

LANDSCAPE SPECIFICATIONS PART 1 - GENERAL

1.2 CONTRACTOR QUALIFICATIONS
A. Landscape installation work to be performed by a Contractor Certified by the Florida
Nurseymen, Growers and Landscape Association (FNGLA) as a Certified Landscape
Contractor. Any prairing to be supervised by an Arborist, certified by the International Society
of Arborischuler (ESA) and literated in Crossity where work is performed.

INVESTIGATION OF UTILITIES
 A. Prior to beginning work, the Contractor shall be responsible to locate existing underground utilities. Check with all utility companies and Surshine State, call (811).

1.5 PLANT SIZES A. All plant sizes shall equal or exceed the minimum sizes as specified in the plant lat. When plant sizes or septified on a range of size, installed materials shall average the mean of the position. All necessary pruning shall be done at the time of planting.

1.6 PLANT QUALITY
A. All plant material shall be equal to or better than Florida No. 1 as classified by "Grades and Standards for Naturey Plants" by the Division of Plant Industry, Florida Department of Agriculture. They shall have a growth holds that is normal for the species, healthy, vigorous, free from insects, blaces and highly.

C. CIRCLING ROOTS FOUND ON CONTAINER-GROWN MATERIAL WILL NOT BE ACCEPTED UNLESS REMEDIAL ROOT PRUNING, APPROVED BY THE LANDSCAPE ARCHITECT IS DONE BEFORE PLANTING.

1.7 PLANT QUANTITY
A. The plant quantities shown on the plant list are to be used only as an aid to bidders. In the case of discrepancy between the plant list and the plan, the quantity on the plan shall override the plant list.

1.8 UNIT PRICES

A. The successful bidder shall furnish to the Owner and the Landscape Architect, a unit price breakdown for all moterals. The Owner may, at his discretion, add to ar delete from the materials utilizing the unit price breakdown submitted to and accepted by the Owner.

1.9 SUBMITTALS
A Fertilizer: The Contractor shall submit to the Owner and Landscape Architect documentation that all the fertilizer used for the project is of the analysis specified and placed at the rates specified in section 2.2 FERTILIZER.

1.10 CLEAN-UP & MAINTENANCE OF TRAFFIC
 A Follow procedures in FDOT Index 600 for maintenance of traffic during construction.

1.11 MAINTENANCE PRIOR TO ACCEPTANCE A. The Contractor is responsible to maintain the plantings until they are accepted under the provisions of 1.12 "ACCEPTANCE OF INSTALLATION".

1. Plants: Begin maintenance immediately following the final plant installation operation for each plant and continue until all plant installation is complete and accepted. Maintenance shall include webring all plants, weeding, mulching, pest and disease control, lightening and repairing of gays, repair of braces, removal of dead growth, restifting of plants to proper grade or up-right pesisions, restoration of plant staves, tilter acle, vain plant bads and other necessary operations to assure specified minimum grade of Florida No. 1.

2. Turf Areas: Begin maintenance of turf immediately following the placement of sod and continue until sod installation is complete and accepted. Maintenance shall include but not be limited to, wetering, leveling, moving, weed and pest control, fungus and disease control and other necessary operations as determined by the Landscape Architect and good nursery products.

3. Re-setting or stroightening tress and polms:

The Controlor's half re-set and/or stroightening tress and polms as required at no additional case to the Oner unless caused by substanded winds of 15 mph or more. Then, the costs of the Oner unless caused by substanded winds of 15 mph or more. Then, the costs of the operations may be charged to the owner. Re-set trees within 48 hours.

8. Place sod on maistered soil, with edges Sightly builted, in staggered rows at right angles to slopes. The sod shall be notified with a 500 pound hand roller immediately other placing.

1.12 ACCEPTANCE OF INSTALLATION
A. Inspection: Inspection of the work, to determine completion of controct work, exclusive of the possible replocement of plants and furt, will be made by the Landscape Architect at the conclusion of the maintenance perside. Written notice requesting such an inspection and submitted by the Controctor at least net (10) days prior to the articipated doe.

1.13 GUARANTE
A. Guarantee all plants for a period of one year (CCD). Guarantee shall commence from the date of written acceptance. Plant material which is on the site and scheduled to be relocated is not covered by the guarantee except in the case of Contractor's negligence or work find has been done in an unworkness. New momen. Even contractor is not responsible for loss due to acts of god, (i.e.) sustained winds of 75 mph or more, floods, frost, lightning, vandallam or fields.

variables or field.

1.14. REPLACEMENT

A. Replacement shall be made during the guarantee period as directed by the Landscape
Architest within ten [10] days from time of notification. For all replacement plant motiend,
the guarantee period shall attend for an additional forty five (45) days beyond the original
guarantee period. The Centrators shall be responsible to provide water to the replacement
guarantee period. The Centrators shall be responsible to provide water to the replacement
impection will be made by the Landscape Architect, your written notice requesting such
impection and submitted by the Centrators of least the (5) days before the enticipated date.
Replacement plants must meet the requirements of Florida No. 1 at time of impection.
Remove from the size of plants that one dead of in a date of unintidiatory growth, as
determined by the Landscape Architect. Replace these and any plants missing due to the
Centrator's negligence as soon as condition permit.

Materials and Operations: All replacement plants shall be of the same kind and size as indicated on the plant list. The Contractor shall supply and plant the plants as specified under colaming operations.

PART 2 - MATERIALS

PLANTING SOIL
 Planting soil for trees, shrubs and ground covers shall be of the composition noted on the olans. measured by volume.

B. Soil for Sodded Areas: shall be coarse lawn sand.

2.2 FERTILIZE

A Fertilizer for trees, polins, shrubs, and groundcovers shall be as follows: LESCO Polin Special 13-3.1 or equal, suffer coated with into and other minor elements and maximum of 2% chlorine, or brand with equal analysis. The festilizer shall be uniform in composition, dry and free flowing and shall be delinered to the tall in the original unappead containers, substituting the control of the c

2.3 WATER
A. The Contractor shall provide potable water on site, available from the start of planting. The Contractor is responsible to ascertain the facultion and accessibility of the water source. The Contractor is responsible to provide the many of distribution (i.e. water facult, house, etc.) for distribution of value to the planting area.

MULCH
 Mulch shall be as specified on the Plant List.

2.5 ROOT BARRIER MATERIAL
A. Root barrier material shall be 24° deep polypropolylene panels by DeepRoot or approved

B. Install per details in the plans.

PART 3 - INSTALLATION PROCEDURES

A. Verify location of all underground utilities and obstructions prior to excavation.

3.2 HERBICIDE TREATMENT A. In all areas infected with weed of

PLANT PIT EXCAVATION AND BACKFILLING A. Trees: See the Planting and Bracing Details and notes.

B. All planting holes shall be hand dug where machine dug holes may adversely affect

3.4 WATERING.
A. The Controtor is responsible to provide the water for all new plants and transplants and means of distribution (i.e. hand watering or water truck) during the maintenance period and exceptions cause the fault is between the size of the exception and the period after occeptions cause the fault is between the plant or or water truck, in addition to the irrigation splant, if one is provided, Contractor can adjust watering schedule during heavy rain season upon approval of the Landscape Architect.

AMOUNT OF WATER PER APPLICATION
For trees up to 5 inch caliper - 5 gallons
From 5 to 8 inch caliper - 25 gallons
9 inch and up caliper - 50 gallons

soil around the root ball.

C. Water shrubs, sod and groundcover a minimum of once daily for a week or until an irrigation system is fully operational. If no irrigation system is to be installed, the Controct shall be responsible for watering the shrub, sod, and groundcover for the time specified above, after installation of each section of the planning installed.

3.2 restILLER[5]
A Add fertilize on top of the surface of shrubs beds and tree and points root balls two [2] months after installation. Fertilize sod within two [2] days after installing after planting of each segment of the job. Fertilizer shall be expliced after so link been well moistened. Fertilizer shall be washed off of plant leaves and stems immediately after application. Apply at the following rates:

B. At the end of each work day, the Contractor shall remove debris and shall barricade the un-filled holes in a manner appropriate in the path of pedestrians and motorists. 1. Trees and Large Shrubs: One (1) pound per inch of trunk diameter, spread evenly over un-filled holes in a manner appropriate in the path of pedestrians and motorists.

3. Groundcover: Twelve (12) pounds per 100 sq. ft. of bed area.

4. Sod: Twelve (12) pounds per 1,000 sq. ft. Wash fertilizer off blades immediately after

3.6 MULCHING
A. Speed mulch two (2) inches thick uniformly over the entire surface of shrubs and groundcover beds, depth measured ofter settling, unless otherwise specified in the plans. Provide 36° diameter bed of mulch, measured from outer edge of the trunk, for all trees and paths planted in sold rease. Keep much ower from contact with the trunk. Create a 6° high ring of mulch at the outer edge of tree and palm holes.

3.7 GUYING AND BRACING A. See the details bound herewith or made part of the plans.

3.8 SODDING

A. Provide a blanket of lown sand as described in the notes in these plans. Prior to planting, remove stones, sticks, etc. from the sub-soil surface. Excrede existing non-conforming soil as required so that the finish grade of sod is flush with adjacent povement or top of curb as well as adjacent sod in the case of sod patching.

C. Keep edge of sod bed a minimum of 18" away from groundcover beds and 24" away from edge of shrub beds and 36" from trees, measured from the edge of plant or tree trunk

D. Sod shall be watered immediately after installation to uniformly wet the soil to at least two inches below the bottom of sod strips.

F. Excavate and remove excess soil so top of sod is flush w/top of curb or adjacent pavement, or adjacent existing sod.

PLANT BED PREPARATION NOTES

In all areas where new sod and shrub and groundcover masses are to be planted, kill all existing weeds by treating with systemic herbicide prior to beginning soil preparation.

In all shrub and groundcover beds, excavate and backfill soil as described in "Plant List(s)". If no specific preparation is noted, prepare soil as described below for either condition, over the entire area to be planted:

Condition A:
If any compacted road base or asphalt or rocky soil is encountered, remove compacted material entirely to allow an 18" depth of planting soil per plant list unless otherwise stated. Backfill the entire area of the shrub and groundcover beds with 18" planting soil gas specified in Plans) to within 2 inches of the adjacent pawement or top of curb. Remove all debris and rocks and pebbles larger than 2 inches in size and level the grade before planting.

Condition B:

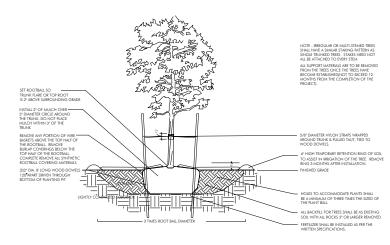
Where no compacted soil is encountered, thoroughly mix 6 inches of planting soil per plant list into the existing soil to a depth of 18 inches unless otherwise stated. If required, excavate and remove the existing soil to lower the grade, so that the prepared mix is infinished to a minimum of 2 niches below top of cut or adjacent walkway. Remove all debris and rocks and pebbles larger than 2 inches in size and level the grade before planting.

For all sod areas, spread a 2' deep layer of lawn sand prior to sodding. Remove all debris and rocks and pebbles larger than 2 inchs in size and level the grade before sodding. Remove, if required, existing soil so that top of sod is flush with and adjacent top of curb or pavement.

Plants shall be planted sufficiently away from edges of pavements or curbs, to allow for growth toward the edges of the bed.

PROTECTION OF PLANTS

The Contractor shall be responsible to protect existing trees and shrubs in and adjacent to the area of work. Erect barriers as necessary to keep equipment and materials, any toos: material, away from the canopy righ ine of trees and shrubs. DO NOT PILE SOIL OR DEBRIS AGAINST TREE TRUNKS OR DEPOSIT NOXIOUS BUILDING SUPPLIES OR CHEMICALS WITHIN THE DRIP LINE.



PLANTING & BRACING DETAIL UNDER 3 1/2" CALIPER



SHRUB SPACING DIAGRAM

SHRUB INSTALLATION DETAIL



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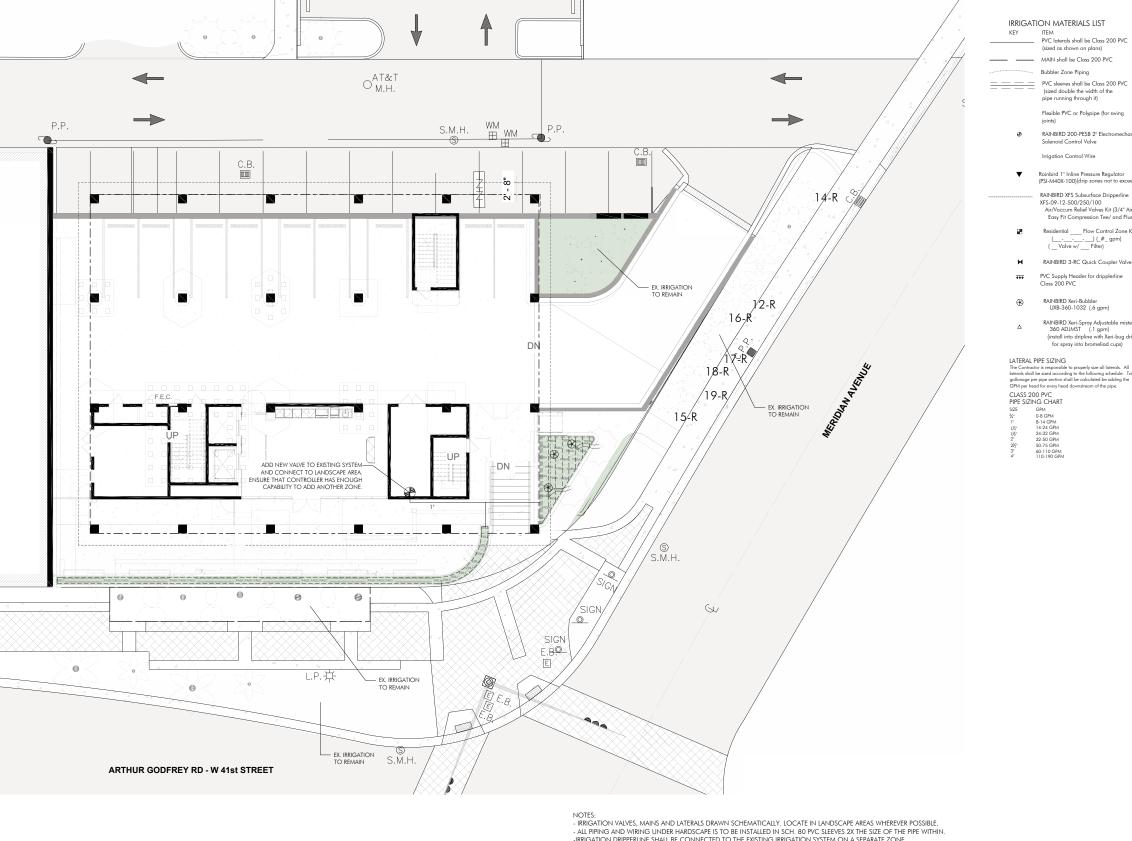
LANDSCAPE ARCHITECTS:

GARDNER + SEMLER LANDSCAPE ARCHITECTURE 17670 NW 78TH AVE, SUITE 214 MIAMI, FL 33015 P: 305,392,1016

FILE INFORMATION Project Drawn Checked Project Phase:

PLANTING SPECS AND DETAILS

LA-102



- ALL PIPING AND WIRING UNDER HARDSCAPE IS TO BE INSTALLED IN SCH. 80 PVC SLEEVES 2X THE SIZE OF THE PIPE WITHIN. -IRRIGATION DRIPPERLINE SHALL BE CONNECTED TO THE EXISTING IRRIGATION SYSTEM ON A SEPARATE ZONE.



as required

as required

as required

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FILE INFORMATION

Project 9768.00 Drawn GSLA Checked KG Project --Phase:

IRRIGATION LAYOUT PLAN

LA-103

IRRIGATION LAYOUT PLAN

IRRIGATION MATERIALS LIST XEY ITEM
PVC laterals shall be Class 200 PVC (sized as shown on plans) ----- MAIN shall be Class 200 PVC

Bubbler Zone Piping

Irrigation Control Wire

Flexible PVC or Polypipe (for swing

RAINBIRD 200-PESB 2" Electromechanical

Rainbird 1" Inline Pressure Regulator (PSI-M40X-100)(drip zones not to exceed 40psi max)

Residential ____ Flow Control Zone Kit

(__-__- -___) (_#_ gpm) (__ Valve w/ ___ Filter)

RAINBIRD 3-RC Quick Coupler Valve

LATERAL PIPE SIZING
The Contractor is responsible to properly size all laterals. All laterals shall be sized according to the following schedule. Total gallonage per pipe section shall be accludated be adding the GPM per head for every head downstream of the pipe.

GPM per head for every head CLASS 200 PVC PIPE SIZING CHART SIZE GPM ½** 0-8 GPM 1½** 14-24 GPM 1½** 14-24 GPM 22** 32-50 GPM 3** 60-110 GPM 4** 101-190 GPM 1** 101-190 GPM 4** 101-190 GPM 1** 101-190 GPM 4** 101-190 GPM 1** 101-190 GPM 1

E SIZING CHAR

GPM

0-8 GPM

8-14 GPM

14-24 GPM

24-32 GPM

32-50 GPM

50-75 GPM

60-110 GPM

110-190 GPM

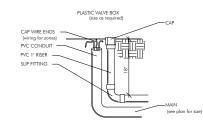
RAINBIRD XFS Subsurface Dripperline
XFS-09-12-500/250/100
Air/Vaccum Relief Valves Kit (3/4" Air relief valve/
Easy Fit Compression Tee/ and Flush Cap)

RAINBIRD Xeri-Spray Adjustable mister 360 ADJMST (.1 gpm) (install into dripline with Xeri-bug drip emitters for spray into bromeliad cups)

GENERAL NOTES:

1. SCOPE OF WORK: The Contractor shall furnish all labor, machinery, tools, supplies, and equipment as necessary to construct and provide an operating system, as indicated in the Plans. The work shall include, but not be limited to, furnishing materials (pipe, valves, sprinkler heads, fittings, controllers, electrical, wire and fittings, primer, glue, etc.). layout, protection to the public, excavation, assembly, installation, backfilling, compaction, repair of road or pavement surfaces, controller and low voltage feed to the valves clean-up, maintenance and guarantee, and as-built plans.

- 2. Contractor shall coordinate with General Contractor or other pertinent Contractors on the job to insur that sleeves are provided and installed under hard surfaces to allow access to all areas to be irrigated. All sleeves shall be constructed of Class 200 PVC. Bury all sleeves a minimum of 18" below the surface Sleeve to be double the size if the pipe running through it. Sleeve shall extend 24" past the edge of pavement into the area to be irrigated.
- 3. GUARANTEE: The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.
- 4. REPAIR UTILITIES: The Contractor shall be responsible to verify the location of all utilities by hand excavation or other appropriate measures before performing any work that may result in damage to utilities structures, or property. The Contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to his operations. All costs involved in disruption of service and repairs due to negligence on part of the Contractor shall be his responsibility.
- 5. AS-BUILT DRAWINGS: Prints of the plans will be supplied to the Contractor for recording "as-built" information. Immediately upon installation of any work which deviates from what is shown on the Plans, the Contractor shall clearly indicate such changes in red pencil on the prints. Such changes shall include, but not be limited to, changes in (1) materials; (2) sizes of material; (3) location, and (4) quantities.
- 6. The entire installation shall fully comply with all applicable local and state codes and ordinances. The Contractor shall take out all required plumbing and electrical applications and permits, arrange for all necessary inspections and shall pay all fees and expenses in connection with same as part of work under the
- 7. UNIT PRICES: The successful bidder shall furnish, to the Owner, a unit price breakdown for all materials 7. Ord FACES. In escression and order shall notinelly to the Owner, a unit price breakdown for an internal The Owner may at his own discretion, add to or delete from the materials, using the unit price breakdown submitted to and accepted by the Owner.
- 8. MAINTENANCE PERIOD: The irrigation system shall be maintained for a period of 90 days after final a mountained and traction the initiation spatial status or inflamment and a period or you dust alter into acceptance of installation. Maintenance shall include checking of the system 2 times per week. Contractor shall be responsible to replace/repair any broken or malfunctioning parts of the system including those damaged by accidents or vandalism. Repairs shall be made immediately at the time of inspection or when notified by the Landscape Architect.
- 9. The irrigation system shall provide 100% coverage with a minimum of 90% overlap of water spray
- 10. The system is design to provide sprinkler precipitation rates that are nearly equal in each zone. Mixing of sprinklers with widely varying precipitation rates in a zone will not be acce
- 11 Irrigation mainline shall be made of Class 200 PVC and all laterals shall be Class 200 PVC, except 11. Irrigation mainlines statis be most or Class 200 FVC and all interests statis be class 200 FVC, except flexible PVC (or Toro funny pipe for flexible swing joint and Schadle 40 PVC insers for spray heads in shrub areas. Schedule 80 galvanized steel pipe is to be used for all above ground fittings. Pipe locations shall be adjusted in the field. When laying out mains and laterals, locate pipe near edges of pavement or against buildings wherever possible, to allow space for plant rootballs. Coordinate pipe locations with plantings. Bury all mains and laterals 18" min, below surface. Depth shall be measured to top of pipe.
- 12. Keep pop-up sprinkler heads a minimum of 8° from edges of pavement and curbing, and heads or risers a minimum of 18° , or as indicated in the pans.
- 13. All heads located in shrub or groundcover beds shall be installed on a riser as per details in the plans. All other heads shall be installed on a swing joint as per details in the plans.
- 14. Place irrigation control wire in conduit in the same trench as mains and under the main. ASI wire shall be #14 or larger solid copper U.L. approved underground direct burial cable and shall be continuous with no splices from controller to solenoid valve.
- 15. Valve locations are schematic and shall be adjusted in the field. Each valve shall be in a separate valve 13. Varier occurrins are schemaric and around be adjusted in the field. Each variety and was stall be in a septiative variety to the (10° x 16°) min.). When grouping valve boxes in grass or groundcover areas, set boxes a minimum of 12° apart to allow grass or groundcover to grow between them. When possible, hide valve boxes in shrub beds, a minimum of 12° from edge of beds. Set all valve boxes, concrete or plastic, in ground with cover flush with finish grade, and level, with a minimum of 6" of pea gravel at the bottom of the box, with at least 2" of clearance from the bottom of the valve to the top of the gravel.
- 16. TESTING: Notify the Landscape Architect in writing when testing will be conducted. Conduct test in the presence of the Landscape Architect. After all PVC assembly is completed the lines shall be flushed to insure that no rocks, sand, or other foreign debris remains in the lines. The mains shall be filled with water and all outlets shall be capped and plugged. The main shall be pressurized to 100 PSI for a minimum of one hour No section of the main will be approved if the pressure drops more than 5 PSI at the end of the one hour period. Leaks shall be repaired immediately and the system shall be re-tested until found satisfactory by the



DETAIL OF STUB-OUT FOR FUTURE USE

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NOTES: 1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY. 2. AT FITTINGS WHERE THERE IS A CHANGE OF

DIRECTION SUCH AS TEES OR ELBOWS, USE

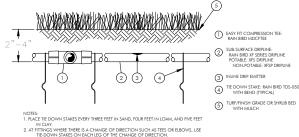
3. INSERTION PLOW AND TRENCHED INSTALLATIONS DO

NOT REQUIRE TIE DOWN STAKES

OF DIRECTION

TIE-DOWN STAKES ON EACH LEG OF THE CHANGE

XFS SUBSURFACE DRIPLINE ADAPTER FOR PVC



XFS SUBSURFACE DRIPLINE BURIAL

0 2 3 4 5

XFS DRIPLINE FLUSHPOINT WITH

COMPRESSION FITTINGS

SUB-SURFACE DRIPLINE:
RAIN BIRD XF SERIES DRIPLINE
POTABLE: XFS DRIPLINE

② INLINE DRIP EMITTER OUTLET

NON-POTABLE: XFSP DRIPLINE

③ TIE DOWN STAKE: RAIN BIRD TDS-050

WITH BEND (TYPICAL)

(4) TURF/FINISH GRADE OR SHRUB BED WITH MUICH

(5) RATCHET CLAMP (INCLUDED WITH

(6) INSERT ADAPTER FOR PVC PIPE:

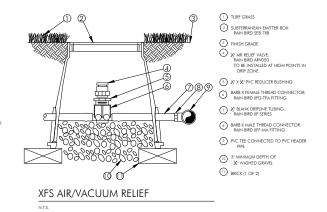
2 PVC SCH 40 TEE OR EL (TYPICAL)

(10) Xº AIR RELIEF VALVE: RAIN BIRD MODEL: A (1) PVC SUPPLY HEADER

BARB X MALE FITTING:
 RAIN BIRD VEF-MA FITTING (TYPICAL)
 FLUSH POONT (TYPICAL)
 SEE BAIN BIRD DETAIL THE FLUSH POINT OR "XFS FLUSH POINT WITH BALL WALVE"
 PERIMETER OF AREA

RAIN BIRD XFD-INVPC

7 PVC LATERAL PIPE MINIMUM 1½" IN DIAMETER DEPTH PER SPECIFICATION



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STRUCTURAL YHCF

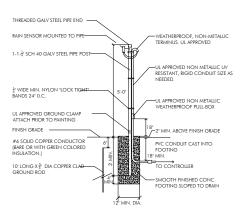
YHCE 99 NW 27TH AVE MIAMI, FL 33125 P:305.969.9423

LANDSCAPE ARCHITECTS:

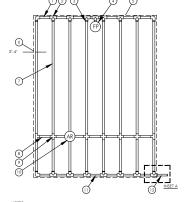
GARDNER + SEMLER LANDSCAPE ARCHITECTURE 17670 NW 78TH AVE, SUITE 214 MIAMI, FL 33015 P: 305.392.1016

FILE INFORMATION

Project Drawn Checked Project Phase:

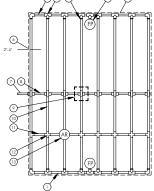


RAIN SENSOR DETAIL



- IN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE S AND CHANGES IN ELEVATION. SEE RAIN BIRD XFS DRIPLINE BUILDE FOR SUGGESTED SPACINGS. BEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH
- XFS Dripline Maximum Lateral Lengths (Feet) 12" Spacing 18" Spacing 24" Spacing | Sporning Flow (gph) | Sporning Flow (pph) XFS SUBSURFACE DRIPLINE END FEED LAYOUT

INSET A



PVC SCH 40 TEE OR EL ITYPICAL

XFS Dripline Maximum Lateral Lengths (Feet) | S Unpine Maximum Lateral Lengths (Fee) | 24" Spacing | 18" Spacing | 24" Spacing | 25" Spacing | 2

RAIN BIRD XFD.CROSS (TYPICAL)

(3) Xº AIR RELIEF VALVE: RAIN BIRD MODEL:
ARVOSO
SEE RAIN BIRD XFS DETAILS FOR AIR RELIEF
INSTALLATION

i. Longest dripline lateral should not exceed the maximum length shown in the

XFS SUBSURFACE DRIPLINE CENTERFEED LAYOUT

LA-104

IRRIGATION SPECS

AND DETAILS