

**Required Tree Credits:** # of Species Flowering% Drought Tolerant% Palm% Site Perimeter: 41\* Parking Lot Terminal Islands: 10 Total: 51 50%=26 20%=11 50%=26 25%=13 (Max)

<sup>\*</sup>Required trees along western perimeter are located at other locations around the site to avoid conflicts with utilities.

Provided Tree Credits:		Native	# of Species	Flowering	Drought Toleran	t Palm
Total:	51	41	5	11	41	13

Required Shrub Credi	ts:	Native	Drought Toleran	t
Site Perimeter: (1,210'/2)	605	25%=152	50%=303	

Provided Shrub Credits:		Native	Drought Tolera	nt
Total:	627	502	502	

Required Groundcove	r Credits:	Native%	Flower%	Drought Toleran	t%
(1,210'x10'x.25)	3,025 SF	25%=757 SF	10%=303 SF	50%=1,513 SF	] :

Provided Groundcov	er Credits:	Native	Flowering	Drought Tolerant
Total:	3,025 SF	1,750 SF	3,025 SF	1,750 SF

### Maximum Lawn Area:

Required Landscape Areas: 14,440x.50 = 7,220 Maximum Lawn Area Provided Lawn Areas: 6,650 Lawn Area

### **PSLUSD Notes for Landscape Plans**

- No landscaping shall be planted in a manner that would adversely affect utilely essements. Landscaping shall be in compliance with Chapter 154 of the City of Post St. Landscaping shall be in compliance with Chapter 154 of the City of Post St. Landscape (Adminance, PSLUS) beaching apportion of the City of Post Chapter 154 of Landscape (Administry of Landscape) and the complex statement aspectifications, policies, and cooking a contraction of the City of Landscape Policy and shall not be placed in a manner that would create conflicts with the intended operation and maintenance of any existing utility. Traces shall not be placed within 5 of a 10 placed complex of the City of the City

### General Landscape Notes

- At least 50% of all required trees shall be of a native species.
- 2. All plant material to be Florida No. 1 or better.
- All landscape & sod areas to be irrigated by an automated system that provides 100% coverage with 100% overlap with a minimum d.u. of .70.
- 4. All landscaping at intersection and comers complies with Section 198,204 of the Port St Lucie Code of Ordinances to provide a clear sight zone between 2 68 above the final rand crosm oliveration. All hedges and shrubs with in the 25 sight traingle will be maintained at a height to higher than 2 above the cover elevation of the roads. In addition, the foliage line say tree within the 25 sight traingle will maintained at a height of no less than 6° above the road crown.

## Plant Schedule:

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	<u>HEIGHT</u>	WIDTH	NOTES	NATIVE	CALIPER
TREES										
	CTE	22	Conocarpus erectus	Green Buttonwood	45G	12` HT	6'W	STD, 5 'CT, SP	Native	2.5" Caliper
0	ICC	3	llex cassine	Dahoon Holly	45G	12° HT	5'W	STD, 5 'CT, SP	Native	2.5" Caliper
	MBD	11	Magnolia grandiflora 'D.D. Blanchard'	D.D Blanchard Southern Magnolia	65G	12° HT	8'W	5" CT, SP	Native	2.5 Caliper
	QV	2	Quercus virginiana	Southern Live Oak	45G	12" HT	6.M	F, SP, 6° CT	Native	2.5" Caliper

PALM TRE	ES								
€.}	CP	26	Sabal palmetto	Sabal Palm	FG	10'-18' CT		SLK, HC, SP	Native
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	HEIGHT	WIDTH	NOTES	NATIVE
SHRUBS									
$\odot$	CHM	502	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	3G	24" HT	24*W	F, SP	Native
$\odot$	HCA	14	Hamelia patens 'Compacta'	Dwarf Firebush	3G	24" HT	18 <b>"</b> W	F	Non-native
$\oplus$	MFF	125	Myrcianthes fragrans	Simpson's Stopper	3G	24" HT	24"W	F	Native
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	HEIGHT	<u>WIDTH</u>	NOTES	NATIVE
GROUND (	COVERS								
	MCF	1,750 SF	Muhlenbergia capillaris	Pink Muhly Grass	1G	18"HT	12"W	F	Native
	RAD	1,275 SF	Rhaphiolepis indica 'Alba'	Dwarf White Indian Hawthorn	3G	12"HT	18" W	F	Non-native
000									

### Sheet Index:

Landscape Plan, Calculations, & Plant List	LS-1
Landscape Details & Specifications	I S-2

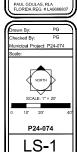
6,650 sf Paspalum notatum



# HKA WAREHOUSE 2095 Commerce Lakes Drive Port St. Lucie, FL Landscape Plan

=	Revision	16
Date	Init.	Description
05.02.24	PG	Landscape Plan
06.03.24	PG	Revised per Site Plan
07,11,24	PG	Revised per Comments
l		







### LANDSCAPE SPECIFICATIONS:

- 18 SCUPE: The landscape contract includes the supplying and planning of all trees, shrubs, vines, and ground cover together with all necessary lator, equipment, lods and materials needed for the successful complation, association and maintenance of the landscape plans.
- 2. ACENCY STANDARDS: Grades and standards of plant materials to be used shall be true to name, sice, condition and graded Plantin 41 or better as stated in: Grades and Standards of Florida Plant Materials published by the State of Florida Department of Agriculture, Tallahassee, Florida.
- 3.00 STE EXPRESSION.
  3.10 STE EXPRESSION is required to the processing various to the life and byty proposit similar being at the state of the procession of the procession of the state of the procession of the procesi
- 1.04 ERRORS AND OMISSIONS:
  A. The plant let is a put of the coverings and is furnished as a convenience. The plant let in additionable the ranes, size and purpties of specific plant materials as called for and is bound on the covering. The Landscape Contractor's responsible for halve one quantity count, and any discipancy between deavings and plant list after be considered as covered on the dealings.
- 8. The Landwcape Contractor shall not take advantage of errors or contestions in the sportfoliations or contest densings. Full instruction will be given if such innova endocrated coloranced, Upon the discovered of upon densioned or consistent from the densings or counterts, or should the Landscape Contractor for individuals to their materials, the Landscape Authorities of their consistent of the discoverage Authorities of the consistent of the discoverage by contractor and upon the consistent of the discoverage by contractor and upon.
- C. If plans and specifications are found to disagree after the contract is awarded, the Landscape Architect shall be the judge as to which was intended.
- 56 EXECUTION OF THE WORK: The Landscape Contractor shall have his labor crews controlled and directed by a Foreran well versed in plant materials, planting methods, resating fluorphits, and coordination between pits and cursery in order to execute installation correctly and in a timely manner.
- The Landscape Continuous shall provide a competent English-speaking Foreman on the project at all three, who shall be killy authorized as the Contracture agent on the work. The Sepretimendent shall be copable of reading and friencingly in the Plans. Specification and other Contract Documents, if the Superimendent is determed incomplating by the Landscape Architics, he plan superimendent shall be immediately implicated.
- C. The Landscape Contractor shall be available for any meetings with the Owner and/or Landscape Architect during implementation of the job. Any additional work or changes required as a result of industry to communicate with the Owner or Landscape Architect during implementation will be the responsibility of the Landscape Contractor.
- 1.08 PROTECTION OF PUBLIC AND PROPERTY:

  A. The Landscape Controlor shall protect at materials and work against hijnry from any cause and shall provide and materials an anosay adequated for the protection of the public. He shall be had responsible for any dumage or lighry to persons or property which may occur as a result of the fault or neighborne in the description of the work, it is directly to interpropriate for a collable.
- 7. CHANGES AND EXTRAS: The Contracor shall not start work on any changes or "extras" in the project until a written agreement entire joint this adjusted prices here been executed by the Owner and the Contractor, Any work performed on changes or "extras" both to resecution of a written agreement may or may ratio to compensation for by the Owner of the disorder.
- G BULLANDER:

  The Landence Control and I (smoth a vallet) generate according all matter day, sectionarily the Landence Control and Landence Landenc
- CARE AND MAINTENANCE:
   The Landecape Contractor shall be responsible for the case and maintenance of all plant materials and ministrolin when applicable until final acceptance by the Owner or Landscape Architect.
- B. The Owner agrees to execute the instructions for such care and maintenance.
- It shall be the contractor's responsibility to conform to all local, state, and federal safety laws and codes including the Federal Occupational Safety And Health Act (C.S.H.A.).

- DONTRACTOR GUAL FIGATION:
  The Owner may require the agreem contrision (s) to quality himbened to be a responsible enemity by furnishing any or off of the following documentary care:

  A listing of the list in this (3) completed prospects of similar scope and nature.

  Permanent man an advantes of [spon of business.

  The muster of require enemity present the organization and frequire of time the organization such enemits of the present nature.
- 1.12 INSURANCE AND BONDING:

  A. The contractor (s) shall activate proof of houseasts for this jab for the time period that the sock is contracted by the state of the sock is the SIGN 000,000 per person and SIGN 000,000 per agreeped on the secondary contract and appeals to the occurred.

  The successful bidder shall be required to have this coverage in effect before beginning work on the side.
- The Owner shall have the right to require the Contractor to furnish bonds covering faithful performance of the Contract and payment obligations arising thereunder as stiputated in bidding requirements or specifically required in the Contract.
   Documents on the older of recordant of the Contract.
- 1.13 PERMITS AND CERTIFICATES:
   A. All contractors shall secure and pay for all permits and certificates required for his/her class of work.
- PART 2: MATERIALS
- PLANT MATURIALS:
   A complete fair of plants is shown on the drawings, including a schedule of quantities, steps, and such other requirements deemed necessary. In the event discrepancies occur, the specifications on the drawings shall govern.
- Substitutions: Substitutions of plant materials or changes in size or spacing of materials will be permitted ONX\* (soon written authorization by the Onevo or the Landscape materials will be permitted ONX\* (soon written authorization by the Onevo or the Landscape for the proposation againery must be obtained by the Octavitor plant to Exercise of any change coner. I misserial of materials race in to be accepted, the questity of misserial shall be increased, at no additional costs to the Onever. In error the thesis of the indewige.
- C. All plant materials shall have a habit of growth that is normal for the species and shall be healthy vigorous and equal to or exceed the measurements specified in the plant liet, which are the minimum acceptable sizes. Plants shall be measured before portionly with tranches in normal position. Any necessary pruning shall be done at the time of planting.
- E. Plants that do not have the normal balance of height and spread typical for the respective plant shall not be acceptable.
- F. The Landscape Contractor shall install each plant to display its best side. Adjustments may be required if plants are not installed properly and/or approved by the Landscape Adjustment or produced to produce the contract of the cont

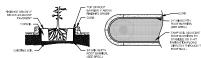
- PROTECTION OF PLANT MATERIALS: Bailed and budgeped plant (8 & 8) shall be dug with firm natural bails of earth of sufficient dismater and dught is encourageaut for Brooss and Nedling root system necessary for full recovery of the plant. Balls shall be firmly weapped with budge similar materials and bound with cord, ope, or whe meth. All collected plants shall be blind and budgeed.
- B. Plants with broken, damaged or insufficient rootballs will be rejected.
- C. All plant material shall be protected from possible bank injury or breakage of branches. All plants transported by open trucks shall be adequately covered to prevent windburn, drying or damage to plants.
- D. Plants which cannot be planted immediately on delivery to the size shall be covered with mois soil, mutch or other protection from the dying of wind and sun. All plants shall be watered as necessary by the Landscape Contractor with District.
- 2.04 STORAGE:
  A. All plant materials shall be stored on the site in designated areas, specified by the Landscape Architect or Owner's agent.
- No plant material shall be stored larger than seventy-two (72) hours unless approved by by Landscape Architect and/or owner.
- The Landscape Architect reserves the right to reject any plant materials not in conformance with these specifications.
- All rejected material shall be immediately removed from the site and replaced with acceptable material at no cost to the Owner.
- 2.05 PROTECTION DURING PLANTING: A Trees moved by which or crane shall be thoroughly protected from chain marks, girding or bank stippage by means of burlap, wood batters or other approved methods. Batters shall NOT be attached to the now with sold.
- J. PLANTING SOIL.
  Planting sold for all plantings shall consist of existing native soil and shall be free of debte, roots, developed the planting or other breign materials which might be a hindrance to planting operators or be distributed to good growth.
- 2.07 FERTILIZER
  A Commercial field are shall comply with the state lett fixer laws, Nimogen shall not be less than
  4% Error algretic source, Inorganic chambiol integers shall not be almost from the sout too form
  4% Error algretic source, inorganic chambiol integers shall not look and only the commercial source of the sounce of the sounc
- B. Thoroughly mixed 3 bs. of commercial fertilizer to each cubic yard of planting soil
- C. Tabletized fertilizer shall be Agriform stanting tablets 20-10-5 formula; 21 gram or equal. All trees and shruces shall be fertilized with tabletized feet lizer as follows. While bisciffing plant holes, fertilizer tablets shall be opasity spaced and placed adjacom to the ball mid-way in depth in accordance with the following natios:

Large rubs, wire basives, grow bags, and balled and burlapped material shall have 1 tablet for each 1/2 inch of tunk diameter (measured 3 feet from ground) or for each foot of height or spread of larger should material. The Landscape Architect reserves the right to impact and review the application of fertilizer.

- 2.08 MULCH: A Muth material shall be clean, dry, free of seeds, seeds and peats, moistened at the time of application to prevent wind displacement. Openios & for Red mutch is prohibited.
- B. All frees and strutt beds shall receive 3" much immediately after planting and theroughly watered. Apply 2" max on tree & palm roothalls, keep away from tree & palm trunks on a required by local pasicification.
- PART 3. DECURIOR 3.01 SLOCKING.

  A This tandescent potential relative extension in digiting and other each to as not to correspond from the failed provided stime, underground types and cellule and the primary of the
- GRADING:
   Grading for drainage, swales, etc. to within 4 inches of the linished grade to be provided by others.
- 3.03 PLANTING:

  A. Planting shall take place during favorable weather conditions.
- B. The Contractor shall call for utility locates and ascertain the location of all utilities and easements so proper precautions can be taken not to damage or encroach on them.
- C. Tree Planting shall be located where it is shown on the plan. No planting holes shall be dug until the proposed locations have been staked on the ground by the Contractor.
- Extravation of holes shall extend to the required subgrades as specified on the planning diagrams located in the planning plans. Plant pits shall be clouder in outline and shall have a profile which conforms to the aforementment "Trea and Shrue Planning Discraters".
- Planting cits shall be excavated to the following dimensions and rofflect with a mixture of (1/2) planting set (1/2) eithing set (1/2) eit
- C. No plenting or laying of soci shall be initiated until the area has been cleaned of existing and or other plant moterature, only graze, seeds, defers, stores etc., and the ground has been thought to an even groot, but housible distanges only from builting and between global, and an evaluate and evaluation of the planting only evaluation or control no.
  H. Each just statill be planted in an individual took as opened for forees, shrubs, and vires.
- All plants shall be set to ultimate finished grade. No filling will be permitted around trunks or stems. All ropes, wire, stakes, etc., shall be removed from sides and top of the ball and removed from hide before filling in.
- J All faming ribbon shall be removed from trees and shrubs before planting
- Excess excavation (III) from all holes shall be removed from the site, at no additional expense to Owner.
- All palms shall be backflilled with sand, thoroughly wished in during planting operations and with a shallow assurer depression left at the soll line for future waterings. Source areas shall be top-dressed two (27) inches deep with opsoid relead and left in a next, clean manner.
- 3.04 PRUNING:
   A. Remove dead and broken branches from all plant material. Prune to retain typical growth habit of individual plants with as much height and spread as possible in a manner which will preserve the



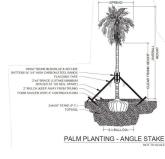
# SPECIAL APPLICATIONS ROOT BARRIER DETAIL

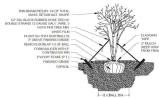
- 3.05 GUYNG: A All trees over six (if) feet in height shell, immediately after setting to proper grade, be guyed with three size of two strands, No. 12 gauge mallisable galvanized iron, in tripod fashion. See Detail.
- B. Wires shall not come in direct contact with the tree but shall be covered with an approved protection at all contact points. Wires shall be featured in such a manner as to avoid pulling crotiches apart.
- Stake & Brace all treess larger than 12 ca. See detail.
   Stakes shall be 2" x 2" lumber of sufficient length to satisfactorly support each tree.
- E. Tumbuck les for guying trees shall be galvanized or cadmium plated and shall be of adequate size and atrength to properly maintain right guy wires.
- WATER:
   Each plant or tree shall be thoroughly watered in after planting. Watering of all newly installed plant materials shall be the responsibility of the Landscape Contractor until final acceptance by the Landscape Architect.
- R See General Notes of Landscane Plan for water source
- 3.07 SOD:
- A. The Landscape Contractor shall sod all areas indicated on the drawings
- It shall be the responsibility of the Landscape Contractor to fine grade all landscape area eliminating all bumps, depressions, stoks, stones, and other debris.
- C. The sod shall be firm, tough testure, hering a compacted growth of grees with good root development. It shall contain no notious weeds, or any other objectionable vegetation, furgus, invacts, or desase. The soil embedded in the sod shall be good deen earth, free from stones and costs.
- E. 6-8-6 fartilizer with all trace elements is to be applied at the rate of 40 lbs. per 1,000 sq. ft. prior to laying soci.
- G. The finished level of all sod areas after settlement shall be one (17) inch below the top of abutting ourbs, walks, paving and wood borders to allow for building furf.
- H. If in the opinion of the Landscape Architect, top dressing is necessary after rolling, clean yellow sand will be evenly applied over the entire surface and thoroughly washed in.
- 3.08 SEEDING:
  A. The Landscape Contractor shall remove all vegetation and rocks larger than (1") in dismeter from seess to be seeded, scarlly the area, then apply fertilizer at a rate of 500 lbs, per acre.
- Application: Argentine Bahla Grass seed 200 Pounds per acre mixed with common huled Bermada seed 30 bs. per acre. All other seed mixtures shall be applied per the manufactured interface.
- C. Roll immediately after seeding with a minimum 500 pound roller, then apply straw motch at the rate of 2,500 pounds per acre.
- D. Apply fertilizer at the rate of 150 bs. per sore 45-80 days after seeding.
- 3,09 CLEANING UP:
   The contractor shall at all times keep the premises free from accumulations of waste materials or nubblish caused by the employees or work. He shall leave all paved areas "groom clean" when completed with his work.
- 3.10 MANTERANCE:
  A Monteneous coal loops in-mediatally after each short is installed and short continue and all pluring has been excepted by the Course or Landacase Architect. Mainteneous shall include watering, seeding, seeding of places and found materials, seeding places to proper guests or updge course of the places of
- Proper protection to lawn areas shall be provided and any damage resulting from planting operations shall be repaired promptly.
- C. Replacement of plants during the maintenance period shall be the responsibility of the Contracto excluding vanciblem or carrage on the part of others, lighting, or humicane force winds, until final

- 3.11 COMPLETION, INSPECTION AND ACCEPTANCE:
  A. Completion of the work shall mean the full and exact complaince and conformity with the provisions expressed or implied in the Drawings and in the Specifications, industing the complete removal of all trash, obtain, sol or other wasta created by the Landscape Octimization.
- All plant material shall be alive and in good growing condition for each specified kind of plant at the time of acceptance. The rating of each plant according to Ronda Grades and Standards shall be equal to or better the

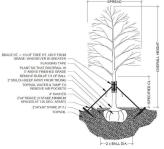
### DRAINAGE TESTING/DRAINAGE CHANNEL REQUIREMENTS

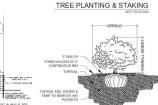
- PRIOR TO PLANTING ALL PLANTING PITS SELECTED FOR TESTING SHALL BE TESTED IN THE FOLLOWING MANNER
- B. FILL PLANTING PIT WITH TWELVE NOTIES (12") OF WATER, IF THE WATER LEVEL DROPS FOUR (F") OR MORE WITHIN FOUR (6) HOURS, THE GRAINAGE IS SUFFICIENT AND OBMINANCE CHAMPLE IS NOT REQUIRED IF THE WATER LEVEL DROPS LESS THAN FOUR NOTIES (") WITHIN THE FOUR (1) ORD FERIOL O. DRAWING CHAMPLE IS REQUIRED.
- C, WHERE REQUIRED, THE DRAINAGE CHANNEL MUST EXTEND D NON POROUS SOIL AND INTO POROUS SOIL (SEE DETAIL)
- D. ALL MATERIAL REMOVED FROM THE DRAINAGE CHANNEL SHALL BE DISCARDED.
- E. WHEN BACKFILLING PLANTING PITS WITH PLANTING MOTURE, CARE MUST BE TAKEN TO KEEP THE CONSISTENCY OF THE SOIL MIX THE SAME THROUGHOUT PLANTING PIT AND DRAINAGE CHANNEL.





MULTI-TRUNK PLANTING & GUYING





NOTE SAMPLED TO FORM CONTINUOUS FROM APPOIND THE TREE OR GROUP OF TREE PROTECTION DETAIL

SHRUB PLANTING

DRAINAGE TESTING DETAIL

GROUNDCOVER PLANTING DETAIL

LANDSCAPE ARCHITECTURA SERVICES, LLC

5 Commerce Lakes Drive Port St. Lucie, FL IS & Specifications Ш HOUS Æ WAF HKA 2095 Cc

**Details** 

05.02.24 Plan Revised or Site Plan 06 03 24 PG 07.11.24



rawn By: PG PG inicipal Proje Scale: P24-074 LS-2