

IRRIGATION NOTES

WATER PRESSURE:
THE WATER PRESSURE AT THIS SITE HAS BEEN REPORTED AND NOTED ON DRAWING BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL VERIFY WATER PRESSURE AT THE NEAREST AVAILABLE FIRE HYDRANT PRIOR TO BEGINNING INSTALLATION OF IRRIGATION SYSTEM.

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.

PROXIMITY OF PIPING TO SHRUBS AND TREES:
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.

IRRIGATION SATELLITE:
FOR SCORPIO SATELLITES, THE CONTRACTOR SHALL HAVE A RADIO SIGNAL STRENGTH SURVEY PERFORMED TO VERIFY PROPER RADIO COMMUNICATION FROM IRRINET CONTROLLER LOCATION TO PROPOSED SCORPIO CONTROLLER LOCATION. PRIOR TO THE INSTALLATION OF THE SCORPIO CONTROLLER, THE CONTRACTOR SHALL CONTACT: MESA TURF PRODUCTS, LLC, (TIM CAVALLIERI) (606) 280-9530 FOR THIS SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE RADIO SIGNAL STRENGTH SURVEY.

BUBBLER CHECK VALVES:
IT IS EXPECTED THAT THERE MAY BE LOW-HEAD DRAINAGE AT SOME OF THE BUBBLERS AT THE LOWER ELEVATIONS. IF PROBLEMATIC CONDITIONS APPEAR, THE CONTRACTOR SHALL INSTALL A RAINBIRD #ACV-050 CHECK VALVE ON ALL EFFECTED BUBBLERS. FOR BID OR PRICING PURPOSES THE CONTRACTOR SHALL ASSUME THE INSTALLATION OF CHECK VALVES ON ALL BUBBLERS AND INCLUDE THESE COSTS IN HIS BID.

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

PROXIMITY OF PIPING AND WIRING TO LANDSCAPE PODS:
THE CONTRACTOR SHALL INSTALL ALL PIPING (LATERAL AND MAINLINE) AND WIRING AS CLOSE TO THE LANDSCAPE POD AS POSSIBLE IN ORDER TO PROVIDE ROOM FOR FUTURE ROADWAY EXPANSION.

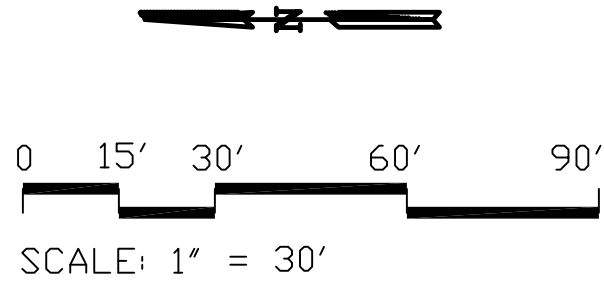
MAINLINE EXPANSION JOINTS:
BECAUSE OF THE EXCEPTIONAL DISTANCE OF SOLVENT-WELD MAINLINE PIPE, IT IS RECOMMENDED THAT THE CONTRACTOR INSTALL FLOW-SPAN EXPANSION COUPLINGS IN 200' INTERVALS TO ACCOMMODATE EXPANSION AND CONTRACTION OF PIPE.

IRRIGATION LEGEND

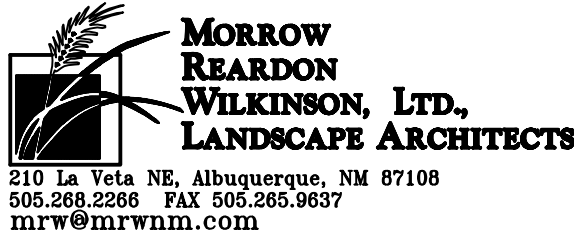
- RAINBIRD #1401 25 GPM FULL CIRCLE TRICKLE PATTERN BUBBLER (SEE COA STANDARD DETAIL DRAWINGS: 2710, 2711, 2711-A & 2712)
- ZONE VALVE: RAINBIRD #100-PEB 1" PLASTIC ELECTRIC VALVE WITH FLOW CONTROL (SEE COA STANDARD DETAIL DRAWING: 2703)
- ZONE VALVE: RAINBIRD #150-PEB 1 1/2" PLASTIC ELECTRIC VALVE WITH FLOW CONTROL (SEE COA STANDARD DETAIL DRAWING: 2703)
- MOTOROLA IRRINET CONTROLLER WITH INTERSPEC ENCLOSURE, KEYPAD AND DOMED ANTENNA. UNIT SHALL COMMUNICATE ON COA RADIO FREQUENCY (WIDE BAND). (SEE DETAIL DRAWING: B/4 & D/4) (16 STATION OUTPUT)
- ISOLATION VALVE ASSEMBLY - 2" (SEE COA STANDARD DETAIL #2707)
- FEBCO #825YA 2" REDUCED PRESSURE BACKFLOW PREVENTER WITH 2" MASTER VALVE ASSEMBLY INSTALLED IN "CLAY" COLORED HOTBOX "HOT ROK" HEATED AND INSULATED BACKFLOW DEVICE ENCLOSURE. (SEE DETAIL DRAWING: C/4)
- MASTER METER INTERMEDIATE MULTIJET SERIES 2" FLOW METER WITH ELECTRICAL OUTPUT REGISTER - 1 PULSE = 1 GALLON (SEE DETAIL DRAWING: C/4)
- CITY WATER METER - 2" SENSUS SR SERIES (SEE COA STANDARD DETAIL DRAWING: 2362 OR 2363) WATER METER ADDRESS IS 7402-1/2 GOLF COURSE RD
- CRISPEN #UL10.1 1" UNIVERSAL AIR RELEASE VALVE ASSEMBLY
- SCH. 40 SOLVENT WELD END CAP SAME SIZE AS MAINLINE
- MAINLINE PIPING - 2" SCH.40 PVC SOLVENT WELD
- 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)
- WIRE SLEEVE - 2" CLASS 200
- 120 VOLT ELECTRICAL POWER WIRE ROUTE
- VALVE ID NUMBER
- FLOW IN GALLONS PER MINUTE
- ELECTRICAL PULL BOX

FRICTION LOSS CALCULATIONS

IRRIGATION COMPONENT @ 37.0 GPM TO WORST CASE	
SERVICE LINE FEEDING METER: 12" OF 2" TYPE-K COPPER (1.32 psi/100')	0.15 PSI
WATER METER: 2" CITY WATER METER (SENSUS SR SERIES)	1.00 PSI
ISOLATION VALVE: 2"	1.00 PSI
BACKFLOW DEVICE: FEBCO 2 RP	12.00 PSI
FLOW METER: 2" MASTER METER INTERMEDIATE MULTIJET	1.00 PSI
MASTER VALVE: RAINBIRD 2" PEB SERIES (0 psi @ 40 gpm)	0.0 PSI
MAINLINE PIPE: 528' OF 2" SCH.40 PVC (0.38 psi/100' @ 22 gpm) (SEE DETAIL DRAWING: C/4)	1.95 PSI
ZONE VALVE: RAINBIRD 1" PEB SERIES (3.44 psi @ 21.25 gpm)	3.44 PSI
LATERAL PIPE FRICTION LOSS: (ESTIMATE 4.0 psi)	4.00 PSI
ELEVATION: 8' (DOWNHILL SLOPE TO HIGHEST FLOW VALVE)	+ 3.46 PSI
PRESSURE LOSSES:	24.00 PSI
EXPECTED WATER PRESSURE AT TAP	70.00 PSI
EXPECTED RUBBER OPERATING PRESSURE:	46.00 PSI



AS-BUILTS
2-24-09



CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM DEPARTMENT OF MUNICIPAL DEVELOPMENT			
PROTOTYPE MEDIAN AND INTERSTATE LANDSCAPES FY08-A GOLF COURSE PHASE 3: BUTTERFIELD TRAIL TO HOMESTEAD TRAIL WORK ORDER #7			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 79040X		Zone Map No.	
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