



PADRE DAM
Municipal Water District

Irrigation Recycled Water Checklist

PROJECT NAME: _____ PROJECT NO.: _____

PLAN REVIEWER: _____ PEER REVIEWER: _____

I. ALL SHEETS							
	1 st Check		2 nd Check		3 rd Check		Comments
	Date: _____		Date: _____		Date: _____		
	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	
A. Media 2 – sets 24"x36" Bond							
B. Signed by the Landscape Architect-of-Work, date of expiration of registration adjacent to signature							
C. Marked with the name, address and telephone number of the firm preparing the plans and date of preparation							
D. Consecutively numbered with total number of sheets							
E. Lettered in a neat and legible style, no hand lettering smaller than 1/8" and no machine letter smaller than 1/10"							

II. TITLE SHEET							
	1st Check		2nd Check		3rd Check		Comments
	Date: _____		Date: _____		Date: _____		
A. Declaration of Responsible Charge	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	
B. Responsibility Disclaimer – Including Reference Drawing information: 1. PDMWD Project #							
C. Meter Information Table – Including 1. POC ID 2. POC STA 3. IRR AREA (SQ. FT.) 4. TOTAL GPM 5. ANNUAL USAGE (AC. FT.) 6. LATERAL SIZE 7. METER SIZE							
D. DEH RW# or LRWS# shown vertically on top right margin							
E. Marked with the name, address and telephone number of the owner and developer							
F. Name and phase of development (to be consistent throughout the drawing)							
G. PDMWD Notes							
H. Omission Statement							

II. TITLE SHEET (continued)							
	1ST Check Date: _____		2nd Check Date: _____		3rd Check Date: _____		Comments
	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	
I. Vicinity Map							
1. Orient north arrow as on key map							
2. Arterial streets shown							
3. Project Boundary							
4. APN and site address shown							
J. Index/Site Map							
1. Scale is 1"= 200' minimum							
2. Sheet coverage shown							
3. North arrow							
4. Street names							
5. Location of all irrigation meters							
6. Point of connection							
7. Show existing & proposed utilities in street (type & size)							
8. Fire Hydrants							
9. Recycled Water "Do Not Drink" Sign locations							
K. PDMWD Completed Signature Block							
L. DEH Signature Block							

III. LEGEND, DETAILS & SPECS							
	1ST Check Date: _____		2nd Check Date: _____		3rd Check Date: _____		Comments
	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	
A. Non-standard symbols and abbreviations used are listed and described							
B. For sprinklers, show radius & pattern, flow pressure, material, manufacturer & model number							
C. Water Agencies' Standards, Materials list or Specs when applicable							
D. Booster pumps and fertigation units shall have a bypass							
E. Water Agencies' Standards, show details WR-01 or WR-02, WR-03, WR-04 & WM-08							
F. Show symbols of potable water meter and potable mains							
G. For temporary potable connection: Water Agencies' Standards, show detail WR-05 (if applicable)							
H. Show cross connection test station details							
I. Pressure regulator or regulated Master Valve at POC							
J. Show potable/recycled crossing and trench details							

IV. DESIGN ON-SITE							
	1st Check		2nd Check		3rd Check		Comments
	Date: _____		Date: _____		Date: _____		
A. Show potable water, recycled water and sewer lines	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	
B. Show point of connection 1. To potable: show use of WR-01 or WR-02 2. To recycled: show use of WR-03							
C. Connections of hose bibs and hydrants are not allowed							
D. Cross connection between recycled and potable is strictly prohibited							
E. Potable & recycled not in same trench							
F. Drinking fountains and outdoor eating facilities are to be protected from spray of irrigation lines							
G. Recycled water system does not discharge onto areas not under the owner's control							
H. Minimum separation between areas irrigated with recycled water, those irrigated with potable water = 10' Concrete mow curb acceptable							
I. Potable water and recycled water lines shall be differentiated on plans.							
J. Recycled water quick couplers are not allowed							

V. IRRIGATION PLANS							
	1st Check		2nd Check		3rd Check		Comments
	Date: _____		Date: _____		Date: _____		
	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	
1. Point of connection per WR-01, 02,03, 04 as appropriate							
a. Meters (Existing / Proposed)							
b. Verify w/ PDMWD & Civil that lateral stub out exists							
c. Lateral size (2" min.)							
d. Meter size & location (Road Stationing)							
e. Proposed Max Flow (GPM)							
f. Size of irrigated area (SF)							
g. Estimated yearly demand (Ac. Ft.)							
h. Design operating pressure (psi)							
2. All appurtenances near POC (blow offs, air valves, fire hydrants, etc.)							
3. Gate valves are required for 4" and greater installations							
4. Control Valves							
5. Control stations							
6. Signage							
7. Cross connection test stations							
8. Adjacent parcels.							
9. Backflow prevention device							

V. IRRIGATION PLANS (continued)							
	1st Check		2nd Check		3rd Check		Comments
	Date: _____		Date: _____		Date: _____		
	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	
10. Potable water lines							
11. Buildings							
12. Decorative fountains							
13. Exterior drinking fountains							
14. Routing of all irrigation pipes							
15. Area controlled by each controller station							
16. Separation of irrigation system used (fence, mow curbs, walls...)							
17. Swimming pools (No QCV within 50', drip or bubbler only, not potable QCV within 75', Plants must be 4 feet away from the pool or spa)							
18. Playgrounds							
19. Eating areas							
A. If none of the above are present, include an omission paragraph specifically stating none exist							
B. PDMWD Water Notes							
C. DEH Water Notes							
D. Additional notes are designated as "Special Notes"							

V. IRRIGATION PLANS (continued)							
	1st Check		2nd Check		3rd Check		Comments
	Date: _____		Date: _____		Date: _____		
20. Inspection note shown on each sheet of irrigation plans	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	
21. Reference all Existing PDMWD Project#, RW# and LRWS# @ system connections							
22. Depth of pipe							
A. From top of pipe, intermittent pressure for 2" or less, 12" min							
B. From top of pipe, constant pressure for less than 6", 18" min							
C. From top of pipe, constant pressure 6" or more, 30" min							
23. Warning/identification tape							
24. Horizontal separation between recycled & potable is 4'							
25. Vertical separation is 12" OD recycled below potable A. Recycled may be above if is intermittent pressure B. Recycled may be above if constant pressure line has auto flow control/shutoff device or is sleeved							
26. Cross connection test station is directly downstream of meter and/or pressure reducing valve							
27. Fertigation system or booster pump requires RP device instead of check valve. Fertigation device located at end of POC							

VI. MATERIALS							
	1st Check		2nd Check		3rd Check		Comments
	Date: _____		Date: _____		Date: _____		
A. 3" or smaller pipe - solid purple ASTM-D1784 type 1 grade 1 PVC 1120 for Son. 40 or 80 or ASTM D2241 type 1 grade 1 PVC 1120 for SDR rated pipe	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	
B. 4" or greater AWWA C-900 or C-905							
C. Sprinklers, valves boxes, valves w/ exterior exposure are to be purple.							
VII. MISCELLANEOUS							
	1st Check		2nd Check		3rd Check		Comments
	Date: _____		Date: _____		Date: _____		
A. Installation and materials for recycled water irrigation system shall conform the Water Agencies Standards and Specifications, section 15152 recycled water facilities	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	
B. All shrub heads shall have purple caps. Decal on risers will not be accepted							
C. Sign and date the engineer/architect stamp on the title sheet.							
D. Sign and date the declaration of responsibility on the title sheet.							

VII. MISCELLANEOUS (continued)							
	1st Check		2nd Check		3rd Check		Comments
	Date: _____		Date: _____		Date: _____		
E. All RW appurtenances to have "DO NOT DRINK" tags.	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	<u>ENG</u>	<u>PDMWD</u>	
F. "DO NOT DRINK" decal on irrigation controller.							
G. Details for all appurtenances in POC sequence (pressure regulator, master valve, flow sensor, etc.)							
H. POC sequence is hard piped up to flow sensor.							
END							