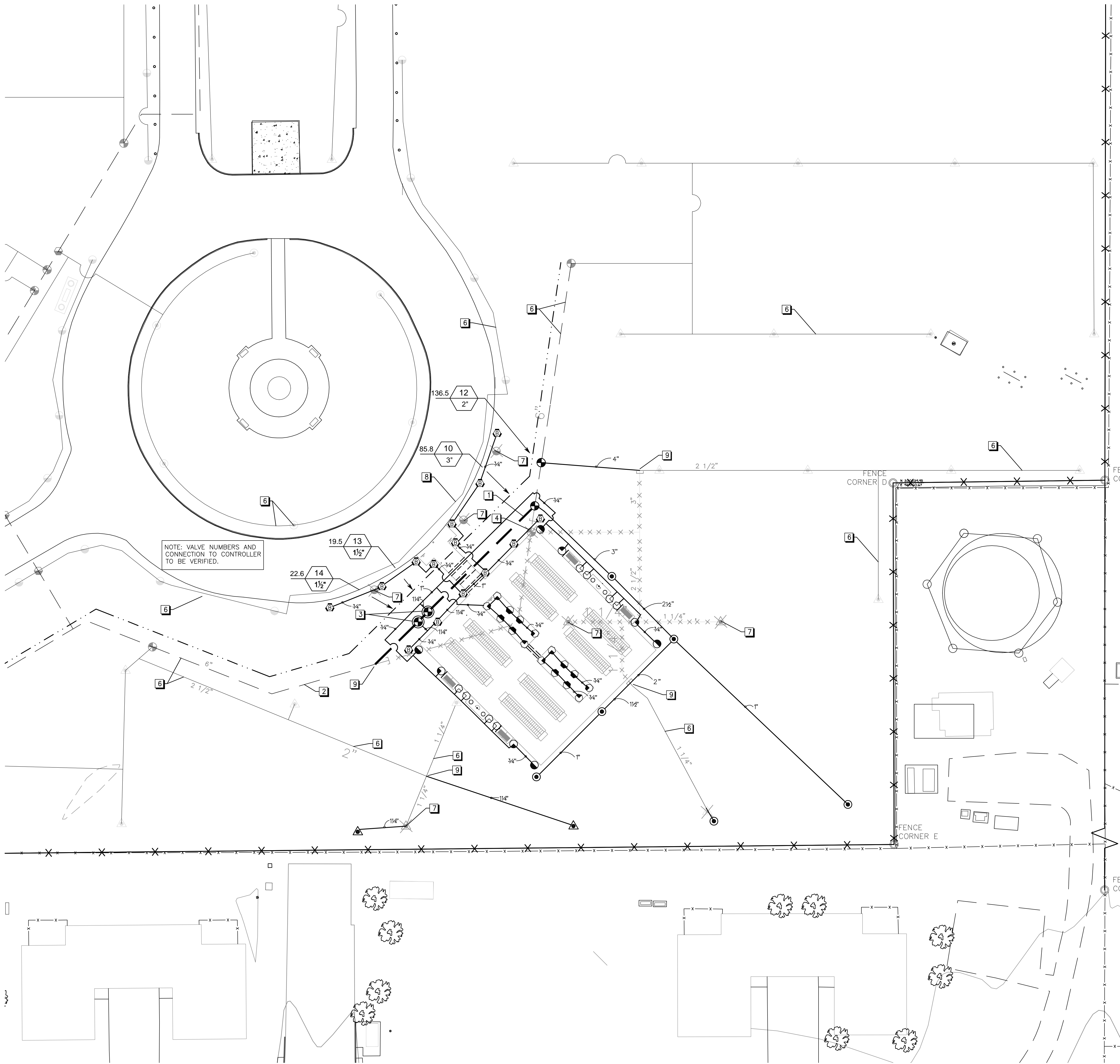


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IRRIGATION LEGEND

SYMBOL

EXISTING TO BE INSTALLED TO BE REMOVED OR MOVED

DESCRIPTION	PRESSURE	FLOW	RADIUS	POP-UP HEIGHT	PIPE COVER
RAIN BIRD 8005 FULL/PART ROTOR #22 - EXISTING	80.00	27.30	75.0	6"	18"
RAIN BIRD 7005 FULL/PART ROTOR #14 NOZZLE	60.00	14.30	61.0'	6"	18"
RAIN BIRD 5004PC OR PC #6 R + OR AS NEEDED	50.00	7.71	49.0'	6"	18"
RAIN BIRD 1806-SAM-PRS 8 SERIES MPR - ALL TO BE INSTALLED TURF SPRAY 6" POPUP WITH CHECK VALVE AND PRESSURE REGULATOR.	30.00	26.35;52.1.05	8.0'	6"	12"
RAIN BIRD 1806-PRS 10 SERIES MPR TURF SPRAY 6" POPUP WITH PRESSURE REGULATOR.	30.00	.39;.53;.79;1.58	10.0'	6"	12"
RAIN BIRD 1806-SAM-PRS 15 SERIES MPR - ALL TO BE INSTALLED TURF SPRAY 4" POPUP WITH CHECK VALVE AND PRESSURE REGULATOR.	30.00	65.1;23.1.85; 2.48;2.78;3.70	15.0'	6"	12"
HUNTER MP3000 W/ MPR40-04-C (TO BE INSTALLED) TURF SPRAY 4" POPUP WITH CHECK VALVE, MP ROTATOR NOZZLE. BLUE ADJ ARC 90-210 ON MPR40 4" POPUP BODY.	40.00	3.64 (FULL)	30.0'	4"	18"
RAIN BIRD 150 PEB 1-1/2" PLASTIC 24V VALVE					
RAIN BIRD 200/300 GB BRASS 24V ELECTRIC VALVE - SIZE PER PLAN					
EXISTING 2" BRASS GATE VALVE					
LATERAL IRRIGATION LINE - EXISTING					
LATERAL IRRIGATION LINE, PVC CLASS 200 SDR 21, SIZE PER PLAN - TO BE INSTALLED					
LATERAL IRRIGATION LINE - TO BE REMOVED OR ABANDONED					
IRRIGATION MAINLINE - EXISTING					
IRRIGATION MAINLINE, PVC SCH 40, 6" - TO BE INSTALLED					
IRRIGATION MAINLINE - TO BE REMOVED OR ABANDONED					
PVC SLEEVE, PVC SCH 40, 1.5 X DIAMETER OF PIPE TO BE SLEEVED					
IRRIGATION WIRE - BUNDLE SPARE WIRES FOR FUTURE EXPANSION. ROUTE IN TRENCH TO CONTROLLER AT ADMINISTRATION BUILDING. SEE NOTES.					

Valve Callout

Valve Number

Valve Flow

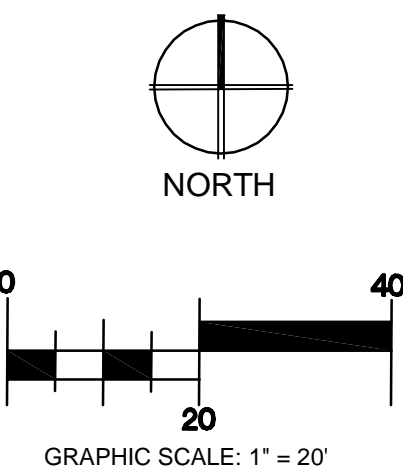
Valve Size

IRRIGATION NOTES

- ALL IRRIGATION EQUIPMENT SHALL BE NEW, EXCEPT AS NOTED, TO CONNECT TO EXISTING SYSTEM, AND INSTALLED IN SUCH A MANNER THAT THE NEW IRRIGATION SYSTEM WILL BE COMPLETE AND EFFICIENT.
- CONTRACTOR SHALL INSTALL ALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN THE CONSTRUCTION DETAILS AND SHALL REFER TO PROJECT SPECIFICATIONS.
- SLEEVE ALL PRESSURE MAINLINE, PIPE, LATERAL, PIPE AND CONTROL WIRES UNDER ALL HARDSCAPE WALKWAYS WITH SCHEDULE 40 PVC PIPE A MIN. OF TWICE THE DIAMETER OF THE PIPE AND AT THE SPECIFIED DEPTH. IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
- FLUSH AND ADJUST ALL LINES, SPRAY HEADS, ROTORS AND VALVES FOR OPTIMUM PERFORMANCE. ADJUST ALL NOZZLES TO ELIMINATE OVERSPRAY ON ADJACENT WALKS, STREETS, ETC.
- CONTACT THE RESIDENT ENGINEER TO DISCUSS AND RECEIVE APPROVAL FOR ALL FIELD ADJUSTMENTS THAT WILL IMPACT THE DESIGN AND EFFICIENCY OF THE SYSTEMS. IF THE CONTRACTOR HAS NOT RECEIVED WRITTEN AUTHORIZATION TO CONDUCT FIELD ADJUSTMENTS, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS/ADJUSTMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIM/HER SELF WITH THE SITE. THE CONTRACTOR SHALL USE EXTREME CARE WHEN EXCAVATING OR WORKING NEAR EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL CONTACT ALL APPLICABLE AGENCIES AND U.S.A. TO LOCATE ALL EXISTING UTILITIES.
- IRRIGATION CONTRACTOR SHALL COORDINATE ALL IRRIGATION SLEEVES, MAIN LINE AND COMMUNICATION CABLE INSTALLATION PRIOR TO CONCRETE FLATWORK INSTALLATION.
- IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO HIS WORK.
- TRENCHING IS TO BE OF SUFFICIENT DEPTH TO PROVIDE 30" OF COVER OVER IRRIGATION MAIN LINES AND CONTROL WIRE, 18" OF COVER OVER 12" POP-UP HEADS AND ROTOR HEAD LATERAL LINES, AND 12" OF COVER OVER ALL 6" POP-UP SPRAY HEAD LATERAL LINES. ALL LINES UNDER SIDEWALKS SHALL HAVE 36" OF COVER. CONTRACTOR SHALL CONTACT RESIDENT ENGINEER, AND VA REPRESENTATIVE, WITH ANY DISCREPANCIES.
- INSTALL SPRINKLER HEADS 2" CLEAR OF CURBS, SIDEWALKS, PAVING, HEADERS, OR UTILITY BOXES.
- FLUSH MAIN LINES PRIOR TO THE INSTALLATION OF REMOTE CONTROL VALVES, OR QUICK COUPLER VALVES. FLUSH LATERAL LINES PRIOR TO THE INSTALLATION OF IRRIGATION HEADS.
- PRESSURE TEST LATERAL LINES UNDER OPERATING PRESSURE PRIOR TO BACKFILLING.
- IRRIGATION CONTROL WIRE SHALL BE NO. 14-1 AWG UF (UL) APPROVED FOR DIRECT BURIAL. WIRE COLORS FOR THIS PHASE OF THE WORK SHALL BE AS FOLLOWS: COMMON WIRE - WHITE, PILOT WIRES - RED, ALL SPARE WIRES - YELLOW.
- THE IRRIGATION SYSTEM IS DRAWN DIAGRAMMATICALLY. ALL PIPING, VALVES, ETC. AS SHOWN WITHIN PAVED AREAS ARE FOR CLARITY ONLY. INSTALL ALL EQUIPMENT IN PLANTING AREAS. SLEEVE UNDER PAVING.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS DIAGRAMMATICALLY SHOWN WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, OR DIFFERENCES IN SITE DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN FORESEEN IN THE ENGINEERING. THE RESIDENT ENGINEER SHALL BE GIVEN WRITTEN NOTICE OF SUCH CONDITIONS EXIST. IF NO SUCH NOTIFICATION IS GIVEN, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND REPAIR WORK THAT MAY BE DEEMED NECESSARY.
- DRAINAGE OF IRRIGATION WATER THROUGH ANY SPRINKLER HEADS (LOW HEAD DRAINAGE) WILL NOT BE ALLOWED. THE CONTRACTOR SHALL INSTALL BUILT IN CHECK VALVES AS REQUIRED FOR ANY SPRINKLER HEAD SHOWING SIGNS OF DRAINAGE AFTER THE IRRIGATION SYSTEM HAS OPERATED FROM AN ON TO OFF POSITION, THIS INCLUDES SPRAY HEADS AND ROTORS HEADS. THE INSTALLATION OF HEADS WITH INTEGRAL CHECK VALVE FEATURE SHALL BE INCLUDED IN THE BID PRICE WITHOUT ADDITIONAL COST TO THE OWNER.
- INSTALL QUICK COUPLER VALVES WITHIN A 10" ROUND PLASTIC VALVE BOX WITH BOLT-DOWN LID. TOP OF QCV SHALL BE 2" BELOW RIM OF BOX.
- ALL WIRE SPLICES ARE TO BE MADE WITHIN A VALVE BOX. SPLICES ARE TO BE MADE WITH A COPPER CRIMP TYPE CONNECTOR AND INSTALLED WITHIN A 3-M" NO. DBY SEALING PACK.
- REMOTE CONTROL VALVE BOXES ARE TO BE INSTALLED 1/2" ABOVE FINISH GRADE IN SHRUB AND GROUND COVER AREAS AND FLUSH WITH GRADE IN ROADWAYS AND LAWN AREAS. ALIGN VALVE BOXES WITH ADJACENT PAVEMENT EDGES, ARCHITECTURAL FEATURES, OR ADJACENT VALVE BOXES, AS APPLICABLE FOR A NEAT APPEARANCE. VALVE BOXES ARE TO CONFORM WITH FINISH GRADES (NOT NECESSARILY LEVEL).
- OPERATE IRRIGATION CONTROLLER WITHIN THE TWELVE HOUR WATERING WINDOW WHICH SHALL BE DURING THE HOURS OF 7:00 P.M. TO 7:00 A.M.
- ALL REMOTE CONTROL VALVES SHALL HAVE A PERMANENT VALVE TAG (AS MANUFACTURED BY "T. CHRISTY" OR APPROVED EQUAL) ATTACHED TO THE VALVE INDICATING THE CONTROLLER STATION NUMBER.
- THE CONTRACTOR SHALL INSTALL EIGHT (8) SPARE WIRES PLUS COMMON STARTING FROM THE CONTROLLER AT THE ADMINISTRATION BUILDING, LOOPED TO EACH VALVE BOX AND TO BOTH ENDS OF THE MAIN LINE, WITHOUT SPLICES. THESE SPARE WIRES SHALL BE YELLOW IN COLOR.

KEYNOTES - IRRIGATION

- |                                                                 |                                                                              |
|-----------------------------------------------------------------|------------------------------------------------------------------------------|
| 1 REROUTED 6" IRRIGATION MAINLINE & CONTROL WIRE                | 9 CONNECT EXISTING LATERAL TO NEW LATERAL & CUT AND CAP PIPE TO BE ABANDONED |
| 2 EXISTING 6" MAINLINE                                          | 10 CUT AND CAP EXISTING LATERAL                                              |
| 3 INSTALL NEW VALVES                                            |                                                                              |
| 4 MOVE EXISTING VALVE NORTH                                     |                                                                              |
| 5 NOT USED                                                      |                                                                              |
| 6 EXISTING IRRIGATION SYSTEM TO REMAIN                          |                                                                              |
| 7 EXISTING ROTORS TO BE REMOVED/RELOCATED OR REPLACED AS NEEDED |                                                                              |
| 8 EXISTING LATERALS SHOWN IN PAVEMENT FOR GRAPHIC CLARITY       |                                                                              |



CONSTRUCTION DOCUMENTS

Revisions	Date		<b>Carter-Burgess</b> A Wholly Owned Subsidiary of Jacobs Consultants in Architecture, Engineering, Planning, and the Environment Sacramento Office 180 Promenade Circle, Suite 300 Sacramento, California 95834 (916) 929-3323 Fax (916) 929-1772	Subconsultant List			Drawing Title IRRIGATION PLAN, NOTES & LEGEND	Project Title BILOXI NATIONAL CEMETERY 1,700 COLUMBARIUM NICHES	Date: December 30, 2008
				BUEHLER & BUEHLER ASSOCIATES 600 Q STREET, STE. 200, SACRAMENTO, CA. 95814 (916) 443-0303 THE SIERRA WEST GROUP, LLC 2730 GATEWAY OAKS DRIVE, STE. 110 SACRAMENTO, CA. 95833 (916) 925-4000					
							Approved: Director, Project Management Service	Location BILOXI NATIONAL CEMETERY BILOXI, MISSISSIPPI	DRAWING NO. <b>I-1</b> Dwg. 15 Of 18