

INSTALLATION GENERAL NOTES

1. THE IRRIGATION POINT OF CONNECTION IS TO BE A 2-1/2" COPPER STUB-OUT IN A LANDSCAPE AREA. POINT OF CONNECTION MUST SUPPLY 80 PSI AT 120 GPM MIN.
2. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
3. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
5. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - A1. ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
 - A2. WHENEVER POSSIBLE, INSTALL IRRIGATION VALVES AND VALVE BOXES OUTSIDE OF ATHLETIC FIELDS OR IN PLANTING AREAS.
6. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:
 - A. TWO (2) OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVE.
 - B. TWO (2) OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL ROTARY SPRINKLERS.
7. SELECT NOZZLES FOR SPRAY AND ROTARY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS. CAREFULLY ADJUST THE RADIUS OF THROW AND ARC OF COVERAGE OF EACH ROTARY SPRINKLER TO PROVIDE THE BEST PERFORMANCE.
8. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR.
9. 110V ELECTRICAL CONNECTION TO CONTROLLER IS BY OTHERS.
10. THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN THE IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
11. INSTALL TWO (2) SPARE CONTROL WIRES ALONG ENTIRE MAINLINE PATH.
12. PROVIDE OWNER WITH ALL OPERATIONS MANUALS AND APPROPRIATE TURN-OVER ITEMS AS PER THE WRITTEN SPECIFICATIONS.
13. IRRIGATION DESIGNER CAN INSPECT INSTALLATION AT ANY POINT UP UNTIL FINAL ACCEPTANCE FOR COMPLIANCE WITH SPECIFICATIONS AND PLANS, AND REQUEST ANY REPLACEMENTS NECESSARY TO MEET SPECIFICATIONS AND PLANS.
14. LEGEND QUANTITIES ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR QUANTITIES BASED ON DRAWINGS.
15. IN THE CASE OF ANY DISCREPANCY BETWEEN DRAWINGS, NOTES, AND SPECIFICATIONS, USE THE MOST STRINGENT.
16. ALL SLEEVES MUST BE AT LEAST TWICE THE SIZE OF THE PIPE. ALL WIRE SLEEVES SHALL BE 2".

Quantity	Symbol	Description	Part Number	Pressure	Flow	Radius
5	⊙	Hunter Institutional 10F	INST-04-CV-10F	30	1.59	10
22	⊖	Hunter Institutional 10H	INST-04-CV-10H	30	0.88	10
7	⊖	Hunter Institutional 100	INST-04-CV-100	30	0.42	10
9	⊖	Hunter Institutional 12F	INST-04-CV-12F	30	2.7	12
30	⊖	Hunter Institutional 12H	INST-04-CV-12H	30	1.3	12
11	⊖	Hunter Institutional 120	INST-04-CV-120	30	0.67	12
2	⊖	Hunter Institutional 15F	INST-04-CV-15F	30	3.75	15
4	⊖	Hunter Institutional 15H	INST-04-CV-15H	30	1.86	15
4	⊖	Hunter Institutional 150	INST-04-CV-150	30	0.97	15
11	⊖	Hunter I-20 Rotor V/20 Nozzle	I-20-ABS/265-20	50	2.0	36
30	⊖	Hunter I-25 Rotor V/5 Nozzle	I-25-ABS/265-5	60	5.3	45
7	⊖	Hunter I-25 Rotor V/8 Nozzle	I-25-ABS/265-8	60	9.2	50
20	⊖	Hunter I-40 Rotor V/43 Nozzle	I-25-ABS/265-43	70	16.1	59
18	⊖	Hunter I-40 Rotor V/45 Nozzle	I-25-ABS/265-45	70	24.7	68
7	⊖	Hunter HG-50C 1" Quick Coupler	HQ-50RC			
4	⊖	Mico 10RT Pushon 3" Isolation Valve	10RT			
1	⊖	Point of Connection T.B.D.	ICV-xxxx			
17	⊖	Hunter ICV Valve Size as Shown	ICV-xxx			
13	⊖	Hunter ICV Inp. Valve Size as Shown	ICV-201			
1	⊖	Hunter ICV 3" Master Valve	ICV-240PL			

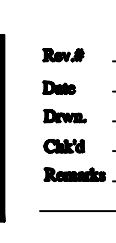
Symbol	Description	Part Number
⊖	Drainpipe	
---	Lateral PVC Class 200 1" Unless noted otherwise	
---	Manline PVC Class 200 Size as Noted Pipe shall be RT for 3" and larger	
----	Sleeves	

General

Irrigation



Designed By: JDA
 Drawn By: JDA
 Check By: KY
 Date: 5/7/2009



JFRG
 WARREN AFB

IRRIGATION PLAN
 NOTES/LEGEND