

IRRIGATION SYSTEM LEGEND											
SYMBOL	MODEL / DESCRIPTION	TYPE	MOUNT / BODY TYPE	PERFORMANCE					NOTES		
				RADIUS	ARC	O.P.	FLOW GPM	PRECIP. IN/HR			
5-CST-B	HUNTER 5-CST-B CENTER SPRAY BUBBLER NOZZLE	PLANTER BUBBLER	PROS-04-SI W/ SJ-512 1/2"X12" SWING JOINT	5 FT. LINEAR STRIP	CENTER STRIP	40	.42	26		INSTALL (6) INSIDE RAISED PLANTER	
MSBN-10H	HUNTER MSBN-10H MULTI-STREAM BUBBLER NOZZLE	TREE BUBBLER	PROS-04-SI W/ SJ-512 1/2"X12" SWING JOINT	1.5 FT.	3-STREAM 180 DEG.	40	1.5	90		(2) PER TREE / PALM	
S 6	HUNTER MP ROTATOR MP 800	12" POP-UP ROTATOR FOR SHRUBS	PROS-12-SI W/ SJ-512 1/2"X12" SWING JOINT	6 FT.	90 DEGREE	40	.21	12.6	41-48		
S 8	HUNTER MP ROTATOR MP1000-90; 8'-15' RADIUS ADJUSTABLE ARC 90 DEG. TO 210 DEG.			8 FT.	120 DEGREE	40	.31	18.9	41-48		
S 10	HUNTER MP ROTATOR MP1000-120; 8'-15' RADIUS ADJUSTABLE ARC 120 DEG. TO 300 DEG.			10 FT.	180 DEGREE	40	.42	25.2	41-48		
S 12	HUNTER MP ROTATOR MP1000-210; 8'-15' RADIUS ADJUSTABLE ARC 210 DEG. TO 360 DEG.			12 FT.	210 DEGREE	40	.49	29.4	41-48		
S 15	HUNTER MP ROTATOR MP1000-270			15 FT.	270 DEGREE	40	.63	37.8	41-48		
L 6	HUNTER MP ROTATOR MP 800	4" POP-UP ROTATOR FOR LAWNS	PROS-04-SI W/ SJ-512 1/2"X12" SWING JOINT	6 FT.	90 DEGREE	40	.21	12.6	41-48		
L 8	HUNTER MP ROTATOR MP1000-120			8 FT.	120 DEGREE	40	.31	18.9	41-48		
L 10	HUNTER MP ROTATOR MP1000-180			10 FT.	180 DEGREE	40	.42	25.2	41-48		
L 12	HUNTER MP ROTATOR MP1000-210			12 FT.	210 DEGREE	40	.49	29.4	41-48		
L 15	HUNTER MP ROTATOR MP1000-270			15 FT.	270 DEGREE	40	.63	37.8	41-48		
CSR 5	HUNTER MPLCS515 MP RIGHT CORNER STRIP POP-UP SPRAY			5 X 15 FT.	RECT.	40	.22	13.2	41-48		
CSR 5	HUNTER MPLCS515 MP RIGHT CORNER STRIP POP-UP SPRAY			5 X 15 FT.	RECT.	40	.44	13.2	41-48		
CSL 5	HUNTER MPLCS515 MP LEFT CORNER STRIP POP-UP SPRAY			5 X 15 FT.	RECT.	40	.22	13.2	41-48		
CSL 5	HUNTER MPLCS515 MP LEFT CORNER STRIP POP-UP SPRAY			5 X 15 FT.	RECT.	40	.22	13.2	41-48		
V	1" GATE VALVE; NIBCO-SCOTT T-113 BRASS GATE VALVE INSTALLED IN METER SIZE PLASTIC VALVE BOX WITH LID; BROOKS, AMETEK OR APPROVED EQUAL;  HUNTER MODEL PGV-101JT  1" AUTOMATIC ZONE CONTROL VALVE; HUNTER PGV-101JT (FEMALE INLET/OUTLET) ELECTRIC REMOTE CONTROL VALVE	GATE VALVE  AUTO CONTROL VALVE								VALVE SHALL FUNCTION AS MAIN SHUT-OFF OR ISOLATION FOR SYSTEM EXPANSION OR SHUT-DOWN  INSTALLED IN METER SIZE VALVE BOX WITH LID; BROOKS, AMETEK OR APPROVED EQUAL; INSTALL VALVES WITH APPROVED WATER PROOF WIRE CONNECTORS AND CONTROL WIRE MINIMUM SIZE #14 AWG, TYPE 'UF' IN GREY PVC CONDUIT FROM VALVES TO CONTROLLER IN MAIN LINE IRRIGATION TRENCH; COMMON WIRE TO BE WHITE  VALVE NUMBER VALVE SIZE GALLONS PER MINUTE CTR# 2 GPM	
C	HUNTER PCC-1200 FIXED STATION OUTDOOR SPRINKLER CONTROLLER, 120 VAC INTERNAL TRANSFORMER AND PLASTIC CABINET									IRRIGATION CONTROLLER INSTALLED AT SOUTH WALL SWAWN; CONNECT TO W.P. J.B. AT SITE OF LIGHTING TRANSFORMER AS SHOWN IN DETAILS; INSTALL WITH HUNTER MINI-CLIK RAIN SENSOR AND BYPASS SWITCH IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND PLASTIC CABINET. CONFIRM FINAL LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALL. INSTALL CONTROLLER WITH FLASHING PROTECTION PER DETAILS; ALL ELECTRICAL WORK SHALL COMPLY WITH N.E.C.  NOTE: ALL LINE VOLTAGE POWER INSTALLATION WORK SHALL BE PERFORMED BY A QUALIFIED LICENSED ELECTRICIAN	
JB	JUNCTION BOX									PLASTIC METER SIZE JUNCTION BOX WITH LID; FOR WIRE JUNCTION AND MAKE-UP WIRE SPLICE AND DIRECTION CHANGE	
	TYPE 'UF' #14 LOW-VOLTAGE CONTROL WIRE WITH TYPE 'UF' #12 LOW-VOLTAGE COMMON WIRE IN GREY PVC CONDUIT TO ALL VALVES AND CONTROLLER									INSTALL MINIMUM 24" BELOW PAVEMENT FINISH SURFACES AND MINIMUM OF 18" IN LANDSCAPE AREAS; EXTEND SLEEVE 12" BEYOND PAVEMENTS	
	SLEEVE PIPE; 4" SCHEDULE 40 PVC									INSTALL MINIMUM 24" BELOW PAVEMENT FINISH SURFACES AND MINIMUM OF 18" IN LANDSCAPE AREAS; EXTEND SLEEVE 12" BEYOND PAVEMENTS; SIZE SHALL BE (2) DIAMETERS LARGER THAN LATERAL OR MAIN PIPE INSIDE TO EASILY ALLOW FOR IRRIGATION PIPING AND COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL OR AS SPECIFICALLY NOTED OTHERWISE	
	IRRIGATION MAIN LINE PRESSURE PIPE WITH SOLVENT WELD FITTINGS & JOINTS; SCHEDULE 40 PVC									INSTALL ALL CONTROL WIRE/CONDUIT IN SAME TRENCH WITH THE MAIN LINE	
	IRRIGATION LATERAL PIPE WITH SOLVENT WELD FITTINGS & JOINTS; PVC CLASS 200, SDR 21;									ONLY LATERALS WITH PIPE SIZES OF 3/2" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/2" SIZE	
M	3/2" IRRIGATION WATER METER INSTALLED ACCORDANCE WITH LOCAL CODES									SIZED TO LIMIT PRESSURE LOSS AT DESIGN FLOW TO A MAXIMUM OF 5%  FURNISH & INSTALL 1" DOUBLE CHECK VALVE BACKFLOW PREVENTOR INSIDE CONCRETE PAD IN ACCORDANCE WITH LOCAL CODES	
	1" DOUBLE CHECK VALVE BACKFLOW PREVENTOR INSTALLED WITH SCHEDULE 40 PVC RISERS; INSTALLED WITH 2,500 PSI CONCRETE AROUND RISERS 12" BELOW GRADE TO BE FINISHED TO ALL PER LOCAL CODES										

NOTE:  
QUANTITIES EITHER GIVEN OR NOT GIVEN SHALL BE VERIFIED AND DETERMINED BY THE CONTRACTOR PRIOR TO BID

**IRRIGATION NOTES:**

- Irrigation system design requirements: 28 GPM @ a minimum of 60 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, strung foam "protect" valve boxes as follows:  
Remote Control Valves #VB-STD, 1/2" std. rect.  
Isolation Gate Valves #VB-10RND, 1/2" round box  
Wire Splices #VB-10RND, 10" round box  
Drip Zone Valve / Filter Assy #VB-SPR, Super Combo Rect. box
- Refer to Valve Description Symbols for controller, station number and designed flow rate for each remote control valve.
- All control cable shall 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.
- Wire splices to the 120 volt control wiring shall be made with Rain Bird #DBTWC 24-600 volt, direct bury splice kit.
- 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 all sprinklers on flexible connections as follows:  
1/2" inlet spray heads 18" of Heavy Wall PVC IPS Hose  
3/4" inlet rotor heads 18" of Heavy Wall PVC IPS Hose
- The tops of all shrub sprinklers shall be installed 12" above the height of the surrounding plant material. For plant heights of 12" or more, support the riser with a #5 rebar stake and nylon cable ties. All risers shall be placed a minimum of 12" from any sidewalk, edge of pavement or structure.
- Location of all sprinkler heads shall be site adjusted to minimize water overthrow onto building surfaces and walkways. Throttle valves on spray zones as required to prevent fogging.
- Install drip tubing at grade and cover 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 stakes. 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 weather based sensor with interface shall be connected to the irrigation controller. The sensor/ interface shall adjust the irrigation program based on daily weather readings. The sensor 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.
- 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.



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CITY OF TAMPA  
FIRE STATION #23  
LANDSCAPE PLANS

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REVISIONS  
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90% CONSTRUCTION  
DOCUMENTS

SEAL

SHEET NUMBER  
L- 403 IRRIGATION  
NOTES AND SCHEDULE

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