1 General
1.1 Landscape irrigation must be included in all landscape projects. Drip irrigation should not be utilized because it regularly becomes exposed in mulch beds and causes extra maintenance work. It is important to place plants with different water needs on separate zones.

1.2 Equipment
1.2.1 Irrigation controllers should be Rain Bird ESPLXMEF with IQ Network Communication cartridge GPRS cell cards and Rain Bird flow sensors (size depending on the flow of each zone). Irrigation controllers should be placed near building corners to maximize visibility for programming.
1.2.2 The master valve should be a Rain Bird PEB sized the same as the main line.
1.2.3 The distance between the master valve and the flow sensor shall be 10x the size of the pipe in inches.
1.2.4 The distance between the first turn and the flow sensor shall be 5x the size of the pipe in inches.
1.2.5 All valves should be Rain Bird PEB series.

2 Piping
2.1 All pipes, including laterals, should be Schedule 40.
2.2 Avoid pipe sizes of 2½” and 1¼”.
2.3 Pipe sizes of 2”, 1½” and 1” should be used.

3 Wiring
3.1 Multi strand wire shall be used, not single strand.
3.2 3M DBY’s should be used for all wire splices, and a valve box should be used if a wire junction splice is needed.

4 Spray Nozzles
4.1 Avoid spray nozzles and use the more water efficient MPRs.
4.2 All turf spray heads, if used, should be Rain Bird 4”-6” pops with PRS 45’s for MPRs and PRS.
4.3 All rotors should be Rain Bird PRS Plus.