



IRRIGATION POINT OF CONNECTION TO BE INTO 3/4" APPROVED WATER METER PROVIDED AND INSTALLED BY WESTERN MUNICIPAL WATER DISTRICT. ALL COSTS TO BE PAID FOR BY WMWD. IRRIGATION BACKFLOW PREVENTER TO BE 1" WILKINS 575BS REDUCED PRESSURE TYPE. FINAL LOCATION OF BACKFLOW PREVENTER TO BE DETERMINED IN FIELD BY AUTHORIZED WMWD REPRESENTATIVE. MINIMUM STATIC PRESSURE AT POC IS 55 PSI. MAXIMUM DEMAND ON SYSTEM IS 18 GPM. SCREEN BACKFLOW PREVENTER WITH SHRUBS.

POTABLE WATER POINT OF CONNECTION TO BE INTO 3/4" WATER METER PROVIDED AND INSTALLED BY WESTERN MUNICIPAL WATER DISTRICT. ALL COSTS TO BE PAID FOR BY CITY. POTABLE WATER BACKFLOW PREVENTER TO BE 3/4" WILKINS 575BS. FINAL LOCATION OF BACKFLOW DEVICE TO BE DETERMINED IN FIELD BY AUTHORIZED CITY REPRESENTATIVE. SCREEN BACKFLOW PREVENTER WITH SHRUBS.

IRRIGATION POINT OF CONNECTION TO BE INTO 2" HERSEY MHR WATER METER PROVIDED AND INSTALLED BY WESTERN MUNICIPAL WATER DISTRICT. ALL COSTS TO BE PAID FOR BY CITY. IRRIGATION BACKFLOW PREVENTER TO BE 2" WILKINS 575BS REDUCED PRESSURE TYPE. FINAL LOCATION OF BACKFLOW PREVENTER TO BE DETERMINED IN FIELD BY AUTHORIZED CITY REPRESENTATIVE. MINIMUM STATIC PRESSURE AT POC IS 55 PSI. MAXIMUM DEMAND ON SYSTEM IS 100 GPM. SCREEN BACKFLOW PREVENTER WITH SHRUBS.

CONTROLLER 'B' TO BE IRRITROL MC-4A PLUS MOUNTED IN STRONG BOX SB-18 SS ENCLOSURE. COORDINATE 120V POWER FROM PUMP BUILDING WITH WMWD. FINAL CONTROLLER LOCATION TO BE DETERMINED IN FIELD BY WMWD REPRESENTATIVE. CONTROLLER 'B' TO OPERATE SYSTEMS AROUND PUMP HOUSE.

CONTROLLER 'A' TO BE PACIFIC TECHNICAL SERVICES (PTS) SA-16-32/RRA/RSEM/OEM. INSTALL ALL EQUIPMENT PER MANUFACTURER'S AND PTS' SPECIFICATIONS. CONTACT PTS AT TIME OF INSTALLATION FOR AID IN HOOK-UP. FINAL CONTROLLER LOCATION TO BE DETERMINED IN FIELD BY AUTHORIZED CITY REPRESENTATIVE. SEE ELECTRICAL PLANS FOR 120V POWER TO CONTROLLER LOCATION AND TELEPHONE SERVICE FOR NETWORK 8000 OPERATION. CONTRACTOR TO MAKE ALL CONNECTIONS.

ALL WATER POINTS OF CONNECTION AND BACKFLOW PREVENTERS (TYP) TO BE LOCATED IN SHRUB AREAS. EQUIPMENT SHOWN IN SIDE-WALK FOR CLARITY ONLY.

TYPICAL TORO 514-20 ADJUSTABLE FLOOD BUBBLER FOR TREE WELL IRRIGATION. SEE DETAIL 'N' FOR INSTALLATION.

CONNECT POTABLE WATER LINE TO DRINKING FOUNTAIN.

THE THREE SHRUB VALVES ('A' CONTROLLER) TO BE HARD WIRED TO STATION #1.

SEE SHEET I-2 FOR IRRIGATION DETAILS.

CONTACT PTS FOR TECHNICAL ASSISTANCE WITH ALL WORK ASSOCIATED WITH THE TORO NETWORK 8000 CONTROL SYSTEM. PACIFIC TECHNICAL SERVICES 23421 SOUTH POINTE DRIVE, SUITE 250 LAGUNA HILLS, CA 92653 (714) 937-4737 CONTACT: BRUCE WATSON

THIS IS A LOW OPERATING PRESSURE SYSTEM. NO SUBSTITUTIONS IN PIPE SIZES WILL BE ALLOWED. CONTACT LANDSCAPE ARCHITECT IMMEDIATELY IF STATIC PRESSURE AT SITE IS LOWER THAN NOTED. SYSTEM IS DESIGNED TO OPERATE WITH LOW PRESSURE LOSS THROUGH HERSEY MHR TURBINE WATER METER. CONTACT LANDSCAPE ARCHITECT IF THIS EQUIPMENT IS NOT AVAILABLE FROM WMWD.

MIDDLEFIELD DRIVE

CONTROLLER STATION # VALVE SIZE GALLONS PER MINUTE

EACH SHRUB TO HAVE ONE (1) 1633 PEPCO QUADRA BUBBLER. INSTALL ADJACENT TO ROOT BALL. EACH TREE TO HAVE TWO (2) 5633 QUADRA BUBBLERS. INSTALL ON OPPOSITE SIDES OF ROOT BALL.

RUN MAINLINE ADJACENT TO HARDSCAPE AND LOCATE VALVES +/- 5' FROM WALKS. ALL PIPES AND WIRES UNDER HARDSCAPE TO BE SLEEVED ACCORDING TO SLEEVING CHART.

Underground Service Alert
 Call: TOLL FREE
1-800-422-4133
 TWO WORKING DAYS BEFORE YOU DIG

PIPE SIZING CHART

3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

SLEEVING CHART

# WIRES	PIPE SIZE	SLEEVE SIZE
1-8	3/4"	1 1/2" SCH 40
9-15	1"	2" SCH 40
16-25	1 1/4"	2 1/2" SCH 40
26-35	1 1/2"	3" SCH 40
36-50	2" 2 1/2"	4" SCH 40
51-60	3"	6" SCH 40
61-110	6"-8"	10" SCH 40

SPRINKLER LEGEND

SYM.	MANUFACTURER/MODEL	DESCRIPTION	NOZZLE	RADIUS	GPM	PSI	DETAIL
○	TORO S700C-PC-2.0-RUBBER COVER	TURF PC-UP ROTOR HEAD	2.0	20'-30'	1.4	25	H'
○	TORO S700C-PC-3.0-RUBBER COVER		3.0	20'-30'	2.4	25	H'
○	TORO S700C-PC-4.5-RUBBER COVER		4.5	20'-30'	2.8	25	H'
○	TORO S700C-PC-6.0-RUBBER COVER		6.0	20'-30'	4.1	25	H'
○	TORO S700C-PC-4.5-RUBBER COVER		4.5	20'-30'	2.8	25	H'
○	TORO S700C-PC-6.0-RUBBER COVER		6.0	20'-30'	4.1	25	H'
■	TORO S700C-12P-CV-15-120-PCD0.7	SHRUB HI-POP SPRAY HEAD	15-120-PCD.7	10'	0.7	30	T'
■	TORO S700C-12P-CV-10-10-FLA		10-FLA	10'	0.9	30	T'
■	TORO S700C-12P-CV-10-FLA		10-FLA	10'	1.8	30	T'
■	TORO S700C-12P-CV-15-H-PCD1.4		15-H-PCD1.4	12'	1.4	30	T'
■	TORO S700C-12P-CV-15-Q		15-Q	15'	1.0	30	T'
■	TORO S700C-12P-CV-ADJ	ADJ	ADJ	1/4R	1/4R	30	T'
▽	PEPCO 1633 QUADRA BUBBLER	DRIP/BUBBLER FOR SHRUBS	N/A	N/A	1.8	30	T'
▽	PEPCO 5633 QUADRA BUBBLER	DRIP/BUBBLER FOR TREES	N/A	N/A	3.6	30	T'
▽	NOZZLE # IS IN SYMBOL ON PLANS.						

EQUIPMENT LEGEND

SYM.	MANUFACTURER/MODEL	DESCRIPTION	SIZE	DETAIL
⊗	HERSEY MHR TURBINE	IRRIGATION WATER METER	2"	N/A
⊗	BY WMWD	POTABLE/IRRIGATION WATER METER	3/4"	N/A
⊗	WILKINS 575BS	REDUCED PRESSURE BACKFLOW PREVENTER	2"	C'
⊗	WILKINS 575BS	REDUCED PRESSURE BACKFLOW PREVENTER	1"	C'
⊗	WILKINS 575BS	REDUCED PRESSURE BACKFLOW PREVENTER	3/4"	C'
⊗	NIBCO T-113	BRONZE GATE VALVE	LINE SIZE	E'
⊗	RAINBIRD #44LRC	QUICK COUPLING VALVE	1"	D'
⊗	GRISWOLD 2000 SERIES	REMOTE ELECTRIC CONTROL VALVE	PLAN SIZE	B'
⊗	SA-16-32/RRA/RSEM/OEM	AUTOMATIC IRRIGATION CONTROLLER	32 STATION	A'
⊗	IRRITROL MC-4A PLUS	AUTOMATIC IRRIGATION CONTROLLER	4 STATION	A'
---	APPROVED	CLASS 315 PVC MAINLINE	PLAN SIZE	F'
---	APPROVED	SCH 40 PVC POTABLE WATER MAINLINE	PLAN SIZE	F'
---	APPROVED	CLASS 200 PVC LATERAL LINE	PLAN SIZE	F'
---	APPROVED	SCH 40 PVC PIPEWIRE SLEEVE	PLAN SIZE	G'
---	NOT SHOWN	UF DIRECT BURIAL CONTROL WIRE	PER SPECS	N/A

t. i. maloney, inc.
 landscape architecture • planning
 6180 Brockton Avenue, Suite 201 • Riverside, CA 92506
 (714) 369-0700 fax (714) 369-4039

BERGAMONT PARK
 CITY OF RIVERSIDE
 DEPARTMENT OF PARK AND RECREATION

IRRIGATION PLAN

REQUIRED LANDSCAPE ARCHITECT SIGNATURE
 STATE OF CALIFORNIA

DATE 11-18-91
 JOB NO. 910309
 DRAWN RD
 CHECKED
 REVISIONS

RECEIVED
 NOV 18 1991
 PARK & RECREATION DEPARTMENT

SCALE 1" = 30'-0"
 I-1
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