



CITY OF GARDEN GROVE
COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT
11222 ACACIA PARKWAY
GARDEN GROVE, CA 92840
PLANNING DIVISION (714) 741-5312 | BUILDING DIVISION (714) 741-5307
www.ci.garden-grove.ca.us

LANDSCAPE WATER EFFICIENCY PLAN CHECK SUBMITTAL REQUIREMENTS

The requirements to submit a landscape project to the City of Garden Grove for plan check review are listed below. Please review the checklist and contact the Planning Division at (714) 741-5312 for questions regarding zoning requirements, or the Building Services Division at (714) 741-5307 for questions regarding plan check requirements. Prior to submitting a Landscape Documentation Package to the City, the property owner/applicant is encouraged to contact the Planning Services Division to verify if the proposed landscape project complies with all applicable Landscape Water Efficiency Provisions.

PLEASE PROVIDE <u>ALL</u> OF THE FOLLOWING INFORMATION:	
<input type="checkbox"/> Completed Landscape Documentation Package Application	<input type="checkbox"/> Three (3) sets of plans (<i>see Plan Requirement section</i>) on 24" x 36"
<input type="checkbox"/> One (1) set of plans on 8.5" x 11"	<input type="checkbox"/> Certification of Design in accordance with Landscape Water Efficiency Provisions - on 8.5" x 11"
<input type="checkbox"/> Certification of Completion in accordance with Landscape Water Efficiency Provisions - on 8.5" x 11"	<input type="checkbox"/> Irrigation audit report from a certified landscape irrigation auditor - on 8.5" x 11"
<input type="checkbox"/> Landscape and irrigation maintenance schedule(s) - on 8.5" x 11"	<input type="checkbox"/> Documentation of the irrigation scheduling parameters used to set the controller(s) - on 8.5" x 11"

PLAN REQUIREMENTS

PLANS SHALL INCLUDE ALL APPLICABLE INFORMATION AS DESCRIBED BELOW

- ☐ **Landscape Design Plan-** The landscape plan shall be fully dimensioned and drawn to scale, and shall include a north arrow, property lines, a street centerline and/or face of curb, all existing and proposed structures, and hardscapes and materials. All plant species and hydrozones shall be indicated with appropriate water use levels and mulch application depths. Also indicate any additional spaces, such as water features, recreational areas, and retention/infiltration technologies.
- ☐ **Irrigation Design Plan-** Identify the 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. Additionally note the static and operating water pressures, flow and application rates, irrigation schedule parameters necessary to program timers.
- ☐ **Maximum Applied Water Allowance & Estimated Applied Water Use-** Calculate the estimated and maximum water use in gallons per square foot for the project using **Appendix C** in the Landscape Water Efficiency Provisions, with an evapotranspiration rate of 47.2.
- ☐ **Grading Design Plan-** Indicate finished configurations and elevations of landscape area, including: heights of graded slopes, drainage patterns, pad elevations, finish grade, and any applicable storm water retention improvements.
- ☐ **Soil Management Report and/or Specifications-** The soil management report or provisions must be conducted in accordance with certified agronomic soils laboratory specifications. Soil analysis includes: soil texture, infiltration rate, pH, total soluble salts, sodium, percent organic matter, and landscape recommendations.

LANDSCAPE PROJECT TIMELINE		RESPONSIBLE PARTY
<input type="checkbox"/>	Soil Management Report -Conducted in accordance with certified agronomic soils laboratory	Applicant
<input type="checkbox"/>	Preparation of Plans -Soil Management Report recommendations to advise the landscape design, and plant selection	Applicant
<input type="checkbox"/>	Landscape Documentation Package -All required documents listed in the Landscape Documentation Package application/checklist must be included	Applicant
<input type="checkbox"/>	Plan Check	Staff
<input type="checkbox"/>	Plan Check Corrections and Resubmittal -Applicant must make all noted corrections before resubmitting plans	Applicant
<input type="checkbox"/>	Approval and Issuance of Permits	Staff
<input type="checkbox"/>	Notification of Installation -Applicant shall notify the City at the beginning of the installation work and at intervals, as necessary, to schedule all required inspections.	Applicant
<input type="checkbox"/>	Installation	Applicant
<input type="checkbox"/>	Irrigation Audit -An Irrigation Audit, also known as an Irrigation Inspection Affidavit, must be completed by a third-party Certified Landscape Irrigation Auditor. Audits may not be completed by the party responsible for the design/installation of the landscape.	Applicant/Third-Party Auditor
<input type="checkbox"/>	Final Inspection and Permit Closure -Landscape Installation Certificate of Completion, irrigation controller schedule, maintenance schedule, and Irrigation Audit/Irrigation Inspection Affidavit must be submitted by the applicant at the time of Final Inspection, before Permit Closure	Staff
<input type="checkbox"/>	Maintenance -Landscapes maintained to ensure water use efficiency in accordance with maintenance schedule, and applicable Municipal Code provisions	Applicant

Project Characteristics		Landscape Water Efficiency Provisions
<input type="checkbox"/>	New landscape projects with an <i>aggregate</i> landscape area ≥ 500 sqft, requiring a building or landscape permit, plan check or design review	Required
<input type="checkbox"/>	Rehabilitated landscape projects with an <i>aggregate</i> landscape area $\geq 2,500$ sqft, requiring a building or landscape permit, plan check or design review	Required
<input type="checkbox"/>	New or rehabilitated landscape projects with an <i>aggregate</i> landscape area between 500 and 2,500 sqft, requiring a building or landscape permit, plan check or design review	Landscape Water Efficiency Provisions, OR Prescriptive Compliance (Appendix A)
<input type="checkbox"/>	New or rehabilitated projects using treated or untreated <i>graywater</i> or rainwater capture onsite, any lot or parcel within the project that is $< 2,500$ sqft of landscape area and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with treated or untreated <i>graywater</i> or though stored rainwater capture onsite	Prescriptive Compliance (Appendix A) only
<input type="checkbox"/>	Landscape rehabilitation projects that are limited to replacement plantings with equal or lower water needs and where the irrigation system is found to be designed, operable and programmed consistent with minimizing water waste in accordance with local water purveyor regulations	Landscape Water Efficiency Provisions Guidelines may be partially or wholly waived, at the discretion of the City or its designee
<input type="checkbox"/>	Registered local, state, or federal historical sites	Not required
<input type="checkbox"/>	Ecological restoration projects that do not require a permanent irrigation system	Not required
<input type="checkbox"/>	Mined-land reclamation projects that do not require a permanent irrigation system	Not required
<input type="checkbox"/>	Plant collections, as part of botanical gardens, and arboretums open to the public	Not required



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Landscape Documentation Package

PROJECT INFORMATION:

Project Name:	
Project Address:	
APN:	
Total Landscape Area:	
Water Supply Type:	
Retail Water Purveyor:	

PROJECT TYPE:

<input type="checkbox"/>	New landscape project with an aggregate landscape area \geq 500 sqft
<input type="checkbox"/>	Rehabilitated landscape project with an aggregate landscape area \geq 2,500 sqft
<input type="checkbox"/>	New or rehabilitated landscape between 500 and 2,500 sqft

PROJECT DESCRIPTION:

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PROJECT APPLICANT:

PROPERTY OWNER(S):

Name:	Name:
Address:	Address:
City, State, Zip:	City, State, Zip:
Phone:	Phone:
Email:	Email:

LANDSCAPE DOCUMENTATION PACKAGE CHECKLIST:

<input type="checkbox"/>	Certification of Design
<input type="checkbox"/>	Water Efficient Landscape Worksheet -With Estimated Applied/Total Water Use (EAWU/ETWU), and Maximum Allowed Water Allowance (MAWA)
<input type="checkbox"/>	Soil Management Report or Specifications -Or Specification Provision requiring soil testing, and amendment recommendations and implementation to be accomplished during construction.
<input type="checkbox"/>	Landscape Design Plan
<input type="checkbox"/>	Irrigation Design Plan
<input type="checkbox"/>	Grading Design Plan -Grading plan is not required if grading is included in the landscape plan, OR the landscape project is limited to replacement planting and/or irrigation to rehabilitate existing landscape.

OFFICE USE ONLY:

Date Submitted for Plan Check: _____	Action: <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____
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Landscape Documentation Package (Prescriptive Compliance)

PROJECT INFORMATION:

Project Name:	
Project Address:	
APN:	
Total Landscape Area:	
Water Supply Type:	
Retail Water Purveyor:	

PROJECT TYPE:

<input type="checkbox"/>	New or rehabilitated landscape project with an aggregate landscape area between 500 and 2,500 sqft
<input type="checkbox"/>	New or rehabilitated landscape project < 2,500 sqft irrigated wholly by graywater or captured rainwater

PROJECT DESCRIPTION:

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PROJECT APPLICANT:

PROPERTY OWNER(S):

Name:	Name:
Address:	Address:
City, State, Zip:	City, State, Zip:
Phone:	Phone:
Email:	Email:

APPLICATION REQUIREMENTS:

<input type="checkbox"/>	Landscape Design Plan -Must show all required elements of the Prescriptive Compliance Option to the Landscape Water Efficiency Provisions (Appendix A)
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I agree to comply with the requirements of the prescriptive compliance option (Appendix A) to the Model Water Efficient Landscape Ordinance.

Applicant Signature: _____ Date: _____

OFFICE USE ONLY:

Date Submitted for Plan Check: _____	Action: <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____
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WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and is a required in the Landscape Documentation Package.

Reference Evapotranspiration (ET₀): **47.2 (Garden Grove)**

Hydrozone # /Planting Description ^a	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (sqft)	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					

^aHydrozone #/Planting Description

e.g.

1.) Front lawn

2.) Low water use plantings

3.) Medium water use planting

^bIrrigation Method

e.g.

-Spray Nozzle

-Bubblers

-Drip

^cIrrigation Efficiency

e.g.

=0.71

=0.77

=0.81

^dETWU (Annual Gallons Required)

= ET₀ x 0.62 x ETAF x Area

[where 0.62 is a conversion factor that converts inches per year to gallons per square foot per year]

^eMAWA (Annual Gallons Allowed) = (ET₀) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]

-where 0.62 is a conversion factor that converts inches 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 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)
Site wide ETAF	(B+D) ÷ (A+C)

"Special Landscape Areas" or "SLA" is an area of the landscape dedicated solely to edible plants, areas irrigated with recycled water, water features using recycled water, and areas dedicated to active play such as community pools and spas, parks, sports fields, golf courses, and where turf provides a playing surface.

Irrigation efficiency (IE) of the irrigation heads used within each *hydrozone* shall be assumed to be as follows, unless otherwise indicated by the irrigation equipment manufacturer's specifications or demonstrated by the *project applicant*:

METHOD	IE
Spray Nozzles	71%
High Efficiency Spray Nozzles	73%
Stream Rotor Nozzle	73%
Microspray	76%
Multi-Stream/Trajectory Rotary Nozzles	76%
Bubblers	77%
Drip Emitter	81%
Subsurface Drip	81%

The following Plant Factor (PF) values should be used for each category of water use, unless otherwise demonstrated by the *project applicant*:

WATER-USE CATEGORY	PLANT FACTOR
Very-Low Water-Use Plant	0.1
Low Water-Use Plant	0.2
Moderate Water-Use Plant	0.5
High Water-Use Plant	0.8
Turf/Lawn Water-Use Plant	0.8
Water Features	1.0

Appendix A: Prescriptive Compliance Option

PRESCRIPTIVE COMPLIANCE OPTION CHECKLIST

(A) This appendix contains prescriptive requirements which may be used as a compliance option to the Ordinance.

(B) Compliance with the following items is mandatory, and must be documented in a landscape plan in order to use the prescriptive compliance option:

Requirement:	Complete:
Submit a <i>Landscape Documentation Package (Prescriptive Compliance)</i> form, with all of the following elements: -Date -Project applicant -Project location -Total landscape area (sq.ft.), including a breakdown of plant material -Project type -Water supply type, and identify the water purveyor -Contact information for the project applicant and property owner -Applicant signature and date, with the statement, "I agree to comply with the requirements of the prescriptive compliance option to the MWELD"	<input type="checkbox"/>
Incorporate compost at a rate of at least four (4) cubic yards per 1,000 square feet to a depth of six inches (0'-6") into the landscape area (unless contra-indicated by a soil test).	<input type="checkbox"/>
Plant material shall comply with all of the following: -For residential areas, install climate adapted plants that require occasional, little, or no summer water (average WUCOLS plant factor 0.3) for 75% of the plant area, excluding edible plants 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. -A minimum three inch (0'-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.	<input type="checkbox"/>
Turf shall comply with all of the following: -Turf shall not exceed 25% of the landscape area in residential areas, and turf shall not be planted in non-residential areas. -Turf shall not be planted on sloped areas which exceed a grade of 25%. -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.	<input type="checkbox"/>
Irrigation systems shall comply with the following: -Automatic irrigation controllers are required, and must use evapotranspiration or soil moisture sensor data. -Irrigation controllers shall be of a type which does not lose programming data in the event the primary power source is interrupted. -Pressure regulators shall be installed on the irrigation system to ensure the dynamic pressure of the system is within the manufacturers recommended pressure range. -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. -All irrigation emission devices must meet the requirements set in the ANSI standard, ASABE/ICC802-2014. "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.	<input type="checkbox"/>

(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 schedule of landscape and irrigation maintenance.

Appendix B: Certification of Landscape Design

CERTIFICATION OF LANDSCAPE DESIGN

I hereby certify that:

(1) I am a professional appropriately licensed in the State of California to provide professional landscape design services.

(2) The landscape design and water use calculations for the property located at: _____ (street address or parcel number(s)) were prepared by me or under my supervision.

(3) The landscape design and water use calculations for the identified property comply with the requirements of the City of Garden Grove Landscape Water Efficiency Provisions (See Garden Grove Municipal Code Sections 9.08.040.040, 9.12.040, 9.16.040, and 9.18.120) and the City of Garden Grove Guidelines for Implementation of the City of City of Garden Grove Landscape Water Efficiency Provisions.

(4) The information I have provided in this Certificate of Landscape Design is true and correct and is hereby submitted in compliance with the City of Garden Grove Guidelines for Implementation of the City of City of Garden Grove Landscape Water Efficiency Provisions.

Print Name

Date

Signature

License Number

Address

Telephone Number

E-mail Address

Landscape Design Professional's Stamp
(If Applicable)

Appendix C: Certificate of Completion

LANDSCAPE INSTALLATION CERTIFICATE OF COMPLETION

I hereby certify that:

(1) I am a professional appropriately licensed in the State of California to provide professional landscape design services for: _____ (project name or address).

(2) The landscape project for the property located at: _____
(street address or parcel number(s)) was installed by me or under my supervision.

(3) The landscaping for the identified property has been installed in substantial conformance with the approved Landscape Documentation Package and complies with the requirements of the City of Garden Grove Landscape Water Efficiency Provisions (Municipal Code Sections 9.08.040.040, 9.12.040, 9.16.040, and 9.18.120) and the City of Garden Grove Guidelines for Implementation of the City of Garden Grove Landscape Water Efficiency Provisions for the efficient use of water in the landscape.

(4) The following elements are attached hereto:

- a. Irrigation scheduling parameters used to set the controller(s);
- b. Landscape and irrigation maintenance schedule;
- c. Irrigation audit report; and
- d. Soil analysis report, if not submitted with Landscape Documentation Package, and documentation verifying implementation of the soil report recommendations.

(5) The site installation complies with the following:

a. The required irrigation system has been installed according to approved plans and specifications, and if applicable, any prior approved irrigation system alternatives.

_____ Yes _____ No

b. Sprinklers comply with ASABE/ICC 802-2014 Landscape Irrigation Sprinkler & Emitter Standard.

_____ Yes _____ No

(6) The information I have provided in this Landscape Installation Certificate of Completion is true and correct and is hereby submitted in compliance with the City of Garden Grove Guidelines for Implementation of the City of Garden Grove Landscape Water Efficiency Provisions.

Print Name

Date

Signature

License Number

Address

Telephone Number

E-mail Address

Landscape Design Professional's Stamp
(If Applicable)

Irrigation Audit Checklist

A. Project & Auditor Information

Project Information:	Irrigation Auditor:
Project Name:	Name:
Project Address:	Irrigation Auditor Company:
Permit No:	Address:
Audit Date:	City, State, Zip:
	Phone:
	Email:
	Auditor Certified by: <input type="checkbox"/> Irrigation Association <input type="checkbox"/> EPA WaterSense program <input type="checkbox"/> Other: _____

Note: For large projects or projects with multiple landscape installations (i.e. production home developments), an auditing rate of 1 in 7 lots or approximately 15% satisfies the audit requirement.

B. Audit Report

ITEM	AUDITOR		NOTES
	PASS	FAIL	
1. Separate landscape customer service water meter or private submeter has been installed as applicable:	<input type="checkbox"/>	<input type="checkbox"/>	
a. Non-residential projects: Greater than 1,000 sf landscape area	<input type="checkbox"/>	<input type="checkbox"/>	
b. Residential projects: Greater than 5,000 sf landscape area	<input type="checkbox"/>	<input type="checkbox"/>	
2. The irrigation audit report includes:	<input type="checkbox"/>	<input type="checkbox"/>	
a. System inspection	<input type="checkbox"/>	<input type="checkbox"/>	
b. Inspect for leaks	<input type="checkbox"/>	<input type="checkbox"/>	
c. System tune-up	<input type="checkbox"/>	<input type="checkbox"/>	
d. Test the operating pressure of the irrigation system	<input type="checkbox"/>	<input type="checkbox"/>	
e. Test to determine distribution uniformity	<input type="checkbox"/>	<input type="checkbox"/>	
f. Test to determine precipitation rate of representative overhead irrigation valves	<input type="checkbox"/>	<input type="checkbox"/>	
g. Confirm matched precipitation rates on valves with sprinkler heads, rotors and other emission devices	<input type="checkbox"/>	<input type="checkbox"/>	
h. Report of any overspray or broken irrigation equipment	<input type="checkbox"/>	<input type="checkbox"/>	
i. Report of overspray or run off that causes overland flow	<input type="checkbox"/>	<input type="checkbox"/>	
j. Written recommendations to improve performance of the irrigation system	<input type="checkbox"/>	<input type="checkbox"/>	
k. Preparation of an irrigation schedule, including configuring irrigation controllers with application rate, soil types, plant factors, slope, exposure and any other factors necessary for accurate programming	<input type="checkbox"/>	<input type="checkbox"/>	

C. Irrigation Equipment

ITEM	AUDITOR		NOTES
	PASS	FAIL	
1. Irrigation equipment is installed (location, type and size) as shown in the approved plans:	<input type="checkbox"/>	<input type="checkbox"/>	
a. Automatic controller is ET-based or soil moisture-based and includes:	<input type="checkbox"/>	<input type="checkbox"/>	
I. Irrigation scheduling parameters	<input type="checkbox"/>	<input type="checkbox"/>	
II. Hydrozone map	<input type="checkbox"/>	<input type="checkbox"/>	
b. Sensors installed include rain, frost (if necessary) and wind sensors (if necessary)	<input type="checkbox"/>	<input type="checkbox"/>	
c. Point of connection includes:	<input type="checkbox"/>	<input type="checkbox"/>	
I. Backflow prevention devices (if necessary)	<input type="checkbox"/>	<input type="checkbox"/>	
II. Manual shut-off valve (gate, ball, butterfly valve)	<input type="checkbox"/>	<input type="checkbox"/>	
III. Master shut-off valve	<input type="checkbox"/>	<input type="checkbox"/>	
IV. Flow sensor for landscapes over 5,000 sf only	<input type="checkbox"/>	<input type="checkbox"/>	
d. Valves (station)	<input type="checkbox"/>	<input type="checkbox"/>	
I. Flow rate (gpm)	<input type="checkbox"/>	<input type="checkbox"/>	
II. Application rates (in/hr)	<input type="checkbox"/>	<input type="checkbox"/>	
III. Design operating pressure:	<input type="checkbox"/>	<input type="checkbox"/>	
e. If static pressure is above or below required dynamic pressure of the system, pressure-regulating devices are installed	<input type="checkbox"/>	<input type="checkbox"/>	
2. Main and lateral lines	<input type="checkbox"/>	<input type="checkbox"/>	
3. Sprinkler heads	<input type="checkbox"/>	<input type="checkbox"/>	
a. No spray heads within 24 inches of non-permeable surface	<input type="checkbox"/>	<input type="checkbox"/>	
b. Sprinkler heads and other emission devices have matched precipitation rates	<input type="checkbox"/>	<input type="checkbox"/>	
c. Swing joints or other riser protection provided in high traffic areas and areas near hardscape	<input type="checkbox"/>	<input type="checkbox"/>	
4. Low volume irrigation (drip, drip lines, and bubblers) is used in mulched planting areas (no spray irrigation) and in areas less than 10 feet wide	<input type="checkbox"/>	<input type="checkbox"/>	
5. Slopes greater than 25% are irrigated with an application rate not exceeding 0.75 inches per hour	<input type="checkbox"/>	<input type="checkbox"/>	
6. Runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas are prevented	<input type="checkbox"/>	<input type="checkbox"/>	
7. Check valves or anti-drain valves are installed to prevent low head drainage	<input type="checkbox"/>	<input type="checkbox"/>	
8. Pressure regulating devices are used if the static water pressure at the connection of the public water system does not match the water pressure needs of the irrigation system	<input type="checkbox"/>	<input type="checkbox"/>	

D. Hydrozones

ITEM	AUDITOR		NOTES
	PASS	FAIL	
1. Match on the landscape plan and irrigation plan	<input type="checkbox"/>	<input type="checkbox"/>	
2. Are irrigated by valves with similar site, slope, sun exposure, soil conditions, and plant materials with similar water use	<input type="checkbox"/>	<input type="checkbox"/>	
3. Trees are on separate valves	<input type="checkbox"/>	<input type="checkbox"/>	
4. Biotreatment areas are on separate valves	<input type="checkbox"/>	<input type="checkbox"/>	

E. Water Features

ITEM	AUDITOR		NOTES
	PASS	FAIL	
1. Use recirculating water systems	<input type="checkbox"/>	<input type="checkbox"/>	
2. Use recycled water if available	<input type="checkbox"/>	<input type="checkbox"/>	

F. Irrigation Schedules

ITEM	AUDITOR		NOTES
	PASS	FAIL	
1. Irrigation schedules have been developed, managed, and evaluated to utilize the minimum amount of water required to maintain plant health. Irrigation schedules shall meet the following criteria:	<input type="checkbox"/>	<input type="checkbox"/>	
a. Irrigation scheduling is regulated by automatic irrigation controllers	<input type="checkbox"/>	<input type="checkbox"/>	
b. Overhead irrigation is scheduled between 8:00 p.m. and 10:00 a.m. unless weather conditions prevent it	<input type="checkbox"/>	<input type="checkbox"/>	
c. Irrigation schedules shall be regulated by automatic irrigation controllers using current reference evapotranspiration data (e.g., CIMIS) or soil moisture sensor data	<input type="checkbox"/>	<input type="checkbox"/>	
2. The irrigation schedules have been developed to include the parameters used to set the automatic controller and are submitted for each of the following:	<input type="checkbox"/>	<input type="checkbox"/>	
a. Plant establishment period	<input type="checkbox"/>	<input type="checkbox"/>	
b. Established landscape	<input type="checkbox"/>	<input type="checkbox"/>	
c. Temporarily irrigated areas	<input type="checkbox"/>	<input type="checkbox"/>	
3. Each irrigation schedule includes the following that apply for each station (valve):	<input type="checkbox"/>	<input type="checkbox"/>	
a. Irrigation interval (days between irrigation)	<input type="checkbox"/>	<input type="checkbox"/>	
b. Irrigation run times (hours or minutes per irrigation event to avoid runoff)	<input type="checkbox"/>	<input type="checkbox"/>	
c. Number of cycle starts required for each irrigation event to avoid runoff	<input type="checkbox"/>	<input type="checkbox"/>	
d. Amount of applied water scheduled to be applied on a monthly basis	<input type="checkbox"/>	<input type="checkbox"/>	
e. Application rate setting	<input type="checkbox"/>	<input type="checkbox"/>	
f. Root depth setting	<input type="checkbox"/>	<input type="checkbox"/>	
g. Plant type setting	<input type="checkbox"/>	<input type="checkbox"/>	
h. Soil type	<input type="checkbox"/>	<input type="checkbox"/>	
i. Slope factor setting	<input type="checkbox"/>	<input type="checkbox"/>	
j. Shade factor setting	<input type="checkbox"/>	<input type="checkbox"/>	
k. Irrigation uniformity or efficiency setting	<input type="checkbox"/>	<input type="checkbox"/>	