



- SCOPE The location of plants, as shown on the plans, is approximate. The final locations may be adjusted slightly to accommodate unforeseen field conditions, to comply with safety setback criteria, to avoid creating unsafe sight conditions, or as otherwise directed or approved by the Landscape Architect / owner in writing. All other location adjustments to the layout are to be approved in advance in writing by the Landscape Architect and
- 2. Contractor understands that an important element of the design of this project is meeting landscape ordinances with a design flare that includes symmetry, alignment, focal points and / or smooth curvilinear forms where applied and contractor shall follow and instruct the working crews accordingly. In the event of any doubt as to how to execute the plans, Contractor shall immediately consult with Architect and/or Owner.
- 3. Landscape Contractor shall fine grade, prepare site as outlined in the following notes and per plans; furnish and install all plants, shrubs, trees and / or palms meeting minimum requirements and brace them per details provided. Furnish and install soil, gravel, boulders, sod and mulch as specified in plans and notes below.
- 4. Landscape contractor shall furnish and install all trees, palms, shrubs, groundcover, sod, planting soil, fertilizer, herbicide, pre-emergence herbicide, seed, and mulch.

## BIDDING

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- 1. Contractor to have liability insurance including Owner and Landscaper as insured's in excess of \$10,000 as well as Worker's Compensation 2. Contractors and Subs must ensure they are doing take offs from Bldg Dep. Revised sets and / or Bid Set
- documents. Verify with this Office that you are bidding from latest available plans. 3. Submit Landscape / Hardscape RFI directly to Keith & Associates Landscape Architect/Project Manager in
- writing. T. 954.788.3400 4. Read ALL notes and typical planting details sheets prior to submitting RFIs and prior to bidding.
- When submitting an RFI reference sheet number, detail number and/or note category and number.
- 6. Landscape contractor shall verify all estimated quantities of material shown on the drawings prior to submitting their bid. Plant list pricing if shown is for permitting / mitigation comparison purposes only, any prices shown are to be disregarded by Landscape Contractor.
- 7. All Plant Material shall meet or exceed height and spread requirement. Heights are City code requirement and / or design intent related and always governs over container size. Container size given for reference only and must be sized-up to meet height requirements of plant list. Plant material available with excessive height beyond specifications must be consulted with Landscape Architect for design intent.
- 8. All landscape material was confirmed to be available at time of design landscape contractor understands that some material may not be available in the same City, however available in Tri-County Region. Plant material supply is the responsibility of the Landscape Contractor that is awarded the contract and he/she shall take steps to ensure availability at the time of installation. Bring to the attention of Landscape Architect if specific material availability is no longer the case at the time of bidding and / or prior to actual construction for approval of substitutions that meet City ordinances and / or owner requirements and design intent. 9. Pre-inspections of site required prior to bidding.
- 10. The plant list is intended only as an aid to bidding. Any discrepancies found between the quantities on the plan and the quantities on the plant list shall be held valid, but in any event, Landscape Architect shall be contacted for clarification.
- 11. All labor and material for soil amendments and fertilizer that is required to ensure the successful establishment and survival of the proposed vegetation, as well as all the cost for the removal of unsuitable or excess backfill material from plantbeds, in addition to fine grading and mulching all plantbeds and individual trees shall be included in the contractor's bid to perform the work represented in this plan set.
- 12. Bid shall be itemized for possible value engineering. 13. Sod and Rocks (if specified) shall be estimated by scaling plans. Include price per square foot for sod. Rocks (include price per ton). Small rocks and gravel beds shall have landscape fabric material and minimum 2"
- depth. Boulders to be bid by unit. 14. All S.F. if noted is approximate and shall not be considered all inclusive; it is the contractor's responsibility to do his or her take off, submit price per S.F. and in the end sod all areas that are not covered either by plants, mulch and/or rocks. It shall be the responsibility of the contractor to include in the bid, the repair of any existing
- sod which may be damaged during construction. 15. Final payment to the Contractor shall be for actual plants installed on the project.
- 16. Contractor shall be responsible for obtaining and paying for costs of all permits described in bid whether permit costs are reimbursable by owner or included in bid. Research permit status and research all permits and additional documentation and certifications required such as separate tree removal permit for example, and consider prior to bidding.
- 17. General / Landscape Contractor shall leave a 5% unforeseen conditions allowance such as for additional root barriers determined to be needed on site and as job progresses. Refer to T.Watering for supplemental watering requirement.
- 19. Landscape contractor is responsible for verifying all plant quantities prior to bidding and within 7 calendar days of receipt of these plans shall notify the landscape architect in writing of any and all discrepancies. In case of discrepancies planting plans shall take precedence over plant list. No substitutions are to be made without prior consent of the Landscape Architect.

### GENERAL LANDSCAPE NOTES

- 1. Plants grown in containers prior to installation shall be removed from their containers before they are planted in the ground and have circling roots removed. All screening shrubs shall be planted for proper operation of equipment being screened and/or per the requirements of the utility as necessary. All hedge material required for screening purposes shall be planted with branches touching. Adjust spacing as necessary and/or provide additional plants to provide an adequate screen as required by code. Leave access to utility or clearance as required
- 2. All landscaping shall be installed according to sound nursery practices. Contractor shall comply with federal, state and local laws and regulations pertaining to the inspection for plant disease and insect infestatio 3. All ideas, designs and plans indicated or represented by this drawing are owned by and are the exclusive property of Keith and Associates and may not be duplicated without authorization or used for other projects
- than the intended. 4. The Landscape Contractor shall exercise caution to protect any existing sod, electrical and irrigation. Any damage to the sod, electrical or irrigation shall be replaced or repaired to the original state by the Landscape
- Contractor at no additional cost to the owner. Tree, palm, accent shrubs and bed lines are to be located in the field and approved by the Landscape Architect / owner prior to planting. Landscape Contractor acknowledges that material planted without approval
- of location may be subject to relocation by Landscape Architect to maintain design intent if not followed properly 6. All trees must be pruned as per Landscape Architect's direction.
- 7. In areas where asphalt is removed in order to receive landscape material, the lime rock sub-base material must also be removed and replaced with approved planting soil mix. 8. Landscape contractor is responsible for sending photographs to the landscape architect to pre-approve all
- trees, palms, and shrubs prior to delivery to project site. 9. Landscape contractor shall coordinate his or her work with that of the irrigation, landscape lighting, and
- hardscape contractor if different. 10. The landscape contractor shall treat plant areas with pre-emergence herbicide after weeds and grass has been removed. Landscape contractor shall wait 7 days after pre-emergence treatment prior to planting.

#### PERMITS & REGULATIONS

- Contractor(s) must obtain separate landscape, irrigation and tree relocation/removal permits from the city prior to the issuance of the first building permit for the project.
- 2. Landscape contractor to call the city Landscape Inspector to schedule a pre-construction meeting prior to installation if required.
- 3. All mandatory requirements by City Landscape Departments and their inspectors shall govern and landscape contractor commits by accepting contract to comply promptly for builder/owner to obtain C.O.

# TREE REMOVAL

- Removal of any trees or palms will require a written "tree removal permit" from the local governing agency prior to removal. Non-native trees classified as "prohibited" trees may be exempt from the permit if listed as Category 1 by Florida Exotic Pest Plant Council. Confirm with Local Municipality. 2. Landscape Contractor is responsible to remove ALL invasive nuisance trees such as Brazilian Pepper,
- Melaleuca, Australian Pine and all invasive trees as categorized by the governing agencies, whether listed on plans or not. 3. The Landscape Contractor is responsible for coordinating tree and palm removals and transplants shown on
- the tree/palm Disposition Plan. The Landscape Contractor is to remove and discard from site existing unwanted trees, palms, shrubs, ground covers, sod and weeds within landscape areas.

# EXISTING TREES

- Existing trees designated to remain shall be protected during all construction phases. Any trees or shrubs scarred or destroyed designated to remain will be replaced at the contractor's expense, with same species, size and quality
- 2. Existing plant material not shown on the plan and in conflict with new planting shall be evaluated at the time of new planting installation by the Landscape Architect. Trees and plant material indicated to be relocated with no new location provided in plans shall be moved to a location on site designated as a nursery holding area with the root ball protected from direct sunlight, maintained and irrigated until new location is determined. 3. Prune trees to remove damaged branches and improve natural shape and thin out structure. Do not remove
- more than 15% of branches. Do not prune back terminal leader. 4. Prune existing shrubs to remove damaged branches and improve natural shape.
- 5. Existing trees to remain shall be trimmed per Ansi-A300 standards. Supervision of the trimming shall be performed by an ISA Certified Arborist to ensure quality work.

- 6. All existing trees shall be "lifted and thinned" to provide an 8 walkways and a 14' minimum clearance for roadways, drivew
- Selective canopy and root pruning of existing trees can be 7. more than 35%) to accommodate for new approved constru
- an ISA Arborist 8. If plans call for relocation of trees, palms or plants. High lev
- are not damaged in the process and that they are promptly re-9. All underground utilities and drain or irrigation lines shall be must traverse the protection area, they shall be tunneled or b
- 10. Erosion control devices such as silt fencing, debris basins,
- prevent siltation and/or erosion within the tree protection zone Roots shall be cut manually by digging a trench and cutting e narrow trencher with sharp blades, or other approved root pru
- G. TREE RELOCATION (These notes for relocation trees only a Flag all trees and palms to be transplanted with differentiatin Tree Relocation process must be performed or supervised b Water the root zones to field capacity for 5 continuous days
- a 4'-0" depth within a 6' radius Root prune a minimum of six weeks before relocation. Prune trees, prune out 1/3 of the existing canopy by selectively trim fronds above the bud and tie them loosely with jute twine to
- 4. Brace root pruned trees awaiting relocation. 5. Root prune  $\frac{1}{3}$ rd of the root system, irrigate daily for 2 weeks th  $\frac{1}{3}$  rd, irrigate daily and prune last  $\frac{1}{3}$  rd on actual relocation dat minimum root pruning by stages). ISA Arborist on staff shall be deemed necessary by Arborist on staff to balance for inter necessary to increase survival.
- 6. Root prune with proper clean equipment to sever roots. Ensu 7. With hand tools, dig a 2'-0" wide by 3'-0" deep trench at a m arborist to expose roots. Cut all roots 1.5" and larger in dia cuts with a fungicidal barrier. Backfill the trench, within 4 hc sawdust or other fine organic material. Do not compact.
- Form a rootball size in compliance with Florida grades and Fl
- 9. Maintain the soil moisture at field capacity throughout the six
- 10. Allow the plant to regenerate roots over a period of six weeks 11. At the end of six weeks, prepare the planting pit at the new the root ball at a minimum, but it is recommended that trans that was trenched for transplanting.
- 12. With the consulting arborist present, undercut the entire root specified by the arborist. The undercutting method may be a choker cable drawn through the root ball with heavy equipment.
- 13. At the direction of a professional rigger, assemble slings, padding, guiding ropes and cables for attachment to the crane or backhoe. The professional rigger shall determine the size of machinery necessary to execute the lifting and moving operation.
- 14. Install trees within 24 hours of removal from their original location to locations provided by Landscape
- Architect or Developer with approval of City / Landscape Inspector. 15. Experimented Tree Spade operator shall move tree or experimented tree mover shall choose best means and methods to strap and rig tree for transporting safely without damage to new location.
- 16. Maintain trees in a healthy and vigorous condition during installation and throughout the plant establishment period. Replace trees that do not meet this requirement with the same species, size, and quality or per mitigation requirements specific to the city with jurisdiction.
- 17. Fertilize the plant as directed by the consulting arborist. 18. When the plant is placed in the new location, backfill the planting pit with topsoil and water thoroughly to
- eliminate air pockets and compact the soil. Set the tree no deeper than its original condition. 19. Cover the root ball area with 3" depth of organic mulch.
- 20. Provide fungicide and fertility applications at the direction of the consulting arborist. 21. Post transplant watering to provide moisture and reduce any excessive stress due to root desiccation. Watering to be adjusted according to conditions and at the supervision and direction of the ISA certified arboris
- 22. The diameter of the root--pruning or transplanting circle shall be at a distance away from the trunk equal to 12 times each inch of trunk diameter at breast height.
- 23. For all palms except Sabal palmetto, the lower fronds shall be pruned leaving 9-11 fronds that can be tied without an extensive amount of weight that may damage the heart of the palm. The Sabal palmetto shall have
- all fronds cut without damaging the bud. 24. Transplanting must occur within 24 hours after being dug for relocation. Trees/palms should be kept in shade and the canopy kept moist.
- 25. Digging and preparation of the new hole for the transplant shall be done prior to removing the tree from the existing location.
- 26. The landscape Contractor is to verify that all new holes have appropriate percolation. 27. Padding the sling may be necessary so that the trunk or "boots" are not damaged. 28. A 6" saucer shall be created around the edge of the plant pit to help hold water, see planting detail for
- additional information 29. Over the guarantee period the Landscape contractor shall be responsible for resetting any trees/palms that are
- not vertical when caused by winds less than 74 mph. 30. After transplanting trees and palms, the landscape contractor shall be responsible for obtaining water and watering to maintain soil moisture during the guarantee period at a minimum of: First month- daily, Second month - three times per week, Third and Fourth months - two times per week, Last eight months - one time per
- 31. For trees over 4" in caliper at the time of planting, the schedule should be: First six weeks, daily, one and a half months to six months - three times per week, last six months - one time per week.

# H. SITE PREPARATION & GRADING

- 1. Landscape contractor shall loosen and till compacted soils that are overly compacted in all planting areas of
- the project to provide for proper soil aeration for plant establishment. Planted areas shall be cleared of underground rocks, construction debris and other materials detrimental to the health of the plants. Lime rock base material shall be removed within planting pits and adjacent to pavement. The planting areas should be clean to a depth equal to the root ball of the trees/palms proposed for the area. Planting area soils shall be tested for ph before planting. Soils showing high (alkaline) ph (over 7.5) shall be
- amended or replaced with native soil having a ph range of 6.5 7.5, as approved by Landscape Architect. All planting areas and planting pits shall be tested for sufficient percolation prior to final planting and irrigation installation to ensure proper drainage. Plant beds in parking lots and in areas compacted by heavy equipment
- shall be de-compacted so that drainage is not impeded. 4. Landscape Contractor shall treat plant areas with pre-emergence herbicide after weeds and grass have been
- removed. Landscape Contractor shall wait (7) seven days after pre-emergence treatment prior to planting. 5. Site preparation shall include the eradication and removal of any weeds, clean-up of any dead material, debris,
- and rubbish. 6. General site and berm grading to +/- 1 inch (1") shall be provided by the general contractor. All finished site grading shall be provided by the Landscape Contractor. All planting beds shall be free of all rocks 1/2" or
- larger, sticks, and objectionable material including weeds and weed seeds. All lime rock shall be removed/cleaned down to the native soils.
- The Landscape contractor shall ensure the planting areas are at finish grade prior to installing plant materials. 8. All trees and plant material to remain shall be protected during construction. Contractor shall install protective barriers such as "Tenax" orange safety fencing or similar, to be installed before the beginning of the project. Barriers shall be located to include the drip line of the trees, palms and plant material. The contractor shall
- take extra caution to prevent any damage to the trunk, root zones and grade. 9. Final grade within planting areas to be 4" below adjacent paved areas or top of curb. Sod areas to be 2" below. 10. All planting beds shall be shaped and sloped to provide proper drainage away from building and structures and to swales, if applicable.

- IRRIGATION Any Irrigation Notes and specifications included in Irrigation Sheets govern over the following Irrigation Notes. 2. The Landscape Contractor shall coordinate with the irrigation contractor if not the same and leave provisions
- for all individual trees in turf areas and all planting beds.
- 3. Irrigation / Landscape contractor to guarantee 100% coverage and 50% overlap (head to head coverage) to all
- landscaped areas and furnish and install a rain sensor. 4. Irrigation Contractor to adapt design to onsite conditions adjusting heads and changing nozzles as required to avoid overspray onto buildings or paved areas.
- 5. The contractor shall ensure that the irrigation system is operational and free of leaks prior to any planting being finalized. Plant material that is installed prior to the irrigation system being operational shall be watered by the contractor at his or her expense. Water for plant establishment should be included in the cost of the plant. 6. All guidelines as outlined by the South Florida Water Management District (SFWMD) or water management
- district with jurisdiction shall be strictly adhered to. 7. Any existing irrigation system shall be retrofitted to comply with the specifications as outlined above.
- HARDSCAPE & OTHER MATERIALS
- 1. Face of trees and palms to be located a minimum of 2' setback from all fences, walkways, walls, and paved surfaces, unless otherwise indicated on the plans. Refer to details.

	3		4	
8' minimum clearance for sidewalks and pedestrian	K.	UTILITIES / CLEARANCES	·	
eways and all vehicular use areas.	1.		nining the location of and avoid and protect utility lines, buried	
be conducted (only as necessary and in no event			scape Architect shall not be responsible for damage to utility or	
truction. Pruning shall be conducted / supervised by		irrigation lines.		
J I I	2.		n underground utilities, unless otherwise approved in writing by	
evel of care should be exercised to assure that they		Landscape Architect and Owner.		I
replanted upon being dug up.	3.	All canopy trees to be planted min. of 15' fro	m light source/poles. Unless otherwise approved by the City /	
be routed outside the tree protection zone. If lines		Landscape Architect and Owner.		•
r bored under the tree.	4.	Landscape contractor shall contact the county,	city and/or utility companies to locate all underground utilities or	•
, and water diversion structures shall be installed to			ractor shall repair all damage to underground utilities, and/or	•
one.		construction caused by utility damage, at no co		•
g exposed roots with a saw, vibrating knife, rock saw,	5.		e plan shall be considered diagrammatic and should be adjusted	
pruning equipment.		in the field by contractor to avoid all utilities, and	d all other obstructions.	
	6.	If/ When digging in right of way needed:	Two (2) full business days before digging, call toll free	Q.
		1-800-432-4770, or 811, Sunshine State One (	Call of Florida, inc. Notification Center. In addition, call the City's	1.
y and if applicable)		Utilities/Public Works Department. Contracto	ors are responsible for coordinating with the owners and	
ing color than those to be saved or removed.		appropriate public agencies to assist in locatir	ng and verifying all underground utilities prior to excavation. All	
by ISA Certified Arborist.		existing utilities shown on the plans are to be o	considered approximate and should be verified by the contractor	
s before root pruning. At a minimum soak the soil to		prior to the start of work operations.		2.
	7.	Above and below ground utilities shall be verified	ed and located in the field by the contractor prior to commencing	
ne away all dead or damaged limbs or fronds. For		work in the project area. The contractor shall	I examine available utility plans and confirm conflicts between	
imming small internal branches. For palms, gather		indicated or located utilities and landscape wo	rk. The contractor shall then notify the Project Engineer of said	
to avoid damage.		conflicts and the Engineer will coordinate any	necessary adjustments with the utility provider. Tree locations	
		will be adjusted as necessary when in conflict v	with existing utilities.	3.
then root prune another	8.	The final plant locations may be adjusted, as	approved / directed by the Landscape Architect in writing, to	4.
late, no less than two weeks (six weeks total		accommodate utilities compliance. Excavations	within 5' of known utilities should be done by hand.	
Il observe for intense shock. Canopy pruning may	9.	Contractor shall familiarize himself with the loc	ation of and avoid and protect utility lines, buried cables, and all	
tense root ball loss, canopy shall be trimmed only as		other utilities, noted or not, on plans.		
tense root bai loss, carlopy shall be timined only as	10	Leave clearance and access to all above groun	d or at grade meters and equipment.	R.
sure roots are not torn or pulled apart.	11	. Landscape planting shall be in conformance with	th FPL guidelines for setbacks from overhead utility lines.	1.
a minimum distance as determined by the consulting	12	. Landscaping shall not interfere with light poles	s, fire hydrants, electrical/mechanical equipment access, signs,	2.
diameter with a clean, sharp pruning saw. Treat all		drainage structures, etc. Bring to the attention of	of Landscape Architect any conflicts.	
hours of digging, with a 1:1 mixture of site soil and				
field of digging, with a firth mixture of one con and	L.	ROOT BARRIERS		
Florida standards number 1 or better.	1.	Root barriers will be installed to protect buildir	ng foundations, curbing, walkways, paved areas, roadway base	
six weeks.		material and utilities from existing large trees	or proposed new trees that are within 5' of existing or new	3.
eks.		approved construction or as may be deemed no	ecessary as job progresses.	
w location. Overdig the hole diameter by 2' beyond	2.	Mechanical Root barriers will be used for large	e existing Canopy Trees and chemical type barriers will be used	
splanting hole to be at least 1/3 larger than the area		for new trees.		
	3.		and Chemical Root barriers will be "Biobarrier". Substitutions	4.
oot ball of the plants to be transplanted at a depth		must be of approved equal or better quality.		
be a choker cable drawn through the root ball with	4.	Root barriers will be installed per manufacturer	specifications.	
	_			_

5. Root barrier depth will be determined by manufacturer recommended depth chart (http://www.geo-synthetics.com/pdf/BioBarrier/BiobarrierApplicationManual.pdf) and as required by on-site conditions in a case by case basis as deemed necessary by Landscape Architect Architect / ISA Arborist and City Landscape Inspector.

## LANDSCAPE BACKFILL & SOIL AMENDMENT

- 1. All building construction material and foreign material shall be removed from the planting areas and replaced with 70/30 mix of organic planting soil and/or amend the existing soils per section H.2.
- 2. Planting soil mix shall be delivered to the site in a clean loose and friable condition and is required around the root ball of all trees and shrubs, the top 6" of all shrubs and ground cover beds and top 2" of all grassed areas. This soil shall be tilled into the existing soil after the existing soil has been cleaned of all undesirable foreign materials. Recycled compost is encouraged as a soil amendment alternative. Planting soil to be weed free. 3. Planting backfill for palms shall be clean coarse native sand unless specified elsewhere.
- 4. Do not allow air pockets to form when backfilling. All trees shall be watered-in utilizing water probe or a tree

## N. PLANT SIZE & QUALITY

- 1. All plant material must meet or exceed the minimum size requirements as specified on the plant list. Height specification governs over container size if both specifications given cannot be met. Any other requirements for specific shape or effect as noted on the plan shall also be required for acceptance.
- 2. Material specified as Balled and Burlapped (B&B) can be accepted in container if not available as B&B at the discretion of Landscape Architect; if not root bound and/or circling roots removed and root ball is proportionate to Tree / Palm.
- 3. U.O.N, All trees designated as single trunk shall have a single, relatively straight, dominant leader, proper structural branching and even branch distribution. Trunks on palms shall be uniform in thickness for the entire length of the palm and shall not taper off to disproportionate thinness towards the crown. Trees with bark inclusion, tipped branches, and co-dominant trunks will not be accepted. Trees with girdling, circling and/or plunging roots will be rejected.
- 4. Use nursery grown plant materials that complies with all required inspection, grading standards, and plant regulations in accordance with the latest edition of Florida Department of Agriculture, "Grade & Standards for Nurserv Plants"
- 5. All trees and palms shall be free of open wounds and unsightly visible scars.
- 6. All substitutions must be approved by the City if it is required Canopy and by Landscape Architect / Owner if supplementary accent material. 7. Contractor shall comply with Federal, State, and Local laws and regulations pertaining to the inspection for
- plant disease and insect infestation
- 8. Trees, palms, shrubs, ground covers: Plant species and sizes shall conform to those indicated on the drawings. All nursery stock shall be in accordance with grades and standards for nursery plants parts 1 and 2, latest edition published by the Florida Department of Agriculture and Consumer Services, unless specified otherwise. All plants shall be Florida grade number 1 or better as determined by the Florida Division of Plant Industry and tightly knit plant, so trained or favored in its development that first appearance is unquestionable and it is outstandingly superior in form, number of branches, compactness and symmetry. All plants shall be freshly dug, sound, healthy, vigorous, well branched and free of disease and insect eggs and larvae and shall have adequate root systems. Trees and palms shall be uniform in size and shape. All materials shall be subject to approval by the
- Landscape architect. Plants shall be pruned prior to delivery only upon the approval of the Landscape Architect. 9. All containers grown material shall be healthy, vigorous, well-rooted plants and established in the container in
- which they are sold. The plants shall have tops of good quality and be in a healthy growing condition. An established container grown plant shall be transplanted into a container and grown in that container sufficiently long enough for the new fibrous roots to have developed so that the root mass will retain its shape and hold together when removed from the container. 10. Field grown trees and palms previously root pruned shall obtain a root ball with sufficient roots for continued
- growth without resulting shock 11. Root suckers on any tree are not acceptable and must be properly pruned.
- 12. Contractor shall coordinate with Landscape Architect and Owner to obtain prior approval for the selection of the specific specimens of all palms and any trees of more than six feet in height. Contractor to supply photograph of trees prior to purchase and installation.
- PLANTING NOTES
- 1. At the discretion of the Landscape Architect, plants are subject to review for approval for size, variety, condition and appropriateness to the design intent.
- 2. All synthetic burlap, synthetic string or cords, or wire baskets shall be removed before any trees are planted. All synthetic tape (i.e. tagging tape, nursery tape) shall be removed from trunks, branches, etc. before inspection. The top 1/3 of any natural burlap shall be removed or tucked into the planting hole before the trees are back filled.
- 3. All "groundcover" requires 75% coverage and 100% within 3 months of installation. Bring to the attention of Landscape Architect in writing before commencing if this is not achievable with the design. 4. Set tree no deeper than it was in its original growing condition with the top of the root ball even with, or slightly
- higher (+/- 1") than the finished grade. 5. All trees/palms shall be planted so the top of the root ball, root flair are slightly above final grade. Shrub material shall be planted such that the top of the plant ball is flush with the surrounding grade.
- 6. All trees and palms shall be braced / staked per accepted standards by the Florida Nursery, Growers & Landscape Association (FNGLA). Nailing into trees and palms for any reason is prohibited and the material will be rejected. Please refer to the planting details.
- 7. All trees, new or relocated, to be staked and guyed as detailed.
- 8. Layout shrubs to create a continuous smooth front line and fill in behind. 9. Excavate pit or trench to 1-1/2 times the diameter of the balls or containers or 1' wider than the spread of roots and 3" deeper than required for positioning at proper height. Compact a layer of topsoil in bottom before placing plants. Backfill around plants with planting mixture, compacted to eliminate voids and air pockets. Form grade slightly dished and bermed at edges of excavation. Apply 3" of mulch.
- 10. Groundcover and shrubs to be spaced in a uniform and consistent pattern per planting details.
- 11. All mechanical equipment, irrigation pumps, FPL transformers, pool pumps, etc. shall be screened on a minimum of three sides by landscape shrubs.
- 12. Contractor shall not mark or scar trunks in any fashion.
- 13. When requested by Landscape Architect, demonstration of healthy root system if not previously approved, can include tree removal and re-installation for inspection at no additional cost to the owner
- 14. Remove rejected Plant material from the Site immediately and replace with acceptable plants.
- FERTILIZATION

1. All Fertilization shall comply with state fertilization laws. Fertilization shall be Agriform "20-10-5 Plus

#### 1 Gal 2 G Installation: 1 1 to

- Place plant in the hole
- · Do not place tablets in Place Agriform Tablets Finish filling the hole are

# SCOTTS: 1-800-492-82 SOD

- All areas disturbed d These disturbed area non-functional.
- Landscape Contracto All open areas not c remain, shall receive
- not, unless a differer fungus, insects and verified). Sod shall be machine
- Lay sod strips with tig mix into minor cracks slopes greater than 3
- **INSPECTION & ACCI** Notify the governing Onsite plant deliverie Architect / Owner. T or digging operation
- unacceptable due to inspection and appro There shall be one Architect and owner adhered to and that
- prior to scheduling o 4. Upon completion of final inspection. Any
- shall be promptly cor No substitution of p Landscape Architect a
- 6. To obtain final payme

# S. MULCH

- All planting beds shall heavy metals, such a if requested or proof
- 2. Shredded approved plant material. 3. All trees in sodded ar
- Preferred mulch is sh 5. All mulch shall have a

# WATERING

All plant material sha It is the sole responsi receive adequate wat watering of all new tre required to augment plant establishment

# U. CLEAN UP

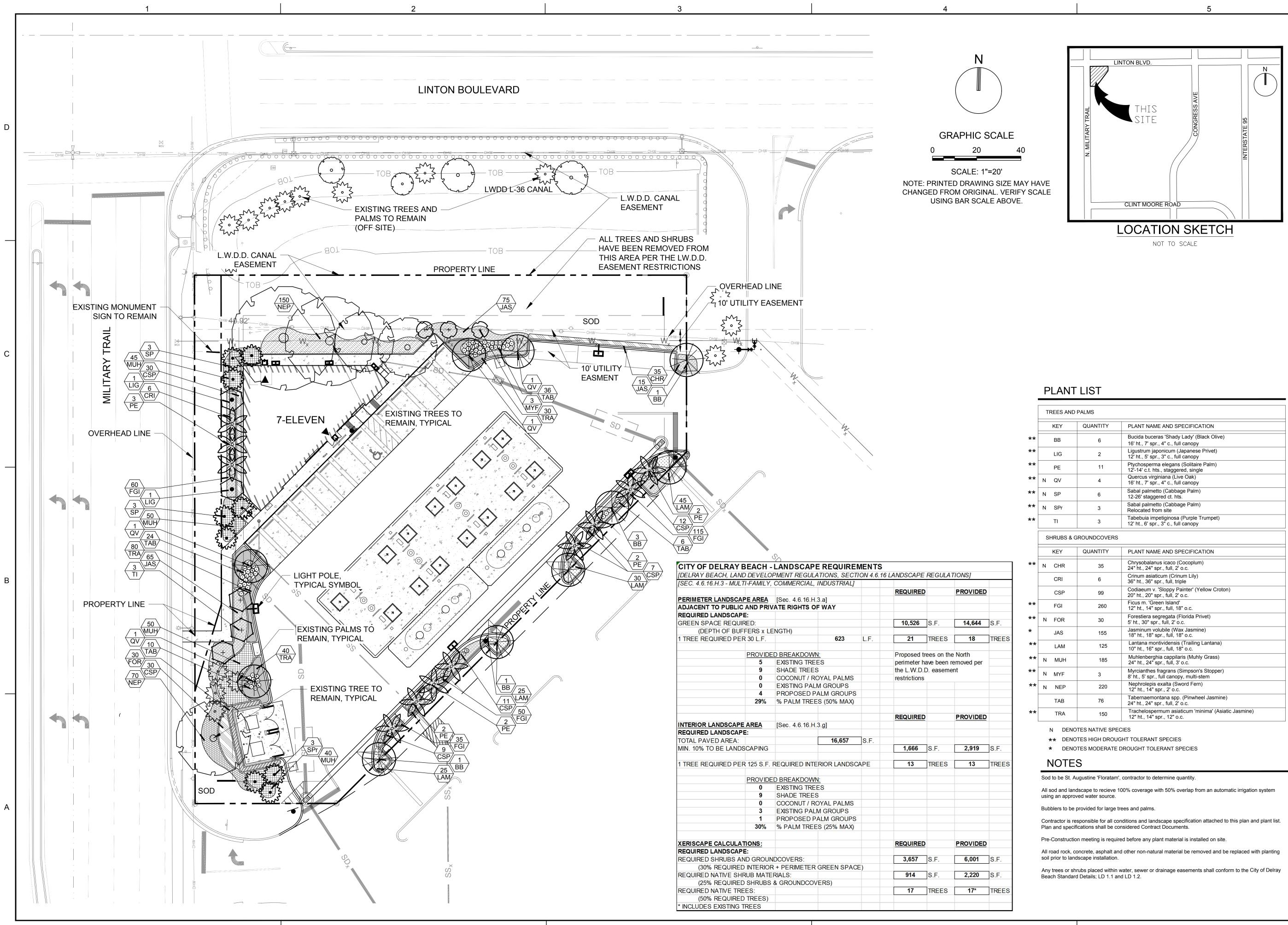
- The Landscape Contr until final acceptance 2. The contractor is resp establishment period
- twice a month from A and owner accepts a Any excess soil, under
- be removed promptly 4. The Landscape Contr of waste material or d Upon completion of t

# debris, unused plant project site

- V. MAINTENANCE 1. Landscape Contracto may choose to retain 2. The Landscape Cont until completion of co planting saucers rest
- Trees and shrubs sh traffic intersection.
- W. GUARANTEE & REP By accepting the cont not less than one (1) which die or wither w without additional cos maintenance on such Landscape Architect replacement plants. as well plants damag requested, the Lands time material basis. Contractor.
- Х. MISCELLANEOUS.
- All work to be done ir
- No change order shal 3. These notes shall be reference. In the eve

# document shall control ABBREVIATIONS IN

5			
minors" or similar approved slow-release tablets applied per manufacturer suggested application rate chart:			
Agriform® 21-gm Tablets (SKU# 90026*; 500 tablets/case) NEW Tree / Shrub Container Size			
<b>1 Gal 2 Gal 3 Gal 5 Gal 7 Gal 15 Gal 24" Box</b> nstallation: 1 1 to 2 2 to 3 2 to 3 3 to 5 7 to 10 15 to 24		TH	
Place plant in the hole and backfill to halfway point.		IATES, INC.	
Do not place tablets in the bottom of the planting hole. Place Agriform Tablets in the hole about 1to 2 inches away from root tips.	_	_	
Finish filling the hole around the plant to grade level. SCOTTS: 1-800-492-8255 or visit www.scottspro.com	301 East Atlantic Pompano Beach, Flori		
SOD			
All areas disturbed during construction shall be sodded with St. Augustine 'Seville' unless otherwise noted. These disturbed areas shall have proper irrigation established or re-established if they were disrupted or	2160 NW 82 <sup>nd</sup> Doral, Florida		
non-functional. Landscape Contractor to supply and install 2" soil layer 50/50 mix blanket for all new sod areas.			
All open areas not covered by trees, palms, shrubs, vines, ground covers or existing sod in good condition to	PH: (954) 788	3-3400	
remain, shall receive Stenotaphrum Secundatum, St. Augustine 'Seville' sod, whether labeled on the plans or not, unless a different species is indicated on the planting plan. Sod shall be strongly rooted, free from weed,	Florida Certif	icate of	
fungus, insects and disease. Contractor shall be paid by the total sodded area x the unit price submitted (field verified).	Authorization	# - 7928	
Sod shall be machine stripped no more than 24 hours prior to laying. Lay sod strips with tight joints, do not overlap, stagger strips to offset joints in adjacent courses. Work sifted soil			
mix into minor cracks between pieces of sod and remove excess soil deposits from sodded areas. Sod on slopes greater than 3:1 shall be immediately staked after planting.			
INSPECTION & ACCEPTANCE			
Notify the governing Agency if required and Landscape Architect of commencement. Onsite plant deliveries shall occur on Monday through Friday only unless otherwise directed by the Landscape	BID / CONTRACT NO. :		
Architect / Owner. The contractor shall ensure that plant material is delivered undamaged from transportation or digging operations. The Landscape Architect may reject material that has been damaged or rendered	REVISIONS		
unacceptable due to relocation or transportation from the point of origin. All plant material shall be available for inspection and approval by the Landscape Architect prior to final installation.	NO. DESCRIPTION	DATE	
There shall be one final inspection for approval by each of the presiding governing agency, Landscape Architect and owner. Contractor shall ensure that the plans, details, specifications and notes have been			
adhered to and that the landscape and irrigation installation is compliant to all items as directed on the plans prior to scheduling of the final inspection.			
Upon completion of the work, the Landscape Contractor shall notify the Landscape Architect and request a			
final inspection. Any items that are judged incomplete or unacceptable by the Landscape Architect or owner shall be promptly corrected by the Landscape Contractor.			
No substitution of plant material, type or sizes will be permitted without prior written authorization from the Landscape Architect and owner.			
To obtain final payment, Contractor must provide release of all mechanic's liens and material liens.			
MULCH All planting beds shall be mulched to a depth of 3" with an organic mulch approved by Landscape Architect. No			
heavy metals, such as arsenic, etc. are to be contained in the mulch. The contractor shall provide certification if requested or proof that all mulch is free of heavy metals or similar environmental contaminants.			
Shredded approved organic mulch to be used beyond trunk in all directions and throughout all hedges and plant material.	NOT FOR CONS		
All trees in sodded areas shall have a clean cut 4' diameter mulch ring.	THESE PLANS ARE NOT F AND ARE SUBJECT TO R	JLLY PERMITTED	
Preferred mulch is shredded melaleuca. Cypress, red, gold and green mulch is prohibited. All mulch shall have a minimum 3" separation from the trunk of the tree/palm trunk to avoid rotting.	DURING THE PERMITTI	NG PROCESS.	
WATERING	RESPONSIBILITY FOR THI PLANS PRIOR TO OBTAI	NING PERMITS	
All plant material shall be watered in thoroughly at the time of planting. It is the sole responsibility of the Landscape Contractor to ensure that all new plantings	FROM ALL AGENCIES HAVI OVER THE PROJECT WIL	L FALL SOLELY	
receive adequate water during the installation and until completion of contract. Deep watering of all new trees and palms and any supplemental watering that may be	UPON THE US	SER.	
required to augment natural rainfall and site irrigation is mandatory to ensure proper plant establishment and development and shall be provided by Contractor as a part of this contract.			
CLEAN UP			
The Landscape Contractor is responsible for maintaining all landscape planting areas			
until final acceptance of the owner. The contractor is responsible for mowing the entire project during planting and		n 📕	
establishment periods, based on mowing project once a month from October to April, and twice a month from April to October (During installation and plant establishment only and until final inspection		R	
and owner accepts and takes ownership). Any excess soil, undesired stones or debris resulting from landscape operations shall			
be removed promptly, keeping the site clean as work progresses. The Landscape Contractor shall at all times keep the premises free from accumulation			
of waste material or debris caused by their crews during the performance of the work.	#3479	8	
Upon completion of the work, the contractor shall promptly remove all waste materials, debris, unused plant material, empty plant containers, and all equipment from the	16000 S. MILITA		
project site.	DELRAY BEACH	H, FL 33496	
MAINTENANCE Landscape Contractor to return to job site 12 months after tree bracing and remove all tree braces. Owner			
may choose to retain 5% of payment to ensure compliance. The Landscape Contractor shall water, mulch, weed, prune, and otherwise maintain all plants, including sod,	SCALE:	AS NOTED	
until completion of contract or acceptance by landscape architect. Settled plants shall be reset to proper grade, planting saucers restored, and defective work corrected.		EBRUARY 2018	
Trees and shrubs shall be maintained to keep clearance of stop signs and safety clearance for visibility at traffic intersection.		SR	
GUARANTEE & REPLACEMENT	DESIGNED BY: CHECKED BY:	MP	
By accepting the contract, the Contractor is thereby guaranteeing all plant materials and design for a period of		MP	
not less than one (1) year from the time of final acceptance by the owner. Contractor shall replace any plants which die or wither within such period with healthy plants that meet specifications of the same species and size			
without additional cost to the owner unless such death or withering is due to Owner's failure to do ordinary maintenance on such plants after final acceptance in accordance with any maintenance instructions given by			
Landscape Architect for such plants. Such replacement shall include all plants and labor to plant the replacement plants. Any plant materials damaged by lightning, storms, freeze damage or other "acts of God"			
as well plants damaged by vehicles, vandalism or neglect are not included in this replacement agreement. If requested, the Landscape Architect may act as a mediator between owner and Landscape Contractor on a			
time material basis. "Plants" includes all trees, palms, shrubs, grass and other plants provided or planted by Contractor.			
MISCELLANEOUS.			
All work to be done in a professional manner. No change order shall be valid, due or paid unless it is approved by Owner in writing in advance.			
These notes shall be an integral part of the contract of Contractor and shall be deemed incorporated therein by			
relevence in the event of a contillet among the terms, among the plane and these notes, the terms of this	1		
reference. In the event of a conflict among the terms among the plans and these notes, the terms of this document shall control.			
	MICHAEL J. PHILL FLORIDA REG. NO. (FOR THE FIF	LA0001540	
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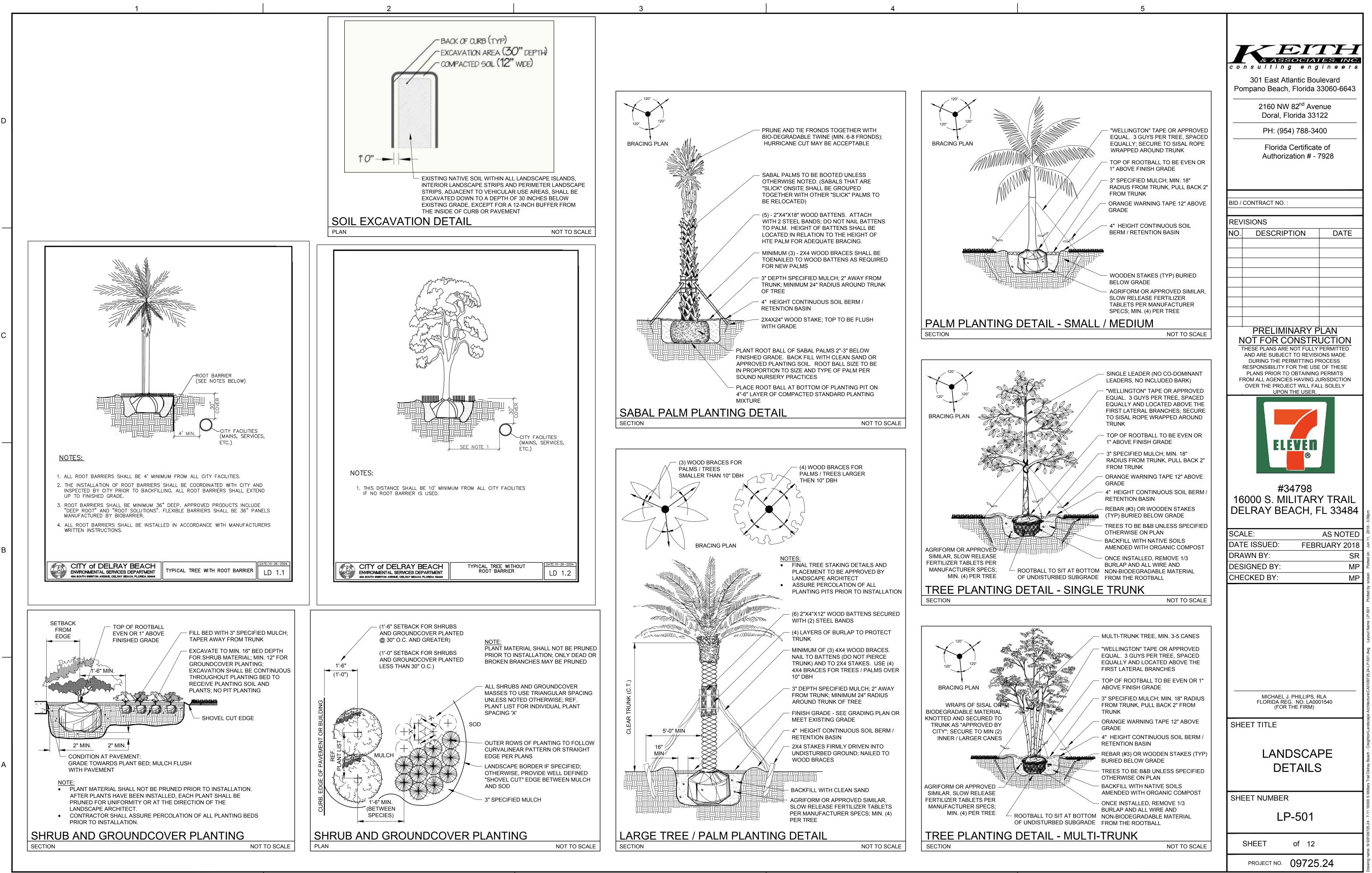


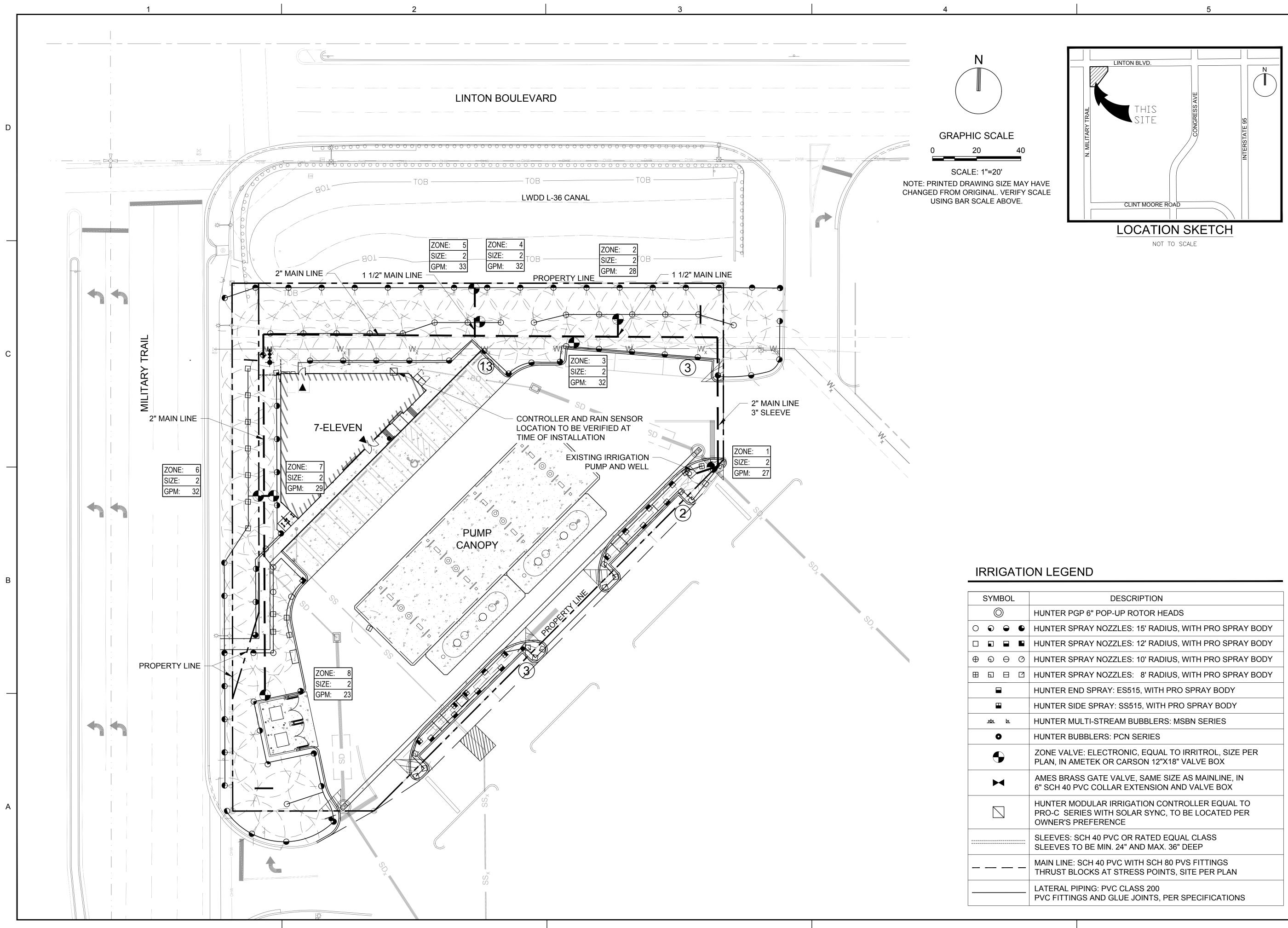
)	PALMS	
	QUANTITY	PLANT NAME AND SPECIFICATION
	6	Bucida buceras 'Shady Lady' (Black Olive) 16' ht., 7' spr., 4" c., full canopy
	2	Ligustrum japonicum (Japanese Privet) 12' ht., 5' spr., 3" c., full canopy
	11	Ptychosperma elegans (Solitaire Palm) 12'-14' c.t. hts., staggered, single
	4	Quercus virginiana (Live Oak) 16' ht., 7' spr., 4" c., full canopy
	6	Sabal palmetto (Cabbage Palm) 12-26' staggered ct. hts.
	3	Sabal palmetto (Cabbage Palm) Relocated from site
	3	Tabebuia impetiginosa (Purple Trumpet) 12' ht., 6' spr., 3" c., full canopy
G	ROUNDCOVERS	

_		
	QUANTITY	PLANT NAME AND SPECIFICATION
	35	Chrysobalanus icaco (Cocoplum) 24" ht., 24" spr., full, 2' o.c.
	6	Crinum asiaticum (Crinum Lily) 36" ht., 36" spr., full, triple
	99	Codiaeum v. 'Sloppy Painter' (Yellow Croton) 20" ht., 20" spr., full, 2' o.c.
	260	Ficus m. 'Green Island' 12" ht., 14" spr., full, 18" o.c.
	30	Forestiera segregata (Florida Privet) 5' ht., 30" spr., full, 2' o.c.
	155	Jasminum volubile (Wax Jasmine) 18" ht., 18" spr., full, 18" o.c.
	125	Lantana montividensis (Trailing Lantana) 10" ht., 16" spr., full, 18" o.c.
	185	Muhlenberghia cappilaris (Muhly Grass) 24" ht., 24" spr., full, 3' o.c.
	3	Myrcianthes fragrans (Simpson's Stopper) 8' ht., 5' spr., full canopy, multi-stem
	220	Nephrolepis exalta (Sword Fern) 12" ht., 14" spr., 2' o.c.
	76	Tabernaemontana spp. (Pinwheel Jasmine) 24" ht., 24" spr., full, 2' o.c.
	150	Trachelospermum asiaticum 'minima' (Asiatic Jasmine) 12" ht., 14" spr., 12" o.c.

301 East Atlantic Boulevard Pompano Beach, FL 33060			
PH: (954) 788-34			
Florida Certificate			
Authorization # -			
BID / CONTRACT NO. :			
	DATE		
NO.DESCRIPTION1SCREEN LP STORAGE	08/14/18		
2 SITE PLAN REVISION	01/11/19		
3 DUMPSTER RELOCATION	02/15/19		
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MICHAEL J. PHILLIPS, RLA FLORIDA REG. NO. LA0001540 (FOR THE FIRM)			
SHEET TITLE			
LANDSCAPE PLAN			
SHEET NUMBER			
SHEET NUMBER LP-101 SHEET of 27			
SHEET of 27			

PROJECT NO. 09725.24





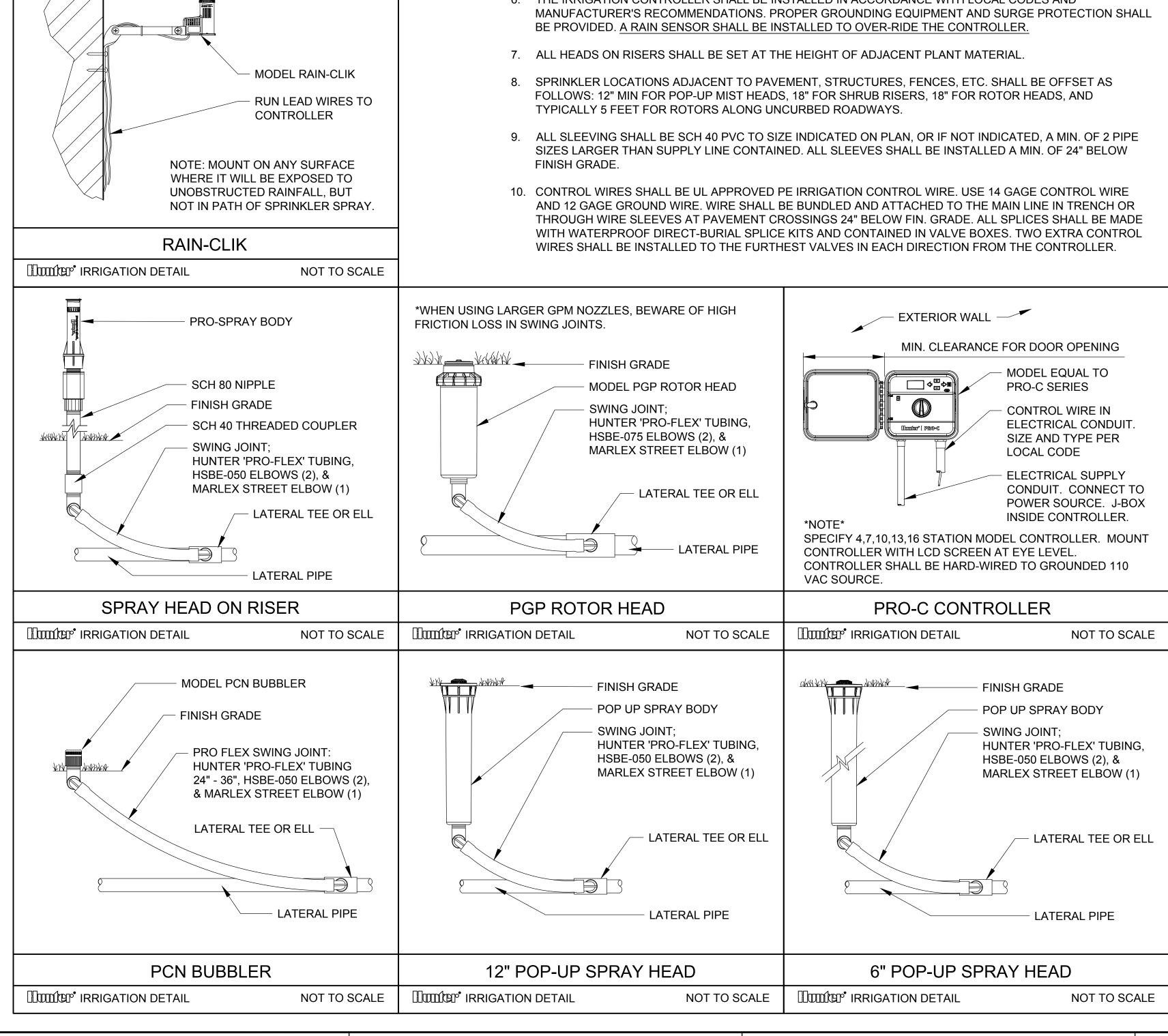
DESCRIPTION
GP 6" POP-UP ROTOR HEADS
PRAY NOZZLES: 15' RADIUS, WITH PRO SPRAY BODY
PRAY NOZZLES: 12' RADIUS, WITH PRO SPRAY BODY
PRAY NOZZLES: 10' RADIUS, WITH PRO SPRAY BODY
PRAY NOZZLES: 8' RADIUS, WITH PRO SPRAY BODY
ND SPRAY: ES515, WITH PRO SPRAY BODY
IDE SPRAY: SS515, WITH PRO SPRAY BODY
ULTI-STREAM BUBBLERS: MSBN SERIES
UBBLERS: PCN SERIES
VE: ELECTRONIC, EQUAL TO IRRITROL, SIZE PER METEK OR CARSON 12"X18" VALVE BOX
SS GATE VALVE, SAME SIZE AS MAINLINE, IN PVC COLLAR EXTENSION AND VALVE BOX
ODULAR IRRIGATION CONTROLLER EQUAL TO RIES WITH SOLAR SYNC, TO BE LOCATED PER PREFERENCE
SCH 40 PVC OR RATED EQUAL CLASS TO BE MIN. 24" AND MAX. 36" DEEP
SCH 40 PVC WITH SCH 80 PVS FITTINGS LOCKS AT STRESS POINTS, SITE PER PLAN
PIPING: PVC CLASS 200 IGS AND GLUE JOINTS, PER SPECIFICATIONS

Solution 2015 States Atlantic Boulevard Pompano Beach, FL 33060 PH: (954) 788-3400 Florida Certificate of Authorization # - 7928			
BID / CONTRACT NO. :			
REV NO. 1	VISIONS DESCRIPTION SITE PLAN REVISION	DATE 01/11/19	
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	MICHAEL J. PHILLIPS, RLA FLORIDA REG. NO. LA00015		
(FOR THE FIRM)			
IRRIGATION PLAN			
SHEET NUMBER			
	SHEET of 27	24	
	PROJECT NO. 09725.2	<u> </u>	

EXTERIOR WALL (SEE NOTE)

# **IRRIGATION NOTES**

- THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL REQUIRED TO MAKE THE SYSTEM FUNCTION PROPERLY. ALL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ALSO STATE AND/OR LOCAL CODES.
- 2. IRRIGATION PLANS ARE SCHEMATIC AND DRAWN FOR GRAPHIC CLARITY. ALL PIPING BELOW PAVEMENT SHALL BE SLEEVED. LAYOUT OF IRRIGATION SYSTEM SHALL BE COORDINATED WITH CORRESPONDING LANDSCAPE PLAN.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL UNDERGROUND UTILITY PROVIDERS TO VERIFY LOCATIONS. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE PRIOR TO INSTALLATION AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
- VALVE LOCATIONS ARE SCHEMATIC ONLY AND WILL BE ADJUSTED FOR SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A AMETEK OR CARSON VALVE BOX. THE FLOW ADJUSTMENT FEATURE WILL BE USED TO BALANCE PRESSURE THROUGHOUT THE SYSTEM.
- 5. PIPING SHALL BE SIZED TO MINIMIZE FRICTION LOSS AND MAINTAIN FLOW VELOCITY BELOW 5 FPS.
- 6. THE IRRIGATION CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PROPER GROUNDING EQUIPMENT AND SURGE PROTECTION SHALL BE PROVIDED. A RAIN SENSOR SHALL BE INSTALLED TO OVER-RIDE THE CONTROLLER
- FOLLOWS: 12" MIN FOR POP-UP MIST HEADS, 18" FOR SHRUB RISERS, 18" FOR ROTOR HEADS, AND TYPICALLY 5 FEET FOR ROTORS ALONG UNCURBED ROADWAYS.
- SIZES LARGER THAN SUPPLY LINE CONTAINED. ALL SLEEVES SHALL BE INSTALLED A MIN. OF 24" BELOW FINISH GRADE.
- AND 12 GAGE GROUND WIRE. WIRE SHALL BE BUNDLED AND ATTACHED TO THE MAIN LINE IN TRENCH OR THROUGH WIRE SLEEVES AT PAVEMENT CROSSINGS 24" BELOW FIN. GRADE. ALL SPLICES SHALL BE MADE WIRES SHALL BE INSTALLED TO THE FURTHEST VALVES IN EACH DIRECTION FROM THE CONTROLLER.



- 11. PIPING IN NARROW PLANTING AREAS, PARKING ISLANDS AND PLANTERS SHALL BE SET TO ONE SIDE TO ALLOW ROOM FOR ROOT BALLS. PIPE AS INDICATED ON PLAN IS SCHEMATIC AND SHOULD BE ADJUSTED FOR FIELD CONDITIONS.
- 12. ALL GLUE JOINTS SHALL BE CLEANED, SANDED, AND TREATED WITH A COLORED HIGH ETCH PRIMER AND JOINED USING A SOLVENT CONFORMING WITH ASTM D2564.
- 13. SYSTEM PIPE SIZE 3/4" SHALL BE CLASS 200 PVC; SYSTEM PIPE SIZE 1" OR GREATER SHALL BE CLASS 160 PVC. SYSTEM MAIN WILL BE SCH. 40 PVC TO SIZE INDICATED ON PLAN. ALL FITTINGS WILL BE SOLVENT WELD SCH 40 PVC. MAIN LINE SHALL HAVE 24" MINIMUM COVER; ALL OTHER PIPING WILL HAVE 12" MIN. COVER. ALL BACKFILL FOR PIPE TRENCHES SHALL BE CLEAN AND FREE OF FOREIGN DEBRIS AND SHARP OBJECTS; BACKFILLED TRENCHES SHALL BE PROPERLY COMPACTED. ALL MAIN LINES WILL BE INSTALLED A MIN. OF 3' FROM ANY TREE OR PALM.
- 14. WATERING TIME PER STATION WILL BE DETERMINED IN THE FIELD AND PER LOCAL REQUIREMENTS. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PRECIPITATION RATES OF SPRINKLERS SPECIFIED.
- 15. IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE WITH 50% OVERLAP MIN. PROVIDE BUBBLERS FOR ALL NEW AND RELOCATED TREES AND PALMS.
- 16. RUST CONTROL SYSTEM TO BE INSTALLED WITH PUMP STATION (IF FROM WELL).
- 17. THE IRRIGATION SYSTEM IN THE RIGHT-OF-WAY IS TO INCORPORATE LOW TRAJECTORY SPRAY HEADS TO MINIMIZE OVERSPRAY.
- 18. AS-BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND GIVEN TO THE OWNER PRIOR TO FINAL ACCEPTANCE.

# CITY OF DELRAY IRRIGATION REQUIREMENTS:

ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH A FULLY AUTOMATED SPRINKLER SYSTEM THAT WILL PROVIDE COMPLETE COVERAGE OF ALL PLANT MATERIALS AND GRASS TO BE MAINTAINED. ALL SYSTEMS SHALL BE DESIGNED TO ALLOW FOR HEAD-TO-HEAD COVERAGE. LOW-VOLUME IRRIGATION SYSTEMS, SUCH AS DRIP OR MICRO-IRRIGATION SYSTEMS, ARE STRONGLY ENCOURAGED.

- WATERING RESTRICTIONS. THE LANDSCAPE IRRIGATION RESTRICTIONS SET FORTH BY THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), AS AMENDED, ARE HEREBY ADOPTED AND INCORPORATED AS IF SET FORTH.
- 2. IRRIGATION OF EXISTING PLANT COMMUNITIES. EXISTING PLANT COMMUNITIES AND ECOSYSTEMS, MAINTAINED IN A NATURAL STATE, DO NOT REQUIRE AND SHALL NOT HAVE ANY ADDITIONAL IRRIGATION WATER ADDED IN ANY FORM.
- RE-ESTABLISHMENT OF NATIVE PLANT COMMUNITIES. NATIVE PLANT AREAS THAT ARE SUPPLEMENTS TO AN EXISTING PLANT COMMUNITY OR NEWLY INSTALLED BY THE DEVELOPER MAY INITIALLY REQUIRE ADDITIONAL WATER TO BECOME ESTABLISHED. THE WATER REQUIRED DURING THE ESTABLISHMENT PERIOD SHALL BE APPLIED FROM A TEMPORARY IRRIGATION SYSTEM, A WATER TRUCK OR BY HAND WATERING FROM A STANDARD HOSE BIB SOURCE
- 4. IRRIGATION DESIGN STANDARDS AND PRACTICES. THE FOLLOWING STANDARDS SHALL BE CONSIDERED THE MINIMUM REQUIREMENTS FOR LANDSCAPE IRRIGATION DESIGN:
  - (a) ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH A FULLY AUTOMATED SPRINKLER SYSTEM THAT USE OF RECYCLED WATER IS ENCOURAGED
  - SHALL INSTALL. OPERATE AND MAINTAIN RUST INHIBITOR EQUIPMENT TO PREVENT STAINING OF STRUCTURES AND PAVEMENTS.
  - (c) WHEREVER FEASIBLE, SPRINKLER HEADS IRRIGATION LAWNS OR OTHER HIGH WATER DEMAND IRRIGATING TREES. SHRUBBERY OR OTHER REDUCED WATER REQUIREMENT AREAS
  - (d) AUTOMATICALLY CONTROLLED IRRIGATION SYSTEMS SHALL BE OPERATED BY AN IRRIGATION SCHEDULE FROM LOW WATER REQUIREMENT AREAS.
- (e) SPRINKLER HEADS SHALL BE INSTALLED AND MAINTAINED SO AS TO MINIMIZE SPRAY UPON ANY PUBLIC ACCESS, SIDEWALK, STREET OR OTHER NON-PERVIOUS AREA
- OF WIND VELOCITY ON THE SPRAY SYSTEM.
- (g) THE USE OF LOW VOLUME OR DRIP SYSTEMS IS ENCOURAGED. (h) ALL NEW INSTALLATIONS OF LANDSCAPE IRRIGATION SYSTEMS, AND MODIFICATIONS OF EXISTING
- (i) THE USE OF POP-UP SPRINKLER HEADS IS REQUIRED IN THE SWALE AREA BETWEEN THE PROPERTY LINE AND THE EDGE OF PAVEMENT OF THE ADJACENT RIGHT-OF-WAY TO MINIMIZE PEDESTRIAN HAZARD.
- (k) PLANTS SHALL BE GROUPED TOGETHER BY IRRIGATION DEMAND. (I) THE PERCENTAGE OF LANDSCAPED AREA IN IRRIGATED HIGH WATER USE HYDROZONES SHOULD BE MINIMIZED. LANDSCAPE PLANS SHALL DEPICT THE DIFFERENT HYDROZONES AND IRRIGATE
- ACCORDING TO DEMAND.

WILL PROVIDE COMPLETE COVERAGE OF ALL PLANT MATERIALS AND GRASS TO BE MAINTAINED. THE

(b) ALL NEW INSTALLATIONS OF LANDSCAPE IRRIGATION SYSTEMS AND SUBSTANTIAL MODIFICATIONS OF EXISTING IRRIGATION SYSTEMS WHICH USE WELL WATER, EXCLUDING SINGLE FAMILY RESIDENCES,

LANDSCAPE AREAS SHALL BE CIRCUITED SO THEY ARE ON A SEPARATE ZONE OR ZONES FROM THOSE

CONTROLLER THAT IS CAPABLE OF WATERING HIGH WATER REQUIREMENT AREAS ON A DIFFERENT

(f) THE USE OF LOW TRAJECTORY SPRAY NOZZLES IS ENCOURAGED IN ORDER TO REDUCE THE EFFECT

SYSTEMS, SHALL BE EQUIPPED WITH A RAIN SENSING DEVICE WHICH WILL OVERRIDE THE IRRIGATION CYCLE OF THE SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED. FURTHER, THESE RAIN SENSING DEVICES MUST BE OPERATED AND MAINTAINED FOR THE LIFE OF THE IRRIGATION SYSTEM.

(j) THE PLANT PALETTE AND IRRIGATION SYSTEM SHALL BE APPROPRIATE FOR SITE CONDITIONS, TAKING INTO ACCOUNT THAT, IN SOME CASES, SOIL IMPROVEMENT CAN ENHANCE WATER USE EFFICIENCY.

(m) ALL IRRIGATION SYSTEMS SHALL MEET CURRENT BEST MANAGEMENT PRACTICES AS ESTABLISHED BY THE MOST CURRENT VERSION OF THE FLORIDA GREEN INDUSTRIES BEST MANAGEMENT PRACTICES HANDBOOK, INCLUDING THE UNIFORM DISTRIBUTION OF WATER THROUGHOUT ALL ZONES.

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consulting eng			
301 East Atlantic Bou Pompano Beach, Florida 3			
2160 NW 82 <sup>nd</sup> Aver Doral, Florida 331			
PH: (954) 788-340			
Florida Certificate Authorization # - 7			
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