## **VALVE SCHEDULE**

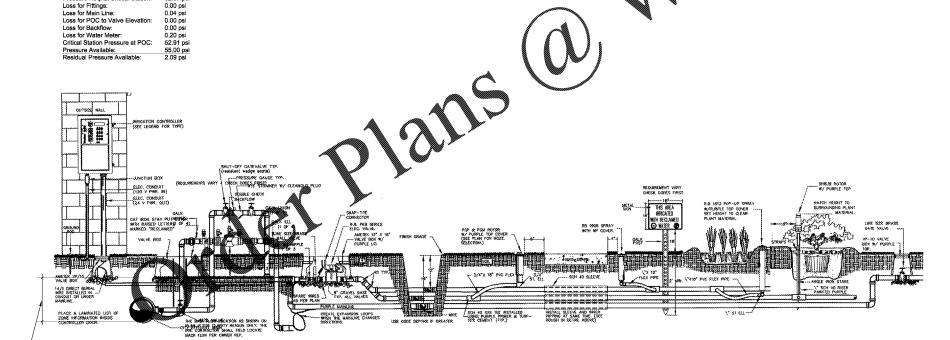
NUMBER	MODEL	SIZE	TYPE	GPM	HEADS	PIPE	WIRE	DESIGN PSI	FRICTION LOSS	PSI	PSI @ POC	PRECIP
1	Rain Bird XCZ-100-PRB-R	1"	Area for Dripline	3.25	433.0 l.f.	142.3	285.6	50	0.42	52.67	52.91	0.36 in/h
2	Rain Bird PESBR-PRS-D	1"	Turf Spray	20.73	15	210.6	332.8	30	0.50	33.34	36.12	1.47 in/h
3	Rain Bird PESBR-PRS-D	1"	Bubbler	8.00	32	581.6	378.6	40	0.62	43.51	44.12	7.66 in/h
4	Rain Bird PESBR-PRS-D	1"	Turf Spray	15.16	13	207.4	424.9	30	0.57	33.31	35.03	1.42 in/h
5	Rain Bird PESBR-PRS-D	1-1/2"	Shrub Rotor	28.90	10	283.3	447.6	25	0.41	28.56	35.65	0.47 in/h
6	Rain Bird PESBR-PRS-D	1"	Turf Spray	16.73	10	233.1	423.9	30	0.59	33.28	35.61	1.08 in/h
7	Rain Bird PESBR-PRS-D	1"	Turf Spray	16.53	14	375.5	94.9	30	0.38	33.09	35.52	0.91 in/h
8	Rain Bird PESBR-PRS-D	1"	Turf Spray	15.58	11	265.0	104.7	30	0.36	33.09	35.02	0.92 in/h
9	Rain Bird PESBR-PRS-D	1"	Bubbler	1.75	7	406.9	193.4	40	0.37	42.38	42.59	7.66 in/h

# WATERING SCHEDULE

NUMBER	MODEL Rain Bird XCZ-100-PRB-R	TYPE Area for Dripline	PRECIP 0.36 in/h	IN./WEEK	MIN./WEEK 167	GAL./WEEK 542.4	GAL./DAY
2	Rain Bird PESBR-PRS-D	Turf Spray	1.47 in/h	1	41	850.1	
3	Rain Bird PESBR-PRS-D	Bubbler	7.66 in/h	1	8	64	
4	Rain Bird PESBR-PRS-D	Turf Spray	1.42 in/h	1	43	651.7	
5	Rain Bird PESBR-PRS-D	Shrub Rotor	0.47 in/h	i	128	3,699	
6	Rain Bird PESBR-PRS-D	Turf Spray	1.08 in/h	i	56	936.9	
7	Rain Bird PESBR-PRS-D	Turf Spray	0.91 in/h	1	66	1,091	
8	Rain Bird PESBR-PRS-D	Turf Spray	0.92 in/h	1	66	1,028	
9	Rain Bird PESBR-PRS-D	Bubbler	7.66 in/h	1	8	14	
		TOTALS:			583	8,878	

### CRITICAL ANALYSIS

Generated:	2019-04-02 12:34
P.O.C. NUMBER: 01	
Water Source Information:	1" METER OFF OF 6" RECLAIM WATER LINE
FLOW AVAILABLE	
Water Meter Size:	1"
Flow Available:	37.50 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	55.00 psi
Elevation Change:	0.00 ft 6"
Service Line Size:	
Length of Service Line:	5.00 ft
Pressure Available:	55.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	28.90 gpm
Flow Available at POC:	37.50 gpm
Residual Flow Available:	8.60 gpm
Critical Station:	1
Design Pressure:	50.00 psi
Friction Loss:	0.41 psi
	0.41 psi 0.01 psi
Fittings Loss: Elevation Loss:	
	0.00 psi
Loss through Valve:	2.25 psi
Pressure Req. at Critical Station:	52.67 psi
Loss for Fittings:	0.00 psi
Loss for Main Line:	0.04 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	0.00 psi
Loss for Water Meter:	0.20 psi
Critical Station Pressure at POC:	52.91 psi
Pressure Available:	55.00 psi
Residual Pressure Available:	2.09 psi



### **IRRIGATION NOTES**

- 1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- 3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK
- 5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN P
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF T
- INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
- ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTR REPRESENTATIVE. IN THE FIELD BY THE OWNER'S AUTHORIZED
- ELAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTI SPARE WIRES AT BOTH ENDS.
- 10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUDETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF PAVING. . SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING
- 11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES T COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLA COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
- 12. ALL HEADS ARE TO BE INSTALLED WITH TH WALLS, FENCES AND HARDSCAPE. THIS SCREENS, REPLACEMENT OF NOZZLES THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS. N THE PUNDS. ALL HEADS ARE TO BE AUSSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, BENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING ND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
- 13. THE CONTRACTOR SHALL USE PROPER JESFOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. R PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH THOMAS ENGINEERING GOOD RECOMMANUFACTURER SPECIAL ATIONS.

POINTS OF CONNECTION SHALL BE FROM CITY EFFLUENT WATER SOURCE. ALL EQUIPMENT TO HAVE PURPLE CAPS. POINTS OF CONNECTION SHALL BE FROM CITY EFFLUENT WATER SOURCE. ALL EQUIPMENT TO HAVE PURPLE CAPS, HANDLES, ETC, AND BE CLEARLY IDENTIFIED AS USING EFFLUENT WATER. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN TELLD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

MINIMUM PRESSURE REQUIRED 35.02 PSI @ POC DESIGN WATER PRESSURE 55 PSI MAXIMUM SYSTEM DEMAND 28.90 GPM

NOTE B:
CONTROLLER IS AS SPECIFIED. CONTRACTOR TO VERIFY CONDITION AND FINAL LOCATION OF CONTROLLER AND
ELECTRICAL POC SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK

MAINLINE AND RELATED EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL MAINLINE AND RELATED EQUIPMENT LOCATION TO BE WITHIN PLANTERS AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP.

NOTE DI:

CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY

OCCUR, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, ETC. VERIFY ALL HEAD LAYOUT WITH

OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:
BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN
PLANTER. BUBBLERS SHALL BE ALIGNED WITH TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.
CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

**6" CITY EFFLUENT PVC MAIN LINE AT** 3'-4' BELOW FINAL GRADE



DOLLAR TREE OCOEE, FL IRRIGATION SCHEDULES AND NOTES PROJ. NO. F180066 DWG. NO. L-3.1