





FLOW (G.P.M.)	VELOCITY (F.P.S.)	
0 - 7	0 - 4.21	
+7 - 11	2.60 - 4.08	
+11 - 20	2.36 - 4.28	
+20 - 28	3.15 - 4.40	
+28 - 50	2.68 – 4.77	
+50 - 70	3.35 – 4.68	
	0 - 7 +7 - 11 +11 - 20 +20 - 28 +28 - 50	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

# **IRRIGATION LEGEND**

С	CONTROLLER - WALL MOUNTED			
INTERNATION DESIGNATION	MAINLINE PIPE – 2 ½" SIZE			
	LATERAL LINE – SIZE AS NOTED			
	SLEEVING – 2X DIAMETER OF PIPE			
÷Ð	IRRIGATION STRUCTURAL SLAB PENETRATION			
	REMOTE CONTROL VALVE			
MÐ	MASTER VALVE AND FLOW SENSOR			
	GATE VALVE, LINE SIZE			
¢	QUICK COUPLER VALVE, <sup>3</sup> / <sub>4</sub> "			
IRRIGATION ZONE DESIGNATION 2 1" REMOTE CONTROL VALVE SIZE. 5 GPM ESTIMATED TOTAL ZONE GPM 15 PSI ZONE DESIGN PSI				

## **IRRIGATION NOTES**

- THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S REPRESENTATIVE.
- 2. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING, STONES, SITE LIGHTING, UTILITIES AND ARCHITECTURAL FEATURES. ADJUST VALVES, PIPING AND HEAD LOCATIONS, ETC. TO PROVIDE BEST POSSIBLE COVERAGE.
- MINIMIZE DAMAGE TO EXISTING VEGETATION WHEN ROUTING AND EXCAVATING PIPE TRENCHES. REFER TO TREE AND PLANT PROTECTION SECTION OF THE CIVIL WRITTEN SPECIFICATION FOR COMPLETE REQUIREMENTS.
- 4. TRENCH LAYOUT REVIEW SHALL OCCUR PRIOR TO INSTALLATION OF IRRIGATION SYSTEM AS PER WRITTEN SPECIFICATIONS UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
- 5. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SLEEVES AND CHASES UNDER PAVING, THROUGH WALLS AND BUILDING FLOORS, AND FOR ALL CONTROL WIRE.
- 6. PROVIDE ONE SPARE WIRE FROM THE IRRIGATION BOX TO THE FARTHEST VALVE ON THE SITE AND AT THE ENDS OF THE QUICK COUPLER LINE RUNS. PROVIDE ADDITIONAL 30" LENGTH OF COILED WIRE AT EACH CONTROL VALVE.
- 7. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- 8. ANY DAMAGED CONCRETE OR OTHER SURFACE NOT DESIGNATED FOR DEMOLITION SHALL BE REPLACED TO MATCH EXISTING AS PART OF THE CONTRACT COST, AT NO ADDITIONAL COST TO OWNER.
- THE CONTRACTOR SHALL ADJUST PRESSURE REDUCING VALVE AND REMOTE CONTROL VALVE AT EACH ZONE FOR OPTIMUM PERFORMANCE AND TO COMPENSATE FOR PRESSURE AND FRICTION LOSS. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND SELECTING THE APPROPRIATE NOZZLE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM, AND HEAD COVERAGE.
- 10. PROVIDE A CONTROLLER CHART FOR NEW IRRIGATION SYSTEM. THE CHART SHALL BE A REDUCED 11" x 17" DRAWING OF THE APPROVED AS-BUILT. IT SHALL ALSO INDICATE WITH A DIFFERENT COLOR THE AREA COVERAGE FOR EACH NEW STATION. WHEN COMPLETED AND APPROVED, THE CHART SHALL BE HERMETICALLY SEALED BETWEEN TWO PIECES OF 4-MIL. PLASTIC AND MOUNTED INSIDE THE CONTROLLER DOOR.
- 11. PIPE SIZING SHALL BE BASED ON HEAD TYPE AND LAYOUT AS SHOWN ON PLANS, REFER TO PIPE SIZING CHART, THIS SHEET. CONTRACTOR SHALL VERIFY ALL PIPE SIZES PER PIPE SIZING CHART AND MAKE ALL NECESSARY ADJUSTMENTS TO PROPOSED SYSTEM AS FIELD CONDITIONS AND SYSTEM CHANGES OCCUR.
- 12. SHEET L4.10 FOR IRRIGATION DETAILS.

	5' 10'	20'			
			Date Scale Drawn By Job No.	09-26-2008 as shown BR, CP 4034	IRRIGATIC NORTH

ON PLAN



L4