



IRRIGATION LEGEND

- RAINBIRD #1401 .25 GPM FULL CIRCLE TRICKLE PATTERN BUBBLER (SEE COA STANDARD DETAIL DRAWINGS: 2710, 2711, 2711-A & 2712)
- RAINBIRD #1402 .50 GPM FULL CIRCLE UMBRELLA PATTERN BUBBLER (SEE COA STANDARD DETAIL DRAWINGS: 2710, 2711, 2711-A & 2712)
- LATERAL PIPING - SCH.40 PVC SOLVENT WELD (SIZE INDICATED ON PLAN - UNSIZED PIPE IS 3/4")
- SLEEVE PIPING - CLASS 200 PVC (TWO SIZES LARGER THAN PIPE TO BE SLEEVED)
- VALVE ID NUMBER
- FLOW IN GALLONS PER MINUTE

IRRIGATION NOTES

WATER PRESSURE AND EXISTING CONDITIONS:
THE WATER PRESSURE AT THIS SITE HAS BEEN MEASURED AND REPORTED BY THE CONTRACTOR TO BE 68.0psi STATIC. THE EXISTING MAINLINE PIPE SIZE IS UNKNOWN BUT IS ASSUMED TO BE 1 1/2" BECAUSE OF THE 1 1/2" EXISTING BACKFLOW PREVENTER. IT IS EXPECTED THAT THE EXISTING PIPING IS DESIGNED TO ACCOMMODATE A MAXIMUM FLOW OF 30gpm. THE ACTUAL PRESSURE LOSSES OF THE EXISTING SYSTEM ARE UNKNOWN AND MAY NOT BE CORRECTLY REPRESENTED IN THE FRICTION LOSS CALCULATIONS.

SPECIAL CIRCUMSTANCES:
THIS IRRIGATION SYSTEM USES A MODIFIED BUBBLER SIZING THAN WHAT IS SPECIFIED IN THE CONTRACTUAL BID DOCUMENTS. THE EXPECTED FLOW OF THE NEW IRRIGATION SYSTEM USING THE SPECIFIED BUBBLER SIZING IS MORE THAN THE EXISTING TWO ELECTRIC VALVES CAN ACCOMMODATE. THE NEW SYSTEM IS DESIGNED TO UTILIZE (1) .25gpm BUBBLER PER SHRUB AND (3) .50gpm BUBBLERS PER TREE. THE ORIGINAL CONTRACT DOCUMENTS SPECIFY (1) .50gpm BUBBLER PER SHRUB AND (3) 1.00gpm BUBBLERS PER TREE.

SPECIFICATIONS AND DETAIL DRAWINGS:
THE CONTRACTOR SHALL REFER TO THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS AND DETAIL DRAWINGS FOR IRRIGATION CONSTRUCTION. IN THE EVENT OF A CONFLICT BETWEEN SPECIFICATIONS AND IRRIGATION DESIGN, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING. THE CONTRACTOR SHALL NOT PROCEED WITH INSTALLATION OF CONFLICTING IRRIGATION COMPONENTS UNTIL HE RECEIVES CLARIFICATION IN WRITING FROM THE PROJECT MANAGER.

SCHEMATIC PIPE ROUTING:
THE PIPE ROUTING SHOWN ON THESE PLANS IS SCHEMATIC AND MAY REQUIRE FIELD ADJUSTMENTS BY THE CONTRACTOR. WHEN POSSIBLE, THE CONTRACTOR SHALL INSTALL PIPING OUTSIDE OF ROOTZONE OF SHRUBS AND TREES. WHEN POSSIBLE, THE CONTRACTOR SHALL INSTALL PIPING CLOSE TO CENTER OF MEDIAN SO AS TO ALLOW FOR POSSIBLE FUTURE ROAD WIDENING.

IRRIGATION SATELLITE LITE:
THE CONTRACTOR SHALL COORDINATE WITH THE CITY PARKS DEPT. TO PROGRAM THE CONTROLLER STATIONS FOR THE PROPOSED AUTOMATIC VALVES.

ROAD CROSSINGS:
THE CONTRACTOR SHALL BORE ALL SLEEVE PIPE WHEN CROSSING PAVED SURFACES.

FRICTION LOSS CALCULATIONS

IRRIGATION COMPONENT @ 23 GPM TO WORST CASE	
SERVICE LINE FEEDING METER: UNKNOWN (ASSUMED 3.0psi)	3.00 psi
WATER METER: UNKNOWN (ASSUMED 5.0psi)	5.00 psi
BACKFLOW DEVICE: 1 1/2" PVB (ASSUMED 5.0psi)	5.00 psi
FLOW METER: UNKNOWN (ASSUMED 5.0psi)	5.00 psi
MASTER VALVE: UNKNOWN (ASSUMED 3.5psi)	3.50 psi
MAINLINE PIPE: UNKNOWN (ASSUMED 4.0psi)	4.00 psi
ZONE VALVE: 2" AUTOMATIC (ASSUMED 3.5psi)	3.50 psi
LATERAL PIPE: ESTIMATED 4.0psi	4.00 psi
ELEVATION LOSS/GAIN: UPHILL RISE APPROX 3'	1.29 psi
	PRESSURE LOSSES:
	34.29 psi
	EXPECTED WATER PRESSURE:
68.00 psi	
EXPECTED BUBBLER OPERATING PRESSURE:	
33.71 PSI	

SCALE 1" = 10'

0' 10' 15' 25' 30'

GRAPHIC SCALE

Irrigation Services LLC

IRRIGATION DESIGNING & CONSULTANTS

44 GROUND DRIVE • BILEEN, NM 87002

PHONE: (505) 861-1536

FAX: (505) 864-3212

EMAIL: irrservices@aol.com

REDRAWN FOR RECORD PURPOSES

RECORD DRAWINGS

THIS RECORD DRAWING HAS BEEN PREPARED, BASED UPON INFORMATION FURNISHED BY THE CONTRACTOR. THE DESIGN PROFESSIONAL HAS NOT INDEPENDENTLY REVIEWED THE ACCURACY OF THE INFORMATION PROVIDED. THESE RECORD DRAWINGS ACCURATELY DEPICT THE FIELD CHANGES WHICH WERE REPORTED BY THE CONTRACTOR.

CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM DEPARTMENT OF MUNICIPAL DEVELOPEMENT			
TITLE: PROTOTYPE MEDIAN & INTERSTATE LANDSCAPES FY09-A GONZALES ROAD: WORK ORDER #6			
IRRIGATION SYSTEM AS-BUILT			
Design Review Committee		City Engineer Approval	
City Project No. 745705		Zone Map No. K-11	
Sheet 1		Of 1	
02/08/10			
MO./DAY/YR.			
Last Design Update			

SURVEY INFORMATION		BENCHMARK		AS BUILT INFORMATION	
FIELD NOTES				CONTRACTOR: MOUNTAIN WEST GOLFSCAPES	
				WORK STAKED BY: FR	
				DATE: JAN. 2010	
				INSPECTOR'S APPROVAL: JC	
				DATE: JAN. 2010	
				FIELD VERIFICATION BY: FR	
				DATE: FEB. 2010	
				DRAWING CORRECTED BY: IS	
				DATE: FEB. 2010	
				MICRO-FILM INFORMATION	
				RECORDED BY	
				DATE:	
				NO.	