



City of Pico Rivera
Community & Economic Development Department
6615 Passons Blvd., Pico Rivera, CA 90660-1016
Phone: (562) 801-4332, Fax: (562) 949-0280
Hours: M-F 7:30-5:30, Closed every other Friday

WATER EFFICIENT LANDSCAPE DOCUMENTATION PACKAGE SUBMITTAL REQUIREMENTS

Compliance with the City's Water Efficient Landscape Ordinance is required for the following projects:

Type of Project	Type of Use	Landscape Area
New construction and rehabilitated landscapes projects requiring a building or landscape permit, plan check, or design review.	Non-Residential	2,500 square feet or greater
Developer installed new construction and rehabilitated landscapes projects requiring a building or landscape permit, plan check, or design review.	Residential	2,500 square feet or greater
Home-owner installed new construction requiring a building or landscape permit, plan check, or design review.	Residential	5,000 square feet or greater

Exceptions:

- Existing landscapes that are one acre or greater are limited to preparing a water efficient landscape worksheet pursuant to the specifications for existing landscapes in the Landscape Documentation Package.
- New and rehabilitated cemeteries shall prepare a water efficient landscape worksheet, landscape irrigation maintenance schedule, and irrigation audit, survey and water use analysis.
- Existing cemeteries are limited to preparing a water efficient landscape worksheet according to the specifications for existing landscapes in the Landscape Documentation Package.
- Special Landscaped areas shall prepare a water efficient landscape worksheet and Landscape Documentation Package according to the specifications for Special Landscape Areas.
- The adopted regulations do not apply to:
 - Registered local, state or federal historical sites;
 - Ecological restoration projects that do not require permanent irrigation system;
 - Mined-land reclamation projects that do not require a permanent irrigation system; or
 - Botanical gardens and arboretums open to the public.



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General Requirements

1. All drawings shall be stapled together and folded to approximately 8.5" x 11" with the title block showing. Include one 8.5" x 11" reduced set. All plans must be drawn to standard scale.
2. Provide CD with electronic copy of all documents, drawings, studies, etc. (PDF format).
3. The minimum size of drawings is 24" x 36" unless otherwise indicated or approved by the Planning Division.
4. All material should indicate the preparer's name, application number, project address, assessors parcel number and date.

Landscape Concept Plan

The Landscape Documentation Package must be prepared by a licensed landscape architect and shall include:

1. Submittal of completed Project Information Form.
2. Submittal of completed Water Efficient Landscape Worksheet.
3. Design statement, irrigation notes, planting notes, conceptual plant palette, and identification of hydrozones.
4. Legend listing the common and botanical plant names, total quantities by container size, and species.
5. Maximum Allowed Water Allowance (MAWA) circulation for the landscape project area (including water features).
6. Estimated Total Water Usage (ETWU) calculation for the landscape project area.
7. Hydrozone information table.

Irrigation Plan

1. Location and size of separate water meters for landscape (separate and dedicated meter required for all projects greater than 5,000 square feet, except single family residence).
2. Location, type and size of all components of the irrigation system, including controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators, and backflow prevention devices.
3. Static water pressure at the point of connection to the public water supply.
4. Flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station.
5. Connection to reclaimed water system if subject property is located within 150-feet of a public reclaimed water distribution system.
6. Irrigation system shall include a SMART irrigation controller, backflow prevention device, and a rain sensor with automatic rain shut off feature.



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Planting Plan

1. Description of any existing plant material to be retained or removed.
2. Plan showing planting areas, hydrozones, plant spacing, plant location, plant size, natural features, water features, and all paved areas.
3. Legend listing the common and botanical plant names, total quantities by container size, and species.
4. Description of the seed mixes with application rates and relevant germination specifications.

Soil Management Plan

1. Soil texture.
2. Infiltration rate determined by laboratory test or soil texture infiltration rate table.
3. pH.
4. Total soluble salts.
5. Sodium.
6. Percent organic matter.
7. Recommendations.

Water Management Plan

1. Statement of site conditions.
2. Identification of party or parties responsible for implementation of the Water Management Plan.
3. Anticipated water requirements in inches per year, and water budget for each hydrozone.
4. Description of water delivery system, including the type of irrigation system to be used; water conservation methods to be applied; and precipitation rates for each hydrozone. Include calculations demonstrating an overall water budget that requires no more irrigation than 0.7 of the evapotranspiration (ET_o) rate.
5. Seasonal irrigation water schedules or procedures for programming of proposed SMART controllers.
6. Irrigation system maintenance plan.

Certificate of Completion

The Certificate of Completion shall be submitted by the Applicant upon completion of the landscape project. The Certificate of Completion shall be accompanied by the Irrigation Schedule and Schedule of Landscape & Irrigation Maintenance.

Landscape Irrigation Audit Report

The Public Works Department may require the preparation of an Irrigation Audit at any time and at the property owner's expense to demonstrate that the landscaping conforms to MAWA.



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WATER EFFICIENT PROJECT INFORMATION FORM

Date _____

Project Name _____

Project Address _____

APN, Tract or Lot # _____

Applicant Name _____

Applicant Address _____

Applicant Phone _____ Alt. Phone _____

Applicant Email _____

Owner Name _____

Owner Address _____

Owner Phone _____ Alt. Phone _____

Owner Email _____

Primary Contact Applicant Owner

Applicant Compliance Statement

“I agree to comply with the requirements of the water efficient landscape ordinance and submit a Landscape Documentation Package. I understand that the certificate of completion must be approved by the City prior to Certificate of Occupancy Approval.”

 Applicant Signature

 Date

Landscape Documentation Package Checklist:

- | | | | |
|-------------------------------------|--------------------------|--|--------------------------|
| Project Information Form | <input type="checkbox"/> | Water Management Plan | <input type="checkbox"/> |
| Water Efficient Landscape Worksheet | <input type="checkbox"/> | Grading Plan (for reference) | <input type="checkbox"/> |
| Landscape Concept Plan | <input type="checkbox"/> | Certificate of Completion | <input type="checkbox"/> |
| Irrigation Plan | <input type="checkbox"/> | Irrigation Schedule | <input type="checkbox"/> |
| Planting Plan | <input type="checkbox"/> | Schedule of Landscape & Irrigation Maintenance | <input type="checkbox"/> |
| Soil Management Plan | <input type="checkbox"/> | | |



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PROJECT INFORMATION FORM

Project Type (circle one):

Commercial Industrial Institutional Public or community facility
Single Family Residential Multi-Family Residential Mixed-Use
Other _____

Water Supply Type (circle one):

Potable Water Recycled Water Gray Water Groundwater or Well Water
Mixed Use Other _____

Water Purveyor: _____

Total Landscape Area: _____



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WATER EFFICIENT LANDSCAPE WORKSHEET

Hydrozone Table

Hydrozone*	Zone or Valve	Irrigation Method**	Area (Sq. Ft.)	% of Landscape Area
Total				

Hydrozone Summary Table

Hydrozone*	Area (Sq. Ft.)	% of Landscape Area
High Water Use Plants		
Moderate Water Use Plants		
Low Water Use Plants		
Total		

*Hydrozone: HW = High Water Use Plants, MW = Moderate Water Use Plants, LW = Low Water Use Plants

**Irrigation Method: MS = Micro-spray, S = Spray, R = Rotor, B= Bubbler, D= Drip, O = Other



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WATER EFFICIENT LANDSCAPE WORKSHEET

Maximum Applied Water Allowance (MAWA)

The project's Maximum Applied Water Allowance shall be calculated using this equation:

$$\text{MAWA} = (\text{ETo}) (0.62) [(0.7 \times \text{LA}) + (0.3 \times \text{SLA})]$$

where:

MAWA = Maximum Applied Water Allowance (gallons per year)

ETo = 50.1 for Los Angeles area

0.7 = ET Adjustment Factor (ETAF)

LA = Landscaped Area includes Special Landscape Area (square feet)

0.62 = Conversion factor (to gallons per square foot)

SLA = Portion of the landscape area identified as Special Landscape Area (square feet)

0.3 = the additional ET Adjustment Factor for Special Landscape Area (1.0 - 0.7 = 0.3)

Maximum Applied Water Allowance = _____ gallons per year

Show calculations:

Effective Precipitation (Eppt)

If considering Effective Precipitation, use 25% of annual precipitation. Use the following equation to calculate Maximum Applied Water Allowance:

$$\text{MAWA} = (\text{ETo} - \text{Eppt}) (0.62) [(0.7 \times \text{LA}) + (0.3 \times \text{SLA})]$$

Maximum Applied Water Allowance = _____ gallons per year

Show calculations:



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WATER EFFICIENT LANDSCAPE WORKSHEET

Estimated Total Water Use (ETWU)

The project's Estimated Total Water Use is calculated using the following formula:

$$ETWU = (ETo)(0.62) \left(\frac{PF \times HA}{IE} + SLA \right)$$

where:

ETWU = Estimated total water use per year (gallons per year)

ETo = Reference Evapotranspiration (inches per year)

PF = Plant Factor from WUCOLS (see Definitions)

HA = Hydrozone Area [high, medium, and low water use areas] (square feet)

SLA = Special Landscape Area (square feet)

0.62 = Conversion Factor (to gallons per square foot)

IE = Irrigation Efficiency (minimum 0.71)

Estimated Total Water Use = _____ gallons

Show calculations:



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WATER EFFICIENT LANDSCAPE CERTIFICATE OF COMPLETION

This certificate is to be completed and signed by a licensed landscape architect upon completion of the landscape project.

Project Name _____
 Project Address _____
 APN, Tract or Lot # _____
 Landscape Architect _____
 Address _____
 Phone _____ Alt. Phone _____
 Email _____
 License # _____
 Owner Name _____
 Owner Address _____
 Owner Phone _____ Alt. Phone _____
 Owner Email _____

Certification Statement

“I certify that the landscape project has been installed in accordance with the approved Landscape Documentation Package, the SMART irrigation controller has been set according to the irrigation schedule, the irrigation system has been adjusted to maximize irrigation efficiency and eliminate over-spray and run-off, and a copy of the irrigation schedule has been given to the property owner.”

 Landscape Architect Signature Date

CITY USE ONLY

Approved: _____ Denied: _____ By: _____ Date: _____
 Copy of COC sent to: _____ Public Works: _____ Water District: _____ Date: _____