

SPRINKLER LEGEND						
SYMBOL	MANUFACTURER/MODEL #	NOZZLE	RAD.	PSI	FLOW (GPM)	DETAIL NOTES
POP-UP SPRAY HEADS						
◆	RAINBIRD 1812-SAM-PRS-10	Q/H/F/VAN	9'-10"	30	.39 .79 1.58 .75-2.60	'F', ID-1
●	RAINBIRD 1806-SAM-PRS-8	Q/H/F/VAN	7'-8"	30	.26 .52 .44 .72-1.70	'F', ID-1
⊙	RAINBIRD 1806-SAM-PRS-10	Q/H/F/VAN	9'-10"	30	.39 .79 1.58 .75-2.60	'F', ID-1
⊙	RAINBIRD 1806-SAM-PRS-12	Q/H/F/VAN	11'-12"	30	.65 1.30 2.60 .65-2.60	'F', ID-1
⊙	RAINBIRD 1806-SAM-PRS-15	Q/H/F/VAN	13'-15"	30	.92 1.85 3.70 .92-3.70	'F', ID-1
TREE FLOOD BUBBLER						
⊗	RAINBIRD 1402 SERIES PRESSURE COMPENSATING TYPE			30	0.5 PER BUBBLER	'G', ID-1
TURF POP-UP LARGE ROTOR HEADS						
⊙	HUNTER I-40 ADS SERIES	43	57"	60	13.5	'A', ID-1
⊙	HUNTER I-40 36S SERIES	43	57"	60	13.5	'A', ID-1 SEE NOTE
⊙	HUNTER I-20-6P-ADS-2.0SR	2.0SR	18"	50	2.0	'A', ID-1
⊙	HUNTER I-20-6P-ADS-1.5SR	1.5SR	25"	50	1.5	'A', ID-1
⊙	HUNTER I-20-6P-ADS-1.0	1.0	32"	60	1.3	'A', ID-1
⊙	HUNTER I-20-6P-ADS-2.0	2.0	36"	60	2.2	'A', ID-1
⊙	HUNTER I-20-6P-ADS-4.0	4.0	42"	60	4.6	'A', ID-1
⊙	HUNTER I-20-6P-36S-6.0	6.0	44"	60	6.0	'A', ID-1
INFIELD HIGH-SPEED ROTOR HEADS						
⊙	HUNTER I-25-ADSHS-18	18	53"	60	15.9	'A', ID-1 SEE NOTE
⊙	HUNTER I-25-36SHS-18	18	53"	60	15.9	'A', ID-1 SEE NOTE

EQUIPMENT LEGEND				
SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
✕	NIBCO T-580 SERIES BALL VALVE - 2" AND SMALLER NIBCO F-619 SERIES GATE VALVE - 4" AND LARGER	LINE SIZE	'B', ID-1	
●	RAINBIRD #44LRC SERIES QUICK COUPLING VALVE	1"	'C', ID-1	
⊙	GRISWOLD 2000 SERIES REMOTE CONTROL ELECTRIC VALVE	PLAN SIZE	'D', ID-1	(5)
⊙	INSTALL TWO(2) CAL SENSE ET2000-32-ML-FL-RR-TPP-SSBP-LRDOMERR CONTROLLERS WITH RADIO COMMUNICATION CAPABILITIES. REFER TO NOTES ON SHEET ID-1.	32	'H', ID-1	(2)
MAN	INSTALL MANUAL TIMER FOR EACH FIELD FOR INFIELD IRRIGATION SYSTEM. INSTALL IN 'StrongBox' MODEL #SB-16SSW STAINLESS STEEL WALL MOUNT BOX AND MOUNT ON EXTERIOR OF BUILDING.	3 STA.		
---	CLS 315 PVC IRRIGATION PRESSURE MAINLINE	PLAN SIZE	'E', ID-1	(4)
---	CLS 200 PVC NON-PRESSURE IRRIGATION LATERAL LINE	PLAN SIZE	'E', ID-1	
---	SCH 80 PVC IRRIGATION PIPE OR WIRE SLEEVE	CHART	'E', ID-1	
---	1/2" RATED CONTROL WIRE, 12 GA COMMON, 14 GA PILOT. PROVIDE 3 SPARE WIRES TO FURTHEST VALVES.	12/14 GA	N/A	
---	EXISTING PVC IRRIGATION PRESSURE MAINLINE			PROTECT IN PLACE
---	SCH 40 PVC DOMESTIC WATER SERVICE LINE	2"	'E', ID-1	

Pressure Loss Calc

Valve B-24	120.8 GPM
Master Valve 3"	5.3 PSI
Mainline 6"	5.8 PSI
Gate Valve	2.0 PSI
Valve 2"	5.8 PSI
Lateral Line	5.5 PSI
Fittings	1.1 PSI
25' in Elevation Change	10.8 PSI
Total Loss	37.3 PSI
Head Pressure Required	60.0 PSI
Minimum Required Pressure	97.3 PSI
Pressure after Pump	110.0 PSI
Residual Pressure	12.7 PSI

Pressure Loss Calc

Valve A-11	120.8 GPM
Master Valve 3"	5.3 PSI
Mainline 6"	4.4 PSI
Gate Valve	3.0 PSI
Valve 2"	6.8 PSI
Lateral Line	3.2 PSI
Fittings	1.0 PSI
25' in Elevation Change	5.2 PSI
Total Loss	28.9 PSI
Head Pressure Required	60.0 PSI
Minimum Required Pressure	88.9 PSI
Pressure after Pump	110.0 PSI
Residual Pressure	21.1 PSI

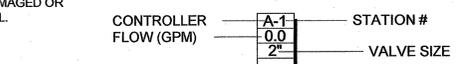
Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

SCH 80 PVC SLEEVING CHART

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	2 1/2" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

IRRIGATION INFORMATION
APPROX. STATIC PRESSURE: 55 PSI
PRESSURE WITH PUMP BOOST: 110 PSI.
MAXIMUM DEMAND: 400 GPM
STATIC PRESSURE BASED ON THE INFORMATION SHOWN ON IRRIGATION AS-BUILT PLANS DATED 3/31/02.

- INFIELD IRRIGATION HEAD NOTES:**
- INSTALL HEAD / QUICK COUPLER IN TURF AREA 6" FROM EDGE OF INFIELD MIX.
 - INSTALL HEAD WITH 3" CONCRETE COLLAR FLUSH WITH ADJACENT PAVING
- OUTFIELD IRRIGATION HEAD NOTES:**
- PROVIDE AN ADDITIONAL 1" THREADED AND CAPPED STUB-OUT FOR FUTURE ADDITION OF ROTOR AT EACH SPRINKLER IDENTIFIED.



RECEIVED
MAY - 7 2007
0' 40' 80' 120'

RA LANDSCAPE ARCHITECTS PLANNERS INC.
3612 MISSION INN AVE
RIVERSIDE, CALIFORNIA 92501
LIC. #1512
PH. (951) 781-1930
FAX (951) 686-8091

CLIENT: **THE CITY OF RIVERSIDE PARK AND RECREATION DEPT.**
3900 Main Street
Riverside, California 92522

PROJECT: **Reid Park Expansion**
Orange St. and Garner Rd.

REVISIONS	DATE	BY
CONFORMED SET	9/5/06	MH



SHEET TITLE
IRRIGATION PLAN

DESIGNED	MH
DRAWN	MH
CHECKED	DG
DATE	11-9-05
SCALE	PER PLAN
JOB NO.	03111

SHEET
IP-1
14 OF 19 SHEETS

0613

As-Built
As-Built
#0613