



Community Development Department
 14000 City Center Dr., Chino Hills, CA 91709
 (909) 364-2740 Fax (909) 364-2795
 www.chinohills.org

LA No.: _____
 Com. Dev. TDA: _____
 Submittal Date: _____

LANDSCAPE PLAN REVIEW

This landscape application shall apply to the following landscape projects pursuant to Chino Hills Municipal Code Chapter 16.07 Landscape and Water Conservation Requirements:

1. New single-family residential 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;
2. 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;
3. 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. "Rehabilitated landscape" means any re-landscaping project.

PROJECT INFORMATION

Project Owner: _____ Phone: _____
 E-mail Address: _____
 Mailing Address: _____
 Project Location: _____
 APN: _____ Tract Number: _____ Lot Number: _____

APPLICANT INFORMATION

Applicant Name: _____ Phone : _____
 E-mail Address: _____

APPLICATION FEE: This is an Actual Cost application. The actual cost for a project is determined according to the time spent by personnel on that project and the associated personnel benefits, department overhead, and other costs incurred for that project. An initial deposit is required at time of application submittal.

SUBMITTAL REQUIREMENTS:

- One (1) copy** of the completed application form.
- Initial Deposit – Landscape Plan Check Review. Refer to the Community Development Fee/Deposit Schedule for the amount.
- One (1) copy** of the Approved Conceptual Landscape Master Plan (for reference).
- One (1) copy** of the Approved Fuel Modification Plan (for reference), if applicable.
- One (1) copy** of the Approved Grading Plan (for reference).
- Three (3)** water management plans.
- Three (3) Sets** of landscape construction plans that include the following:
 - Irrigation plans, including water efficient landscape data and calculations.
 - Lighting plans, if applicable
 - Planting Plans, including soil management report.
 - Hardscape Plans (walls, fences, walkways, monuments etc.)
 - Details and Specifications that pertain to all proposed hardscape, irrigation and planting plan elements.

- Four (4) sets** of plans are required for projects involving public property. Separate plan sets need to be prepared for public and private areas.
 - Irrigation plans, including water efficient landscape data and calculations.
 - Lighting plans, if applicable
 - Planting Plans, including soil management report.
 - Hardscape Plans (walls, fences, walkways, monuments etc.)
 - Details and Specifications that pertain to all proposed hardscape, irrigation and planting plan elements.
- Three (3) sets** of hydraulic calculations.
- Three (3) copies** of the project cost estimate (for projects involving the public right-of-way or on public property).
- Relevant context for in-fill and phased projects as this application relates to surrounding landscape or project as a whole.
- Verification of street tree continuation as the project relates to surrounding landscape.
- Digital copies of all landscape documents in a PDF format.
- Completed Plan Checklist, see below.

PLAN CHECKLIST:

- Architectural plans.
- Grading/drainage plans.
- Parking lot/landscape lighting (commercial only).
- Entire site and project location (commercial only).
- Surrounding landscape plan (commercial only).
- Plans to be drawn to a standard scale, such as ENGINEER'S scale (suggest 1:20 or 1:30) or ARCHITECT'S scale (suggest 1/4" = 1' or 1/8" = 1').
- Provide North arrow.
- Sheet Key map (if two or more sheets):
 - Orient key map to drawings if drawings are all oriented the same direction on the page.
 - Orient key map with north as "up" if drawings on page have different orientations and highlight sheet area on base.
- Provide building numbers, lot numbers, tract numbers, and street address on all plan sheets.
- Miscellaneous lines:
 - Match lines; if match lines divide streets, show match line over street centerline.
 - "Limit of work" lines; show just outside of work area.
 - Utility easement lines; show where indicated on engineer's plans.
 - Phase lines; show on top of division phases.
- Show utilities:
 - Fire hydrants
 - Utility vaults
 - Catch basins
 - Storm drains
 - Street lights
 - Air relief valves
 - Power poles
 - Transformer pads
 - Easements (i.e. sewer and water)
 - All underground utilities
- Show site features:
 - Walks
 - Gate motors
 - Stoops
 - A/C units
 - Site furnishings
 - Mailboxes
 - Retaining Walls
 - Trash enclosures
 - Headers/concrete mow strip
 - Pots
 - Walls/fences/gates
 - Steps
 - Parking stripes
 - Line of sight

Applications and fees are subject to change. Please visit our website for the most current version of this application.

WATER EFFICIENT LANDSCAPE DATA AND CALCULATIONS:

Please complete Sections A and B.

SECTION A: HYDROZONE INFORMATION TABLE

Please complete the hydrozone table(s) for each hydrozone. Use as many tables as necessary to provide the square footage of landscape area per hydrozone.

Hydrozone*	Zone or Valve	Irrigation Method**	Area (Sq. Ft.)	% of Landscape Area
	TOTAL:			100%

*** 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

SECTION B. WATER EFFICIENT LANDSCAPE WORKSHEET:

MAXIMUM APPLIED WATER ALLOWANCE (MAWA)

The project's Maximum Applied Water Allowance shall be calculated using the following formula:

$$\text{MAWA} = (\text{ETo}) (0.62) [(\text{ETAF} \times \text{LA}) + ((1-\text{ETAF}) \times \text{SLA})]$$

where:

MAWA = Maximum Applied Water Allowance, in gallons per year

ETo = Reference Evapotranspiration for Chino Hills is 54.6 inches per year

0.62 = Conversion factor (to gallons per square foot)

ETAF = ET Adjustment Factor (ETAF), 0.55 for residential projects and 0.45 for commercial projects

LA = Landscaped Area includes Special Landscape Area (SLA), in square feet

SLA = Portion of the landscape area identified as Special Landscape Area, in square feet

ESTIMATED TOTAL WATER USE (ETWU)

The project's Estimated Total Water Use shall be calculated for each hydrozone using the following formula:

$$\text{ETWU} = (\text{ETo}) (0.62) (\text{ETAF}) (\text{LA}), \text{ for regular landscape areas}$$

And/Or

$$\text{ETWU} = (\text{ETo}) (0.62) (\text{ETAF}) (\text{SLA}), \text{ for special landscape areas}$$

where:

ETWU = Estimated Total Water Use, in gallons per year

ETo = Reference Evapotranspiration for Chino Hills is 54.6 inches per year

0.62 = Conversion Factor (to gallons per square foot)

ETAF = ET Adjustment Factor (ETAF) is the Plant Factor (PF) divided by the Irrigation Efficiency factor (IE) for each hydrozone.

The ETAF for Special Landscape Areas is 1.0 and the ETAF for existing non-rehabilitated landscapes is assumed at 0.8.

PF = Plant Factor for each hydrozone. The plant classification of very low, low, moderate, or high water use shall be according to WUCOLS, the associated plant factor ranges are listed below:

- 0.0 – 0.1 Very low water use
- 0.1 – 0.3 Low water use
- 0.4 – 0.6 Moderate water use
- 0.7 – 1.0 High water use

IE = Irrigation Efficiency for each hydrozone

- 0.75 for overhead irrigation
- 0.81 for drip irrigation

LA = Landscaped Area of each hydrozone, in square feet

SLA = Special Landscape Area, in square feet

WATER EFFICIENT LANDSCAPE WORKSHEET

Reference ETo to be used for Chino Hills **ETo=** 54.6

Estimated Total Water Use (ETWU):

ETWU is calculated using the following formula: $(Eto) (.62) (ETAF) (LA)$ where ETWU ETAF is PF/IE

Hydrozone # / Planting Description	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Landscape Area	Estimated Total Water Use (ETWU) gallons/yr
Regular Landscape Areas							
HZ#							
HZ#							
HZ#							
HZ#							
HZ#							
HZ#							
				Totals	(A)	(B)	
Special Landscape Areas							
HZ#				1			
HZ#				1			
HZ#				1			
				Totals	(C)	(D)	
Estimated Total Water Use in gallons per year, ETWU Total							
Maximum Annual Water Allowance in gallons per year, MAWA Total							
MAWA calculation: $(Eto) (.62) [(ETAF \times LA) + ((1-ETAF) \times SLA)]$							
MAWA - ETWU=							

where non-residential MAWA ETAF is 0.45 and residential MAWA ETAF factor is 0.55

must be a positive number

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 0.45 or below for non-residential areas and 0.55 or below for residential areas.

All Landscape Areas

Total ETAF x Area	(B+D)
Total Landscape Area (LA)	(A+C)
Sitewide ETAF	(B+D) / (A+C)

CERTIFICATE OF COMPLETION:

This certificate is filled out by the project applicant, and signed by the property owner, upon completion of the landscape project.

PART 1: PROJECT INFORMATION SHEET

PROJECT INFORMATION

Project Name: _____

Project Location: _____

APN: _____ Tract Number: _____ Lot Number: _____

APPLICANT INFORMATION

Applicant Name: _____ Phone: _____

Company Name: _____

E-mail Address: _____

Mailing Address: _____

PROPERTY OWNER INFORMATION

Property Owner: _____ Phone: _____

E-mail Address: _____

Mailing Address: _____

PROPERTY OWNER CERTIFICATION:

I(We) certify under penalty of perjury that I(We) am(are) the legal owner(s) of the property and 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.

Print Name: _____ Signature: _____

Print Name: _____ Signature: _____

Date: _____

Please answer the questions below:

Date Landscape Documentation Package was submitted to the local agency: _____

Date the Landscape Documentation Package was approved by the local agency: _____

Date a copy of the Water Efficient Landscape Worksheet was submitted to the local water purveyor _____

PART 2: CERTIFICATION OF INSTALLATION ACCORDING TO THE LANDSCAPE DOCUMENTATION PACKAGE

I(We) certify that based upon periodic site observations, the work has been substantially 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.

Name of Signer*: _____ Phone: _____

Company Name: _____

Title: _____

E-mail Address: _____

Mailing Address: _____

License or Certification No: _____

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

Print Name: _____ Signature: _____

Date: _____

PART 3. IRRIGATION SCHEDULING

Attach parameters for setting the irrigation schedule on controller per Chino Hills Municipal Code Section 16.07.110.

PART 4. SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE

Attach schedule of Landscape and Irrigation Maintenance per Chino Hills Municipal Code Section 16.07.120.

PART 5. LANDSCAPE IRRIGATION AUDIT REPORT

Attach Landscape Irrigation Audit Report per Chino Hills Municipal Code Section 16.07.130.

PART 6. SOIL MANAGEMENT REPORT

Attach soil analysis report, if not previously submitted with the Landscape Documentation Package per ordinance Section 16.07.060.

Attach documentation, such as soil amendment delivery tickets, verifying implementation of recommendations from soil analysis report per Chino Hills Municipal Code Section 16.07.060.