

Water Efficient Landscape Ordinance Applicability & Submittal Guidelines

Applicability:

Effective December 1, 2015, this ordinance shall apply to the following projects:

- New construction projects with an aggregate landscape area equal to or greater than 500 square feet requiring a building or landscape permit, plan check or design review.
- Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check or design review.
- Existing landscapes limited to Sections 493, 493.1 and 493.2
- Cemeteries

Exemptions:

- Registered local, state or federal historical sites
- Ecological restoration projects that do not require a permanent irrigation system
- Mined-land reclamation projects that do not require a permanent irrigation system
- Existing plant collections as part of botanical gardens and arboretums open to the public

Landscape Documentation Package Submittal Requirements:

Approval of a complete landscape package is required prior to construction of any landscape. Submittal requirements are summarized below. Please refer to the Model Water Efficient Landscape Ordinance for a complete list of submittal requirements.

- Water Efficient Landscape Worksheet
- Soil Management Report (*if significant mass grading is not planned, the soil analysis report shall be submitted as part of the Landscape Documentation Package*)
- Landscape Design Plan
- Irrigation Design Plan
- Prescriptive Compliance Option (Any project with an aggregate landscape area of 2,500 square feet or less OR projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2,500 square feet of landscape and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with treated or untreated graywater or through stores rainwater captured on site)

Certificate of Completion Package:

At the completion of the project, a Certificate of Completion Package is required. Submittal requirements are summarized below. Please refer to the Model Water Efficient Landscape Ordinance for a complete list of submittal requirements.

- Part 1/Certificate of Completion *(included in the attached Landscape Documentation Package)*
- Part 2/Certificate of Installation *(included in the attached Landscape Documentation Package)*
- Part 3/Irrigation Scheduling
- Part 4/Schedule of Landscape & Irrigation Maintenance
- Part 5/Landscape Audit Report (to be conducted by a third party certified landscape irrigation auditor)
- Part 6/Soil Management Report *(if significant mass grading is planned, the soil analysis report shall be submitted as part of the Certificate of Completion)*

Internet References:

Please refer to the below noted web sites to assist in the preparation of the Landscape Documentation Package:

Reference	Web Location
Model Water Efficient Landscape Ordinance (Effective December 1, 2015)	http://www.water.ca.gov/wateruseefficiency/landscapeordinance
WUCOLS III – Water Use Classification of Landscape Species published by the University of California Cooperative Extension and the Department of Water Resources; August 2014	http://ucanr.edu/sites/WUCOLS



City of Rocklin

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Planning Division

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Water Efficient Landscape Worksheet – Appendix B

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package

Reference Evapotranspiration (ETo): 52.2

Hydrozone # /Planting Description ^a	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (sq, ft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^e
Regular Landscape Areas							
				Totals	(A)	(B)	
Special Landscape Areas							
				1			
				1			
				1			
				Totals	(C)	(D)	
						ETWU Total	
						Maximum Allowed Water Allowance (MAWA)^e	

^a**Hydrozone #/Planting Description**
E.g
1.) front lawn
2.) low water use plantings
3.) medium water use planting

^b**Irrigation Method**
overhead spray
or drip

^c**Irrigation Efficiency**
0.75 for spray head
0.81 for drip

^d**ETWU (Annual Gallons Required) =**
 $Eto \times 0.62 \times ETAF \times Area$
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

^e**MAWA (Annual Gallons Allowed) =** $(Eto) (0.62) [(ETAF \times LA) + ((1-ETAF) \times SLA)]$
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

ETAF Calculations

Regular Landscape Areas

Total ETAF x Area	(B)
Total Area	(A)
Average ETAF	B ÷ A

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas

Total ETAF x Area	(B+D)
Total Area	(A+C)
Sitewide ETAF	(B+D) ÷ (A+C)



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CERTIFICATE OF COMPLETION – Appendix C (Part 1)

This certificate is filled out by the project applicant upon completion of the landscape project.

PART 1. PROJECT INFORMATION SHEET

Date		
Project Name		
Name of Project Applicant		Telephone No.
		Fax No.
Title	Email Address	
Company	Street Address	
City	State	Zip Code

Project Address and Location:

Street Address		Parcel, Tract or Lot #, if applicable
City		Latitude/Longitude (optional)
State	Zip Code	

Property Owner or his/her Designee:

Name		Telephone No.
		Fax No.
Title	Email Address	
Company	Street Address	
City	State	Zip Code

Property Owner

I/we certify that I/we have received copies of all the documents within the Landscape Documentation Package and the Certificate of Completion and that it is our responsibility to see that the project is maintained in accordance with the Landscape and Irrigation Maintenance Schedule.

 Property Owner Signature

 Date

Please answer the questions below:

1. Date the Landscape Documentation Package was submitted to the local agency _____
2. Date the Landscape Documentation Package was approved by the local agency _____
3. Date that a copy of the Water Efficient Landscape Worksheet (including the Water Budget Calculation) was submitted to the local water purveyor _____



CERTIFICATE OF INSTALLATION – Appendix C (Part 2)

PART 2. CERTIFICATE OF INSTALLATION ACCORDING TO THE LANDSCAPE DOCUMENTATION PACKAGE

“I/we certify that based upon periodic site observations, the work has been completed in accordance with the ordinance and that the landscape planting and irrigation installation conform with the criteria and specifications of the approved Landscape Documentation Package.”

Signature*	Date	
Name (print)	Telephone No.	
	Fax No.	
Title	Email Address	
License No. or Certificate No.		
Company	Street Address	
City	State	Zip Code

Job Address: _____ Lot #: _____ BP #: _____

*Signer of the landscape design plan, signer of the irrigation plan, or a licensed landscape contractor.

PART 3. IRRIGATION SCHEDULING

Attach parameters for setting the irrigation schedule on controller per ordinance Section 492.10.

PART 4. SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE

Attach schedule of Landscape and Irrigation Maintenance per ordinance Section 492.11.

PART 5. LANDSCAPE IRRIGATION AUDIT REPORT

Attach Landscape Irrigation Audit Report per ordinance Section 492.12.

PART 6. SOIL MANAGEMENT REPORT

Attach soil analysis report, if not previously submitted with the Landscape Documentation Package per ordinance Section 492.6.

Attach documentation verifying implementation of recommendations from soil analysis report per ordinance Section 492.6.



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Prescriptive Compliance Option – Appendix D

- (a) This appendix contains prescriptive requirements which may be used as a compliance option to the Model Water Efficient Landscape Ordinance
- (b) Compliance with the following items is mandatory and must be documented on a landscape plan in order to use the prescriptive compliance option:
 - (1) Submit a Landscape Documentation Package which includes the following elements:
 - (A) Date
 - (B) Project applicant
 - (C) Project address (if applicable, parcel and/or lot number(s))
 - (D) Total landscape area (square feet) including a breakdown of turf and plant material
 - (E) Project type (e.g., new, rehabilitated, public, private, cemetery, homeowner-installed)
 - (F) Water supply type (e.g., potable, recycled, well) and identify the local retail water purveyor if the applicant is not served by a private well
 - (G) Contact information for the project applicant and property owner
 - (H) Applicant signature and date with statement, “I agree to comply with the requirements of the prescriptive compliance option to the MWELO”.
 - (2) Incorporate compost at a rate of at least four cubic yards per 1,000 square feet to a depth of six inches into landscape area (unless contra-indicated by a soil test);
 - (3) Plant material shall comply with all of the following:
 - (A) For residential areas, install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 75% of plant area excluding edibles and areas using recycled water; For non-residential areas, install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 100% of the plant area excluding edibles and areas using recycled water;
 - (B) A minimum three inch (3”) layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated.
 - (4) Turf shall comply with all of the following:
 - (A) Turf shall not exceed 25% of the landscape area in residential areas and there shall be no turf in non-residential areas;
 - (B) Turf shall not be planted on sloped areas which exceed a slope of 1 foot vertical elevation change for every 4 feet of horizontal length;
 - (C) Turf is prohibited in parkways less than 10 feet wide, unless the parkway is adjacent to a parking strip and used to enter and exit vehicles. Any turf in

parkways must be irrigated by sub-surface irrigation or by other technology that creates no overspray or runoff.

- (5) Irrigation systems shall comply with the following:
 - (A) Automatic irrigation controllers are required and must use evapotranspiration or soil moisture sensor data and utilize a rain sensor.
 - (B) Irrigation controllers shall be of a type which does not lose programming data in the event the primary power source is interrupted.
 - (C) Pressure regulators shall be installed on the irrigation system to ensure the dynamic pressure of the system is within the manufacturers recommended pressure range.
 - (D) Manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) shall be installed as close as possible to the point of connection of the water supply.
 - (E) All irrigation emission devices must meet the requirements set in the ANSI standard, ASABE/ICC 802-2014. "Landscape Irrigation Sprinkler and Emitter Standard," All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.
 - (F) Areas less than 10 feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no runoff or overspray.
- (6) For non-residential projects with landscape areas of 1,000 square feet or more, a private submeter(s) to measure landscape water use shall be installed.
- (c) At the time of final inspection, the permit applicant must provide the owner of the property with a certificate of completion, certificate of installation, irrigation schedule and a landscape and irrigation maintenance.

The ASABE/ICC 802-2014 Landscape Irrigation Sprinkler and Emitter Standard is available at the ICC Online Store (see below link) or by contacting ASABE at 800-695-2723.

<http://www.iccsafe.org/about-icc/periodicals-and-newsroom/icc-and-asabe-announce-new-landscape-irrigation-sprinkler-standard/>