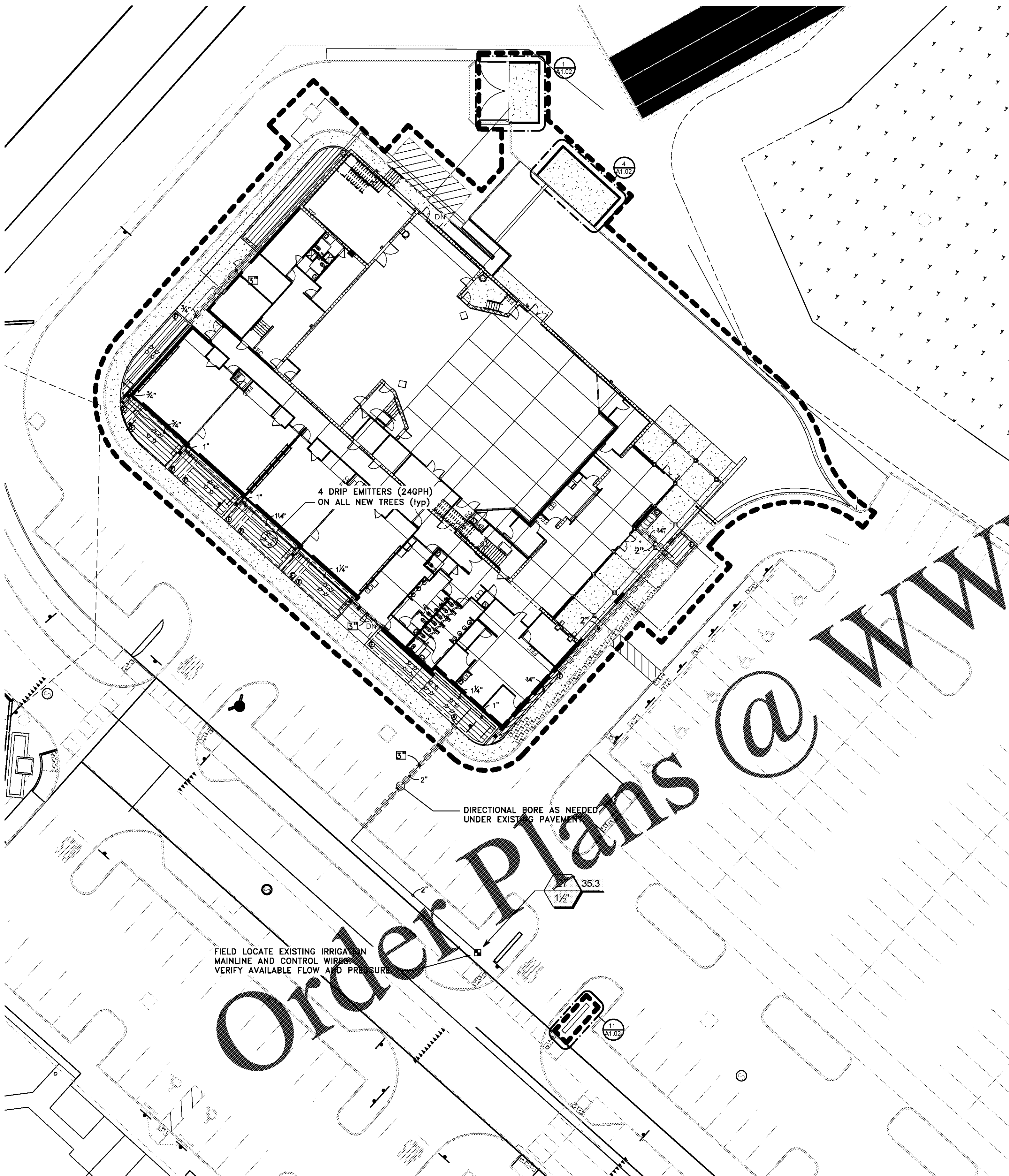


IRRIGATION NOTES:

1. Irrigation system design requirements: 35 GPM @ a minimum of 50 PSI at the point of connection. The Irrigation Contractor shall verify the available GPM and PSI prior to installation of the system.

2. Do not willfully install the irrigation system as shown on the drawings when it is obvious in the field that conditions exist that might not have been considered in the design process. For example : obstructions, grade differences, water levels, dimensional differences, etc. Refer to the Landscape Plan to avoid conflicts with proposed trees or shrubs.

3. Piping may sometimes be indicated as being located in unlikely areas: i.e., under buildings or pavement, outside of property lines, in lakes or ditches, etc. This is done for graphic clarity only. Whenever possible, piping is to be installed in open, green" areas.

4. If required, the Irrigation Contractor shall provide the necessary "Right of Way" use permits.

5. Pipe sizes shall conform to those on the drawings. Substituting with smaller pipe sizes will not be permitted.

6. Mainline is to be installed with a minimum of 18" depth of cover. Lateral lines are to be installed with a minimum of 12" depth of cover.

7. Unless otherwise indicated, all sleeves are to be PVC Sch 40 and two (2) nominal sizes larger than the pipe to be sleeved. For example: The sleeve for a 2" pipe shall be 3". No irrigation sleeve shall be smaller than 2".

8. Wherever practical, install valves in mulched beds and/or out of high traffic areas. All valves , flush valves and wire splices shall be installed in Rain Bird wide flanged, structural foam "plastic" valves boxes as follows:

Wire Splices	#VB-10RND (13"dia. x 10"h) 10" round box
Drip Zone Valve / Filter Assy	#VB-SPR (23"w x 33"l x 15"h) Super Jumbo Rect. box

9. The bottom and sides of the valve boxes shall be lined with landscape fabric. Install a 3" deep bed of gravel on the landscape fabric to create a drainage sump.

10. Refer to Valve Designation Symbols for controller, station number and designed flow rate for each remote control valve.

11. All 24 volt control cable to be UL Listed, single strand, type UF 600 Volt control cable. Size and color as follows:

Common Wires	- size AWG #12 or larger and WHITE in color.
Hot Wires	- size AWG #14 or larger and RED in color.
Spare Wires	- size AWG #14 or larger and BLUE in color.

12. All splices to the 24 volt control wiring shall be made with Rain Bird #[illegible]WC 24-600 volt, direct bury splice kits.

13. All control valve wires shall be bundled and taped together at 20' intervals and placed along the side of the mainline pipe.

14. All pop-up sprinkler heads shall be installed level and flush to grade. Mount all sprinklers on flexible connections as follows:

1/2" inlet spray heads	18" of Heavy Wall PVC IPS Hose
[illegible]" inlet rotor heads	18" of Heavy Wall PVC IPS Hose

15. Install drip tubing, supply header and exhaust header at grade and cover with mulch. Typical spacing for drip tubing is 18" on center. Spacing to be determined by plant layout, refer to Landscape Plan. Anchor drip tubing every 5' with 8" long wire tubing stakes. Install vacuum relief valves and flush valve assemblies as needed.

16. The IRRIGATION CONTRACTOR shall prepare an AS-BUILT drawing on reproducible paper detailing the actual installation of the irrigation system. The AS-BUILT drawings shall locate all main line piping, control wires, wire splices, sleeves and valves by showing exact measurements from permanent features (buildings, edge of pavement, power poles, fire hydrants, etc.). Include depth of cover on mainline and sleeves.

17. No product substitutions will be permitted without the written permission of the Owner's Representative. Irrigation Contractor to provide submittals to the Owner's Representative for approval prior to installation.

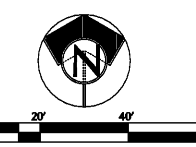
18. Any other equipment required that is not other wise detailed or specified shall be installed as per manufacturer's recommendations and local code.

IRRIGATION_SCHEDULE

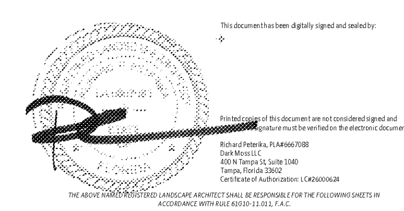
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
▣	Rain Bird XCZ-150-LCDR High Flow Control Zone Kit, for Large Commercial Drip Zones. 1-1/2" PESB-R Scrubber Globe Valve with single 1-1/2" Pressure Regulating (40psi) Quick-Check Basket Filters. Flow range: 15-62gpm.
Ⓕ	Rain Bird MDCFCAP Dripline Flush Valve cap in compression fitting coupler.
Ⓐ	Rain Bird ARV050 1/2" Air Relief Valve, made of quality rust-proof materials, with a 6.0" drip valve box (SEB 7XB emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.
5 7 10 12 18 24	Rain Bird PC-DIFF Single Outlet, PC Drip Emitter Single Outlet, Pressure Compensating Drip Emitters with Self-Piercing Barb Inlet and Diffuser Cap. Flow rate: 5gph=light brown; 7gph=violet; 10gph=green; 12gph=dark brown; 18gph=white; 24gph=orange.
(hatched area)	Area to Receive Dripline Rain Bird XFCV-09-18 XFCV On-Surface Landscape Dripline with a Heavy-Duty 3.5 psi Check Valve. 0.9 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Great for elevation change. Specify XF insert fittings.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
C	EXISTING IRRIGATION CONTROLLER - not shown. Field locate existing Irrigation Controller. Refer to "Record" drawings. Add expansion module as needed.
———	Irrigation Lateral Line: PVC Class 200 SDR 21
— — —	Irrigation Mainline: PVC Class 200 SDR 21
▒▒▒	Pipe Sleeve: PVC SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

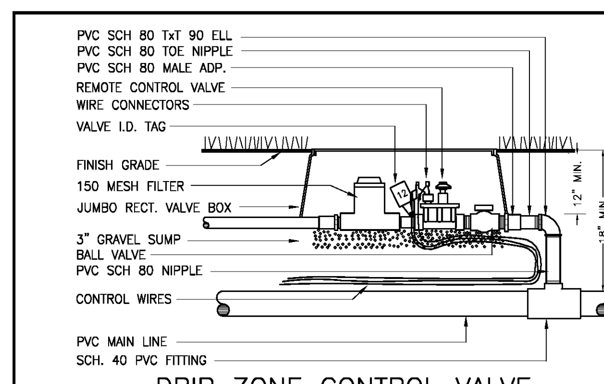
Valve Callout
Valve Number
Valve Flow
Valve Size



SCALE: 1" = 20' - 0"

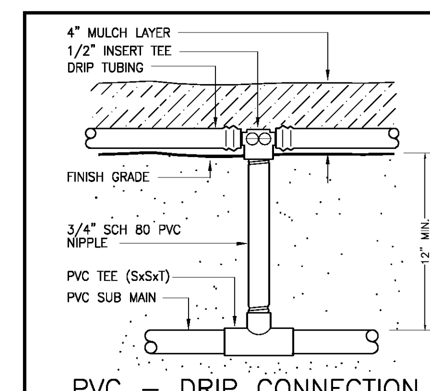


LS1.0 - LANDSCAPE PLAN AND DETAILS
IR1.0 - IRRIGATION PLAN



DRIP ZONE CONTROL VALVE

VALVE BOX INSTALLATION SHALL ALLOW THE VALVE AND FILTER TO BE SERVICED WITHOUT THE NEED FOR EXCAVATION



PVC – DRIP CONNECTION

PROVIDE 12" MIN. SPACE BETWEEN ALL DRIPLINES AND ANY WALL OR STRUCTURE

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1202 WEST LINEBAUGH AVENUE
TAMPA, FL 33612 (813) 931-8040

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I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY WITH ALL RELEVANT BUILDING CODES

PERMIT SET

S/S Date

FGA PROJECT NUMBER
19048

ISSUE DATE
04-15-2020

REVISIONS

NO	DATE	NOTES

SHEET NAME

IRRIGATION PLAN

SHEET NUMBER

IR1.0