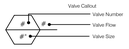
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
147	RAIN BIRD R-VAN14 RD-04-SAM-P45-NP TURF ROTARY, 8'-14' 45-270 DEGREES AND 360 DEGREES HAND ADJUSTABLE	45
148	RAIN BIRD R-VAN18 RD-04-SAM-P45-NP TURF ROTARY, 13'-18' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE	45
149	RAIN BIRD R-VAN24 RD-04-SAM-P45-NP TURF ROTARY, 17'-24' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE	45
1401 1402	RAIN BIRD RWS-M-B-C-P W/ RWS-SOCK 1401 MINI ROOT WATERING SYSTEM WITH 4" DIAMETER X 18" LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE AND RAIN BIRD 1401 0.25 GPM GPM BUBBLER AS INDICATED. WITH CHECK VALVE, PURPLE GRATE, AND SAND SOCK FOR SANDY SOIL	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	REMOTE CONTROL DRIP VALVE RAINBIRD 100DV NPT W/ 30PSI PRESSURE REGULATOR AND 30 MESH WYE STRAINER
	PVC TO POLY TUBING PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING
	RAIN BIRD ARV050 1/2" AIR RELIEF VALVE, MADE OF QUALITY RUST-PROOF MATERIALS, WITH A 6" DRIP VALVE BOX (SEB 7XB EMITTER BOX). USE WITH INSTALLATION BELOW SOIL. INSTALL AT HIGH POINTS IN DRIP LINE SYSTEM
	AREA TO RECEIVE DRIP EMITTERS BOWSMITH SB SERIES SINGLE OUTLET DRIP EMITTER, BARBED INLET AND OUTLET, GREEN=0.6GPH, Emitter Notes: SB-06 0.6gph emitters (2 assigned to each 1 Gal plant) SB-06 0.6gph emitters (2 assigned to each 5 Gal plant)

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD PESB-PRS-D 1" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY. GLOBE CONFIGURATION. WITH PRESSURE REGULATING MODULE, AND SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS.
	RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.
	LEEMCO STAINLESS STEEL GATE VALVE LGT SIZE PER LINE SS, CLASS 125 304 STAINLESS STEEL,
MV	RAIN BIRD EFB-CP 1" 1", 1-1/4", 1-1/2", 2" BRASS MASTER VALVE, THAT IS CONTAMINATION PROOF W/SELF-FLUSHING FILTER SCREEN. GLOBE CONFIGURATION, RECLAIMED WATER COMPATIBLE, AND PURPLE HANDLE COVER DESIGNATES NON-POTABLE WATER USE.
BF	ZURN WILKINS 375XLB 1" REDUCED PRESSURE PRINCIPLE ASSEMBLY. SIZE 2" WITH LOCKING STEEL CAGE AND 4" CONCRETE HOUSE KEEPING PAD. COORDINATE EXACT PLACEMENT WITH OWNER
C	HYDRO POINT WEATHER TRACK LC+ 18 STATION 2WIRE HIGH-IMPACT PLASTIC NEMA 3R RATED, KEY-LOCK ENTRY, WALL MOUNT ENCLOSURE. INCLUDES METAL MOUNTING PLATE WITH BUILT-IN BUBBLE LEVEL.
HM	HYDRO POINT WTFLOWHD-I-200 2" IRON, HIGH-DEFINITION FLOW SENSOR AND SUB-METER FOR 2" MAINLINES. INSTALL ON DOWNSTREAM SIDE OF BACKFLOW PREVENTER ABOVE GRADE PER DETAIL
M #"	POINT OF CONNECTION 3" WATER METER FOR IRRIGATION SEE CIVIL PLANS
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40

Valve Callout



CRITICAL ANALYSIS

Generated: 2022-11-20 19:39

P.O.C. NUMBER: 01
Water Source Information: WATER METER FOR IRRIGATION SEE CIVIL PLANS

FLOW AVAILABLE
Point of Connection Size: 3"
Flow Available 148.06 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 85 PSI
Pressure Available: 85 PSI

DESIGN ANALYSIS
Maximum Station Flow: 31.37 GPM
Flow Available at POC 148.06 GPM
Residual Flow Available: 116.69 GPM

Critical Station: 19
Design Pressure: 45 PSI
Friction Loss: 2.87 PSI
Fittings Loss: 0.29 PSI
Elevation Loss: 0 PSI
Loss through Valve: 5.31 PSI
Pressure Req. at Critical Station: 53.46 PSI
Loss for Fittings: 0.14 PSI
Loss for Main Line: 1.35 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 17.82 PSI
Critical Station Pressure at POC: 72.77 PSI
Pressure Available: 85 PSI
Residual Pressure Available: 12.23 PSI

VALVE SCHEDULE

	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC
2	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	6.6	44.8	63.2
3	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	3.09	38.5	52.9
4	RAIN BIRD PESB-PRS-D	1"	BUBBLER	16.5	39.1	
5	RAIN BIRD PESB-PRS-D	1-1/2"	BUBBLER	14.5	36.9	
6	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	4.47	42.2	56.4
7	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	4.79	43.4	57.5
8	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	3.46	39.7	53.8
9	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	1.22	36.4	50.4
10	RAIN BIRD PESB-PRS-D	1"	BUBBLER	14	34.6	52.4
11	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	6.65	45.2	60.0
12	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	3.17	38.7	52.9
13	RAIN BIRD PESB-PRS-D	1"	BUBBLER	9	33.4	49.5
14	RAIN BIRD PESB-PRS-D	1"	BUBBLER	11.5	37.5	
15	RAIN BIRD PESB-PRS-D	1"	TURF ROTARY	10.14	47.9	65.2
16	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	0.82	35.8	50.0
17	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	4.47	42.5	59.9
18	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	6.28	45.5	60.3
19	RAIN BIRD PESB-PRS-D	2"	TURF ROTARY	31.37	53.5	72.8

Pipe Schedule

Maximum Flow Rate - SCH. 40 PVC Plastic Pipe

Pipe Size	Maximum Flow (GPM)
1/2" NOT ALLOWED	
3/4"	5–7
1"	10–12
1 1/4"	16–22
1 1/2"	26–30
2"	50
2 1/2"	70

SLEEVING: CLASS 200 PVC
3 ONE 6", ONE 4", ONE 2" SLEEVE
2 ONE 4", ONE 2" SLEEVE
1 ONE 2" SLEEVE

GENERAL IRRIGATION NOTES

1. THE IRRIGATION CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE SPECIFICATIONS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.

2. INSTALL POP–UP TYPE SPRINKLER HEADS INSTALLED IN LAWN AREAS SO THAT TOP OF SPRINKLER HEAD IS FLUSH WITH ADJACENT SIDEWALK OR CURB.

3. SET SPRINKLER HEADS PERPENDICULAR TO FINISH GRADE OF AREA TO BE IRRIGATED UNLESS OTHERWISE INDICATED ON DRAWINGS.

4. WHEN VERTICAL OBSTRUCTIONS (FIRE HYDRANTS, TREES, LIGHTS, ETC.) INTERFERE WITH SPRAY PATTERN OF SPRINKLER HEADS SO AS TO PREVENT PROPER COVERAGE, ADJUST SPRINKLER SYSTEM BY INSTALLING A QUARTER CIRCLE, HALF CIRCLE, OR ADJUSTABLE CIRCLE SPRINKLER HEAD ON EACH SIDE OF OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE PRIOR TO MAKING ANY ADJUSTMENTS.

5. SPRINKLER SYSTEM DESIGN IS BASED ON MINIMUM OPERATING PRESSURE AND MAXIMUM FLOW DEMAND SHOWN ON IRRIGATION DRAWINGS AT EACH POINT–OF–CONNECTION. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT DIFFERENCES BETWEEN WATER PRESSURE INDICATED ON DRAWINGS AND ACTUAL PRESSURE READING AT IRRIGATION POINT–OF–CONNECTION TO OWNER'S AUTHORIZED REPRESENTATIVE.IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REVISIONS.

6. 120 VOLT ELECTRICAL POWER OUTLET AT THE CONTROLLER WILL BE PROVIDED BY GENERAL CONTRACTOR. MAKE FINAL HOOK–UP FROM ELECTRICAL OUTLET TO AUTOMATIC CONTROLLER. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH CURRENT N.E.C.

7. THIS DESIGN IS DIAGRAMMATIC. PIPING, VALVES, ETC. MAY BE SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE AVOID CONFLICTS BETWEEN SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. NO VALVE BOXES SHALL BE PLACED WITHIN TURF AREAS.

8. FLUSH AND ADJUST SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND BUILDINGS. THIS INCLUDES SELECTING THE BEST DEGREE OF ARC TO FIT SITE CONDITIONS AND TO THROTTLE FLOW CONTROL AT EACH VALVE TO OBTAIN OPTIMUM PRESSURE FOR EACH SYSTEM.

9. DO NOT WILLFULLY INSTALL SPRINKLER SYSTEM AS INDICATED ON DRAWINGS WHEN IT IS OBVIOUS IN FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES IN AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED DURING DESIGN. BRING SUCH OBSTRUCTIONS OR DIFFERENCES TO THE ATTENTION OF OWNER'S AUTHORIZED REPRESENTATIVE. IN EVENT THIS NOTIFICATION IS NOT PERFORMED, CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REVISIONS.

10. INSTALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN DETAILS. USE TEFLON TAPE ON PVC MALE PIPE THREADS ON SPRINKLER SWING JOINT AND VALVE ASSEMBLIES.

11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH GRADE DIFFERENCES, LOCATION OF WALL, RETAINING WALLS, ETC. COORDINATE WORK WITH GENERAL CONTRACTOR AND OTHER SUB– CONTRACTORS FOR LOCATION AND INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC.

12. IN ADDITION TO SLEEVES SHOWN ON THE DRAWINGS, CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF PIPE SLEEVING AT ALL HARDSCAPE CROSSINGS AND SEPARATE CONTROL WIRE SLEEVES OF SUFFICIENT SIZE UNDER PAVED AREAS.

13. THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED LATERAL IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS THE UNSIZED SECTION SHALL BE OF THE SAME SIZE. IN NO CASE SHALL A SECTION OF PIPE BE SMALLER THAN ANY DOWNSTREAM SECTION LOCATED ON THE SAME LATERAL RUN.

14. THE IRRIGATION CONTRACTOR SHALL TURN OVER TO THE OWNER; TWO EACH OF ALL OPERATING KEYS AND SERVICING TOOLS NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL IRRIGATION SYSTEM COMPONENTS. THIS INCLUDES SPECIALIZED TOOLS REQUIRED FOR COMPLETE DISASSEMBLY OF EACH SPRINKLER AND VALVE.

15. IRRIGATION SYSTEM IS DESIGNED FOR NON–POTABLE WATER USAGE. CONTRACTOR TO PROVIDE PURPLE CAPS FOR SPRAYS/ROTORS, AND BRAND "NON POTABLE" ON ALL VALVE BOXES IN 3–INCH HIGH LETTERS.

DRIP IRRIGATION NOTES

1. INSTALL EMITTERS ON UPHILL SIDE OF TREE OR SHRUB IF LOCATED ON A SLOPE.

2. VERIFICATION OF PLANT MATERIAL QUANTITIES AND NUMBER OF EMITTERS PER VALVE STATION IS THE RESPONSIBILITY OF THE CONTRACTOR.

4. DRIP IRRIGATION LINES ARE SHOWN DIAGRAMMATIC FOR CLARITY. INSTALL ALL PIPING IN LANDSCAPE PLANTING AREAS.

5. INSTALL POLYETHYLENE DRIP LATERAL WITHIN PVC SLEEVE WHEN ROUTING UNDER PAVED SURFACES OR THROUGH PLANTER'S WALLS.

6. REFER TO PLANTING LEGEND FOR PLANT MATERIAL NAMES, ABBREVIATIONS, SPECIFIC SIZES, ON–CENTER SPACING AND ADDITIONAL INFORMATION.

7. PROVIDE ONE (1) FLUSH–VALVE ASSEMBLY AT EACH END OF DRIP ZONE LATERAL LATERAL OR AS SHOWN ON PLANS. LOCATE FLUSH–VALVE ASSEMBLY BOXES ADJACENT TO PLANTING BORDERS OR PAVING EDGES FOR MAINTENANCE CONVENIENCE.

8. THE MAXIMUM ALLOWABLE LENGTH DOWNSTREAM OF EACH ZONE CONTROL VALVE FOR THE 3/4" NOMINAL DIAMETER POLYETHELYNE DRIP LATERAL IS 250 FEET. FLOW MUST NOT EXCEED EIGHT (5) GPM. IF THE LENGTH OR FLOW EXCEEDS THE ALLOWABLE AMOUNT AN ADDITIONAL CONNECTION TO A PVC LATERAL WILL BE NECESSARY. IN NO CASE SHALL THE ACTUAL FLOW OF THE DRIP LATERAL BE INCREASED BY MORE THAN 5% THROUGH THE ADDITION OF MORE EMITTERS OR BY CHANGING THE FLOW RATE OF THE EMITTERS.

DISCLAIMER:

ENVIRONMENTAL PLANNING GROUP GROUP (EPG) PROVIDED QUANTITIES ARE CALCULATED BASED ON THE 3D MODEL PROGRESS. CONTRACTORS ARE RESPONSIBLE FOR REVIEWING THE DESIGN AND PROVIDING THEIR OWN CALCULATIONS AND AREAS FOR THE PURPOSES OF COST ESTIMATING / BIDDING.

THE CLIENT, AND/OR THE CLIENTS CONTRACTOR, IS RESPONSIBLE FOR ATTAINING OR PROVIDING THE NECESSARY CONSTRUCTION PERMIT FOR CITY CODE COMPLIANCE.

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Checker
20052
May 17, 2024

IFC 2 5/17/2024

CONSTRUCTION
DOCUMENTS 95%
IFC SET 2 OF 3

May 17, 2024

IRRIGATION GENERAL NOTES

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