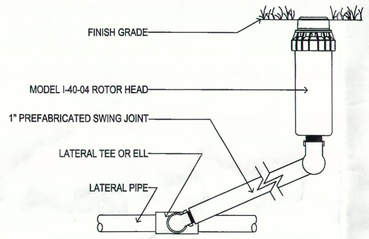
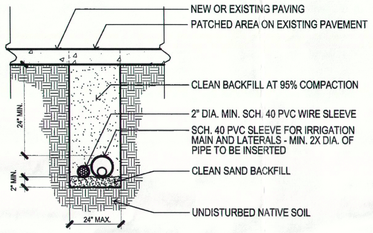
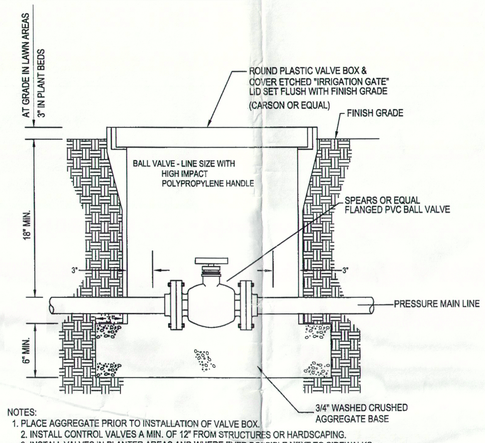


(J) POP-UP ROTOR (I-40)

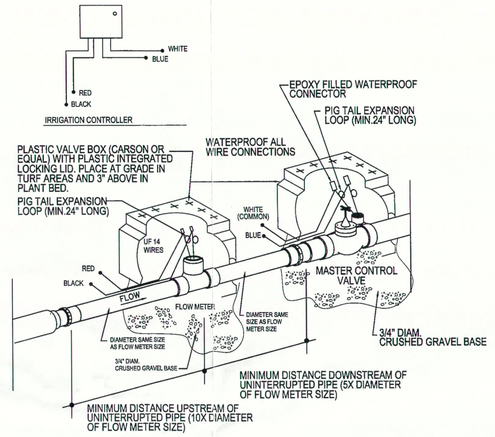


(F) SLEEVING

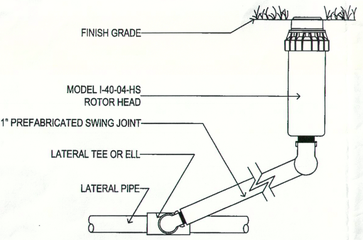


NOTES:
1. PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.
2. INSTALL CONTROL VALVES A MIN. OF 12" FROM STRUCTURES OR HARDSCAPING.
3. INSTALL VALVES IN PLANTER AREAS AND WHERE EVER POSSIBLE NEXT TO SIDEWALKS.
4. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
5. PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.

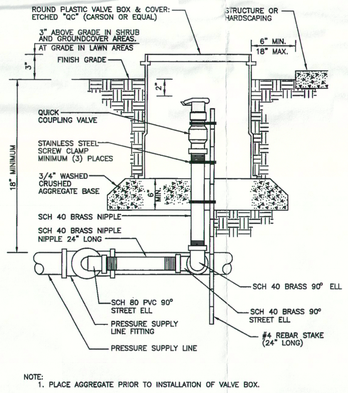
(C) SHUT-OFF VALVE



(A) FLOW SENSOR AND MASTER VALVE

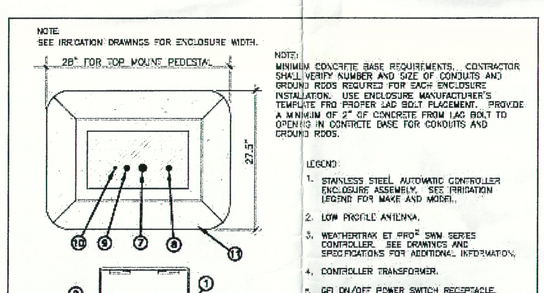


(K) POP-UP ROTOR (I-40-HS)

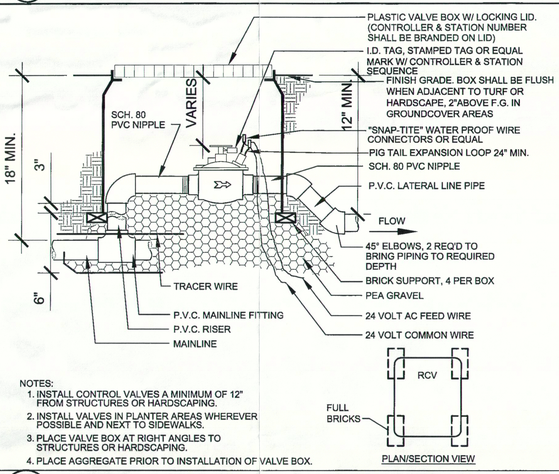


NOTE:
1. PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.

(G) QUICK COUPLER

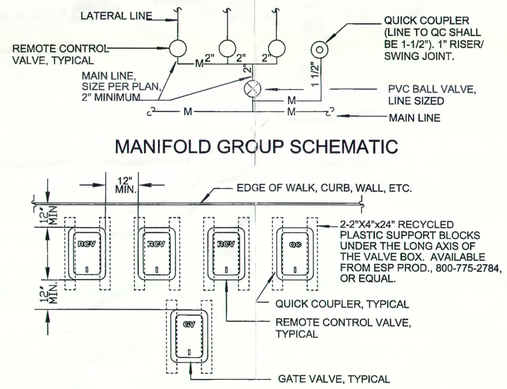


(D) CONTROLLER AND RCV



NOTES:
1. INSTALL CONTROL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL VALVES IN PLANTER AREAS WHEREVER POSSIBLE AND NEXT TO SIDEWALKS.
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.

(B1) REMOTE CONTROL VALVE

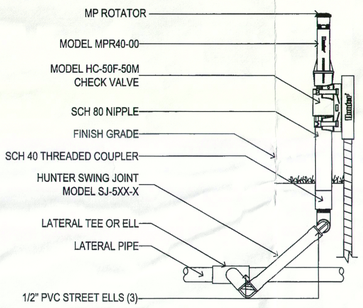


NOTES:
1. ALL VALVES SHALL BE RUN OFF A MANIFOLD GROUP SIMILAR TO THAT SHOWN IN ABOVE SCHEMATIC.
2. ALL BOXES SHALL BE SQUARE TO ONE ANOTHER, AND TO EDGES OF ADJACENT FIXED OBJECTS.
3. ALL VALVE BOXES SHALL BE SET FLUSH TO FINISH GRADE.

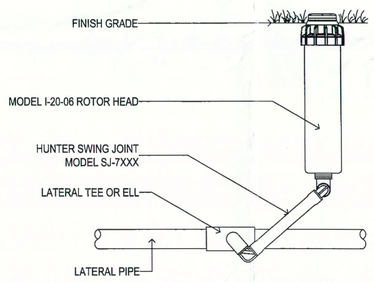
(B2) RCV MANIFOLD

PROJECT NAME:	Ryan Park Athletic Field Renovations				
	City of Rancho Palos Verdes, CA				
Valve #:	15				12/06/10
GPM:	91				
STATIC PRESSURE	Avg:	64	(at backflow inlet)		
Information Provided by:	Emilio Blanco, City of Rancho Palos Verdes				
Date:	11/19/2010				
Equipment	Size	Length		GPM	Total PSI Loss
Meter - Assuming 4"	4"		@	91	0.00
Backflow Device	4"		@	91	12.00
Mainline (Sch. 40)	4"	515'	@	91	1.08
Master Valve	3"		@	91	2.38
Gate/Ball Valve	4"		@	91	1.00
Control Valve	3"		@	91	2.38
Lateral Lines - Sch. 40	3"	147'	@	91	1.13
	2"	26'	@	46	0.38
	1.25"	54'	@	23	0.78
SUBTOTAL:					21.14
Loss through fittings		10%			2.11
Sprinkler head PSI needed					60.00
Elevation change		-55.00	ft		-23.82
TOTAL SYSTEM LOSSES:					59.43
LOWEST STATIC PRESSURE AVAILABLE:					64.00
TOTAL RESIDUAL PRESSURE:					4.57
RECOMMENDED RESIDUAL WATER PRESSURE 15-20 PSI					
SYSTEM DESIGN PRESSURE:					74

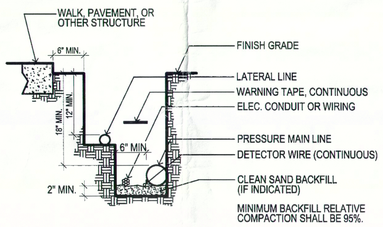
(L) PRESSURE LOSS CALCULATION



(H) MPR-40 WITH MP-ROTATOR



(I) POP-UP ROTOR (I-25)



NOTES:
1. ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES
2. BUNDLE & TAPE CONTROL WIRES AT 10' INTERVALS
3. TIE A LOOSE 20" LOOP IN WIRING AT CHANGE OF DIRECTION GREATER THAN 30°. UNTIE ALL LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE.
4. UNDER PAVED AREAS, ALL PRESSURE LINES & WIRES SHALL BE SLEEVED W/ SCH. 80 P.V.C. PIPE & SHALL BE 24" IN DEPTH (MIN.)
5. INSTALL ALL CONTROL WIRES ON UNDERSIDE OF MAINLINE PIPE
6. PIPE DEPTH FOR 2-1/2" AND LARGER SHALL BE 24" MINIMUM.
7. PIPE DEPTH FOR 2" AND SMALLER SHALL BE 18" MINIMUM.
8. PIPE DEPTH FOR ALL NON-PRESSURE LATERAL LINES SHALL BE 12" MINIMUM.

(E) TRENCHING

DIAL BEFORE YOU DIG
DIAL 8-1-1 FROM ANY PHONE OR
VIA WEB AT: http://www.digalert.org/digexpress.asp
DIGALERT
PLAY IT SAFE. DIAL BEFORE YOU DIG!
AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING
SERVING NINE SOUTHERN CALIFORNIA COUNTIES

REVIEW BY STAFF	BY	DATE
TRAFFIC		
WATER		
SEWER		
PLANNING		

APPROVED BY

RAY HOLLAND
DIRECTOR OF PUBLIC WORKS
CITY OF RANCHO PALOS VERDES
DATE _____

Withers Sandgren & Landscape Architecture

WITHERS & SANDGREN
LANDSCAPE ARCHITECTURE
& PLANNING

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(818) 882-8394 Fax

DELIVERIES
20948 TULSA STREET
CHATSWORTH, CA 91311
mail@withersandsgren.com

SHEET TITLE: IRRIGATION DETAILS

PROJECT TITLE:
ROBERT E. RYAN PARK
FIELD IMPROVEMENTS
30359 HAWTHORNE BLVD.
RANCHO PALOS VERDES, CA

REVISIONS	DATE
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

DRAWN BY:	DH/PBN
CHECKED BY:	LW
PROJECT NO.	0808
DATE:	12/17/2010

REGISTERED LANDSCAPE ARCHITECT — CHERYL M. WITHERS — No. 3875 — 8/31/2011 Renewal Date — 12/17/2010 Date — STATE OF CALIFORNIA

SHEET 7 OF 7

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