



**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL	QTY
▲	RAIN BIRD 1806-SAM-PRS 15 STRIP SERIES	148
▲	RAIN BIRD 1806-SAM-PRS 5 SERIES MPR	6
○	RAIN BIRD 1806-SAM-PRS ADJ	1
▲	RAIN BIRD 1812-SAM-PRS 15 STRIP SERIES	36
▲	RAIN BIRD 1812-SAM-PRS 8 SERIES MPR	5
▲	RAIN BIRD 1812-SAM-PRS 10 SERIES MPR	24
▲	RAIN BIRD 1812-SAM-PRS 12 SERIES MPR	20
▲	RAIN BIRD 1812-SAM-PRS 15 SERIES MPR	12
○	RAIN BIRD 1812-SAM-PRS ADJ	17
○	HUNTER MP2000 PROS-06-PRS40-CV	12
○	HUNTER MP3000 PROS-06-PRS40-CV	17
SYMBOL	MANUFACTURER/MODEL	QTY
○	RAIN BIRD 5006-PL-PC, FC-SAM-R	3
○	RAIN BIRD 5006-PL-PC, FC-SAM-R	2
○	RAIN BIRD 5006-PL-PC, FC-SAM-R	23
○	RAIN BIRD 5012-PL-PC, FC-SAM-R	1
○	RAIN BIRD 5012-PL-PC, FC-SAM-R	26
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
■	RAIN BIRD XCZ-100-PRB-LC WIDE FLOW DRIP CONTROL KIT, FOR LIGHT COMMERCIAL USES. 1" PEB VALVE, WITH 1" PRESSURE REGULATING 40PSI BASKET FILTER. 0.3GPM TO 20GPM.	4
⊕	NETAFIM TLISOV NETAFIM TLISOV- 1/2" MANUAL FLUSH VALVE, BARBED INSERT. INSTALL IN 10" BOX, WITH ADEQUATE BLANK OR "COBRA" TUBING TO EXTEND VALVE OUT OF VALVE BOX. 17MM FITS TECHLINE HCVR, HCVRX-RW/RP, CV, DL, RW AND RWP DRIP LINES, AND PE IRRIGATION HOSE	5
⊕	RAIN BIRD OPERIND DRIP SYSTEM OPERATION INDICATOR, STEM RISER 6" FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16" OF 1/4" DISTRIBUTION TUBING WITH CONNECTION FITTING PRE-INSTALLED.	3
⊕	TREE RING RAINBIRD XFCV-06-12 TWO RING DRIP LINE, ANCHOR TO ROOT BALL, USING DRIP TUBE STAKES	41
▨	AREA TO RECEIVE DRIP LINE RAIN BIRD XFCV-06-18 XFCV ON SURFACE LANDSCAPE DRIP LINE WITH A HEAVY-DUTY 3.5 PSI CHECK VALVE, 0.6 GPH EMITTERS AT 18" O.C. DRIP LINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. GREAT FOR ELEVATION CHANGE. SPECIFY XF INSERT FITTINGS.	3,401 L.F.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
⊕	RAIN BIRD PEB 1" 1-1/2" 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	14
■	RAIN BIRD 5-RC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 1-PIECE BODY.	1
⊕	MATCO-NORCA 200RTD 2" TO 12" DUCTILE IRON EPOXY COATED & RESILIENT WEDGE ISOLATION SHUT OFF VALVE. SAME SIZE AS MAINLINE PIPE. RING-TITE OPTION.	1
⊕	RAIN BIRD PEB 1-1/2" 1", 1-1/2" 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	1
⊕	WEATHERMATIC SL4800 WITH (2) SLM12 24-ZONE CONTROLLER, INTERNAL 120VAC/230VAC TRANSFORMER, LARGE BACKLIT LCD DISPLAY	1
⊕	WEATHERMATIC SL-AIRCARDFLOW1F-ATT SMARTLINE AIRCARD WITH FLOW AND 1-YEAR SERVICE PLAN PLUS FLOW (AT&T NETWORK)	1
⊕	WEATHERMATIC SL-AIRCARDFLOW1F-ATT SMARTLINE AIRCARD WITH FLOW AND 1-YEAR SERVICE PLAN PLUS FLOW (AT&T NETWORK)	1
⊕	WEATHERMATIC SLW5 WIRELESS WEATHER SENSOR FOR ET BASED WATERING, 900MHZ - 1500' LINE OF SITE RANGE	1
⊕	WEATHERMATIC SLFS-T15 1-1/2" 1-1/2" TEE TYPE INSERT FLOW SENSOR - USED WITH THE SMARTLINK FLOW AIRCARD, PAIGE WIRE P7162D COMMUNICATION CABLE INSTALLED IN CONDUIT WITH FIELD WIRE BACK TO NEW CONTROLLER	1
POC	POINT OF CONNECTION 2" 4" X 2" TAP FROM EXISTING 4" IRRIGATION MAIN	1
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	7,597 L.F.
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21	1,594 L.F.
---	PIPE SLEEVE: PVC CLASS 200 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.	462.7 L.F.
⊕	Valve Callout	
⊕	Valve Number	
⊕	Valve Flow	
⊕	Valve Size	

**SYSTEM NOTES:**

- CONNECT TO EXISTING 4" MAINLINE IN GENERAL AREA AS SHOWN. INSTALL D.I. 4" X 2" SERVICE TEE, 2" OPERATING NUT GATE VALVE (2") AND MANUFACTURE REQUIRED JOINT AND FITTING RESTRAINTS PER DETAILS.
- WEATHERMATIC SMARTLINE WITH FLOW SENSOR, MASTER VALVE AND FLOW AIR CARD SHALL MANAGE THE SYSTEM. ENSURE POSITIVE COMMUNICATION WITH SMARTLINK NETWORK VIA ADDITIONAL ANTENNAE IF NECESSARY
- INSTALL (2) 18 AWG 13 MULTI-CONDUCTOR U.F. IRRIGATION WIRE WITH 14 GAUGE SINGLE CONDUCTOR U.F. WHITE COMMON WIRE BACK TO CONTROLLER IN 1" MIN. CONDUIT. USE 3M DBY(R) CONNECTORS AT ALL CONTROL VALVES OR WIRE SPLICES. PROVIDE (8) SPARE WIRES ((4) EACH CABLE) FROM LAST VALVE ON MAIN TO CONTROLLER AND LABEL AS SPARE.
- INSTALL SHIELDED DIRECT BURY COMMUNICATION CABLE FROM FLOW SENSOR TO CONTROLLER. INSTALL IN 1" SCH40 CONDUIT 12" DEEP FOR PROTECTION WHEN NOT ADJACENT TO MAINLINE
- INSTALL SLEEVES WITH CLEAN GRANULAR FILL UNDER PAVEMENTS. INSTALL 18" BELOW SUB GRADE AND CAP ENDS 2" BEYOND CURB.
- PIPE DEPTH TO BE 12"-14" FOR LATERALS, 14"-18" FOR PVC IRRIGATION MAIN
- OBTAIN ANY PERMITS FOR WORK IN ROW AREAS OR CITY OWNED PROPERTY
- OWNERS REP TO SUPPLY 110 ELECTRIC CONDUIT FOR CONTROLLER POWER IN GENERAL AREA SHOWN ON PLANS
- SEAL AND WATERPROOF ANY WALL PENETRATIONS AS A RESULT OF CONTRACTORS WORK
- LOCATE WEATHER SENSOR IN APPROVED LOCATION WITH CLEAR VIEW TO THE SKY AND COMMUNICATION TO RECEIVER AT CONTROLLER LOCATION

**GENERAL NOTES:**

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE PROJECT SPECIFICATIONS TO BIDDING. THE PROJECT SPECIFICATIONS ARE A PART OF THESE PLANS AND SHALL BE CONSULTED BY THE IRRIGATION CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATIONS, PLANS AND REQUIRED IRRIGATION INSPECTIONS
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
- THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT
- ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
- THIS PLAN IS SCHEMATIC AND DUE TO THE NATURE OF CONSTRUCTION SLIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
- THIS IRRIGATION SYSTEM IS DESIGNED TO THE FOLLOWING STATS: 50 G.P.M. @ 65 P.S.I. STATIC WATER PRESSURE
- CONTRACTOR TO VERIFY ACTUAL AVAILABLE WATER PRESSURE BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT IF AVAILABLE WATER PRESSURE EXCEEDS 5 PSI HIGHER OR LOWER THAN AVAILABLE WATER PRESSURE.

- IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY, SHALL HAVE A BACKFLOW PREVENTER INSTALLED.
- WHERE APPLICABLE IRRIGATION HEADS ARE TO BE ADJUSTED FOR COMPLETE COVERAGE WITH MINIMUM OVER SPRAY BEYOND LANDSCAPE AREAS.
- EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
- IRRIGATION LATERAL LINES, MAIN LINES AND EQUIPMENT MAY BE SHOWN OUTSIDE PROPERTY LINES ON THIS PLAN. ALL IRRIGATION LINES AND EQUIPMENT ARE TO BE WITHIN AND INSTALLED WITHIN THE LIMITS OF THE PROPERTY LINE.
- ALL IRRIGATION SLEEVING TO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES. SEE SLEEVING DETAIL.
- IRRIGATION CONTRACTOR'S POINT OF CONNECTION TO BEGIN AT POINT OF CONNECTION IN GENERAL AREA SHOWN ON PLAN FROM EXISTING 4" MAIN LINE FED FROM LAKE VIA PUMP STATION.
- IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNERS REPRESENTATIVE.

**VALVE SCHEDULE**

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PEB	1-1/2"	TURF ROTOR	36.06	51.22	55.18	0.78 in/h
2	RAIN BIRD PEB	1-1/2"	TURF ROTOR	46.24	51.99	57.28	0.55 in/h
3	RAIN BIRD PEB	1"	TURF ROTARY	16.20	43.50	47.83	0.33 in/h
4	RAIN BIRD PEB	1-1/2"	SHRUB ROTOR	37.08	53.34	60.67	0.28 in/h
5	RAIN BIRD PEB	1-1/2"	SHRUB ROTOR	32.97	51.85	59.21	0.46 in/h
6	RAIN BIRD PEB	1-1/2"	TURF SPRAY	27.11	35.41	41.76	1.74 in/h
7	RAIN BIRD PEB	1"	SHRUB ROTOR	12.36	48.40	52.93	0.19 in/h
8	RAIN BIRD PEB	1"	TURF ROTARY	15.56	44.27	49.30	0.48 in/h
9	RAIN BIRD XCZ-100-PRB-LC	1"	DRIP EMITTER	4.40	32.91	38.92	0.38 in/h
10	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIP LINE	13.61	44.41	49.18	0.43 in/h
11	RAIN BIRD PEB	1-1/2"	TURF SPRAY	23.67	38.33	44.82	1.26 in/h
12	RAIN BIRD PEB	1-1/2"	TURF SPRAY	48.40	37.86	51.61	1.77 in/h
13	RAIN BIRD XCZ-100-PRB-LC	1"	DRIP EMITTER	3.80	32.65	36.62	0.38 in/h
14	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIP LINE	9.07	37.27	41.55	0.43 in/h
15	RAIN BIRD PEB	1-1/2"	TURF SPRAY	46.61	37.29	43.30	1.78 in/h
16	RAIN BIRD PEB	1-1/2"	SHRUB SPRAY	46.37	38.96	45.04	1.46 in/h
17	RAIN BIRD PEB	1-1/2"	SHRUB SPRAY	45.37	39.33	46.29	1.43 in/h
18	RAIN BIRD PEB	1-1/2"	TURF SPRAY	47.82	38.19	45.64	1.75 in/h

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CONSULTANT  
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NO.	ISSUED FOR	DATE
REV	REV NAME	REV DATE
100%	PLANS	11/04/18

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 Kristy DG2  
 Landscape Architect  
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**IRRIGATION Site Plan**  
 PROJECT # 18-292  
 SHEET NUMBER

**L7**

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