GE	NERAL NOTES	LA	ND:	
1.	The contractor shall become familiar with the project site prior to bidding the work. The contractor shall field verify all existing conditions and location of proposed improvements prior to initiating any construction.	1.	The	
2.	Location of all utilities and base information is approximate. contractor shall verify all underground utilities and obstructions prior to initiating work. Contractor shall be responsible for repair or replacement of any damage to existing elements above or below ground to its ariginal condition and to the satisfaction of the owner's representative.	2.	The resp awa	
3.	The owner's representative shall have the right, at any stage of the operations, to reject any and all work and material which, in his opinion, do not most with the requirements of these plans and specifications.	3.	All per	
1.	Contractor shall verify all grades, dimensions, and existing conditions on the job site prior to start of construction and/or fabrication.	4.	Prio pho	
	Contractor shall notify owner's representative of any variations from the dimensions and conditions shown on these drawings.	5.	All	
j.	The contractor shall provide all necessary safety measures during construction operations to protect the public according to all	6.	spe If p	
	applicable codes and recognized local practices.		suc be	
	The contractor shall coordinate access and staging areas with the owner's representative. The contractor shall maintain all existing erosion and sedimentation control measures during construction. Provide additional measures as necessary to minimize adverse impacts in accordance with all applicable federal, state, and local codes.	7.	The	
	No substitutions shall be made without written consent of the owner's representative. During the course of this work, excess waste material shall be removed daily from the site.	8.	The dar spe	
•	The contractor shall be responsible for scheduling and coordination of work with other trades and the owner's representative.	9.	The	
Э.	The contractor shall notify all necessary utility companies 48 hrs minimum prior to digging for field verification of all underground utilities. Utility locating shall be scheduled by the contractor with owner's representative present.	10.	Pec	
1.	Utilities to be located by flagging only; painting of hardscape areas is prohibited. Contractor shall be responsible for notifying utility locating companies of this requirement.	11.	Сог	
2.	All existing site roads, parking lots, curbs, utilities, sewers, and other elements to remain shall be fully protected from any damage unless otherwise noted.	12.	Cor aro	
3.	Not all items shown on this sheet appear in the construction documents. Contractor is responsible for obtaining <u>ALL</u> permits related to construction including, but not limited to: Building, Landscape, Irrigation and Right-Of-Way utilization permits	13.	The tes	
	construction including, but not infliced to: building, Landscape, infgation and hight of Way utilization permits.	14.	Cor rep	
		15.	All Pla	
)F	MOLITION NOTES	16.	All	
_		17.	Сог	
•	All base information provided by owner, contractor shall field verify all information prior to beginning work.	18.	Сог	
•	Plans are prepared according to the best information available at the time of preparing these documents.	19.	Со	
	The contractor shall become completely familiar with existing site conditions prior to beginning installation. All existing site improvements, paving, landscape, lighting, and other site elements to remain shall be protected from damage unless otherwise noted.	20.	Coi relo	
	The contractor shall report any discrepancies between the construction drawings and actual field conditions to the owner's representative immediately.	21.	Ma cor	
	The contractor shall coordinate all work with related contractors and with the general construction of the project in order to not impede the progress of work of others or the contractor's own work.	22	nec	
,	Contractor shall coordinate access and staging area with the owner.	22.	the	
	Report and document all existing damage of existing site features and elements to the owner prior to beginning work. Contractor shall be responsible for all subsequent damage.	23.	Cor cor	
	Contractor shall protect, by whatever means necessary, the existing site features and elements to remain. All damaged items shall be replaced or repaired at no additional cost to the owner. Notify owner immediately if any damages occur.	24.	Сог	
	Contractor shall provide all necessary safety measures that may be required during the construction process to protect the public and owner at all times as per all applicable codes and recognized local practices.	25.	fro	
Э.	Contractor shall refer to the hardscape, fencing, landscape and irrigation plans and details for complete instructions.	26.	Со	
1.	Coordinate all irrigation demolition with the irrigation contractor and irrigation plans/details typical.	<u>TR</u>	REE I	
2.	Contractor shall protect all existing plant materials indicated on the plans to remain. All plant material indicated to remain damaged by the contractor at no additional cost to the owner with same size, quality, and type of plant material.	1.	Pro -Ur	
3.	Contractor shall be responsible for all erosion control and protection measures as may be required by locally approved means. contractor shall follow all local governing codes and requirements.		-Sk -Sn	
1.	Contractor shall clean the work areas at the end of each working day. Construction rubbish and debris shall be collected and deposited off-site daily. All materials and equipment stored on-site shall be kept in an organized manner daily.	2.	Pro clu:	
5.	Contractor shall layout all demolition lines and verify layout with the owner's representative prior to beginning any construction work.	3.	For	
6.	The contractor shall comply with FL 77-153 regarding notification of existing gas & oil pipeline company owners and shall notify Sunshine State One Call of Florida (SSOCOF) at 1-800-432-4770 prior to excavating. Evidence of such notice shall be furnished to the			
	owner prior to excavation.	6	cha	
		0.	bee of t	
		7.	Roo tree	
		8.	No	
		9.	No	
		10.	A p Lim	
		11.	All to r	
			anr	

SCAPE NOTES

contractor shall review plans to become thoroughly familiar with surface and subsurface utilities.

plant quantities shown on the landscape contract documents are for the convenience of the contractor. The contractor is ponsible for verifying all quantities and reporting any discrepancies to the landscape architect for clarification prior to contract ard and commencement of work.

installation of plant material shall comply with applicable jurisdictional codes. The contractor is responsible for obtaining all mits associated with this work.

or to planting installation, the contractor shall confirm the availability of all the specified plant materials. Submit dated ptographs of all tree material and specimen material as to the owner's representative for review.

plant material sizes specified are minimum sizes. container size shall be increased if necessary to provide overall plant size cified.

plant material does not comply with the requirements as specified herein, the owner's representative reserves the right to reject ch plants and require the contractor to replace rejected work and continue specified maintenance until re-inspected and found to acceptable.

contractor shall provide an approved planting soil mixture for all plant material. see specifications for requirements.

contractor shall be responsible for stability and plumb condition of all trees and shrubs, and shall be legally liable for any nage caused by instability of any plant materials. staking of trees or shrubs shall be done in accordance with plans and cifications.

contractor shall insure adequate vertical drainage in all plant beds and planters. If inadequate vertical drainage is encountered, contractor shall submit recommendations for providing adequate drainage to the owner's representative.

sod on slopes greater than 3:1.

ntractor shall protect existing vegetation to remain as shown on drawings or by means approved by the owner's representative.

ntractor to clean, prune, and shape edges of existing vegetation as directed by owner's representative. Create smooth bed lines und existing vegetation.

contractor shall bear all costs of testing of soils, amendments, etc. associated with the work. See specifications for additional ting requirements.

ntractor shall field-adjust location of plant material prior to initiating installation for the review and approval of the owner's resentative.

plant material shall be in full and strict accordance with Florida No. 1 grade, according to the "Grades and Standards for Nursery ints" published by the Florida Department of Agriculture and Consumer Services.

planting beds shall be top-dressed with a 3" layer of mulch as specified.

ntractor shall coordinate all planting work with irrigation work. contractor shall be responsible for all hand watering as required to pplement irrigation watering and rainfall.

ntractor shall be responsible for hand watering in all planting areas, regardless of the status of existing or proposed irrigation.

ntractor shall re-grade all areas disturbed by plant removal, relocation, and/or installation work.

ntractor shall replace (by equal size and quality) any and all existing plant material disturbed or damaged by plant removal, ocation, and/or installation work.

aintenance shall begin after each plant has been installed and shall continue until the project has been deemed substantially nplete. maintenance includes watering, pruning, weeding, mulching, replacements of sick or dead plants, and any other care cessary for the proper growth of the plant material.

on completion of all landscaping, an inspection for substantial completion of the work shall be held. The contractor shall notify owner's representative for scheduling the inspection at least seven (7) days prior to the anticipated inspection date.

ntractor shall submit written guarantee of survivability of all plant material for a period of one year from date of substantial npletion.

ntractor must review and accept, approve all graded areas prior to the commencement of planting.

ees adjacent to buildings should be planted at least the diameter of the tree canopy or a min. of 10'-0" (whichever is greater) away om the building wall.

ntractor is responsible for the repair of any existing lawn areas or planting areas disturbed during the construction process.

PROTECTION AND PRESERVATION NOTES

tect designated existing trees scheduled to remain against: nnecessary cutting, breaking, or skinning of roots inning and bruising of bark

nothering of trees by stockpiling construction or excavation materials within protection barrier

tection barriers (tree barricades) shall be plainly visible and shall create a continuous boundary around trees or vegetation sters in order to prevent encroachment within the barricade.

all trees to be preserved, see Tree Protection and Barricade Elevation detail.

grade changes shall be made within the protective barrier zones without prior approval.

method of protection is to make certain that 50% of the area under the canopy dripline remains undisturbed (no grade ange or root cut) and there shall be no disturbance to the root plate.

neral contractor shall be responsible for the replacement and mitigation costs of trees damaged beyond repair that have en identified as protected and preserved. If trees are harmed through lack of protection or through negligence on the part the contractor, the contractor shall bear the burden of the cost of repair or replacement.

ot pruning shall be done by or under supervision of an ISA certified arborist, and meet or exceed ANSI A300 or approved e care industry standards. A certified arborist must be onsite during the entirety of root pruning.

proot pruning shall be done within a distance of 3x the diameter the tree unless authorized by the arborist.

more than 30% of the trees roots may be pruned.

oruning trench shall be cleared in a way that exposes the roots while leaving them intact. Use hand tools or an air knife. nits of trench to be determined by the arborist.

roots outside of the protective barricade to be removed during the development shall be severed clean using a sharp tool provide a clean cut. Roots shall be left with clean smooth ends and no ragged edges and a two-inch layer of mulch shall be pplied over the surface of exposed roots during development within one hour of damage or exposure.

12. After pruning, tree roots shall be covered and kept moist. Fill pruning trench with topsoil and water daily for a period determined by the arborist.

HARDSCAPE NOTES

- representative prior to pouring (give a min. of 48 hrs. notice).
- 3. For site grading and drainage, see civil engineer's plans
- the owner's representative.
- necessary.
- construed as continuous and detailed inspections.
- and footings.

- representative prior to installation.
- information and handicap ramp detailing
- will not be acceptable

1. All dimensions are taken from center of wall, face of curb and/or centerline of roads at 90 degree, angles, unless otherwise noted on plan. The dimensions are shown for approximate line and all radii and curves are to have continuous and smooth transitions without abrupt changes or bends.

2. All forms and alignment of paving, pilasters and walls shall be inspected and approved by the owner's

4. Contractor shall verify location of all surface and subsurface utilities prior to construction.

5. These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of

6. Contractor must check all dimensions, framing conditions and site conditions before starting work. Owner's representative shall be notified immediately of any discrepancies or possible deficiencies.

7. Do no willfully install or construct items as shown on the drawings whit it is obvious in the field that unknown obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the owner's representative. In the event this notification is not performed, the contractor shall assume full responsibility for all revisions

8. Conditions not specifically shown shall be constructed similar to the details for the respective materials.

The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc. is the sole responsibility of the contractor. Observation visits to the job site by the owner's representative do no include inspection of construction methods and for safety conditions at the work site. These visits shall not be

10. Contractor shall refer to soils engineer's report for percentages of compaction required for all concrete flatwork

11. All construction and workmanship shall conform to the current uniform and Florida Building Code.

12. All concrete walks shall not exceed a slope of 1:20, and cross slopes on all concrete sidewalks shall not exceed 2%. If the sidewalk does exceed this slope, ADA compliant handicap ramps will be required.

13. All handicap ramps shall not exceed a 1:12 slope and shall meet all ADA requirements for landings and handrails.

14. Site furnishings shall be installed per manufacturer's recommendations, or as recommended in the drawings. Details provided in the drawings for anchoring and furnishings are provided for intent only. It shall be the contractor's responsibility to coordinate with the manufacturer & submit anchoring details for approval by owner's

15. The contractor shall stake and layout all improvements using the geometric data provided. it is the contractor's responsibility to completely stake and check the alignment both vertical and horizontal, and to insure adequate positioning prior to the installation of any improvement. The contractor shall notify the owner immediately in writing if any discrepancies are found and not proceed with the work until directed.

16. Refer to civil engineer's drawings for roadway pavement grading, curb information, all site drainage/grading

17. Unless otherwise expressly approved in writing by the owner all control joints shall be hand tooled. Saw cutting





PLANT SCHEDULE

	TREES		<u>QTY</u>	BOTANICAL NAME	COMMON NAME	CONT.	CALIPER	SIZE
\sim		JS	11	JUNIPERUS SILICICOLA `BRODIE`	SOUTHERN RED CEDAR	45 GAL	2.5" CAL.	10`-12` HT.
/ _+	-	LI	21	LAGERSTROEMIA INDICA `TUSCARORA`	CRAPE MYRTLE (MULIT-TRUNK)	30 GAL.	2" CAL.	8`-9` HT. X 5`-6` SPRD
		MG	3	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	65 GAL.	2.5" CAL.	10`-12` HT. X 5`-6` SPRD.
•		QVS	5	QUERCUS VIRGINIANA `SKY CLIMBER`	SKY CLIMBER SOUTHERN LIVE OAK	65 GAL.	3" CAL.	8`-10` HT.
	SHRUBS	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	CONT.	<u>SIZE</u>	SPACING
	$\bigcirc \bigcirc$	THR	35	THRYALLIS GLAUCA	THRYALLIS	3 GAL.	18"-24"	24" OC.
	$\textcircled{\bullet}$	VO	36	VIBURNUM OBOVATUM	WALTER`S VIBURNUM	3 GAL.	24" OA.	24" OC.
	+	VS	243	VIBURNUM SUSPENSUM	SANDANKWA VIBURNUM	3 GAL.	24" OA.	36" O.C.
	SHRUB AREAS	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	SPACING
		ZP	14	ZAMIA PUMILA	COONTIE	3 GAL.	FULL	24" O.C.
	GROUND COVERS		QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	SPACING
		PN	7,819 SF	PASPALUM NOTATUM	BAHIA SOD			

Landscape Code Compliance Table 109

Building Perimeter <u>275</u> LF (<u>320</u> LF with fire equipment doors) Required

3' Landscape Strip for 40% of Building Perimeter @ 275 If x .40 = 110 Linear Feet to be Treated

3 Ornamental Trees per 100 lf @ <u>110</u> lf = <u>3.3</u> Trees = <u>4</u> Trees

1 Canopy Tree per 100 lf @ <u>110</u> lf = <u>1.1</u> Trees = <u>2</u> Trees

28 Shrubs per 100 lf @ <u>110 lf</u> = <u>30.8</u> Shrubs=<u>31</u> Shrubs

Internal parking areas: single row terminal islands.

Required

2 Canopy Tree

2 Row Screening Shrubs

East Perimeter/ Residential (R-3) <u>350.4 LF</u> (Type C Landscape Buffer) Required

25' wide buffer

4 Canopy trees per 100 If @ <u>205.4</u> If = <u>8.2</u> Trees = <u>9</u> Trees

3 Ornamental trees per 100 lf @ <u>205.4 lf= 6.2</u> Trees = <u>7</u> Trees 2 rows of shrubs

50' wide buffer

2 Canopy trees per 100 If @ <u>145</u> If = <u>2.9</u> Trees=<u>3</u> Trees

1 Ornamental trees per 100 If @ <u>145 If= 1.45</u> Trees = <u>2</u> Trees 2 rows of shrubs

*Substitution. Ornamental trees may be used in place of canopy trees at a ratio of two (2) ornamental trees to replace each canopy tree in situations where height restrictions or root zone intrusion issues are shown to be a concern, such as under power lines.

South Perimeter/ Gas Station (PUD) <u>236 LF</u> (Type B Landscape Buffer) Required

20' wide buffer

2 Canopy trees per 100 lf @ <u>236 lf</u>= <u>4.7</u> Trees=<u>5</u> Trees

3 Ornamental trees per 100 lf @______ If= ____7.1__ Trees = <u>8</u> Trees

1 row of shrubs

Fire Stations and Emergency Management Facilities Requirements

-Required roadway line of site visibility for emergency vehicles to exit properly -Trees shall not be located withing 100 feet of either side of access driveway -Shrubs and groundcovers shall not exceed 3 feet in height



Compliance

- _____ Ornamental Trees Shown (4 LI)
- 2 Canopy Trees Shown (Existing Camphor and Live Oak)
- <u>67</u> Shrubs Shown

Compliance

2 Canopy Tree (2 QVS) <u>2</u> Row Screening Shrubs

Compliance

- <u>9</u> Canopy Trees (8 JS + 1 MG)
- <u>7</u> Ornamental Trees (7 Ll)
- 2_Rows of Shrubs

<u>3</u> Canopy Trees (2 MG + 1 QVS)

- <u>2</u> Ornamental Trees (2 LI)
- _2_Rows of Shrubs

Compliance

- <u>5</u> Canopy Trees (3 JS + 2QVS)
- <u>8</u> Ornamental Trees (8 LI)
- _1_ Row of Shrubs







GRAPHIC SCALE

(IN FEET)

Ν













GRAPHIC SCALE

SPECIFICATIONS - IRRIGATION, SECTION 328400

PART 1 - GENERAL 1.1 DESCRIPTION

A. FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND TRANSPORTATION, UNLESS OTHERWISE SPECIFIED, NECESSARY TO PROVIDE AN AUTOMATIC IRRIGATION SYSTEM FOR LANDSCAPE PLANT MATERIALS AND TURF AND MULCH AREAS.

1.2 APPLICABLE STANDARDS

- A. AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS \$376.1, "DESIGN, INSTALLATION AND PERFORMANCE OF UNDERGROUND,
- THERMOPLASTIC IRRIGATION PIPELINES." B. ASTM D2774, "UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING."
- C. ASTM D1785, POLY (VINYL CHLORIDE) (PVC) PLASTIC PIPE, SCHEDULES 40, 80, AND 120.
- D. ASTM D2241 POLY (VINYL CHLORIDE) (PVC) PLASTIC PIPE (SDR-PR).

1.3 SUBSTITUTIONS

A. WHEREVER BRAND NAMES ARE USED IN THESE SPECIFICATIONS, USE ONLY THE BRAND SPECIFIED. MAKE NO SUBSTITUTIONS AS A PART OF THIS BID PACKAGE.

PART 2 - MATERIALS

2.1 PIPE

A. FURNISH ALL UNDERGROUND PIPING AS PVC EXCEPT FOR THE FLEXIBLE POLYETHYLENE (POLY PIPE) PIPING THAT IS TO BE USED BETWEEN THE LATERALS AND SPRINKLER HEADS. ALL PVC PIPE SHALL BE CL 200 (SDR 21) PVC OR BETTER. INSTALL ALL PIPE AS PURPLE PIPE TO DENOTE REUSE WATER.

- B. SIZE EACH SLEEVE AT LEAST TWICE (2X) THE SIZE OF THE PIPE BEING ROUTED THROUGH IT. INSTALL EACH CONTROL WIRE SLEEVE OF SUFFICIENT SIZE FOR THE REQUIRED NUMBER OF WIRES BEING ROUTED THROUGH IT UNDER THE AREA SPECIFIED. CONSULT WITH THE
- OWNER OR OWNER'S REPRESENTATIVE FOR THE LOCATION, DEPTH, NUMBER AND SIZE OF ANY AVAILABLE EXISTING SLEEVES.
- C. INSTALL ALL ABOVE GROUND PIPE AS D.I.P. OR GALVANIZED PIPE.
- D. INSTALL ALL MAIN LINE AS CL 200 GASKETED PVC PIPE.
- E. INSTALL ALL ZONE PIPING AS CL 200 OR BETTER SOLVENT WELD PVC.

2.2 PIPE FITTINGS

- A. FOR ALL PVC PIPE, USE SCHEDULE 40, SOLVENT WELD FITTINGS, MANUFACTURED FROM PVC 12454-B COMPOUND AND TESTED IN ACCORDANCE WITH ASTM D2466, EXCEPT FOR THREADED FITTINGS. FOR THREADED APPLICATIONS, USE SCHEDULE 80 FITTINGS MANUFACTURED FROM PVC 12454- B COMPOUND AND TESTED IN ACCORDANCE WITH ASTM D2467.
- B. CONNECT ALL SWING JOINTS OR "POLY PIPE" SWING ASSEMBLIES TO THE IRRIGATION PIPELINE WITH A SCHEDULE 80 TEE, AS DESCRIBED ABOVE.
- C. DO NOT USE MALE ADAPTERS FOR ANY APPLICATIONS. INSTEAD, USE ONE HALF OF A SCHEDULE 80 NIPPLE GLUED INTO A SCHEDULE 40 COUPLER.
- D. CONNECT ANY PVC PIPING TO GALVANIZED PIPING USING A TOE NIPPLE.

2.3 SOLVENT CEMENT AND PRIMER

A. USE A MEDIUM OR HEAVY BODY GRAY SOLVENT CEMENT MANUFACTURED IN ACCORDANCE WITH ASTM D2564 AND PRIMER MANUFACTURED IN ACCORDANCE WITH ASTM F656.

2.4 SPRINKLERS

A. INSTALL RAIN BIRD 1804-SAM SERIES SPRINKLERS WITH APPROPRIATE NOZZLES FOR ALL SUPPLEMENTAL TREE IRRIGATION APPLICATIONS.

2.5 ELECTRIC VALVES

USE ELECTRIC VALVES PER THE LEGEND FOR ALL APPLICATIONS.

2.6 CONTROLLER

A. USE A CONTROLLER WITH A MATCHING BRAND RAIN/FREEZE SENSOR FOR THIS SYSTEM PER LEGEND

2.7 WIRE

- A. USE #14/1 U.F. WIRE APPROVED FOR DIRECT BURIAL UNDERGROUND FOR ALL 24 VAC APPLICATIONS.
- B. USE RED #14 AWG WIRE FOR ALL VALVE POWER WIRES OF A STANDARD WIRED SYSTEM.
- C. USE WHITE #14 AWG WIRE FOR VALVE COMMON WIRES OF A STANDARD WIRED SYSTEM.
- D. USE 5/8" OR LARGER COPPER GROUND RODS, COPPER GROUNDING PLATES, CADWELD "ONE SHOT" CONNECTORS AND #6 OR LARGER BARE COPPER WIRE FOR ALL GROUNDING APPLICATIONS FOR THIS SYSTEM.
- E. INSTALL GROUNDING AT THE CONTROLLER.

2.8 VALVE BOXES

A. USE RAIN BIRD VALVE BOXES FOR ALL APPLICATIONS.

2.9 POINT OF CONNECTION

CONNECT TO ASOURCE AT THE LOCATION SHOWN ON THE PLANS AS THE POC FOR THIS SYSTEM. ASSURE THAT SUFFICIENT GALLONAGE AS NOTED ON THE PLANS IS AVAILABLE FOR THE IRRIGATION SYSTEM, INCLUDING THIS AND ANY OTHER PARTS, WITH ALL PARTS OF THE SYSTEM CAPABLE OF WATERING WITHIN THE REGULATED TIME.

2.10 SPLICING MATERIALS

A. USE 3M DBY SPLICE KITS FOR ALL UNDERGROUND WIRE SPLICING APPLICATIONS.

2.12 DRIP TUBING

A. INSTALL RAIN BIRD XFSP (NOT XFD) .9 GPH, 12 " O.C. DRIP TUBING AND RAIN BIRD FITTINGS FOR ALL DRIP APPLICATIONS. B. INSTALL RAIN BIRD OPERINDS FOR ALL DRIP INDICATOR APPLICATIONS. C. INSTALL RAIN BIRD ARV050 AIR RELIEF VALVES FOR ALL DRIP AIR RELIEF VALVE APPLICATIONS. D. INSTALL A 1 GALLON AUTOMATIC LINE FLUSHING VALVE AT EACH AIR RELIEF VALVE LOCATION. E. INSTALL ALL TUBING IN ACCORDANCE WITH THE MANUFACTURER'S APPLICATION RECOMMENDATIONS AND MANUALS, AND IN ACCORDANCE WITH THE DRAWINGS AND DETAILS FOR THIS SYSTEM.

2.13 TESTING MATERIALS

PART 3 - EXECUTION

3.1 GENERAL

FINISHED GRADE.

3.3 BACK FILL

B. TAMP THE BACK FILL IN LAYERS NOT TO EXCEED SIX INCHES. LIFT AND COMPACT FIRMLY AROUND THE PIPE AND UP TO AT LEAST SIX INCHES ABOVE THE TOP OF THE PIPE. SUFFICIENTLY MOISTEN THE BACK FILL TO PERMIT THOROUGH COMPACTION UNDER AND ON EACH SIDE OF THE PIPE TO PROVIDE SUPPORT FREE FROM VOIDS. AVOID DEFORMING, DISPLACING, OR DAMAGING PIPE DURING THIS PHASE OF THE OPERATION. ASSURE THAT WHEN FINISHED, THE SOIL COMPACTION EQUALS THE ORIGINAL CONDITION.

C. PVC FITTINGS: MAKE ALL SOLVENT WELD JOINTS IN ACCORDANCE WITH ASTM D2855. PRIME ALL FITTINGS WITH PURPLE PRIMER BEFORE MAKING SOLVENT WELD CONNECTIONS. ALLOW SOLVENT WELDED JOINTS AT LEAST ONE (1) HOUR TO SET UP BEFORE MOVING OR HANDLING. DO NOT PERMIT WATER IN THE PIPE FOR AT LEAST TWENTY-FOUR HOURS AFTER MAKING A SOLVENT WELD ON THAT PIPE UNLESS RECOMMENDED OTHERWISE BY THE SOLVENT CEMENT MANUFACTURER. SEAL ALL THREADED PVC FITTINGS WITH LIQUID TEFLON EXCEPT SPRINKLER HEADS, ELECTRIC VALVE CONNECTIONS AND SWING JOINTS. INSTALL ALL OF THESE EXCEPTIONS USING ONE INCH TEFLON TAPE.

3.5 FLUSHING PIPELINES

A. FLUSH ALL PIPELINES BEFORE SPRINKLERS ARE INSTALLED.

B. MAINTAIN A MINIMUM PIPE VELOCITY OF THREE FEET PER SECOND AND FLUSH FOR A MINIMUM TIME OF: T = 2L/3 WHERE T = TIME IN SECONDS & L = PIPE LENGTH IN FEET FROM INLET POINT TO MOST DISTANT POINT IN PIPELINE.

3.6 INSTALLING ELECTRIC VALVE CONTROL WIRING A. INSTALL WIRING IN THE SAME TRENCH AND ALONG THE SAME ROUTE AS, AND UNDERNEATH THE MAINLINE EXCEPT IN LOCATIONS WHERE THE WIRE WILL PASS UNDER PAVING. AT THOSE LOCATIONS INSTALL THE WIRE INSIDE OF A PVC SLEEVE. INSTALL CONTROL WIRING

THROUGH WALLS, FLOORS, AND SLABS IN PVC SLEEVES. B. USE A CONTINUOUS WIRE BETWEEN THE CONTROLLER AND VALVE. MAKE AN EXPANSION LOOP OF A MINIMUM 12 INCHES DIAMETER AT EACH WIRE CONNECTION.

C. ATTACH PERMANENT MARKINGS AT EACH END OF EACH WIRE NEAR THE VALVE TO IDENTIFY IT BY VALVE NUMBER. D. INSTALL 2 SPARE WIRES FROM THE CONTROLLER TO THE FARTHEST VALVE LOCATION.

A. LOCATION - VERIFY LOCATION WITH OWNER OR OWNER'S REPRESENTATIVE BEFORE INSTALLATION.

B. VERIFY THAT SUFFICIENT SLEEVING EXISTS TO ALLOW ROUTING OF THE VALVE WIRING FROM THE CONTROLLER TO EACH VALVE.

3.8 VALVE INSTALLATION

2.11 MATERIAL QUANTITIES

A. VERIFY ALL MATERIAL QUANTITIES BEFORE BIDDING.

A. PROVIDE ALL MATERIALS NECESSARY FOR THE TESTING OF THE SYSTEM, INCLUDING PUMPS, GENERATORS, HOSES, PIPING, FITTINGS, ETC. B. ASSURE THAT ALL ITEMS FOR TESTING ARE IN A SAFE AND ACCEPTABLE OPERATING CONDITION.

A. INSTALL PVC PIPE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REVIEW CONSTRUCTION PLANS WITH THE OWNER OR OWNER'S REPRESENTATIVE BEFORE ANY WORK BEGINS. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT/OWNER PRIOR TO INSTALLATION IF THERE IS ANY DOUBT AS TO HEAD LINE OR ZONE PLACEMENT.

B. INSPECT THE CONSTRUCTION SITE BEFORE ANY WORK BEGINS AND FLAG LOCATIONS OF MAINLINE PIPE, SLEEVES, HEADS AND VALVES FOR REVIEW BY THE LANDSCAPE ARCHITECT/OWNER. FLAGS SHALL BE CLEARLY MARKED OR COLORED TO DESIGNATE THE TYPE OF EQUIPMENT TO BE INSTALLED AT THAT POINT. INSTALLATION SHALL NOT COMMENCE UNTIL THE STAKING/ FLAGGING HAS BEEN APPROVED.

C. COORDINATE THE INSTALLATION OF THE IRRIGATION SYSTEM WITH THE LANDSCAPE CONTRACTOR TO PROVIDE FOR CORRECT APPLICATION OF WATER TO THE PLANT MATERIAL.

3.2 PIPE TRENCH CONSTRUCTION

A. PROVIDE FOR A MINIMUM DEPTH OF COVER OF 18" FOR ALL MAINLINE PIPE AND 12" OF COVER FOR ALL ZONE PIPE AS MEASURED FROM

B. PROVIDE THE MINIMUM DEPTH OF COVER, AS SPECIFIED ABOVE, OVER THE TOP OF THE PIPE BEFORE THE TRENCH IS WHEEL-LOADED.

A. PROVIDE INITIAL BACK FILL MATERIAL THAT IS FINE-GRAINED MATERIAL FREE FROM COMPACTED EARTH GREATER THAN TWO INCHES IN DIAMETER, ROCKS, OR STONES.

3.4 FITTING AND PIPE CONNECTIONS

A. SQUARE CUT, CLEAN AND PRIME ALL JOINTS BEFORE CEMENTING.

B. FULLY ENGAGE ALL JOINTS WHILE CEMENTING.

3.7 AUTOMATIC CONTROLLER INSTALLATION

A. INSTALL ALL AUTOMATIC ZONE VALVES AND BALL VALVES IN VALVE BOXES. NUMBER EACH ZONE VALVE BOX ON THE UNDERSIDE AND TOPSIDE OF EACH VALVE BOX COVER WITH BLACK WATERPROOF MARKER FOR REFERENCE. B. INSTALL ANY MAIN LINE ISOLATION VALVES IN VALVE BOXES.

3.9 INSTALLATION OF SPRAY HEADS

3.10 TESTING

- A. PRESSURE TEST THE SYSTEM MAIN LINE BEFORE APPRECIABLY BACKFILLING.

3.11 INSPECTIONS

- INSPECTION.

- FINAL INSPECTION NOTIFY 48 HOURS IN ADVANCE.

3.12 TESTING

3.13 WARRANTY

3.14 DRAWING OF RECORD

MANUAL CONTROL VALVE AND QUICK COUPLING VALVE.

3.15 ADDITIONAL SUBMITTALS

3.16 RAIN GAUGE

FREEZING TEMPERATURES.

3.17 MISCELLANEOUS

- ARCHITECT BEFORE COMMENCING WITH THE INSTALLATION.
- APPLICABLE CODES.

- SPRINKLERS.
- BEFORE CONSTRUCTION BEGINS.
- --- END OF SECTION ---

A. INSTALLATION SCHEDULE - INSTALL SPRAY HEADS AFTER THE SPRINKLER BODY ASSEMBLIES HAVE BEEN CLEANLY FLUSHED. B. ORIENTATION - INSTALL POP-UP UNITS IN A PLUMB POSITION AND FIELD ADJUST SPRINKLER HEADS TO OBTAIN COMPLETE COVERAGE OF IRRIGATED AREA WITH MINIMUM OVER SPRAY ONTO PAVED SURFACES. HEADS ARE TO BE LOCATED ON A MAXIMUM SPACING OF 55% OF THE SPRINKLER COVERAGE DISTANCE AND CLOSER WHERE INDICATED. ADJUST NOZZLE DISTANCE AS NEEDED TO COVER PLANT MATERIALS AND MINIMIZE OVER SPRAY ON STRUCTURES AND PAVEMENT. ALIGN POP-UP SPRAY HEADS IN A VERTICAL ORIENTATION AS SHOWN IN THE DETAILS. ADJUST AS NECESSARY TO PROVIDE THE BEST COVERAGE IN SLOPED AREAS. B. PRESSURE TEST THE SYSTEM MAIN LINE, IN THE PRESENCE OF THE OWNER OR OWNER'S REPRESENTATIVE, FOR A PERIOD OF NO LESS THAN 1615 EDGEWATER DRIVE, SUITE 200 ORLANDO, FLORIDA 32804 FOUR HOURS, CONTINUOUSLY, AT A PRESSURE OF NO LESS THAN 100 PSI WITH NO LEAKS. ASSURE THAT ANY TESTS OF THE SYSTEM MAIN T 407.975.1273 LINE MEET THE THE LAKE COUNTY PLUMBING CODES. IF LEAKAGE OCCURS, REMEDY THE LEAKAGE PROBLEM AND RETEST. REPEAT THIS F 407.975.1278 PROCESS AS MANY TIMES AS NECESSARY UNTIL A SUCCESSFUL TEST IS PERFORMED. www.smeinc.com A. THE FOLLOWING INSPECTIONS ARE REQUIRED. NOTIFY OWNER OR OWNER'S REPRESENTATIVE IN ADVANCE THAT EACH ITEM IS READY FOR INSPECTION OF FLAGGED UNDERGROUND MAINLINE PIPING, SLEEVES, SPRINKLER AND VALVE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION - NOTIFY 48 HOURS IN ADVANCE. • SPRINKLER COVERAGE TEST - NOTIFY 48 HOURS IN ADVANCE. FFICE OF ACILITIES VAGEMEN QF OF A. COVERAGE TESTS - CONDUCT SPRINKLER COVERAGE TESTS UNDER NORMAL OPERATING PRESSURE CONDITIONS BEFORE ANY GROUND COVER OR TURF IS PLANTED. CORRECT AND FIELD ADJUST SPRINKLER ORIENTATION TO PROVIDE UNIFORM PRECIPITATION OVER THE IRRIGATED AREA AND MINIMIZE OVER SPRAY ONTO PAVED SURFACES AND BUILDINGS. A. THE CONTRACTOR SHALL ISSUE TO THE OWNER OR OWNER'S REPRESENTATIVE A CERTIFICATE OF WARRANTY OF THE IRRIGATION SYSTEM FOR A PERIOD OF NOT LESS THAN ONE YEAR ON ALL SPRINKLERS, VALVES, THE CONTROLLER, AND HIS LABOR. A. THE CONTRACTOR SHALL SUPPLY TO THE OWNER A DRAFTED, SCALED, REPRODUCIBLE PLAN SHOWING ALL CHANGES MADE TO THE \mathbb{Z} \Box EXISTING IRRIGATION SYSTEM AND ALL NEWLY INSTALLED COMPONENTS INCLUDING ALL SPRINKLERS, INCLUDING BODY TYPES AND NOZZLES, PIPE, INCLUDING SIZES AND THE ENDS OF SLEEVING LOCATIONS AS MEASURED FROM AT LEAST TWO FIXED OBJECTS, CONTROLLER, AND WIRE ROUTING. THIS PLAN MAY BE AN ADAPTATION OF THE IRRIGATION DESIGN WITH ANY CHANGES DRAFTED ON THIS PLAN. THE DRAWING SHALL ALSO PROVIDE A MINIMUM OF TWO (2) DIMENSIONS TAKEN FROM FIXED OBJECTS TO EACH AUTOMATIC VALVE, 5 \bigcirc С Ũ A. SUPPLY TO THE OWNER ALL INSTRUCTION SHEETS AND PARTS LISTS COVERING ALL OPERATING AND ELECTRICAL-RELATED EQUIPMENT, BOUND IN ONE FOLDER. FURNISH THE OWNER WITH ANY KEYS FOR LOCKABLE ITEMS ON THIS SYSTEM. \mathbf{N} A. ASSURE THAT THE CONTROLLER IS INTERFACED WITH A RAIN/FREEZE SWITCH WHICH WILL SHUT THE SYSTEM OFF IN CASE OF RAIN OR **L** A. ANY IRRIGATION ITEMS NORMALLY INSTALLED IN LANDSCAPE AREAS THAT ARE SHOWN OUTSIDE OF LANDSCAPE AREAS OR OUTSIDE OF THE PROPERTY LINES ARE SHOWN AS SUCH FOR GRAPHIC CLARITY ONLY. INSTALL THESE ITEMS INSIDE OF PROPERTY LINES AND IN LANDSCAPE AREAS. CONTACT THE OWNER OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF IN ANY DOUBT OF HEAD, LINE OR ZONE PLACEMENT. B. ASSURE THAT THE SYSTEM PROVIDES 100% COVERAGE OF ALL LANDSCAPED AREAS. REPORT ANY DISCREPANCIES TO THE LANDSCAPE C. ALL APPLICABLE CODES SHALL TAKE PRECEDENCE OVER THESE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL D. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE MINOR FIELD CHANGES. E. FIELD ADJUST NOZZLE SELECTION LOCATIONS AND PLUMB OF SPRINKLERS TO PROVIDE PROPER COVERAGE. F. ADJUST ALL VALVE FLOW CONTROL KNOBS AND PRESSURE REGULATORS TO PROVIDE PROPER COVERAGE AND TO REDUCE FOGGING OF Landscape Firm Registration No. LC26000574 G. PROVIDE CUT SHEET SUBMITTALS OF ALL ITEMS SHOWN ON THE PLANS, DETAILS AND STATED IN THE SPECIFICATIONS FOR APPROVAL LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK -CALL SUNSHINE STATE ONE CALL NOW WHAT'S BELOV **ALWAYS CALL 811**

> Call 811 two business days before digging

BEFORE YOU DIG

It's fast, it's free, it's the law.

DRAWING NAME IRRIGATION **SPECIFICATIIONS**

5271-20-083

PROJECT NUMBER

DRAWING NUMBER



INSTALL TWO 4" SPRINKLERS WITH _SQ NOZZLES AT EACH TREE. INSTALL SPRINKLERS OPPOSING EACH OTHER WITHIN TREE WATER RETAINING SAUCERS. -MOUNDED SOIL FOR "SAUCER" -ROOT BALL IRRIGATION LINE FROM TREE SPRAY VALVE OR PIPING (SEE IRRIGATION PLANS) PIPE TYPES OR WIRES, SEE NOTES. BACKFILL WITH CLEAN SAND FREE 36" ABOVE GROUND. SPRAY PAINT FLUORESCING ORANGE AND FLAG MINIMUM 30" COVER FROM FINISHED GRADE (TOP OF ASPHALT) UNDER DRIVEWAY CROSSING. MÁXIMUM DEPTH SHALL NOT EXCEED 48". 24" UNDER ALL OTHER HARDSCAPE PVC CAP 24 UNDER ALL OTHER AND OF 42" DEPTH.

SA-7575 POLYPIPE SWING JOINT INSTEAD OF MARLEX SWING JOINT.

-FINISH OR TREE SAUCER GRADE

- SPRAY SPRINKLER

– NOZZLE







(1) TURF GRASS OR PLANTING MATERIAL

(5) 1/2" X 3/4" PVC REDUCER BUSHING

(6) BARB X FEMALE THREAD CONNECTOR: RAIN BIRD XFS-TFA FITTING

9 PVC TEE CONNECTED TO PVC HEADER PIPE

5 PVC DRIP MANIFOLD FROM RAIN BIRD CONTROL ZONE VALVE ASSEMBLY 1"

VALVE DRIP AIR RELIEF VALVE AND A RAIN BIRD "OPERIND" AT THE SUPPLY MANIFOLD, AT THE FAR ENDS OF THE DRIP TUBING AND AT EVERY 7 GPM INTERVAL OR PART THEREOF OF DRIP TUBING. ACCESS TO THE FILTER FOR FLUSHING AND SUPPLY THE OWNER WITH ALL ITEMS NECESSARY FOR FLUSHING THE FILTERS, INCLUDING ANY SHUT-OFF VALVES AND HOSES. DO NOT INSTALL RAIN BIRD XFD TUBING FOR ANY APPLICATIONS, ABOVE OR UNDER GROUND. INSTALL XFS TUBING FOR ALL APPLICATIONS.

DETAIL NOTES:

PSI

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DETAIL VARIA 527120083_I1-0_IRR

TION	NOTES

INSTALL THE FILTER IN AN ORIENTATION THAT ALLOWS THE MAINTENANCE PERSONNEL EASY

INSTALL LANDSCAPE STAPLES EVERY 2-4 FEET OF DRIP TUBING TO STABILIZE THE TUBING. INSTALL A FILTER UPSTREAM OF THE DRIP ZONE VALVE. INSTALL FILTRATION RATED FOR AT LEAST 125 PERCENT OF THE DRIP ZONE GALLONAGE STATED ON THE PLANS AND THE DRIP ZONE GALLONAGE INSTALLED.

IN LEIU OF ANY FLUSHING CAPS AS SHOWN OR NOTED ON THE DETAILS, INSTALL AUTOMATIC DRIP LINE FLUSHING VALVES THAT WILL FLUSH APPROXIMATELY ONE GALLON OF IRRIGATION WATER AT THE BEGINNING OF EACH IRRIGATION CYCLE, NETAFIM TLFV-1, TORO T-FCH-H-FHT LOC-EZE AUTOMATIC FLUSH VALVE OR EQUAL AUTOMATIC LINE FLUSHING IN ADDITION TO THE LOCATIONS NOTED ON THE DETAILS, INSTALL A LINE FLUSHING VALVE, A

XFS SUBSURFACE DRIPLINE MAXIMUM LENGTHS12-18-2012

155 169 230

255

285

290

LENGTHS (FEET) .9 GPH

XFS DRIPLINE MAXIMUM LATERAL

&

1615 EDGEWATER DRIVE, SUITE 200 ORLANDO, FLORIDA 32804 T 407.975.1273 F 407.975.1278 www.smeinc.com

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LAKE COUNTY OFFICE OF FACILITIES MANAGEMEN1

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Landscape Firm Registration No. LC26000574

PROJECT NUMBER 5271-20-083 DRAWING NUMBER

DRAWING NAME IRRIGATION

DETAILS

INSTALL RAIN BIRD XFS TUBING, NOT XFD TUBING, WITH ALL FITTINGS AS NECESSARY FOR ALL DRIP TUBING (GROUND COVER AND SHRUB) APPLICATIONS.	DRIP DRIP	SP TU
INSTALL A LINE OF TUBING 2" TO 4" FROM HARDSCAPE AND BEDLINES.	BASE	ED (
INSTALL A MINIMUM OF 2 ROWS OF TUBING IN ANY AREA.		
INSTALL TUBING ROWS ON 12" SPACING MAXIMUM.	1.	INS
INSTALL TUBING AT FINISHED GRADE UNDER THE MULCH.		IT'S
LOOP ALL RUNS OF TUBING WITH A MAXIMUM LOOP DISTANCE FROM THE SUPPLY MANIFOLD OF 300'.		P.0 DFF
INSTALL ONE PROPERLY SIZED FILTER WITH A STAINLESS STEEL 150 MESH (104 MICRONS) SCREEN FOR EACH VALVE.		HEA
INSTALL A VACUUM/AIR RELIEF VALVE AT THE OPPOSITE ENDS OF THE LOOPED DRIP NETWORK AND AT THE TERMINATION OF THE SUPPLY MANIFOLD FROM THE AUTOMATIC VALVE.		TILL
INSTALL AN AUTOMATIC LINE FLUSHING VALVE AT ALL AIR/VACUUM RELIEF VALVE LOCATIONS WITH ALL FITTINGS AS NECESSARY TO FLUSH THE SYSTEM INTO THE LANDSCAPE, WHEN THE ZONE COMMENCES OPERATION		TUE FLU
INSTALL A RAIN BIRD "OPERIND" AT EACH VACUUM/AIR RELIEF VALVE LOCATION.		CLE
DRIP TUBING QUANTITIES AND GALLONAGES ON PLANS ARE APPROXIMATE. CONTRACTOR TO VERIFY EXACT QUANTITIES AND GALLONAGES AND CONFIRM THE SYSTEM CAPABILITY TO PROVIDE THOSE GALLONAGES. CONTRACTOR TO BE PAID FOR ACTUAL QUANTITY OF DRIP TUBING AND BLANK TUBING INSTALLED UP TO A MAXIMUM QUANTITY AS SHOWN ON THE PLANS.		SYS
QUANTITIES ON PLANS DO NOT INCLUDE BLANK TUBING, LINE FLUSHING VALVES, AIR RELIEF VALVES OR PVC HEADERS. INCLUDE THESE ITEMS AND ANY OTHER ITEMS NECESSARY FOR A FULLY FUNCTIONING AUTOMATIC SYSTEM IN BID AND INSTALLATION.	2.	INS BOX
INSTALL LANDSCAPE STAPLES 6' O.C. AND ANYWHERE ELSE NECESSARY TO SECURE TUBING TO THE GROUND.		ARE SEE
FOLLOW THE MANUFACTURER'S INSTALLATION GUIDELINES INCLUDED WITH THE PRODUCTS.		
DO NOT CURVE TUBING TO LOOP AT THE ENDS OF RUNS. INSTEAD USE (2) 90 DEG. FITTINGS AND A SHORT PIECE OF TUBING.	3.	PRE
DRIP TUBING NOTES		TEN
N.T.S.		ON ON STA CH[
ANY IRRIGATION ITEMS NORMALLY INSTALLED IN LANDSCAPE AREAS THAT ARE SHOWN OUTSIDE OF LANDSCAPE AREAS OR OUTSIDE OF THE PROPERTY LINES ARE SHOWN AS SUCH FOR GRAPHIC CLARITY ONLY. INSTALL THESE ITEMS INSIDE OF PROPERTY LINES AND IN LANDSCAPE AREAS.		TO PR(HIS
PROVIDE PROOF TO THE LANDSCAPE ARCHITECT THAT ALL AVAILABLE MAINTENANCE MANUALS FOR EACH OF THE PRODUCTS INCLUDED IN THIS INSTALLATION HAVE BEEN PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE.		AV(
ANY EXISTING TREE ROOTS, WHEN ENCOUNTERED DURING INSTALLATION OF UTILITIES, SHALL BE CUT OFF EVENLY WITH CLEAN SHARP PRUNING TOOLS AND COVERED WITH SOIL AS SOON AS POSSIBLE TO REDUCE DEHYDRATION. THE CONTRACTOR/DEVELOPER SHALL MINIMIZE THE DAMAGE TO EXISTING TREE ROOT SYSTEMS.	4.	PRE POI
INSTALL THE SYSTEM IN ACCORDANCE WITH THE LOCAL CODES REGARDING IRRIGATION SYSTEMS.		INC
CONNECT TO THE PUMP DISCHARGE PIPING AS THE POINT OF CONNECTION.		

INSTALL 2 SPARE (#14 BLACK) WIRES FROM THE CONTROLLER TO THE FARTHEST VALVE LOCATION FROM THE CONTROLLER.

N.T.S.

2 GENERAL IRRIGATION NOTES

PECIFICATIONS: JBING; RAIN BIRD XFS-09-12 , ROW SPACING 12-INCHES. DRIP LAYOUT IS ON 30 PSI.

STALL DRIP SYSTEM IN THE FOLLOWING ORDER: A). WITH ALL MAINLINE AND 'S ASSOCIATE EQUIPMENT (INCLUDING PRE-FILTERING 120 MESH FILTER AT O.C.) COMPLETELY INSTALLED, FLUSH MAINLINE TILL FREE AND CLEAR OF EBRIS. B). INSTALL ALL LATERALS TO THE VARIOUS DRIP GRIDS, AND SUPPLY EADERS WITH RISERS EXTENDED ABOVE GROUND. CENTER FEED RISERS, CMPORARY EXTEND NIPPLES WITH PIPE AND COUPLINGS (DO NOT GLUE). FLUSH L FREE AND CLEAR OF DEBRIS, TEMPORARY CAP NIPPLES, SEAL BLANK JBING (RISERS) WITH TAPE. C). INSTALL EXHAUST HEADERS – RISERS – LUSH POINTS. D). INSTALL DRIP GRID, STAPLE TUBING PER DETAIL #5, DNNECT DRIP TUBING TO SUPPLY HEADER RISERS. FLUSH TILL FREE AND LEAR OF DEBRIS. E). CONNECT DRIP GRID TO EXHAUST HEADER RISERS, FLUSH (STEM USING "FLUSH POINT".

STALL OPERATION INDICATORS WITHIN 12-INCHES OF "FLUSH POINT" VALVE DX. SEE DETAIL #6. ACTIVATE DRIP ZONE, ENSURE ALL OPERATION INDICATORS RE FULLY EXTENDED, ADJUST STREAM SPRAY TO WHERE IT CAN EASILY BE TEN BY MAINTENANCE PERSON.

RESSURE TEST WITH OWNERS REPRESENTATIVE PRESENT; PER ZONE, MPORARY INSTALL (2) PRESSURE GAUGES (LIQUID FILLED PRESSURE GAUGES) N (2) FLUSH POINTS, (1) ON LARGEST GRID "FLUSH POINT" AND THE OTHER N FARTHEST GRID "FLUSH POINT". ACTIVATE ZONE, AFTER FLOW HAS TABILIZED, VERIFY ALL ZONE OPERATION INDICATORS ARE FULLY EXTENDED, HECK PRESSURE ON BOTH GAUGES, PRESSURE MUST BE 20 PSI OR HIGHER O PASS TEST. IF TEST FAILS, CONTRACTOR TO LOCATE AND CORRECT ROBLEM AND RETEST. IT IS IN THE CONTRACTORS BEST INTEREST TO PERFORM S OWN TEST BEFORE HE CALLS OWNERS REPRESENTATIVE PRESENTS TO /OID RE-INSPECTION FEE'S.

RESSURE TEST RESULTS SHALL BE NOTED AS-BUILD DRAWING BY THE "FLUSH DINT" WHERE TESTS WAS TAKEN. ALL "FLUSH POINTS" LOCATIONS SHALL BE CLUDED IN AS-BUILD DRAWINGS.

DRIP IRRIGATION SPECIFICATIONS

& LEGEND RAIN BIRD XFSP-CV .9 GPH, 12" O.C. DRIP TUBING INSTALLED UNDER MULCH LOCATION OF DRIP AIR RELIEF VALVE, LINE FLUSHING VALVE AND RAIN BIRD OPERIND RAIN BIRD 1804-SAM-PRS-R WITH SQ NOZZLE - TREES POINT OF CONNECTION TO EX. POT. LINE DOWNSTREAM OF METER - CONFIRM 15 GPM AT 40 PSI 3/4" RPZ BACKFLOW PREVENTER 1615 EDGEWATER DRIVE, SUITE 200 RAIN BIRD ESP-ME3 4 STATION CONTROLLER WITH LNK WIFI ORLANDO, FLORIDA 32804 T 407.975.1273 RAIN BIRD WR2-48 RAIN SENSOR LOCATION F 407.975.1278 www.smeinc.com RAIN BIRD 100-PESBR-PRS-D 1" VALVE ASSEMBLY ------ 1,5" SOLVENT WELD PVC MAIN LINE CL 200 3/4" SOLVENT WELD PVC ZONE PIPE ROUTING LAKE COUNTY OFFICE OF FACILITIES MANAGEMENT /ALVE PROGRAMMING, SIZE, APPLICATION AND NOMINAL GALLONAGE BOX 7800 RES, FL 328 PO TAVAI TION ARK ORIDA Ē >` COUNT SJ 60 LAKE RE • N Γ No. LC260005

PROJECT NUMBER 5271-20-083 DRAWING NUMBER IRIGATION

IRRIGATION NOTES & LEGEND