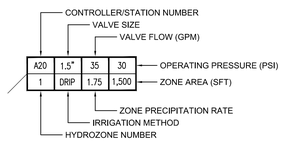
IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
13. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
14. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.

THE IRRIGATION DESIGNER OR LANDSCAPE ARCHITECT OR LANDSCAPE DESIGNER SHALL PERFORM ONE OR MORE SITE OBSERVATIONS DURING SYSTEM INSTALLATION TO CHECK FOR ADHERENCE TO THE DESIGN, INCLUDING THE PROPER INSTALLATION OF THE BACKFLOW PREVENTION ASSEMBLY, MAINLINE, LATERALS, VALVES, SPRINKLER HEADS, DRIP IRRIGATION EQUIPMENT, CONTROL WIRE, CONTROLLERS, AND SENSORS AND SHOULD ASSURE THAT THE INTENT OF THE IRRIGATION DESIGN HAS BEEN PRESERVED.

IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACT.	MODEL NO. / DESCRIPTION	GPM	PSI	RADIUS	PR (TRI.)	DETAIL
▽	RAIN BIRD	1806-SAM-PRS-5F-B-PCS-040 POP-UP BUBBLER HEAD, EACH SYMBOL REPRESENTS TWO BUBBLERS, PLACE BUBBLERS AT EDGE OF ROOTBALL ON OPPOSITE SIDES OF TREE FOR 48" BOX, PLACE ONE BUBBLER ON EACH SIDE OF TREE FOR 60" BOX. ADJUST PER ROOTBALL SIZE TYPICAL.	.40 (0.8)	30	N/A	N/A	A
◉	RAIN BIRD	33DLRC QUICK COUPLER VALVE PLACED 100' O.C. FOR ENTIRE LENGTH OF MAINLINE					C
●	RAIN BIRD	EFB-CP (1", 1 1/2", 2") SERIES BRASS REMOTE CONTROL VALVE, SIZE AS SHOWN					D
◉	RAIN BIRD	EFB-CP (1", 1 1/2") SERIES DRIP REMOTE CONTROL VALVE ASSEMBLY, SIZE AS SHOWN INSTALL AG PRODUCTS 1" #4E-1AN-150, 1" MPT W/ MHT FLUSH & CAP 150 MESH WYE FILTER AND SENNINGER PRESSURE REGULATOR PMR-30MF FOR DEMANDS LESS THAN 18 GPM, AG PRODUCTS 1 1/2" SIZE #4E-11/2"-150, 11/2" MPT W/ MPT FLUSH AND BALL VALVE, 150 MESH WYE FILTER AND SENNINGER PR-30HF PRESSURE REGULATOR FOR DEMANDS GREATER THAN 18 GPM. INSTALL BOTH ON THE DOWNSTREAM SIDE OF EACH DRIP RCV					E
SHRUB / TURF	HUNTER	PLD-04/06-12 LANDSCAPE DRIP TUBING W/ .60 GPH EMITTERS FOR SHRUB AREAS AND .40 GPH EMITTERS FOR TURF AREAS 12" ON CENTER, INSTALL TUBING ROWS A MAXIMUM OF 12" APART IN TURF AREAS AND MAXIMUM OF 16" APART IN SHRUB AREAS. ALL TUBING SHALL BE INSTALLED 4" BELOW FINISHED SOIL GRADE W/ 9" WIRE STAKES FIVE (5) FEET ON CENTER; VERIFY THE LAYOUT AND SPACING IN THE FIELD PRIOR TO STARTING WORK					F,G,H
— — — — —	HUNTER	PLD DRIPLINE FITTINGS W/ APPROPRIATE PVC FITTING FOR CONNECTION BETWEEN PVC LATERAL LINES AND DRIP TUBING					F,G,H
NO SYMBOL	HUNTER	ALL CONNECTIONS BETWEEN DRIP TUBING SHALL BE MADE USING "PLD" FITTINGS					F,G,H
Ⓕ	LASCO	SCH. 4O PVC BALL VALVE 1/2" SIZE WITH THREADED CONNECTIONS, INSTALL FLUSH VALVES AT END/MIDDLE OF DRIPLINE 3/4" PCV FLUSH MANIFOLD LINE, INSTALL FLUSH VALVE INSIDE A SEPERATE 10" ROUND VALVE BOX, ONE AT THE END OF TUBING RUNS IN EACH DIRECTION. INSTALL MIN, ONE FLUSH VALVE PER 1000' OF TUBING IN EACH DIRECTION ON DRIPLINE FLUSH MANIFOLD. INSTALL 18" FROM PAVING. INSTALL ALL FLUSH EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.					H,I
Ⓐ	HUNTER	PLD-AVR AIR/VACUUM RELIEF VALVE INSTALLED WITH PLD075TBTEE COMBINATION TEE AND A 3/4" X 1/2" REDUCER BUSHING, INSTALL AIR RELIEF ASSEMBLY INSIDE A 6" ROUND VALVE BOX AT THE HIGH POINT OF EACH PLANTER, MIN. 1 ARV PER 500' OF DRIPLINE. USING AIR RELIEF LATERAL, CONNECT AIR RELIEF VALVE TO ALL DRIPLINE LATERALS WITHIN THE ELEVATED AREA. MULTIPLE ARV'S SHALL BE REQUIRED PER RCV WITHIN UNDULATING AREAS, VERIFY QUANTITY PRIOR TO STARTING WORK. INSTALL VALVE BOX 18" FROM PAVING AND AT HIGH POINTS OF PLANTER AREA. INSTALL ALL AIR VACUUM RELIEF EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.					H,J
———	AS APPROVED	PVC PIPE 3/4" - 3" SCH. 40 AS LATERAL LINES 12" BELOW GRADE					K
——— – ———	AS APPROVED	EXISTING 3" SCH. 40 IRRIGATION MAINLINE, PROTECT IN PLACE					N/A
——— – – ———	AS APPROVED	PVC PIPE 3" SCH. 40 SOLVENT WELD AS MAINLINES 24" BELOW GRADE					K
— — — — —	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2.5 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED PLACE BELOW ALL PAVING, HARDSCAPE ETC. AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.					L
NO SYMBOL	AS APPROVED	IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED)					K,L,M
NO SYMBOL	3M	DBY-6 DIRECT BURIAL WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS (U.L. APPROVED)					M
NO SYMBOL	K.B.I.	KSC-XXX-S SWING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV WHEN RCV IS LOWER THAN THE SPRINKLERS INSTALL WITHIN SPRINKER/DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD/EMITTER DRAINAGE.					N/A
NO SYMBOL	K.B.I.	KC-XXX-S SPRING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV IMMEDIATELY ABOVE FIRST LATERAL LINE TEE WHEN RCV IS HIGHER THAN THE SPRINKLERS, INSTALL WITHIN SPRINKER/DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD/EMITTER DRAINAGE.					N/A
NO SYMBOL	CARSON	VALVE BOXES, SIZE PER EQUIPMENT DETAILS, LEGEND, AND SPECIFICATIONS. FOR FLUSH VALVES AND AIR RELIEF VALVES USE MODEL 708, 10" ROUND SHALL BE MODEL 910, 11" X 16" STANDARD RECT. SHALL BE MODEL 1419-12, 17" X 30" JUMBO RECT. SHALL BE MODEL 1730,. VALVE BOXES SHALL HAVE GREEN BODY AND GREEN LIDS IN TURF. GREEN LIDS IN SHRUB BEDS, AND TAN LIDS IN ROCK MULCH. FOR USE IN NON-VEHICULAR TRAFFIC SITUATIONS ONLY. DO NOT INSTALL IN CONCRETE OR ASPHALT.					N/A



sweeney + associates
IRRIGATION DESIGN AND CONSULTING
s+a
18730 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-0830
w: www.sweeneyassoc.com f: (951) 461-0850

PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

KoningEizenberg Architecture
1454 25th St, Santa Monica, CA 90404
310.828.6131 info@kearch.com
310.828.0719 fax www.kearch.com
ARCHITECT'S PROJECT NO.

ARCHITECT

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SPURLOCK POIRIER
Landscape Architects
2122 Hancock Street
San Diego, CA 92110
619.6810090
619.6810096 fax

LICENSED LANDSCAPE ARCHITECT
ANDREW SPURLOCK - 1635
Signature
07/31/12
Renewal Date
Date
STATE OF CALIFORNIA

CONSULTANT

City of
Santa Monica
Architecture Services
1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL. (310) 458-2205
FAX. (310) 399-1541
architecture@smgov.net

DATE : _____ 20 __
SUBMITTED BY :

DATE : _____ 20 __
APPROVED BY :
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
3	05/07/12		PLAN CHECK 1
2	03/06/12		ADDENDUM 3
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE

PLAN CHECK CORRECTIONS

DATE

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Irrigation
Legend

SHEET NO.
L2.02

SHEET OF

DWG. NO. : -

TITLE OF PROJECT :