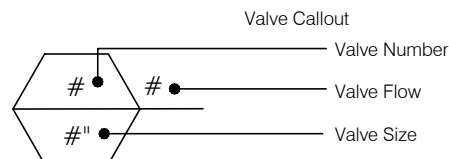


IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	Rain Bird 1806 15 Strip Series Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	10	25
	Rain Bird 1806 12 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	1	25
	Rain Bird 1806 ADJ Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	1	25
	Rain Bird 1806 ADJ Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	40	25
	Rain Bird R-VAN24 1806-SAM-P45 Turf Rotary, 17"-24" 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/1800 turf spray body on 6.0" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.	23	30
	Rain Bird 1806-1400 Flood Flood Bubbler 6.0" popup	5	20

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird XCZ-100-PRB-COM Medium Plus Flow Drip Control Kit for Commercial Applications. 1" Ball Valve with 1" PESB Valve and 1" Pressure Regulating 40psi Quick-Check Basket Filter. .3gpm to 20gpm.	1
	Rain Bird MDCFCAP Dripline Flush Valve cap in compression fitting coupler.	3
	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.	1
	Area to Receive Dripline Rain Bird XFS-06-18 (18) XFS Sub-Surface Pressure Compensating Landscape Dripline w/Copper Shield Technology. 0.6GPH emitters at 18.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.	1,679 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PEB 1-1/2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.	4
	Rain Bird ESP8LXMEF 8 Station Capable Commercial Controller. Mounted on a Plastic Wall Mount. Flow Sensing and Water Management Capabilities	1
	Rain Bird Wireless Rain/Freeze Sensor Sensor Combo (Model WR2-RFC)	1
	Water Meter 1"	1
	Irrigation Lateral Line: PVC Class 200 SDR 21	1,928 l.f.
	Irrigation Mainline: PVC Schedule 40	140.9 l.f.
	Pipe Sleeve: PVC Class 200 SDR 21	203.2 l.f.



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	Rain Bird PEB	1"	Bubbler	2.50	22.04	22.24	1.7 in/h
2	Rain Bird PEB	1-1/2"	Turf Spray	17.22	33.54	35.31	1.62 in/h
3	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	7.99	37.98	38.5	0.45 in/h
4	Rain Bird PEB	1-1/2"	Turf Rotary	25.86	37.17	43.21	0.61 in/h
5	Rain Bird PEB	1-1/2"	Turf Spray	28.97	33.21	41.68	1.76 in/h

SLEEVING / WIRING NOTES:

IN ADDITION TO PROVIDING SLEEVES FOR ALL PIPING UNDER ROADWAYS AND WALKWAYS, THE IRRIGATION CONTRACTOR SHALL PROVIDE AND INSTALL SCH. 40 PVC SLEEVES FOR ALL CONTROLLER WIRES OCCURRING UNDER ALL ROADWAYS AND WALKWAYS. SLEEVES FOR CONTROLLER WIRES SHALL BE 2" DIA. AND CONTAIN NO MORE THAN 25 WIRES.

IRRIGATION DISCLAIMER

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. OR IRRIGATION CONTRACTOR MAY BE REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST.

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FINAL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR ONLY AND SHALL NOT BE CONSIDERED ABSOLUTE.

CRITICAL ANALYSIS

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P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 37.50 gpm

PRESSURE AVAILABLE
Static Pressure at POC: 65.00 psi
Elevation Change: 0.00 ft
Service Line Size: 3"
Length of Service Line: 5.00 ft
Pressure Available: 64.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 28.97 gpm
Flow Available at POC: 37.50 gpm
Residual Flow Available: 8.53 gpm

Pressure Req. at Critical Station: 37.17 psi
Loss for Fittings: 0.19 psi
Loss for Main Line: 1.87 psi
Loss for POC to Valve Elevation: 0.00 psi
Loss for Backflow: 0.00 psi
Loss for Water Meter: 3.98 psi
Critical Station Pressure at POC: 43.21 psi
Pressure Available: 64.00 psi
Residual Pressure Available: 20.79 psi



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REVISIONS:

	PERMIT COMMENTS	05-27-21
	PERMIT COMMENTS	06-15-21
	INTERNAL REVIEW	06-17-21

ISSUE DATE:

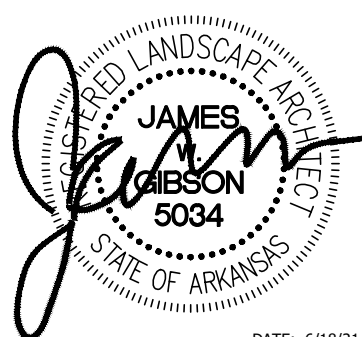
	ISSUE FOR VARIANCE	03-19-21
	ISSUE FOR PERMIT	04-16-21
	ISSUE FOR BID	06-18-21

DRAWN BY: - JWG

PANDA PROJECT #: - S8-21-D8250

PANDA STORE #: - D8250

ARCH PROJECT #: - 20225.003



DATE: 6/18/21

Heights Venture
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LANDSCAPE
IRRIGATION

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BID SET

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THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON DESIGN DRAWINGS, RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE ENGINEER AND THE LANDSCAPE ARCHITECT DO NOT GUARANTEE THAT LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES.

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