

GENERAL IRRIGATION NOTES:

- IRRIGATION SYSTEM DESIGN REQUIREMENTS: 18 GPM @ A MINIMUM OF 55 PSI AT THE POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY THE AVAILABLE GPM AND PSI PRIOR TO INSTALLATION OF THE SYSTEM.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT CONDITIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN PROCESS. FOR EXAMPLE, OBSTRUCTIONS, GRADE DIFFERENCES, WATER LEVELS, DIMENSIONAL DIFFERENCES, ETC. REFER TO THE LANDSCAPE PLAN TO AVOID CONFLICTS WITH PROPOSED TREES OR SHRUBS.
- PIPING MAY SOMETIMES BE INDICATED AS BEING LOCATED IN UNLIKELY AREAS: I.E., UNDER BUILDINGS OR PAVEMENT, OUTSIDE OF PROPERTY LINES, IN LAKES OR DITCHES, ETC. THIS IS DONE FOR GRAPHIC CLARITY ONLY. WHENEVER POSSIBLE, PIPING IS TO BE INSTALLED IN OPEN, GREEN AREAS.
- IF REQUIRED, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE NECESSARY "RIGHT OF WAY" USE PERMITS.
- PIPE SIZES SHALL CONFORM TO THOSE ON THE DRAWINGS. SUBSTITUTING WITH SMALLER PIPE SIZES WILL NOT BE PERMITTED.
- MAINLINE IS TO BE INSTALLED WITH A MINIMUM OF 18" DEPTH OF COVER. LATERAL LINES ARE TO BE INSTALLED WITH A MINIMUM OF 12" DEPTH OF COVER.
- UNLESS OTHERWISE INDICATED, ALL SLEEVES ARE TO BE PVC SCH 40 AND TWO (2) NOMINAL SIZES LARGER THAN THE PIPE TO BE SLEEVED. FOR EXAMPLE, THE SLEEVE FOR A 2" PIPE SHALL BE 3". NO IRRIGATION SLEEVE SHALL BE SMALLER THAN 2".
- WHEREVER PRACTICAL, INSTALL VALVES IN MULCHED BEDS AND/OR OUT OF HIGH TRAFFIC AREAS. ALL VALVES, FLUSH VALVES AND WIRE SPLICES SHALL BE INSTALLED IN RAIN BIRD WIDE FLANGED, STRUCTURAL FOAM "PLASTIC" VALVES BOXES AS FOLLOWS:

REMOTE CONTROL VALVES	#VB-STD (16"W X 21"L X 12"H) STD. RECT. BOX
ISOLATION GATE VALVES	#VB-7RND (9"DIA. X 9"H) 7" ROUND BOX
WIRE SPLICES	#VB-10RND (13"DIA. X 10"H) 10" ROUND BOX
DRIP ZONE VALVE / FILTER ASSY	#VB-SPR (23"W X 33"L X 15"H) SUPER JUMBO RECT. BOX
- REFER TO VALVE DESIGNATION SYMBOLS FOR CONTROLLER, STATION NUMBER AND DESIGNED FLOW RATE FOR EACH REMOTE CONTROL VALVE.
- ALL 24 VOLT CONTROL CABLE TO BE UL LISTED, SINGLE STRAND, TYPE UF 600 VOLT CONTROL CABLE. SIZE AND COLOR AS FOLLOWS:

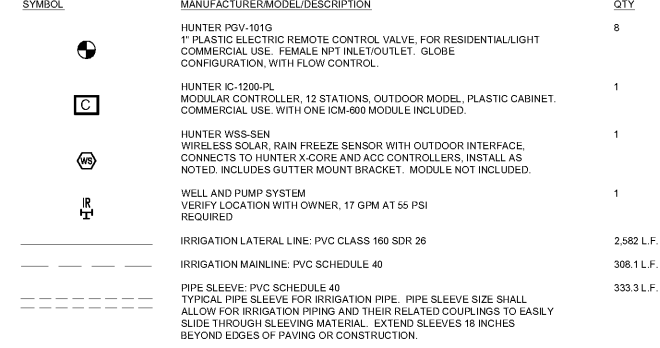
COMMON WIRES	- SIZE AWG #14 OR LARGER AND WHITE IN COLOR.
HOT WIRES	- SIZE AWG #16 OR LARGER AND RED IN COLOR.
SPARE WIRES	- SIZE AWG #16 OR LARGER AND BLUE IN COLOR.
- ALL SPLICES TO THE 24 VOLT CONTROL WIRING SHALL BE MADE WITH RAIN BIRD #100 TWC 24-600 VOLT, DIRECT BURY SPLICE KITS.
- ALL CONTROL VALVE WIRES SHALL BE BUNDLED AND TAPED TOGETHER AT 20' INTERVALS AND PLACED ALONG THE SIDE OF THE MAINLINE PIPE.
- ALL POP-UP SPRINKLER HEADS SHALL BE INSTALLED LEVEL AND FLUSH TO GRADE. MOUNT SPRINKLERS ON FLEXIBLE CONNECTIONS AS FOLLOWS:

1/2" INLET SPRAY HEADS	18" OF HOSE WALL PIPES HOSE
3/4" INLET ROTOR HEADS	18" OF HOSE WALL PIPES HOSE
- THE TOPS OF ALL SPRINKLERS SHALL BE INSTALLED TO BE AT THE HEIGHT OF THE SURROUNDING PLANT MATERIAL. FOR PLANT HEIGHTS OF 1' OR MORE, SURROUND THE RISER WITH REBAR STAKE AND NYLON CABLE TIES. ALL RISERS SHALL BE PLACED A MINIMUM OF 12" FROM ANY CURB, WALK, EDGE OF PAVEMENT OR STRUCTURE.
- LOCATION OF ALL SPRINKLER HEADS SHALL BE SITE ADJUSTED TO MINIMIZE WATER OVERTHROW ONTO BUILDING SURFACES AND ALWAYS SHUTTLE VALVES ON SPRAY ZONES AS REQUIRED TO PREVENT FOGGING.
- ALL DRIP ZONES SHALL BE COVERED WITH MULCH. TYPICAL SPACING FOR DRIP TUBING IS 18" TO 24" ON CENTER. SPACING TO BE DETERMINED BY PLANT LAYOUT. REFER TO LANDSCAPE PLAN. ANCHOR TUBING EVERY 7' WITH 8" LONG WIRE TUBING CLAMPS. INSTALL FLUSH VALVE ASSEMBLIES AT ALL TUBING "DEAD ENDS".
- EXACT CONTROLLER LOCATION(S) SHALL BE COORDINATED WITH AN OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. UNLESS OTHERWISE STATED, THE GENERAL CONTRACTOR SHALL PROVIDE 110 VOLT POWER TO THE CONTROLLER LOCATION(S). THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE CONNECTION FROM THE POWER SOURCE TO THE CONTROLLER(S).
 AT EACH IRRIGATION CONTROLLER, INSTALL A "SECONDARY SURGE ARRESTER" TO THE INCOMING (120 VOLT) POWER SUPPLY (INTERMATIC #AG2401 OR EQUAL).
- AT EACH IRRIGATION CONTROLLER, INSTALL AN "SUPPLEMENTARY EARTH GROUND GRID" WITH A MINIMUM OF TWO (2) 4" X 96" GROUNDING PLATES. TEST THE RESISTANCE TO EARTH PER NFPA STANDARD #780. A ACCEPTABLE EARTH GROUND SHOULD HAVE 15 OHMS OR LESS RESISTANCE. USE MORE PLATES OR GROUNDING RODS AS NEEDED TO ACHIEVE THE DESIRED RESISTANCE READING.
- A RAIN SWITCH SHALL BE CONNECTED TO THE IRRIGATION CONTROLLER. THE SWITCH SHALL BE INSTALLED TO MEET LOCAL CODES AND/OR MINIMUM MANUFACTURER'S RECOMMENDATIONS. OBSTRUCTIONS, VANDALISM AND EASE OF SERVICE SHALL BE CONSIDERED IN LOCATING THE DEVICE.
- EXACT PUMP LOCATION(S) SHALL BE COORDINATED WITH AN OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. UNLESS OTHERWISE STATED, THE GENERAL CONTRACTOR SHALL PROVIDE 240 VOLT, SINGLE PHASE POWER TO THE PUMP LOCATION(S). THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE CONNECTION FROM THE POWER SOURCE TO THE PUMP(S).
- THE IRRIGATION CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING ON REPRODUCIBLE PAPER DETAILING THE ACTUAL INSTALLATION OF THE IRRIGATION SYSTEM. THE AS-BUILT DRAWINGS SHALL LOCATE ALL MAIN LINE PIPING, CONTROL WIRES, WIRE SPLICES, SLEEVES AND VALVES BY SHOWING EXACT MEASUREMENTS FROM PERMANENT FEATURES (BUILDINGS, EDGE OF PAVEMENT, POWER POLES, FIRE HYDRANTS, ETC.). INCLUDE DEPTH OF COVER ON MAINLINE AND SLEEVES.
- NO PRODUCT SUBSTITUTIONS WILL BE PERMITTED WITHOUT THE WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE. IRRIGATION CONTRACTOR TO PROVIDE SUBMITTALS TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
- ANY OTHER EQUIPMENT REQUIRED THAT IS NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
▲▲▲ LCS ▲▲▲ CST ▲▲▲ SST	HUNTER PROS-06-PRS30 5' STRIP SPRAY TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	7
⊙ ⊙ ⊙ ⊙ ⊙	HUNTER PROS-06-PRS30 8" RADIUS TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	27
⊙ ⊙ ⊙ ⊙ ⊙	HUNTER PROS-06-PRS30 12" RADIUS TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	3
⊙ ⊙ ⊙ ⊙ ⊙	HUNTER PROS-06-PRS30 15" RADIUS TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	16
⊙ ⊙ ⊙ ⊙ ⊙	HUNTER PROS-06-PRS30 17" RADIUS TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	1
⊙ ⊙ ⊙ ⊙ ⊙	HUNTER PROS-06-PRS30 ADJ TURF SPRAY, 30 PSI REGULATED 6.0" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	22
▲ 50 ▲ 10 ▲ 20	HUNTER PCB FLOOD BUBBLER, 1/2" FIPT	34

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
⊙	HUNTER PGR-04 TURF ROTOR, 4.0" POP-UP. ADJUSTABLE TO FULL CIRCLE. SHORT RADIUS NOZZLE.	5
⊙	HUNTER PGR-04-SR TURF ROTOR, 4.0" POP-UP. ADJUSTABLE TO FULL CIRCLE. SHORT RADIUS NOZZLE.	1
⊙	HUNTER PCZ-101-25 STRIP CONTROL VALVE KIT, 1" PGV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 25PSI. FLOW RANGE: 0.5 GPM TO 15 GPM. 150 MESH STAINLESS STEEL SCREEN.	2
⊙	AREA TO RECEIVE DRIFLINE HUNTER FLD-10-18 IN-LINE PRESSURE COMPENSATING LANDSCAPE DRIFLINE WITH BUILT-IN CHECK VALVE. 10 GPH EMITTERS AT 18" O.C. DRIFLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. USE PLD-LOC FITTING OR BARBED FITTINGS.	2,740 S.F.
⊙	HUNTER PGV-101G 1" PLASTIC ELECTRIC REMOTE CONTROL VALVE. FOR RESIDENTIAL/LIGHT COMMERCIAL USE. FEMALE NPT INLET/OUTLET. GLOBE CONFIGURATION, WITH FLOW CONTROL.	8
⊙	HUNTER IC-1200-PL MODULAR CONTROLLER, 12 STATIONS, OUTDOOR MODEL, PLASTIC CABINET. COMMERCIAL USE. WITH ONE ICM-600 MODULE INCLUDED.	1
⊙	HUNTER WSS-SEN WIRELESS SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE. CONNECTS TO HUNTER X-CORE AND ACC CONTROLLERS. INSTALL AS NOTED. INCLUDES GUTTER MOUNT BRACKET. MODULE NOT INCLUDED.	1
⊙	WELL AND PUMP SYSTEM VERIFY LOCATION WITH OWNER, 17 GPM AT 55 PSI REQUIRED	1
---	IRRIGATION LATERAL LINE: PVC CLASS 160 SDR 26	2,582 L.F.
---	IRRIGATION MAINLINE: PVC SCHEDULE 40	308.1 L.F.
---	PIPE SLEEVE: PVC SCHEDULE 40 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.	333.3 L.F.



BASE SCHEDULE TO APPLY 3/4" OF WATER PER ZONE / DAY

NUMBER	SIZE	TYPE	GPM	PRECIP	MIN./DAY	MAX.
1	1"	Turf Spray	16.7	0.85	52	
2	1"	Turf Spray	13.7	0.85	52	
3	1"	Dripline	10.4	1.00	45	EXEMPT
4	1"	Turf Spray	13.9	0.85	52	
5	1"	Turf Spray	14.6	0.85	52	
6	1"	Bubbler	16.0	N/A	20	EXEMPT
7	1"	Bubbler	15.0	N/A	20	EXEMPT
8	1"	Turf Spray	15.6	0.86	52	
9	1"	Turf Rotor	8.0	0.50	90	
10	1"	Dripline	10.0	1.00	45	EXEMPT

TUES. / FRI. ONLY DURING DAYLIGHT SAVINGS TIME
 TUES. ONLY DURING EASTERN STANDARD TIME
 (SEC. 366.504)

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REGISTERED LANDSCAPE ARCHITECT
 STATE OF FLORIDA
 12/4/2017

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IRRIGATION NOTES
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