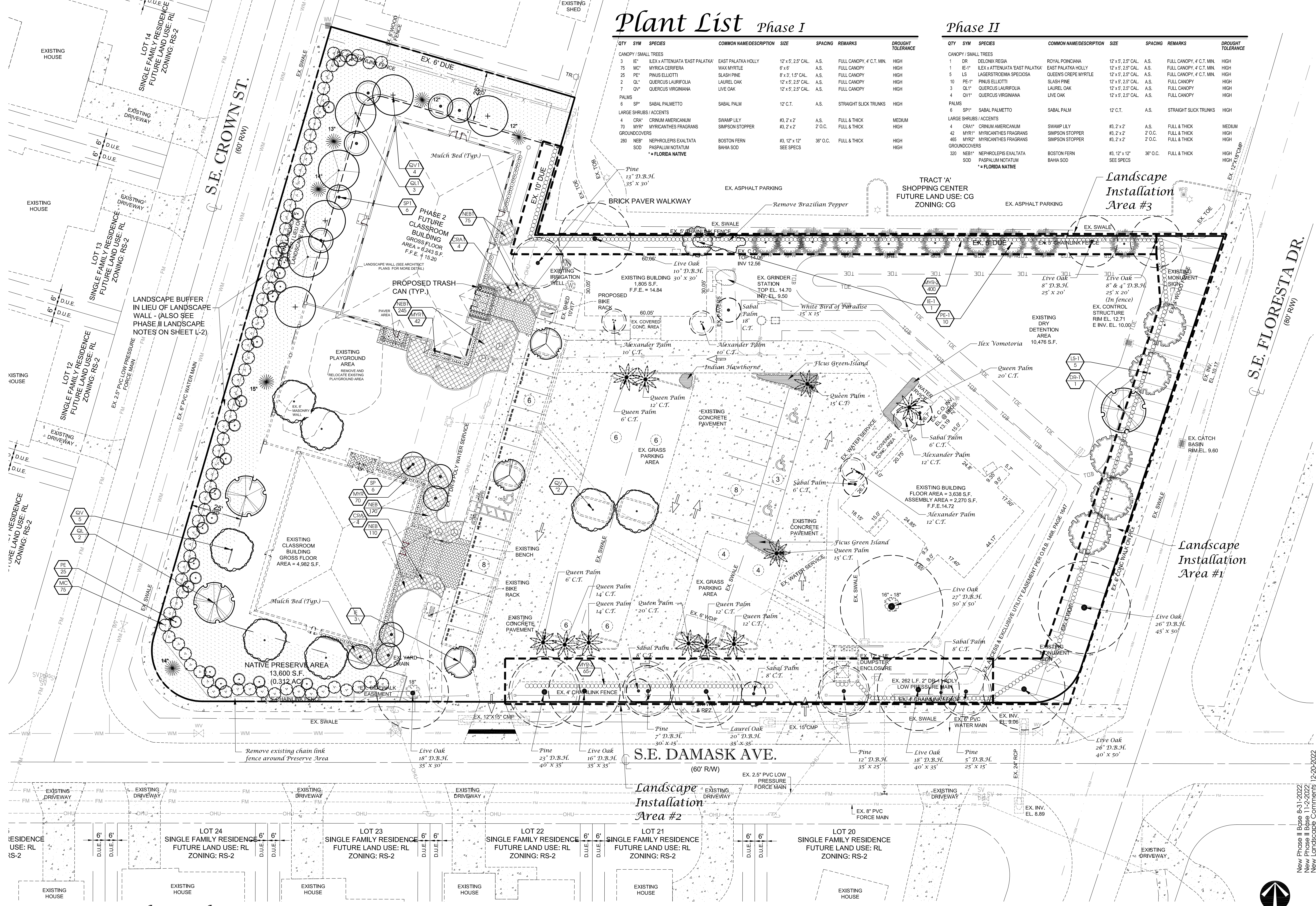
QTY	SYM	SPECIES	COMMON NAME/DESCRIPTION	SIZE	SPACING	REMARKS	DROUGHT TOLERANCE
3	IE*	LEX X ATTENUATA EAST PALATKA	EAST PALATKA HOLLY	12' x 5', 2.5' CAL.	A.S.	FULL CANOPY, 4' C.T. MIN.	HIGH
75	MC*	MYRTA CERIFERA	WAX MYRTLE	8' x 6'	A.S.	FULL CANOPY	HIGH
25	PC*	PINUS ELLIOTTI	SLASH PINE	8' x 3', 1.5' CAL.	A.S.	FULL CANOPY	HIGH
2	OL*	QUERCUS LAURIFOLIA	LAUREL OAK	12' x 5', 2.5' CAL.	A.S.	FULL CANOPY	HIGH
7	QV*	QUERCUS VIRGINIANA	LIVE OAK	12' x 5', 2.5' CAL.	A.S.	FULL CANOPY	HIGH
6	SP*	SABAL PALMETTO	SABAL PALM	12' C.T.	A.S.	STRAIGHT SLICK TRUNKS	HIGH
LARGE SHRUBS / ACCENTS							
4	CRA*	CRINUM AMERICANUM	SWAMP LILY	#3, 2' x 2'	A.S.	FULL & THICK	MEDIUM
4	MYR*	MYRICANTHES FRAGRANS	SIMPSON STOPPER	#3, 2' x 2'	2 O.C.	FULL & THICK	HIGH
280	NEB*	NEPHROLEPIS EXALTATA	BOSTON FERN	#3, 12' x 12'	36" O.C.	FULL & THICK	HIGH
	SOD	PASPALUM NOTATUM	BAHIA SOD	SEE SPECS			HIGH

* FLORIDA NATIVE

Phase II

QTY	SYM	SPECIES	COMMON NAME/DESCRIPTION	SIZE	SPACING	REMARKS	DROUGHT TOLERANCE
1	DR	DELONIX REGIA	ROYAL POINCIANA	12' x 5', 2.5' CAL.	A.S.	FULL CANOPY, 4' C.T. MIN.	HIGH
1	IE-1*	LEX X ATTENUATA EAST PALATKA	EAST PALATKA HOLLY	12' x 5', 2.5' CAL.	A.S.	FULL CANOPY, 4' C.T. MIN.	HIGH
5	LS	LAGERSTROMIA SPECIOSA	QUEENS CREEP MYRTLE	12' x 5', 2.5' CAL.	A.S.	FULL CANOPY, 4' C.T. MIN.	HIGH
10	PE-1*	PINUS ELLIOTTI	SLASH PINE	12' x 5', 2.5' CAL.	A.S.	FULL CANOPY	HIGH
3	OL-1*	QUERCUS LAURIFOLIA	LAUREL OAK	12' x 5', 2.5' CAL.	A.S.	FULL CANOPY	HIGH
4	QV-1*	QUERCUS VIRGINIANA	LIVE OAK	12' x 5', 2.5' CAL.	A.S.	FULL CANOPY	HIGH
6	SP-1*	SABAL PALMETTO	SABAL PALM	12' C.T.	A.S.	STRAIGHT SLICK TRUNKS	HIGH
LARGE SHRUBS / ACCENTS							
4	CRA-1*	CRINUM AMERICANUM	SWAMP LILY	#3, 2' x 2'	A.S.	FULL & THICK	MEDIUM
4	MYR-1*	MYRICANTHES FRAGRANS	SIMPSON STOPPER	#3, 2' x 2'	2 O.C.	FULL & THICK	HIGH
465	MYR-2*	MYRICANTHES FRAGRANS	SIMPSON STOPPER	#3, 2' x 2'	2 O.C.	FULL & THICK	HIGH
320	NEB-1*	NEPHROLEPIS EXALTATA	BOSTON FERN	#3, 12' x 12'	36" O.C.	FULL & THICK	HIGH
	SOD	PASPALUM NOTATUM	BAHIA SOD	SEE SPECS			HIGH

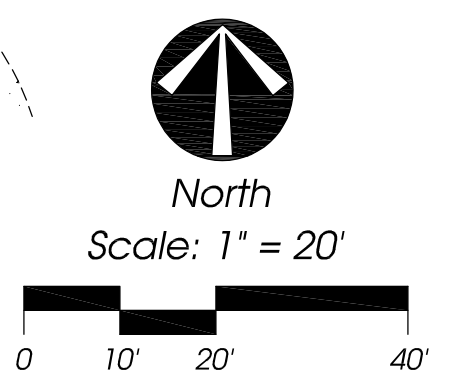
* FLORIDA NATIVE



Landscape Phasing

Landscape Installation Area #1 - will be installed within 4 months of date of Certification of Occupancy.
Landscape Installation Area #2 - will be installed within 8 months of date of Certification of Occupancy.
Landscape Installation Area #3 - will be installed within 12 months of date of Certification of Occupancy.

Landscape Plan



Jeffrey W. Smith, RLA
Florida Registration Number: LA 0001635

Job No.	14-0702
Drawn By	JWS
Submission Dates	8-27-2014 9-10-2014 9-17-2014
	11-13-2014 12-17-2014 8-31-2022
	11-2-2022 12-20-2022 1-12-2023
Revision Dates	8/12 City Comments 8-27-2014
	City Comments 9-10-2014
	City Comments 9-17-2014
	Client Comments 11-13-2014
	City Comments 12-17-2014

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Sheet L-1 of 2
PSL/SD Number: 11-371-00
City Project Number: 174-148-A1

Landscape Specifications

- 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.
- Underlying 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.
- 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.
- 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.
- The contractor shall verify the location of underground utilities prior to commencing work on any project area.
- Mulch planting areas with 3" layer of Melaleuca, Eucalyptus, or Enviro-mulch. Cypress Mulch is NOT ACCEPTABLE. Planting beds to receive mulch throughout entire bed area.
- 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.
- 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 backfill and before installing mulch.
- Guy and stake trees in 3 directions with galvanized wire, through flexible hose chaffing guards, with wooden stake anchors immediately after planting. (See Detail)
- 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 16-8-8 (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 insoluble or slow release.

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

Agrifon 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 & 888 Trees 2 per 1" caliper

11. All planting areas and sod to be irrigated to provide 100% coverage. Shop drawings to be submitted by the irrigation contractor for approval prior to installation.

12. 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 needed 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 City and project is released by the General Contractor to Client.

13. Prune trees and shrubs only to remove damaged branches as directed by the Landscape Architect.

14. Planting Lawns: Provide clean, strongly rooted, uniformly sized strips of Stenotaphrum secundatum Floritum (unless otherwise noted), 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.

- 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 coarse gravel to the drainage channel. Also, care must be taken to keep the consistency of the soil mix the same throughout the planting pit.

NOTE: Contractor to include drainage testing for all trees and palms in bid. If drainage is inadequate, the soil specification in item #8 above shall be revised for site conditions. Contractor shall notify the Owner and Landscape Architect of poor drainage conditions in writing and written direction will be provided to the contractor of appropriate soil mixture specification to be used.

Port St. Lucie Utility Systems Department Notes

- No landscaping shall be planted in such a manner as to adversely affect drainage or utility easements.
- Trees with a maximum mature height below overhead power lines shall not be planted below overhead power lines. Such trees with a maximum mature height less than the height of the overhead power line shall be selected from Appendix C, Table 1, Type B Trees. No tree shall be planted within 10 feet of any existing utility pole, guy wire, or pad mounted transformer (See FPA&L publication "Plant the Right Tree in the Right Place" for placement and maintenance requirements.).
- All landscaping within Port St. Lucie Utility (PSLUSD) utility easements shall comply with PSLUSD technical specifications, policies, and codes.
- Trees shall not be planted within ten (10) feet of any PSLUSD underground infrastructure.
- In locations where the perimeter landscape buffers must be designed to site constraints, the trees, palm trees and shrubs shall be selected from the list in §153.04(B)(3)(d) and used in these areas to meet the landscape buffer requirements. Trees and palm trees may be planted not less than seven (7) feet from the underground PSLUSD infrastructure. The remainder of the landscape strip shall be planted with grass and ground cover.

Port St. Lucie Engineering Department Notes

- The landscape plans meet the City's sight distance and clear zone requirements from Section 158.204 of the Code for 10' requirements.

General Notes

- All utility boxes and structures, not currently known or shown on the plan, shall be screened with Cocoplum plants on three (3) slides.
- Contractor to include drainage testing for all trees and palms in bid. If drainage is inadequate and the soil specification in item #8 (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.
- All prohibited, exotic and invasive species shall be removed from the entire site prior to issuance of certificate of occupancy.
- All planting areas, except preserve area, to be irrigated to provide 100% coverage and provide adequate irrigation 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.
- The irrigation system shall be continuously maintained in working order.
- All required landscape improvements must be inspected and approved by the City of Port St. Lucie prior to the Issuance of a Certificate of Occupancy.
- 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".
- Planting adjacent to fire hydrants is to have a minimum clear radius of 7.5' as required by the NFPA Uniform Fire Code Florida Edition 18.3.4.1 Hydrants and PBCWUD standards.
- No plant substitutions can be made without Owner's and City of Port St. Lucie's approval.
- Any existing landscaping or irrigation damaged or destroyed during the construction shall be replaced prior to the final inspection.
- An automatic Rain sensor shall be placed on-site as part of the required irrigation system.

Landscape Data

153.04(J)(2) Parking Area Interior Landscaping

Required Terminal/Interior Island Trees - 1 Tree per Terminal/Interior Island = 5 Trees
Total Terminal/Interior Island Trees Provided = 5 Trees

153.04(D)(7)(e) Palm Requirements

Required : No more than 25% of required trees may be palms
Total Trees (Including Palms @ 2:1) = 125 (100%)
Trees = 119
Total Palms = 12
Provided: Palms = 12 / 119 = 10%

153.04(D)(7)(e) Native Plants

Trees:
Required: 50% of all required trees shall be native
Total Trees = 150
Provided: Native Trees = 144 / 150 = 96%

Shrubs:
Required: 25% of all required shrubs shall be native
Total Shrubs = 1,177
Provided: Native Shrubs = 1,177 = 100%

153.04(D)(7)(g) Landscape Island Evergreen Shade Trees

Required: 75% of all required trees located within landscape islands shall be evergreen shade trees
Total Landscape Islands = 5 x 75% = 4 Trees
Provided: Landscape Islands with Evergreen Shade Trees = 5 = 100%

153.04(D)(7)(h) Tree Species Mix

Required: When 41 or more trees are required the minimum species mix = 5
Provided: 5

Perimeter Landscaping Adjacent to Another Property (North, South & East Buffers)

Trees
Required: (1 Tree/30 L.F.) - 930 L.F./30 = 31 Trees
Provided: 31 Trees (14 Existing + 11 Planted)

Shrubs

Required: Continuous Hedge 2' O.C. = 465 Shrubs
Provided: 465 Shrubs

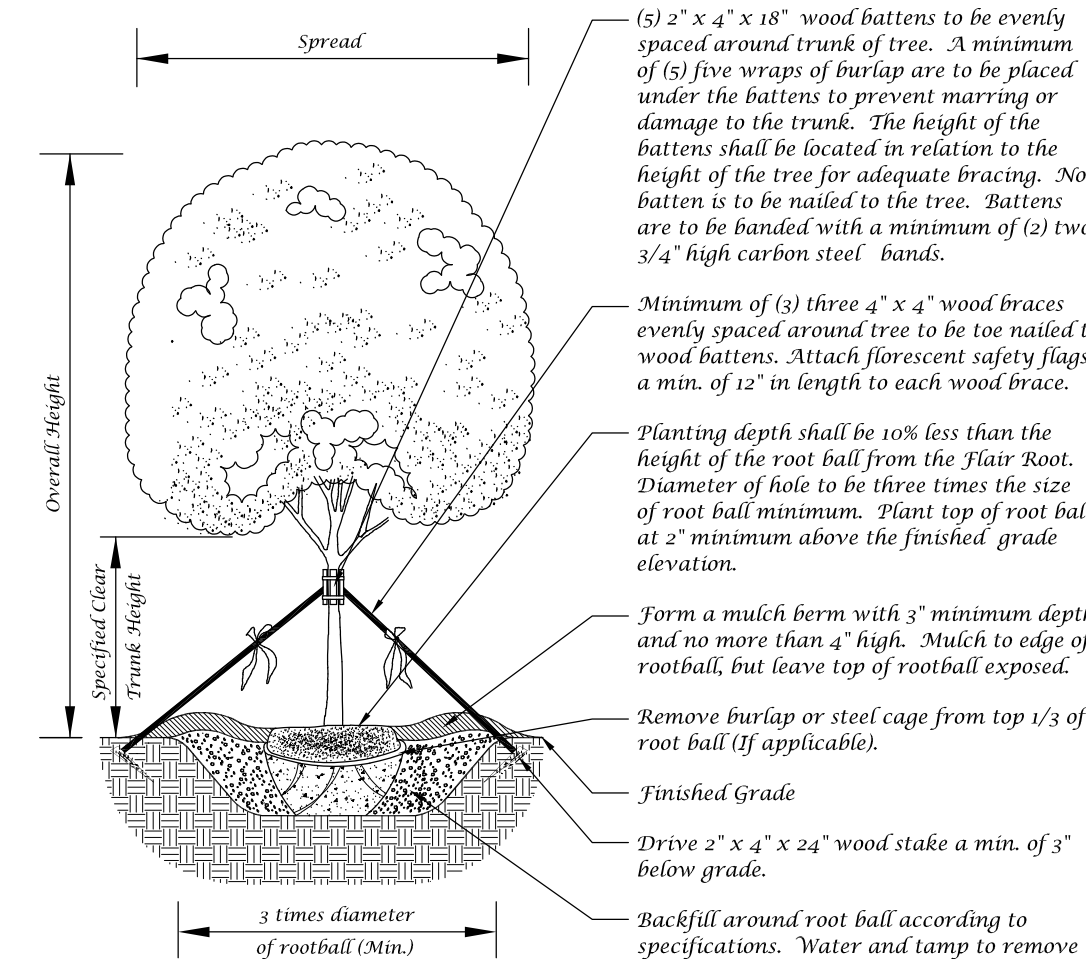
Phase 2 Landscape Notes

- The contractor shall barricade the existing upland buffer from any Phase 2 construction activity. Reference barricade detail shown on this sheet.
- All landscaping on the previously approved landscape plan that was not planted, including shrubs and trees proposed in lieu of the wall or fence requirement that was previously waived, shall be planted as part of Phase 2 requirements. If any plantings have not been completed, these plantings together with Phase 2 foundation landscaping, shall be completed prior to any building permit issuance.
- Where gaps exist in the native buffer along Crown Street, the Landscape Contractor shall plant additional Wax Myrtle to fill the voids. Use the Wax Myrtle sizes specified in the Phase I Plant List.
- Where Brazilian Pepper has invaded the native buffer, the Contractor shall remove and replace with Wax Myrtle (see Phase I Plant List) to restore the native buffer.

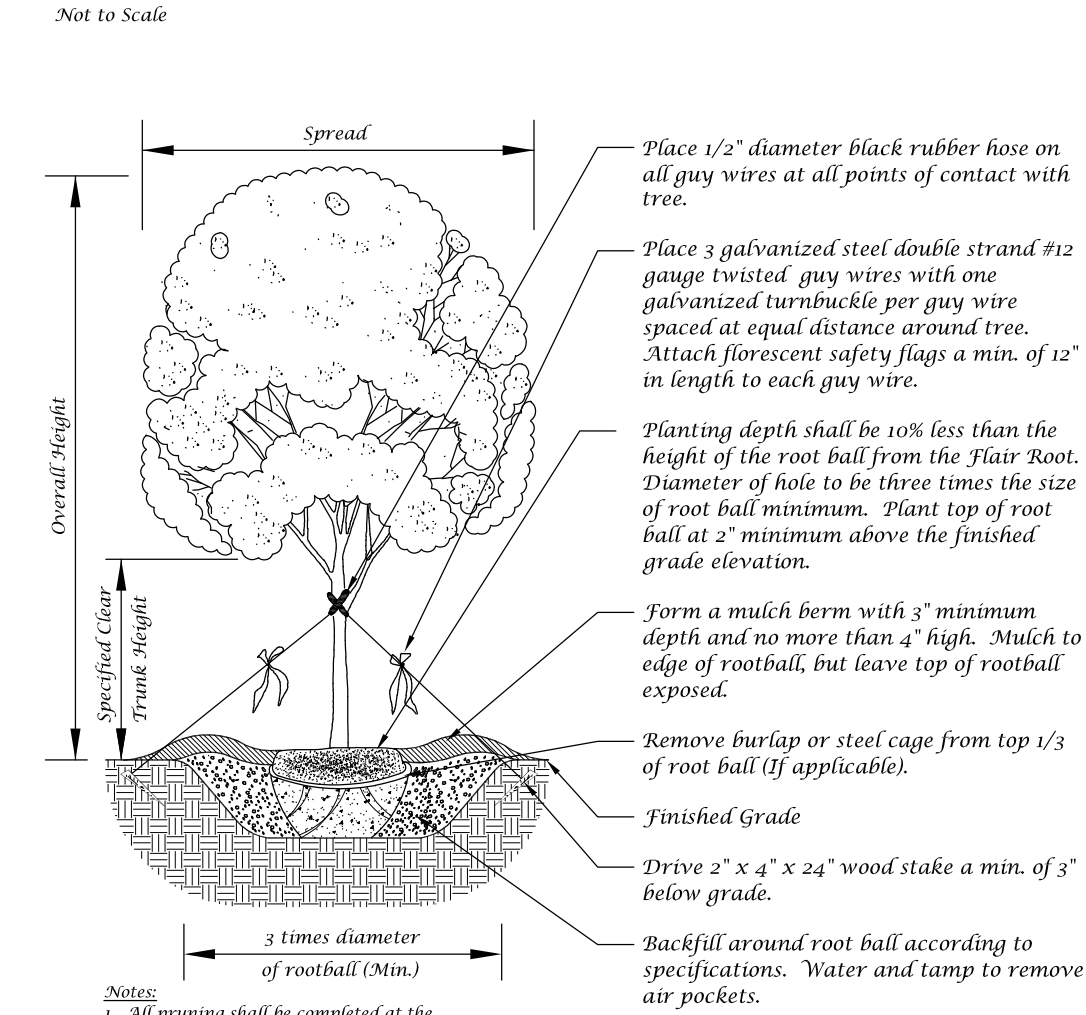
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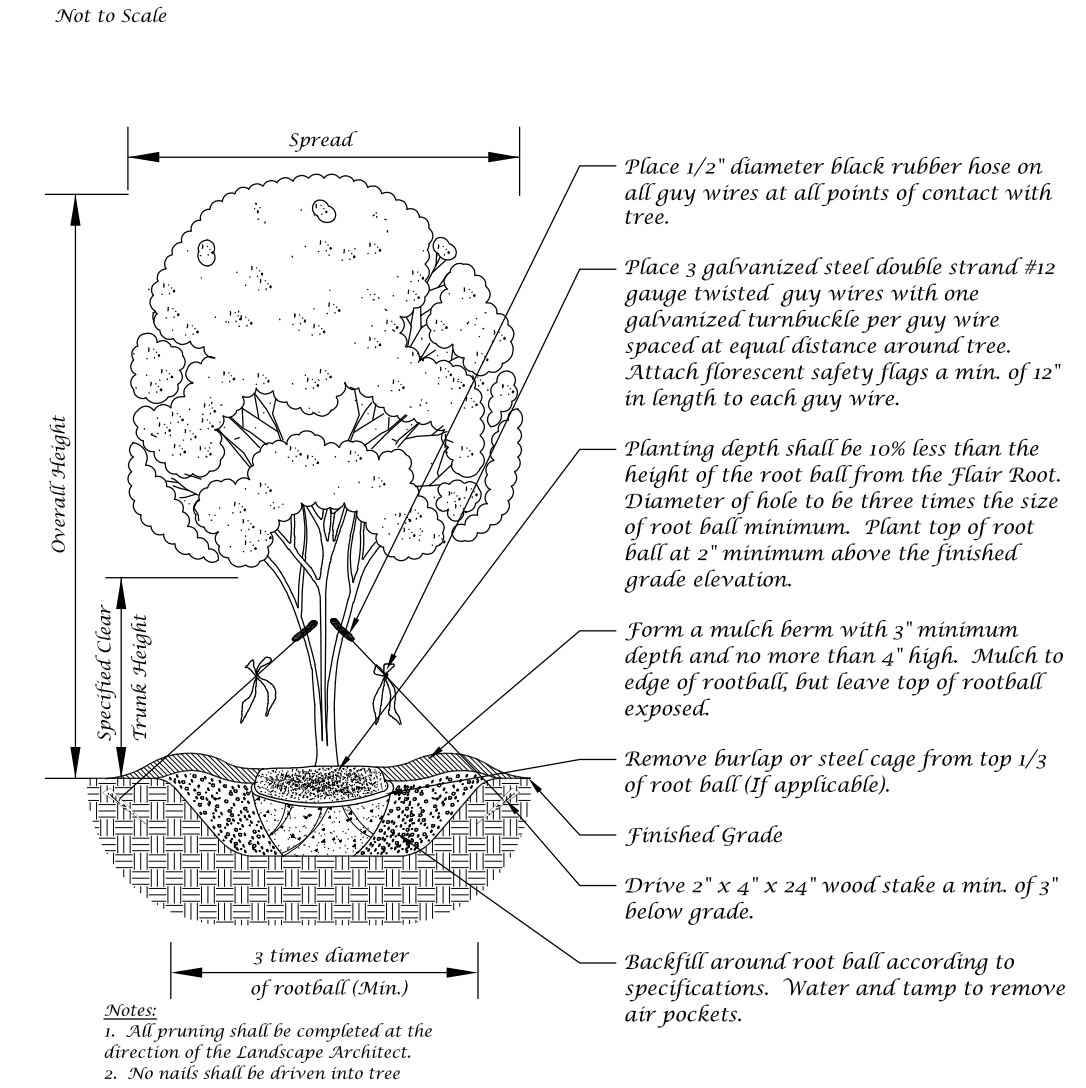
Landscape Details



Large Tree Planting Detail (5" Caliper or Greater)

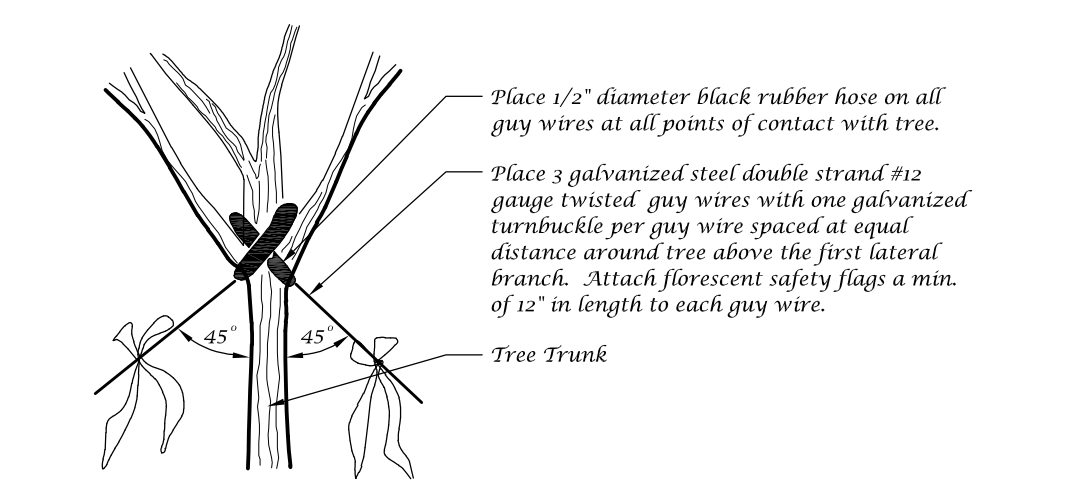


Tree Planting Detail



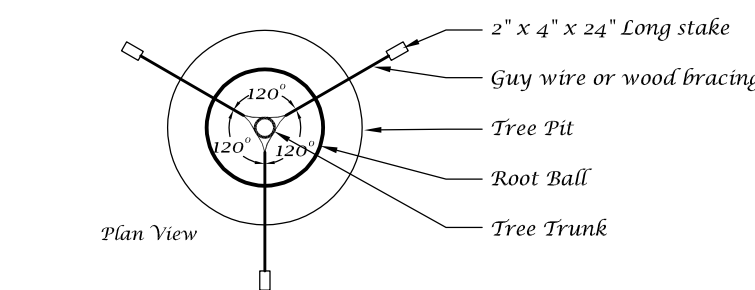
Multi-Trunk Tree Planting Detail

Not to Scale



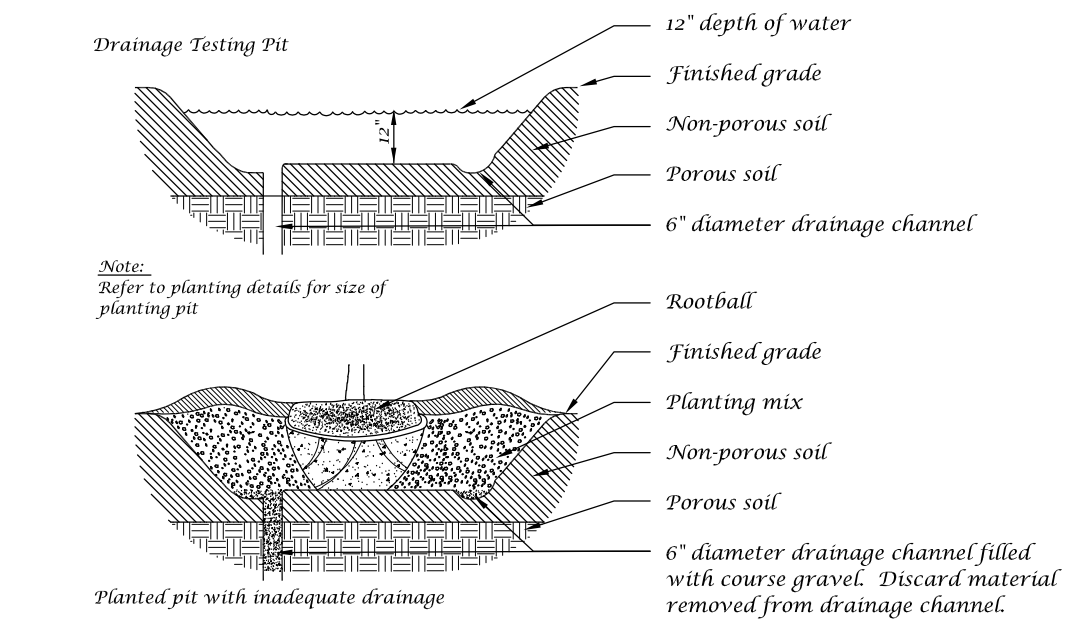
Guy Wire Attachment Detail

Not to Scale



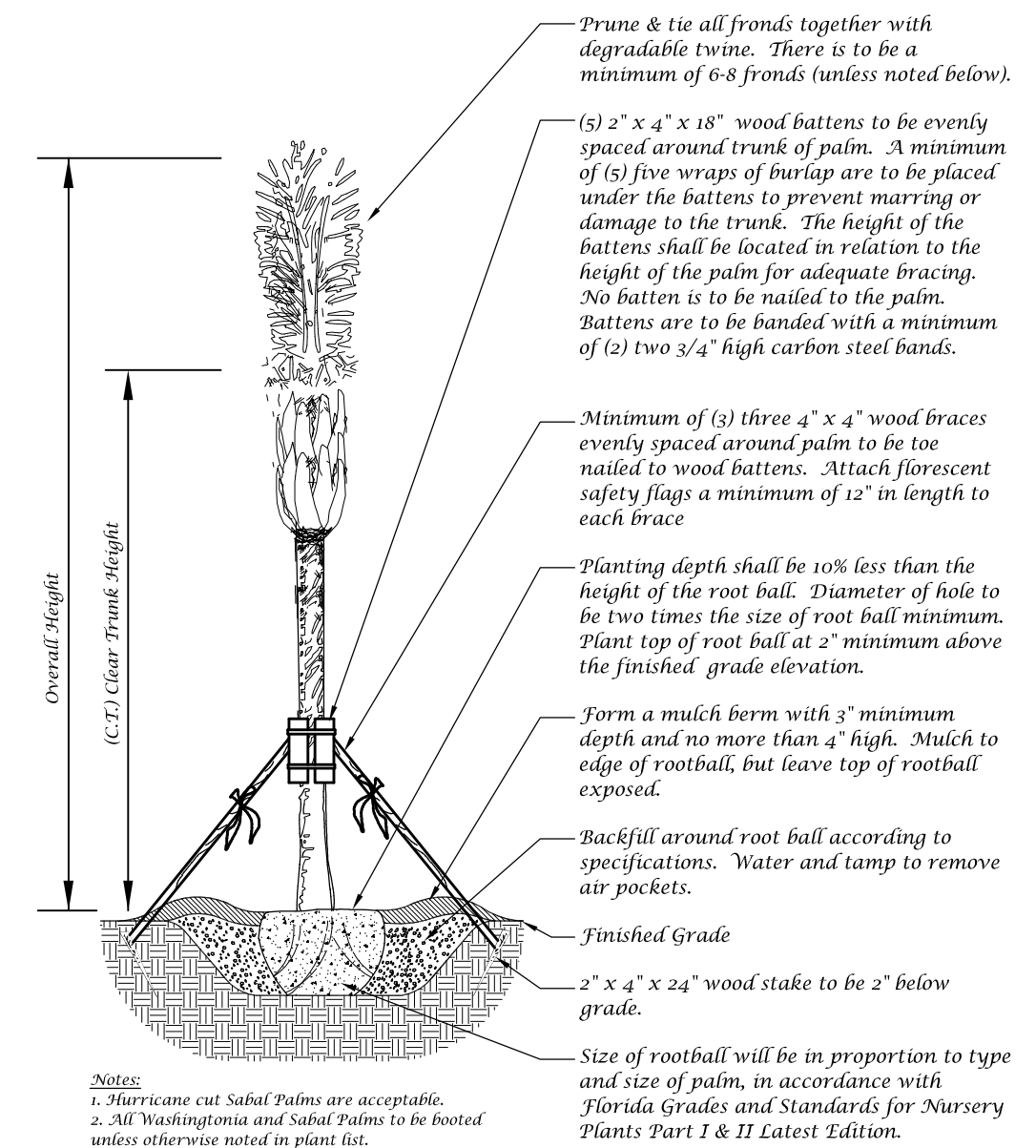
Staking Detail

Not to Scale



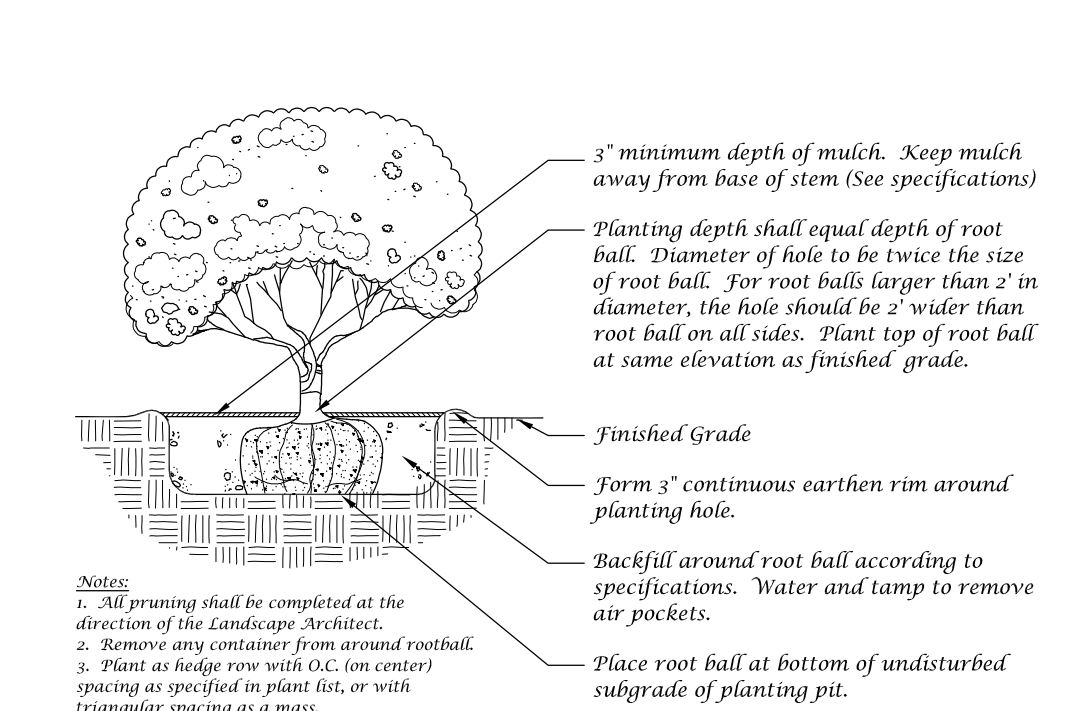
Drainage Testing Detail

Not to Scale



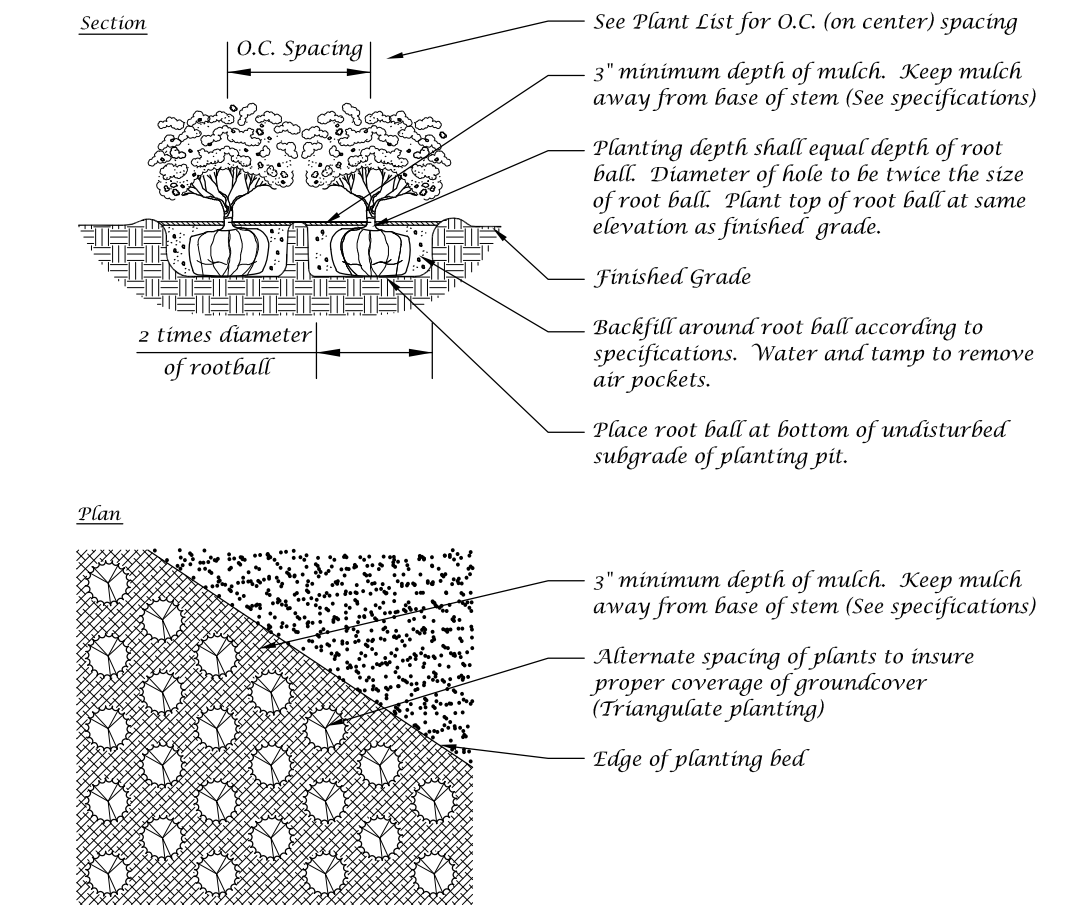
Palm Planting Detail

Not to Scale



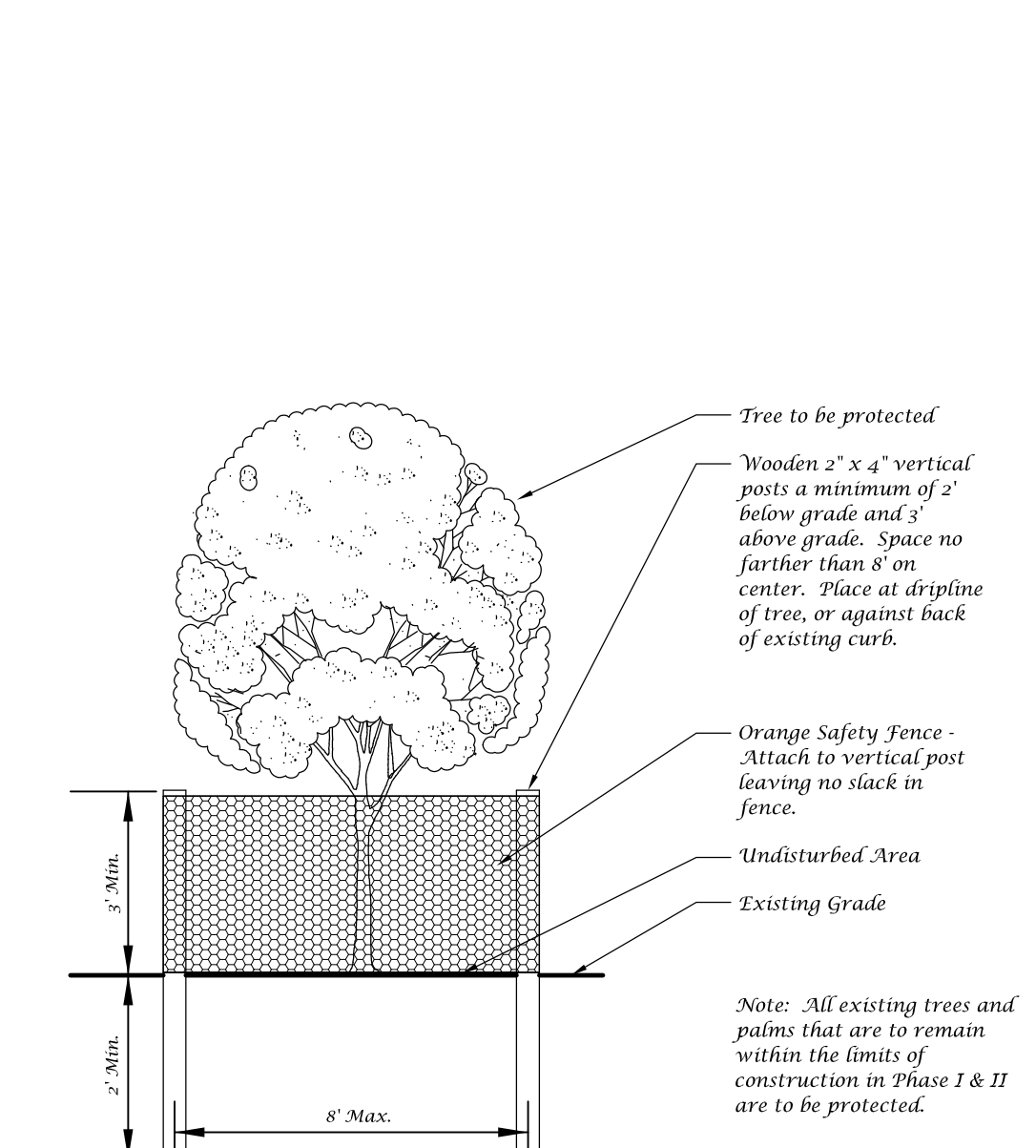
Shrub Detail

Not to Scale



Ground Cover Detail

Not to Scale



Existing Tree Protection Barricade Detail

Not to Scale

Conceptual Design Group, Inc.

Landscape Architecture - Site Planning

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Stuart, Florida 34994
(772) 344-2340
LC: 26000198

Christ Lutheran Church

City of Port St. Lucie, Florida

City Project Number: P14-148-AI

Jeffrey W. Smith, RLA
Florida Registration Number:
LA 0001635

Job No. 14-0702
Drawn By JWS
Submit Dates 7-14-2014
8-27-2014 9-10-2014 9-17-2014
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Sheet L-2 of 2

PSLUSD Number: 11-371-00
City Project Number: P14-148-AI

New Phase II Base 8-31-2022
New Phase II Base 11-2-2022
New Landscape Comments 12-20-2022
Landscape Phasing 1-12-2023

Landscape Plan