

SHEET TITLE: PROJECT TITLE: DATE: REVISIONS:

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DRAWN BY: DHPBN  
CHECKED BY: LW  
PROJECT NO. 0726  
DATE: 08/12/2009

REVIEW BY STAFF BY DATE

TRAFFIC		
WATER		
SEWER		
PLANNING		

APPROVED BY: RAY HOLLAND  
INTERIM DIRECTOR OF PUBLIC WORKS  
CITY OF RANCHO PALOS VERDES  
DATE: \_\_\_\_\_

STATE OF CALIFORNIA  
8/31/2011  
8/07/2009  
DATE

SHEET 4 OF 8  
L-3

**IRRIGATION LEGEND**

SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	P.S.I.	RAD.	G.P.M.	DETAIL
	RAINBIRD	1812-SAM-PRS-8 VAN	12" POPUP VARIABLE ARC SPRAY	30	8'	0.72, 1.19	C
	RAINBIRD	1812-SAM-PRS-10 VAN	12" POPUP VARIABLE ARC SPRAY	30	10'	0.75, 1.45	C

NOTE: USE RAINBIRD 1806 BODIES IN LAWN AREAS

SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	DETAIL
POC	-	-	POINT OF CONNECTION - SHALL BE LOCATED AT CLOSEST VALVE MANIFOLD	-
	RAINBIRD	EFB-CP-PRS-D	REMOTE CONTROL VALVE - SIZE AS NOTED ON PLANS INSTALL IN CITY STANDARD VALVE BOX, LOCATE AT NEAREST EXISTING VALVE MANIFOLD	A
	RAINBIRD	33DLRC	3/4" QUICK COUPLER WITH LOCKING COVER, WITH KEY 2049 INSTALL IN CITY STANDARD VALVE BOX	B
	EXISTING	-	EXISTING CONTROLLER - CONNECT NEW VALVE TO EXISTING CONTROLLER (VERIFY LOCATION AND COORDINATE WITH CITY REPRESENTATIVE AND PARK MAINTENANCE STAFF AS REQUIRED).	-
	RAINMASTER	RAIN SENSOR	IF EXISTING CONTROLLER DOES NOT HAVE A RAIN SENSOR MOUNT AND CONNECT A NEW RAIN SENSOR TO CONTROLLER CABINET OR ON POLE WITH CLEAR SKY INSTALL PER MFG. RECOMMENDATIONS CONTRACTOR SHALL COORDINATE WITH CITY REPRESENTATIVE AND PARK MAINT. STAFF.	-
	ANY APPROVED	-	PRESSURE PVC MAIN LINE - SCH. 40 FOR 1-1/2" AND UNDER, CL. 315 FOR 2" AND LARGER - SEE PLAN FOR SIZE	D
	ANY APPROVED	SCH. 40	NON-PRESSURE PVC LATERAL LINE - SEE PLAN FOR SIZE	D

**IRRIGATION NOTES**

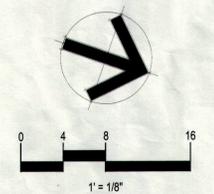
- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE.
- SET ALL VALVES NEXT TO WALKS OR PAVED SURFACES.
- PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF THE SAID REJECTION.
- BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT I.D. NUMBER BY CALLING 1-800-422-4133 TWO (2) WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED SO THAT UTILITY OWNERS CAN BE NOTIFIED.
- THE CONTRACTOR SHALL FLUSH THE SYSTEM INCLUDING VALVES FOR OPTIMUM COVERAGE WITH MINIMAL OVER SPRAY ONTO WALKS, STREETS, ETC.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE GRADE DIFFERENCES, LOCATION OF WALLS, AND UTILITIES.
- THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS UNDER ROADWAYS AND PAVING, ETC.
- THE IRRIGATION SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE (UNKNOWN) P.S.I. AND A MAXIMUM FLOW DEMAND OF (UNKNOWN FOR EXISTING SYSTEM) G.P.M. THE CONTRACTOR SHALL VERIFY WATER PRESSURES PRIOR TO CONSTRUCTION AND REPORT THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE ARCHITECT.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT THERE ARE UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES IN THE AREA. DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. IN THE EVENT THAT THIS NOTIFICATION IS NOT GIVEN, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
- ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- THE INTENT OF THE DESIGN IS TO PROVIDE SUFFICIENT WATER TO ALL PLANTING AREAS. AS PART OF THE SCOPE OF WORK, CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL HEADS, NOZZLES AND OTHER EQUIPMENT TO ACHIEVE PROPER COVERAGE WITH A MINIMUM OF RUN OFF AT NO ADDITIONAL COST TO THE OWNER.
- INSTALLATION FOR THE CONTROL WIRES SHALL FOLLOW MAINLINE ROUTING, WHENEVER POSSIBLE.
- PROVIDE SLEEVES UNDER ALL HARDSCAPE. USE 2 X DIAMETER MIN. SCH. 80 P.V.C. MIN. DEPTH 18" TO TOP OF LINE.
- LOCATE VALVE CHART IN CONTROLLER - REDUCE AND ENCASE IN PLASTIC (AS BUILT).
- GUARANTEE: THE INSTALLED IRRIGATION SYSTEM SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK. SHOULD ANY TROUBLE DEVELOP WITHIN THE TIME SPECIFIED DUE TO INFERIOR OR FAULTY MATERIAL OR WORKMANSHIP, THE TROUBLE SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT EXPENSE TO THE OWNER.
- ALL EXPOSED PVC PIPE SHALL BE UV RATED OR COATED WITH AN APPROVED UV PROTECTIVE COATING.

CONTRACTOR IS RESPONSIBLE FOR CONNECTING NEW VALVE (SHOWN AS "NEW") TO EXISTING CONTROLLERS.

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR FIELD-VERIFYING EXISTING CIRCUITING TO ENSURE PROPER WORKING CONDITION OF THE EXISTING IRRIGATION SYSTEM. ANY DISCREPANCIES OR CONCERNS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY PROJECT MANAGER AND THE LANDSCAPE ARCHITECT.

EXISTING IRRIGATION SYSTEM NOTE: NO INFORMATION WAS PROVIDED TO THE CONSULTANT REGARDING THE EXISTING IRRIGATION SYSTEM. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO VERIFY EQUIPMENT, CIRCUITING AND ALL OTHER ASPECTS OF THE EXISTING SYSTEM THAT WILL BE AFFECTED BY THE CONSTRUCTION OF THE NEW SYSTEM.

NOTICE TO CONTRACTOR: REFER TO TREE PROTECTION NOTES, SHEET L-5 REGARDING EARTHWORKS NEAR EXISTING TREES.



**NOTICE TO CONTRACTOR:**  
ALL IRRIGATION PERFORMED UNDER THIS CONTRACT, EXCEPT FOR THE ADDITION OF ONE VALVE AND NEW HEADS AS SHOWN BELOW, SHALL BE REVIEWED IN THE FIELD FOR RETROFIT (AND SHALL INCLUDE THE REPLACEMENT OF ALL FAULTY EQUIPMENT AND NOZZLES AS NEEDED).

REPLACE AND/OR ADJUST ALL IRRIGATION SERVICING THIS AREA (NEW SHRUB BORDER)

REPLACE AND/OR ADJUST ALL IRRIGATION SERVICING THIS AREA (NEW TURF GRASS)

**NEW VALVE POINT OF CONNECTION:**  
INSTALL NEW VALVE AT NEAREST EXISTING VALVE MANIFOLD - VERIFY AVAILABILITY OF 2" SUPPLY LINE.  
CONNECT NEW VALVE TO EXISTING CONTROLLER (CONTROLLER LOCATION(S) TO BE DETERMINED IN THE FIELD WITH CITY REPRESENTATIVE).

REPLACE AND/OR ADJUST ALL EXISTING IRRIGATION SERVICING THIS RENOVATED PLAY AREA. CAP, RE-ROUTE, AND ADJUST AS NECESSARY. LANDSCAPE ARCHITECT TO PROVIDE FINAL REVIEW & APPROVAL.

**IRRIGATION MAINLINE NOTE:**  
MAINLINE IS SHOWN OUTSIDE OF LANDSCAPE AREAS FOR GRAPHIC CLARITY ONLY. MAINLINE SHALL BE INSTALLED WITHIN LANDSCAPE AREAS WHEREVER POSSIBLE. WHERE MAINLINE MUST RUN UNDER HARDSCAPE, INSTALL IN SCH. 40 PVC SLEEVES (TWICE THE DIAMETER OF THE MAINLINE PIPE MIN., OR AS SHOWN).

**GENERAL VALVE/QUICK COUPLER NOTE:**  
CONTRACTOR SHALL NOT INSTALL ANY VALVES OR QUICK COUPLERS IN HARDSCAPE. CONTRACTOR SHALL INSTALL THESE ITEMS IN PLANTER AREAS ONLY.

**SLEEVING NOTE:**  
CONTRACTOR TO TERMINATE ALL MAINLINE, WIRE AND LATERAL SLEEVES 12" BEYOND HARDSCAPE INTO PLANTER AREA. NO SLEEVES TO BE TERMINATED UNDER HARDSCAPE. CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING LIMITS OF HARDSCAPE PRIOR TO INSTALLING SLEEVES.

**TRENCHING NOTE:**  
NO TRENCHING OR IRRIGATION SHALL BE PERFORMED OR PLACED BENEATH NATIVE TREES.  
CONTRACTOR SHALL PROPERLY INDICATE ANY MODIFICATIONS TO THE PLANS ON THE AS-BUILTS.

**NOTE:**  
THIS IRRIGATION SYSTEM CONNECTS TO AN EXISTING POINT OF CONNECTION, BACKFLOW & CONTROLLER. CONTRACTOR SHALL KEEP EXISTING IRRIGATION SYSTEM IN PROPER WORKING CONDITION DURING THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT (AT NO ADDITIONAL COST TO OWNER) OF ANY PLANTS OR TURF THAT DIE AS A RESULT OF NOT KEEPING THE IRRIGATION SYSTEM IN PROPER WORKING CONDITION.

**POINT-OF-CONNECTION (EXISTING)**  
METER SIZE AND ELEVATION: Unknown  
MAX FLOW: Unknown  
STATIC PRESSURE (HIGH/LOW): Unknown  
SYSTEM DESIGN PRESSURE: Unknown  
THIS IS A POTABLE SYSTEM.

DIAL BEFORE YOU DIG  
1-800-422-4133

PLAY IT SAFE DIAL BEFORE YOU DIG!

AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING

SERVING NINE SOUTHERN CALIFORNIA COUNTIES