

IRRIGATION

1. ALL CFD AND LMD IRRIGATION IS TO HAVE SEPARATE AND INDEPENDENT POINTS OF CONNECTION, WATER METERS, VALVES, AUTOMATIC CONTROLLERS, CONTROLLER PEDESTALS, ELECTRIC METER AND LATERAL LINES. NO IRRIGATION COMPONENT SHALL SERVICE BOTH A CFD/LMD AND PRIVATE PROPERTY.
2. THE FOLLOWING IRRIGATION EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE APPROVED CITY STANDARD SPECIFICATIONS, SERIES 600:
 - A. MYERS MEUG-46IX-M100 STAINLESS STEEL CONTROLLER AND ELECTRIC METER CABINET.
 - B. FEBCO 825 Y REDUCED PRESSURE BACKFLOW PREVENTION DEVICE WITH BALL VALVES, WILKINS 600 SERIES BRASS PRESSURE REGULATOR AND A BRASS Y-STRAINER. UNIT SHALL BE INSTALLED IN A LOCKABLE BPGI GUARD SHACK EXPANDED METAL ENCLOSURE.
 - C. RAIN BIRD PESB-R (SPECIFY THE "R" WHEN USED WITH RECYCLED WATER), SERIES REMOTE CONTROL VALVES WITH BALL VALVE ASSEMBLY IN CONCRETE VALVE BOX WITH LOCKING METAL LID.
 - D. POP-UP HEADS, RAIN BIRD 1800-SAM-PRS SERIES WITH 1800 NP COVERS OR APPROVED EQUAL (FIXED SPRAY HEADS OR ROTORS) ON TRIPLE SWING JOINTS.
 - E. ALL HEADS SHALL HAVE ANTI DRAIN VALVES.
 - F. SHRUB HEADS ON RISERS, COMPLETE WITH 36" (SCH. 40) GALVANIZED STAKE AND TWO STAINLESS STEEL CLAMPS OR GALVANIZED PUNCHLOCKS.
3. ALL SLOPE SPRAY AND ROTOR HEADS MUST BE MOUNTED A MINIMUM OF 6" ABOVE THE MATURE HEIGHT OF THE PROPOSED GROUND COVER AND/OR SHRUBS AND STAKED WITH 36" GALVANIZED PIPE 18" INTO THE SOIL AND CLAMPED WITH TWO OR MORE STAINLESS STEEL CLAMPS OR GALVANIZED PUNCHLOCKS AS REQUIRED.
4. REMOTE CONTROL VALVES, BALL VALVES, QUICK COUPLING VALVES, AND SPLICE BOXES SHALL BE IDENTIFIED WITH WHITE CARSONITE MARKERS WHEN GROUPED AWAY FROM STREETS OR SIDEWALKS.
5. ALL CFD/LMD CONTROLLER CABINETS SHALL BE MYERS STAINLESS STEEL MEUG-46IX-M100, OR APPROVED EQUAL, INSTALLED PER CITY STANDARD SPECIFICATION 603, 1 OF 3.
6. THE BASE OF THE PEDESTAL SHALL BE WATERPROOFED USING 100% CLEAR SILICONE RUBBER, 1" WIDE AND INSTALLED AT 45 DEGREES ON ALL SIDES BUT FRONT.
7. CONTROLLERS SHALL BE CALSENSE ET 2000E-LR-RRE SERIES, MOUNTED INSIDE THE REQUIRED PEDESTAL AND WIRED TO A CALSENSE TP-1 TRANSIENT PROTECTION BOARD MOUNTED BELOW THE CONTROLLER. VALVE WIRES SHALL BE LABELED WITH VALVE NUMBER.
8. CALSENSE CONTROLLER AND IRRIGATION HARDWARE INSTALLATION SHALL CONFORM WITH CALSENSE DESIGNERS GUIDE.
9. INSTALL A TP 110 FOR POWER SUPPLY TO CONTROLLER.
10. ALL WIRE, INCLUDING LOW VOLTAGE WIRE, SHALL BE INSTALLED IN SCH. 40 PVC CONDUIT.

(TO BE PLACED ON
ALL CFD/LMD PLANS)



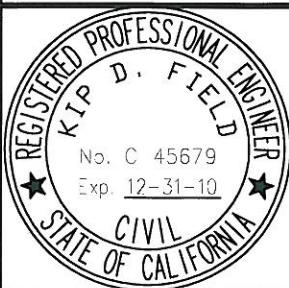
APPROVED BY:			
			11/23/09
CITY ENGINEER			DATE
KIP D. FIELD			
REVISION	DESCRIPTION	BY	DATE

CITY OF CORONA	
IRRIGATION NOTES	
STANDARD PLAN NUMBER: 625	SHT 1 OF 3

IRRIGATION (CONTINUED)

11. CONTROLLER PEDESTALS AND BACKFLOWS SHALL BE LOCATED BY THE PUBLIC WORKS AND PARKS AND COMMUNITY SERVICES DEPARTMENTS. THE CONTROLLER PEDESTAL SHALL BE INSTALLED ON A CONCRETE FOUNDATION A MINIMUM OF 54" X 26" X 24" WITH A CLASS "A" FINISH. A 4" PERIMETER AT TOP OF FOUNDATION SHALL BE SLOPED AWAY FROM CABINET. A SERVICE PAD 54" X 36" X 3-1/2" SHALL BE INSTALLED WITH LIGHT BROOM FINISH TO CONNECT THE CONTROLLER PEDESTAL PAD TO THE SIDEWALK, (REFER TO DETAIL 601-2).
12. ALL VALVE BOXES SHALL BE MOUNTED ON 2" X 4" X 8" CONCRETE BLOCK/BRICK TO AVOID BOX SUBSIDENCE.
13. VALVE BOXES TO BE RECTANGULAR 12" X 18" PURPLE PLASTIC (EXCEPT RCV VALVES) WITH LOCKABLE TOP, SET 1" ABOVE GRADE IN GROUND COVER AND 1/2" ABOVE GRADE IN TURF. VALVE BOXES SHALL BE BRANDED WITH A "V" AND THE VALVE NUMBER ON THE LID WITH 2" HIGH X 1" LETTERS. INSTALL 3 1/4" ALUMINUM DOME MARKERS STAMPED WITH THE 1/2" LETTER 'V' AND CORRESPONDING VALVE NUMBER ON CURB TOPS. ALL RCV VALVE BOXES TO BE RECTANGULAR CONCRETE WITH METAL LID.
14. ALL VALVES AND OTHER APPURTENANCES SHALL BE NO CLOSER THAN 24" APART.
15. ALL HEADS SHALL BE RAIN BIRD OR HUNTER (OR APPROVED EQUAL) FIXED SPRAY HEADS OR ROTORS. NO IMPACT HEADS WILL BE PERMITTED.
16. PARKWAYS
 - A. PARKWAYS SHALL BE IRRIGATED USING TRIANGULAR SPACING.
 - B. HEADS SHALL BE FLAT SPRAYS OR SIDE STRIPS DEPENDING ON WIDTH OF PARKWAY.
 - 1) 5' PARKWAY, OR LESS USE SIDE STRIPS.
 - 2) 5.5' PARKWAY, OR WIDER, USE 8' FLAT, 10' LOW ANGLE OR SIDE STRIPS.
 - 3) PARKWAY TURF HEADS SHALL BE RAIN BIRD 1806-SAM-PRS WITH 1800 NP COVERS OR APPROVED EQUAL.
 - 4) PARKWAY GROUND COVER HEADS SHALL BE RAIN BIRD 1812-SAM-PRS WITH 1800 NP COVERS OR APPROVED EQUAL.
 - 5) ALL PARKWAY GROUND COVER SHALL BE APPROVED BY THE PARKS AND COMMUNITY SERVICES DEPARTMENT. (NO GROUND COVER OVER 8" TALL AT MATURITY).
17. NO EXCESS WATER SHALL BE ALLOWED ON STREET OR SIDEWALK.
18. ALL SYSTEMS SHALL BE DESIGNED TO CONSERVE WATER AND AVOID RUN-OFF.
19. ALL WIRE SPLICES SHALL BE SPEARS DRI SPLICE DS-100, OR APPROVED EQUAL WITH 2 FT. EXPANSION LOOPS, AND INSTALLED IN 10" ROUND, LOCKING BOXES (CARSON OR BETTER). BOXES SHALL BE BRANDED WITH AN "E" ON THE LID WITH A 2" HIGH X 1" WIDE LETTER. INSTALL 3 1/4" ALUMINUM DOME MARKERS ON CURB TOPS AND STAMP WITH THE 1/2" LETTER 'E'.
20. ALL IRRIGATION MAINLINE AND LATERALS SHALL BE SLEEVED WITH PVC SCHEDULE 80, 2 X THE PROPOSED LINE SIZE UNDER ALL HARDSCAPE. WIRES SHALL BE SLEEVED SEPARATELY IN PVC SCHEDULE 40 SLEEVE. ALL SLEEVE LOCATIONS SHALL EXTEND 2' BEYOND HARDSCAPE AND BE SEALED WITH EXPANDABLE FOAM. ALL SLEEVE LOCATIONS SHALL BE IDENTIFIED AND VIEWABLE WITH A 10" ROUND LOCKING PURPLE VALVE BOX AND 6" SCH. 40 PIPE. VALVE BOX LID MUST BE BRANDED WITH A 2"X1", "S". INSTALL 3 1/4" ALUMINUM DOME MARKERS ON CURB TOP AND STAMP WITH THE 1/2" LETTER 'S'. ALL MAINLINE PIPE AND WIRES ARE TO BE TRENCHED AND BURIED.

(TO BE PLACED ON
ALL CFD/LMD PLANS)



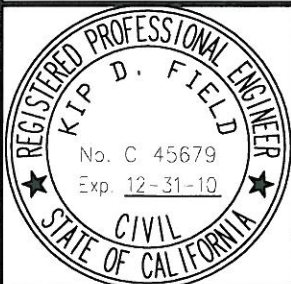
APPROVED BY:			
			11/23/09
CITY ENGINEER			DATE
KIP D. FIELD			
REVISION	DESCRIPTION	BY	DATE

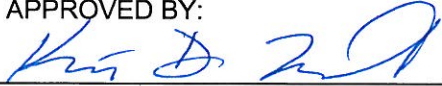
CITY OF CORONA	
IRRIGATION NOTES	
STANDARD PLAN NUMBER: 625	SHT 2 OF 3

IRRIGATION (CONTINUED)

21. ALL LATERAL PIPE IS TO BE TRENCHED AND BURIED
22. ALL MAINLINE AND LATERAL PIPE SHALL BE NON-POTABLE PURPLE P.V.C.
23. ALL HEADS SHALL BE INSTALLED AT 90 DEGREES TO THE SLOPE.
24. IRRIGATION COVERAGE SHALL BE DESIGNED FOR HEAD TO HEAD 100% COVERAGE, WITH WIND DEFLECTION TAKEN INTO ACCOUNT.
25. ALL PIPE CROSSING BENCH DRAINS ON SLOPES SHALL BE SLEEVED WITH SCHEDULE 40 GALVANIZED PIPE EXTENDED 1' BEYOND DRAIN ON BOTH SIDES AND THE ENDS ATTACHED AND STABILIZED TO SLOPE.
26. REMOTE CONTROL VALVES SHALL BE RAIN BIRD PESB-R SERIES OR APPROVED EQUAL INSTALLED PER STANDARD PLAN 604 INCLUDING A TXT BALL VALVE PER DETAIL.
27. ALL MAINLINE AND VALVES SHALL BE LOCATED 18" FROM ALL SIDEWALKS OR CURBS.
28. ALL HEADS SHALL BE SET 2" FROM ALL CURBS, SIDEWALKS, AND ANY OTHER HARDSCAPE.
29. USE TEFLON TAPE ON ALL THREADED FITTINGS EXCEPT ON MARLEX FITTINGS.
30. ALL MAINLINE SHALL BE PRESSURE TESTED AT 150 PSI FOR A MINIMUM OF FOUR (4) HOURS IN PRESENCE OF A CITY INSPECTOR PRIOR TO BACKFILLING.
31. 2 EXTRA WIRES SHALL BE RUN FROM THE CONTROLLER TO THE FURTHEST VALVE IN EACH DIRECTION FROM CONTROLLER. EXTRA WIRES SHALL BE A DIFFERENT COLOR FROM COMMON AND PILOT WIRES.
32. CONTRACTOR IS TO SUBMIT MYLAR "AS BUILT" PLANS ALONG WITH AUTOCAD DXF FILE ON CD-ROM TO PARKS & COMMUNITY SERVICES DEPARTMENT LANDSCAPE CONTRACT INSPECTION OFFICE PRIOR TO ACCEPTANCE OF CFD/LMD LOTS.
33. CONTRACTOR IS TO SUBMIT (2) 11" X 14" COLOR CODED LAMINATED CONTROLLER CHARTS TO THE PARKS & COMMUNITY SERVICES DEPARTMENT LANDSCAPE CONTRACT INSPECTION OFFICE PRIOR TO ACCEPTANCE OF CFD/LMD LOTS.
34. CONTRACTOR IS TO SUBMIT THE BACKFLOW DEVICE CERTIFICATION TO PARKS AND COMMUNITY SERVICES DEPARTMENT LANDSCAPE CONTRACT INSPECTION OFFICE.
35. CONTRACTOR IS TO SUBMIT THE CALSENSE CERTIFICATION LETTER TO PARKS AND COMMUNITY SERVICES DEPARTMENT PRIOR TO ACCEPTANCE OF CFD/LMD LOTS.
36. CONTRACTOR TO FURNISH A TELEPHONE LINE TO EACH CONTROLLER CABINET.
37. BACKFLOW PREVENTER MUST BE INSTALLED PRIOR TO INSTALLATION OF THE WATER METER

(TO BE PLACED ON ALL CFD/LMD PLANS)



APPROVED BY:

 11/23/09
 CITY ENGINEER DATE
 KIP D. FIELD

CITY OF CORONA

IRRIGATION NOTES

REVISION	DESCRIPTION	BY	DATE
----------	-------------	----	------

STANDARD PLAN NUMBER: **625** SHT 3 OF 3