

City of Ontario

Landscape Irrigation Recycled Water Notes

1. The installation of the landscape irrigation system shall conform to the provisions set forth herein and any conditions, standards and requirements set forth by the City of Ontario in addition to these plans, notes and specifications.
2. Recycled water irrigation projects shall comply with all applicable Federal, State, and local statues, ordinances, regulations, including the State Water Resources Control Board (SWRCB), the Regional Water Quality Control Board (RWQCB), the Department of Public Health (DPH), and the City of Ontario Recycled Water Use Ordinance No. 2689 and Uniform Plumbing Code.
3. Design of the recycled water system shall be separate and independent of any potable water system. Cross connections between potable water systems and recycled water systems are prohibited.
4. Recycled water piping shall be purple PVC manufactured for recycled water systems
5. Identifications shall appear continuously on two sides of the purple PVC pipe including :
 - A. Note “Caution Recycled Water – Do Not Drink” and “Avisa Agua Impura – No Tomar”
 - B. Nominal pipe size
 - C. PVC-1120
 - D. Pressure rating in pounds per square inch at 73 degrees
 - E. ASTM designations; 1785,2241,2672,3139.
6. All recycled water valves, controllers and all appurtenances shall have identification tags.
 - A. Weatherproof plastic

- B. 3"x4" purple colored tags
 - C. Note "Recycled water Do Not Drink Aviso Agua Impura No Tomar" on one side and valve number on the other side.
 - D. Imprinting shall be permanent and black in color.
 - E. Controller shall display a purple sticker stating "Attention Controller unit for recycled water" in English and in Spanish when system is currently running with recycled water.
 - F. Pipe under streets shall be sleeved and identified with marking tape installed 12" below the surface extending 12" beyond the curb on each side identifying the type of line with APWA standard "Caution recycled waterline buried below" in purple. Sleeves shall be Schedule 40 PVC, two times the diameter of the pipe being sleeved.
7. All new common areas where recycled water is used and are accessible to the general public shall be posted with conspicuous signs, white lettering on purple background; color Pantone 512.
- A. At major visible locations, including at all property entrances and outdoor dining areas, signs no less than 12 inches high by 18 inches wide stating, "FOR WATER CONSERVATION THIS PROPERTY IS IRRIGATED WITH RECYCLED WATER. DO NOT DRINK", in English and in Spanish.
 - B. Each sign shall also display an international symbol conveying the same warning.
8. All pressure main line piping from the recycled water system shall be installed to maintain 4 feet (4') minimum horizontal separation from all potable water piping.
- A. Where recycled and potable water pressure main line piping cross, the recycled water piping shall be installed below the potable water piping, in a Schedule 40 purple PVC sleeve which extends a minimum of 5 feet on either side of the potable water piping.

- B. Provide a minimum vertical clearance of 12-inches
 - C. Conventional (white) PVC pipe may be used for sleeving material if it is taped with 3-inch wide purple warning tape which reads "Caution Recycled Water."
 - D. Potable and recycled water irrigation lines shall not be installed in the same trench.
 - E. Retrofit sites may have recycled pipe installed above potable water pipe but must be sleeved and must meet all other requirements.
9. All recycled water systems shall have a normally off master valve.
10. On-site recycled water irrigation systems shall be designed to provide a physical separation between adjacent areas irrigated with potable water.
- A. The means of separation shall be provided by a wall or fence or a distance of four feet (4') with a center mow curb (2' on each side of mow curb for spray irrigation, 12" each side if drip irrigation), or other approved means.
 - B. Where a physical separation is used, it shall be shown on the landscape irrigation plans.
11. Adjust spray heads to eliminate overspray and runoff.
- A. Appropriate sprinklers, bubblers, emitters, rotors, etc., shall be used to confine the discharge to the approved use areas.
 - B. Modify spray patterns that discharge onto obstructions that tend to concentrate water resulting in ponding and/or runoff.
12. Drinking fountains and dining areas shall be designed to be protected from the spray of recycled water.
13. Landscape irrigation within pool area enclosures shall be designed for potable water.
14. Hose bibbs shall not be included in the design of recycled water systems.
- A. Quick couplers used for recycled water shall be acme thread. If potable irrigation is used on same property, potable quick couplers

shall be the standard quick coupler attachment and not acme thread.

B. A quick coupler shall be installed in a valve box after the water meter on rigid pipe prior to the master valve or pressure reducing valve for purposes of testing the system.

15. The irrigation system has been designed to operate between the hours of 9 p.m. and 6 a.m.
16. Irrigation backflow devices on potable water for future recycled water shall be painted green with a purple recycled water tag attached that states "Future recycled water".
17. Irrigation systems shall be served by only one water meter each.
18. Record drawings for City of Ontario owned or maintained systems shall be prepared and provided to the City of Ontario, Engineering Department and shall show all changes in the work constituting departures from the original recycled water irrigation or improvement plans including those involving both pressure and non-pressure line and appurtenances. All design changes shall be approved by the City on the recycled water irrigation plans before implementing the change during construction. Failure to receive prior approval will result in repeating the work or termination of services.
19. An inspection of the on-site system by the City is required to ensure that overspray and runoff is in compliance with the City's Recycled Water Use Ordinance. The landscape contractor, owner or developer shall contact the City and arrange for inspections.
20. Irrigation mainline piping inspection shall be scheduled prior to backfilling trenches. Call for Utilities Department inspection 48 hrs in advance at (909) 395-2669.
21. Landscape and irrigation inspection shall be scheduled when installation is complete. Call for Landscape Planning inspection 48 hrs in advance at (909) 395-2237.

22. The Landscape Contractor shall be in attendance for the test and have persons capable of making system adjustments. The owner/developer will be notified in writing of any changes required other than minor corrections.
23. To avoid termination of service, the modifications shall be made in a timely manner and are the responsibility of the owner or developer to pay all costs associated with such modifications.
24. Failure to comply with any or all of the above guidelines will place the system in violation of the City of Ontario Recycled Water Use Ordinance, and will result in termination of service until the appropriate corrective measures have been taken.

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