



OTAY WATER DISTRICT ONSITE RECYCLED WATER SYSTEM CHECKLIST

PROJECT NAME: _____ PROJECT NO.: _____

PLAN REVIEWER: _____ PEER REVIEWER: _____

DISTRICT REQUEST MYLAR: _____

I. ALL SHEETS									
	1 ST Check		2 nd Check		3 rd Check		4 th Check		Comments
	ENG	OWD	ENG	OWD	ENG	OWD	ENG	OWD	
A. Medium 1. 24"x36" in size conforming to District format 2. No "sticky back", glued or taped on sections									
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"									
F. OWD Project# shown vertically on right margin									
G. OWD Inspection Note									
H. OWD Review By Block (On all consecutive sheets after the Title sheet)									
I. OWD permit# shown at bottom right side corner of the plan									



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II. TITLE SHEET									
	1 ST Check		2 nd Check		3 rd Check		4 th Check		Comments
	<u>ENG</u>	<u>OWD</u>	<u>ENG</u>	<u>OWD</u>	<u>ENG</u>	<u>OWD</u>	<u>ENG</u>	<u>OWD</u>	
A. OWD Signature Block – Including: 1. OWD Project # 2. Recycled Water Pressure Zone 3. Potable Water Pressure Zone									
B. DEH Signature Block									
C. Declaration of Responsible Charge									
D. Responsibility Disclaimer – Including Reference Drawing information: 1. OWD Project # 2. City Drawing #									
E. 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 (All irrigation laterals are 2") 7. METER SIZE									
F. DEH RW# or LRWS# shown vertically on top right margin									
G. Marked with the name, address and telephone number of the owner and developer									
H. Name and phase of development (to be consistent throughout the drawing)									



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II. TITLE SHEET (continued)

	1 ST Check		2 nd Check		3 rd Check		4 th Check		Comments
	ENG	OWD	ENG	OWD	ENG	OWD	ENG	OWD	
I. OWD Inspection Note									
J. Omission Statement									
K. 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									
L. Vicinity Map									
1. Orient north arrow as on key map									
2. Arterial streets shown									
3. Project boundary street shown									
4. APN or site address									



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III. LEGEND, DETAILS & SPECS

	1st Check		2nd Check		3rd Check		4th Check		Comments
	ENG	OWD	ENG	OWD	ENG	OWD	ENG	OWD	
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. Water Agencies' Standards, Section 15152									
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. OWD 10-foot separation detail									



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III. LEGEND, DETAILS & SPECS (continued)

	1 ST Check		2 nd Check		3 rd Check		4 th Check		Comments
	ENG	OWD	ENG	OWD	ENG	OWD	ENG	OWD	
K. Show potable/recycled crossing and trench details									
L. All valve boxes shall have 3/8" pea gravel									
M. Booster pumps and fertigation units shall have a bypass									

IV. DESIGN ON-SITE

	1 st Check		2 nd Check		3 rd Check		4 th Check		Comments
	ENG	OWD	ENG	OWD	ENG	OWD	ENG	OWD	
A. Show potable water, recycled water and sewer lines									
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									



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IV. DESIGN ON-SITE (continued)

	1st Check		2nd Check		3rd Check		4th Check		Comments
	ENG	OWD	ENG	OWD	ENG	OWD	ENG	OWD	
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. Recycled water quick couplers are not allowed									
J. Potable and Recycled water lines shall be differentiated on plans									

V. IRRIGATION PLANS

	1st Check		2nd Check		3rd Check		4th Check		Comments
	ENG	OWD	ENG	OWD	ENG	OWD	ENG	OWD	
A. Show:									
1. Point of connection per WR-01, 02,03, 04 as appropriate									
a. Meters (Existing / Proposed)									
b. Verify w/ OWD & Civil that lateral stub out exists									
c. Lateral size (2" min.)									
d. Meter size & location (Road Stationing)									



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V. IRRIGATION PLANS (continued)									
	1st Check		2nd Check		3rd Check		4th Check		Comments
	ENG	OWD	ENG	OWD	ENG	OWD	ENG	OWD	
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									
10. Potable water lines									
11. Buildings									
12. Decorative fountains									
13. Exterior drinking fountains									



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V. IRRIGATION PLANS (continued)									
	1st Check		2nd Check		3rd Check		4th Check		Comments
	<u>ENG</u>	<u>OWD</u>	<u>ENG</u>	<u>OWD</u>	<u>ENG</u>	<u>OWD</u>	<u>ENG</u>	<u>OWD</u>	
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									
B. If none of the above are present, include an omission paragraph specifically stating none exist									
C. OWD Water Notes									
D. DEH Water Notes									
E. Additional notes are designated as "Special Notes"									
F. Inspection note shown on each sheet of irrigation plans									
G. Reference all Existing OWD Project#, RW# and LRWS# @ system connections									



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V. IRRIGATION PLANS (continued)									
	1st Check		2nd Check		3rd Check		4th Check		Comments
	ENG	OWD	ENG	OWD	ENG	OWD	ENG	OWD	
H. Depth of pipe									
1. From top of pipe, intermittent pressure for 2" or less, 12" min									
2. From top of pipe, constant pressure for less than 6", 18" min									
3. From top of pipe, constant pressure 6" or more, 30" min									
I. Warning/identification tape									
J. Horizontal separation between recycled & potable is 4'									
K. Vertical separation is 12" OD recycled below potable 1. Recycled may be above if is intermittent pressure 2. Recycled may be above if constant pressure line has auto flow control/shut-off device or is sleeved									
L. Cross connection test station is directly downstream of meter and/or pressure reducing valve									
M. Fertigation system or booster pump requires RP device instead of check valve. Fertigation device located at end of POC									



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VI. MATERIALS									
	1st Check		2nd Check		3rd Check		4th Check		Comments
	ENG	OWD	ENG	OWD	ENG	OWD	ENG	OWD	
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									
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		4th Check		Comments
	ENG	OWD	ENG	OWD	ENG	OWD	ENG	OWD	
A. Installation and materials for recycled water irrigation system shall conform the Water Agencies Standards and Specifications, section 15152 recycled water facilities									
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.									



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VII. MISCELLANEOUS (continued)									
	1st Check		2nd Check		3rd Check		4th Check		Comments
E. All RW appurtenances to have "DO NOT DRINK" tags.									
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.									
I. No red brass in materials.									
END									