

QUANTITIES ARE SHOWN FOR CONVENIENCE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE ALL MATERIALS NECESSARY FOR A COMPLETE IRRIGATION SYSTEM.

IRRIGATION LEGEND

- 1 2" BRONZE GATE VALVE (POINT-OF-CONNECTION)
- 2 RAINBIRD 100PEB 1" ZONE VALVE W/FLO CONTROL
- 15 RAINBIRD 150PEB 1-1/2" ZONE VALVE W/FLO CONTROL
- 1 RAINBIRD ESP-16MC (16) STATION CONTROLLER
- 1 HUNTER MINICLIK - AUTO. RAIN SHUTOFF SENSOR
- 1 HUNTER FREEZECLIK - AUTO. FREEZE SHUTOFF SENSOR
- 6 RAINBIRD 3RC QUICK COUPLE VALVE (PROVIDE 2 KEYS)
- 7 RAINBIRD 1806-PRS POP-UP TURF SPRAY w/ 8Q NOZZLE
- 27 RAINBIRD 1806-PRS POP-UP TURF SPRAY w/ 8T NOZZLE
- 100 RAINBIRD 1806-PRS POP-UP TURF SPRAY w/ 8H NOZZLE
- 2 RAINBIRD 1806-PRS POP-UP TURF SPRAY w/ 10Q NOZZLE
- 1 RAINBIRD 1806-PRS POP-UP TURF SPRAY w/ 10T NOZZLE
- 4 RAINBIRD 1806-PRS POP-UP TURF SPRAY w/ 10H NOZZLE
- 1 RAINBIRD 1806-PRS POP-UP TURF SPRAY w/ 10F NOZZLE
- 52 RAINBIRD 1806-PRS POP-UP TURF SPRAY w/ 12VAN NOZZLE
- 42 RAINBIRD 1806-PRS POP-UP TURF SPRAY w/ 15VAN NOZZLE
- 86 RAINBIRD 1806-PRS POP-UP TURF SPRAY w/ 18VAN NOZZLE
- 2 RAINBIRD 1806-PRS POP-UP TURF SPRAY w/ 15SST NOZZLE
- 8 RAINBIRD 1812-PRS POP-UP SHRUB SPRAY w/ 8Q NOZZLE
- 24 RAINBIRD 1812-PRS POP-UP SHRUB SPRAY w/ 8T NOZZLE
- 32 RAINBIRD 1812-PRS POP-UP SHRUB SPRAY w/ 8H NOZZLE
- 7 RAINBIRD 1812-PRS POP-UP SHRUB SPRAY w/ 10H NOZZLE
- 69 RAINBIRD 1812-PRS POP-UP SHRUB SPRAY w/ 10F NOZZLE
- 23 RAINBIRD 1812-PRS POP-UP SHRUB SPRAY w/ 12VAN NOZZLE
- 67 RAINBIRD 1812-PRS POP-UP SHRUB SPRAY w/ 15VAN NOZZLE
- 36 RAINBIRD 1812 w/ 15SST NOZZLE & PCS040 SCREEN
- 46 RAINBIRD 1806 POP-UP TURF SPRAY w/ 1401 BUBBLER
- 8 RAINBIRD 5004 POP-UP TURF ROTOR w/ 2.0LA NOZZLE
- 2 RAINBIRD 5004 POP-UP TURF ROTOR w/ 3.0LA NOZZLE
- 9 RAINBIRD 5004 POP-UP TURF ROTOR w/ 1.5 NOZZLE
- 9 RAINBIRD 5004 POP-UP TURF ROTOR w/ 3.0 NOZZLE

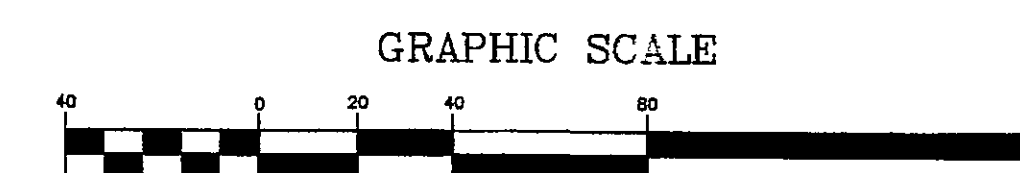
GENERAL NOTES

- 1. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S CURRENT SPECIFICATIONS AND RECOMMENDATIONS.
- 2. THE IRRIGATION SYSTEM REQUIRES A MINIMUM DYNAMIC WATER PRESSURE OF 80psi @52gpm ADJACENT TO THE WATER METER LOCATION. CONTRACTOR SHALL CAREFULLY VERIFY PRESSURE AND FLOWS PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY THE ARCHITECT AND GENERAL CONTRACTOR IF PRESSURE IS LESS THAN OR SIGNIFICANTLY HIGHER THAN NOTED.
- 3. SEE SITE UTILITY PLANS FOR INFORMATION REGARDING WATER METER AND BACKFLOW PREVENTER FOR IRRIGATION.
- 4. COORDINATE EXACT LOCATION OF CONTROLLER AND SENSORS WITH THE ARCHITECT AND GENERAL CONTRACTOR.
- 5. ELECTRICAL CONTRACTOR SHALL PROVIDE 115VAC, 1PHASE POWER FOR THE CONTROLLER AND A 2" CONDUIT FROM THE CONTROLLER TO THE LANDSCAPE AREA FOR VALVE WIRES.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES CAUSED TO ALL UTILITIES (BOTH OVERHEAD AND BELOWGROUND) DURING THE IRRIGATION INSTALLATION. CONTRACTOR SHALL SEEK THE ASSISTANCE AT LOCAL UTILITIES AND THE OWNER IN THE LOCATION OF THE UTILITIES PRIOR TO PERFORMING TRENCHING OPERATIONS IN THE WORKING AREA.
- 7. THE IRRIGATION DESIGN IS DIAGRAMMATIC. THE INTENT OF THE DRAWINGS IS TO SHOW THE GENERAL LAYOUT AND LOGIC OF THE SYSTEM. SCALED MEASUREMENTS MAY NOT BE ACCURATE. ACTUAL LOCATIONS AND QUANTITIES OF PIPE AND FITTINGS MAY VARY DUE TO FIELD ADJUSTMENTS FOR EXISTING CONDITIONS AND OTHER OBSTRUCTIONS TO PROVIDE THE PROPER AND INTENDED COVERAGE.
- 8. WINTERIZATION SHALL BE DONE BY "AIR BLOW OUT" METHOD.
- 9. ALL PVC MAINLINE AND LATERAL PIPING SHALL BE PVC CL200. ALL PVC FITTINGS SHALL BE SCH. 40 PVC TYPE 1 AND MUST BE OF DOMESTIC MANUFACTURE. PVC SOLVENT CEMENT AND PRIMER SHALL BE AS RECOMMENDED / APPROVED BY THE MANUFACTURER OF THE PIPE.
- 10. CONTRACTOR SHALL INSTALL A TRACER WIRE ABOVE ALL MAINLINE PIPING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 11. INSTALL SPRINKLERS WITH CHECK VALVE FEATURE, AS REQUIRED, TO PREVENT LOW HEAD DRAINAGE.
- 12. PROGRAM CONTROLLER TO UTILIZE "CYCLE+SOAK" FEATURE FOR ZONES WHERE SLOPES MAY CAUSE RUN-OFF OR PUDDLING.

SLEEVING NOTES

- 1. ALL SLEEVING SHALL BE INSTALLED BY THE IRRIGATION CONTRACTOR.
- 2. ALL SLEEVING PROVIDED FOR THE IRRIGATION SYSTEM TO BE SCH40 PVC.
- 3. ALL SLEEVING TO BE BURIED A MIN. OF 18" AND A MAX. OF 24" BELOW THE FINISHED GRADE. ENDS OF SLEEVES SHALL EXTEND 12" PAST THE EDGES OF ALL PAVING AND CURBS AND BE CLEARLY MARKED FOR FUTURE USE BY THE SPRINKLER SYSTEM CONTRACTOR.

IRRIGATION PLAN



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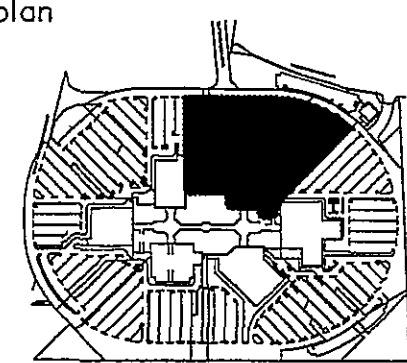
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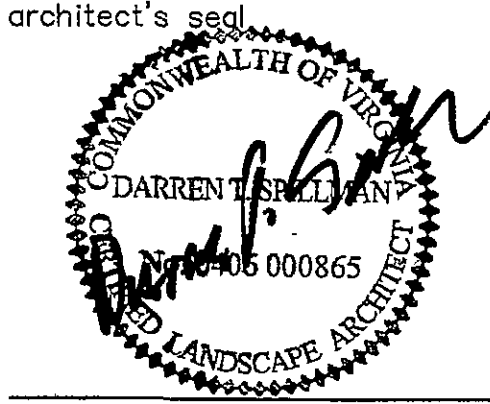


CBL & ASSOCIATES PROPERTIES, INC.

key plan



architect's seal



project name

**THE DISTRICT AT
VALLEY VIEW
MALL**

ROANOKE, VIRGINIA

sheet title

IRRIGATION PLAN

drawn

checked

project no.
0536

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02/06/06

IR-1

sheet no.