



Per Park City Municipal code, WeatherTrak controller is an EPA approved WaterSense controller. Further information can be found at: <https://www.hydpoint.com/newsroom/hydpoint-weathertrak-smart-irrigation-controllers-earn-prestigious-epa-watersense-label/>

## CRITICAL ANALYSIS

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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

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC
2	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	6.6	601.0	44.8	63.2
3	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	3.09	390.4	38.5	52.9
4	RAIN BIRD PESB-PRS-D	1"	BUBBLER	16.5	641.9	38.5	
5	RAIN BIRD PESB-PRS-D	1-1/2"	BUBBLER	290.7			
6	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	4.47	277.8	42.2	56.4
7	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	4.79	83.2	43.4	57.5
8	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	6.46	181.7	44.8	
9	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	3.27	235.7	39.2	
10	RAIN BIRD PESB-PRS-D	1"	BUBBLER	14	446.4	34.2	
11	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	9.87	387.0	45.4	
12	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	6.97	408.3	43.9	
13	RAIN BIRD PESB-PRS-D	1"	BUBBLER	13	422.9	34.8	
14	RAIN BIRD PESB-PRS-D	1"	BUBBLER	11.5	424.8	37.4	
15	RAIN BIRD PESB-PRS-D	1"	TURF ROTARY		443.5		65.2
16	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	2.95	472.1	38.9	
17	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	9.76	475.3	44.2	
18	REMOTE CONTROL DRIP VALVE	3/4"	AREA FOR DRIP EMITTERS	21.33	635.5	45.4	
19	RAIN BIRD PESB-PRS-D	2"	TURF ROTARY	31.37	164.3	53.0	
20	RAIN BIRD PESB-PRS-D	2"			469.5	3.9	
21	RAIN BIRD PESB-PRS-D	2"			630.5		
	Common Wire				1,363		

## 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: GLASS 200 PVC  
ONE 6", ONE 4", ONE 2" SLEEVE  
ONE 1", ONE 2" SLEEVE  
ONE 2" SLEEVE

## GENERAL IRRIGATION NOTES

- THE IRRIGATION CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE SPECIFICATIONS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
- INSTALL WATERSENSE IRRIGATION CONTROLLER AS PER SPECIFICATIONS.
- INSTALL POP-UP TYPE SPRINKLER HEADS INSTALLED IN LAWN AREAS SO THAT TOP OF SPRINKLER HEAD IS FLUSH WITH ADJACENT SIDEWALK OR CURB.
- SET SPRINKLER HEADS PERPENDICULAR TO FINISH GRADE OF AREA TO BE IRRIGATED UNLESS OTHERWISE INDICATED ON DRAWINGS.
- 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.
- 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.
- 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.
- THIS DESIGN IS DIAGRAMMATIC. PIPING, VALVES, ETC. MAY BE SHOWN WITHIN PAVED AREAS 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.
- 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.
- 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 OR DIFFERENCES TO THE ATTENTION OF OWNER'S AUTHORIZED REPRESENTATIVE. IN EVENT THIS NOTIFICATION IS NOT PERFORMED, CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REVISIONS.
- INSTALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN DETAILS. USE TEFLON TAPE ON PVC MALE PIPE THREADS ON SPRINKLER SWING JOINT AND VALVE ASSEMBLIES.
- 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.
- 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.
- 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.
- 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.
- 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

- INSTALL EMITTERS ON UPHILL SIDE OF TREE OR SHRUB IF LOCATED ON A SLOPE.
- VERIFICATION OF PLANT MATERIAL QUANTITIES AND NUMBER OF EMITTERS PER VALVE STATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- DRIP IRRIGATION LINES ARE SHOWN DIAGRAMMATIC FOR CLARITY. INSTALL ALL PIPING IN LANDSCAPE PLANTING AREAS.
- INSTALL POLYETHYLENE DRIP LATERAL WITHIN PVC SLEEVE WHEN ROUTING UNDER PAVED SURFACES OR THROUGH PLANTER'S WALLS.
- REFER TO PLANTING LEGEND FOR PLANT MATERIAL NAMES, ABBREVIATIONS, SPECIFIC SIZES, ON-CENTER SPACING AND ADDITIONAL INFORMATION.
- 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.
- THE MAXIMUM ALLOWABLE LENGTH DOWNSTREAM OF EACH ZONE CONTROL VALVE FOR THE 3/4" NOMINAL DIAMETER POLYETHYLENE DRIP LATERAL IS 250 FEET. FLOW MUST NOT EXCEED EIGHT (8) 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.

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