

COACHELLA VALLEY WATER DISTRICT
LANDSCAPE AND IRRIGATION PRE-SUBMITTAL CHECKLIST
ORDINANCE NO. 1302.1

(This submittal checklist does not include all requirements of the Ordinance.)
Refer to Attachment A of Ordinance 1302.1 for all requirements and submittals

Project Name: _____

Project Location: _____

Project No. _____ Tract No. _____ APN _____

ETo Zone No. _____ MAWA = _____ ccf ETWU= _____ ccf

Each Landscape Documentation Package shall include the following elements:

- ___ 1. A completed Landscape Documentation Package Checklist (Appendix A Ordinance No. 1302.1). It includes the date, project applicant, and project address information. This checklist serves to verify that the elements of the Documentation Package have been completed.
- ___ 2. Total landscape area (square feet)
- ___ 3. Project type (i.e., new, rehabilitated, public, private, cemetery, homeowner installed etc.)
- ___ 4. Water Efficient Landscape Worksheet (Appendix B Ordinance No. 1302.1) be imbedded in the plan sheet of the Landscape Documentation Package, and include the following:
 - i Hydrozone Information Table (reference Appendix C Ordinance No. 1302.1)
- ___ 5. Water Budget Calculations (reference Appendix D Ordinance No. 1302.1) that adhere to the following requirements:
 - i The plant factor used shall be from WUCOLS. The plant factors range from .0 to 0.3 for the low use plants, from 0.4 to 0.6 for the moderate use plants, from 0.7 to 1.0 for the high use plants and 1.1 to 1.2 for water features.
 - ii All water features shall be included in the 1.1 to 1.2 hydrozone and temporary irrigated areas shall be included in the low water hydrozone. For the calculation of the Maximum Applied Water Allowance and the Estimated Total Water Use, a project applicant shall use ETo values from the Reference Evapotranspiration Table, Appendix C. For geographic areas not covered in Appendix C, use data from other cities located nearby in the same reference evapotranspiration zone.
- ___ 6. Landscape Design Plan.
- ___ 7. Irrigation Design Plan.
- ___ 8. Grading Design Plan (if required).



- ___9. Soil Management Report (if required).
- ___10. Reserve two 6-inch by 3-inch spaces for a) the local agency signature block and b) a District signature block in lower right corner of the cover sheet and on all of the landscape, irrigation design/detail/specification sheets.

LANDSCAPE PLAN

- ___1. Drawings are 36-inches by 24-inches.
- ___2. Show tract number or parcel number on cover sheet.
- ___3. Show an Index map showing the overall project including all ¼ & 1/16 section lines and section numbers.
- ___4. Show title block on each sheet with the name and address of the project, the name and address of the professional design company with its signed professional stamp, if applicable.
- ___5. Show note on each design sheet stating, "Trees, plants, walls, sidewalks and permanent structures of any kind shall not be planted, installed or built in CVWD and USBR easements or right-of- way without first obtaining an encroachment permit from CVWD."
- ___6. Plan scale, graphic scale, and north arrow shown.
- ___7. Location/vicinity map on top or cover sheet with north arrow (include north arrow).
- ___8. Space for CVWD landscape and irrigation signature block in lower right corner (6-inch by 3-inch)
- ___9. Show planting area in square feet and the total percent area of turf.
- ___10. Estimated total water use expressed in billing units.
- ___11. Maximum applied water allowance specified.
- ___12. On model home plans, show the Maximum Applied Water Allowance (MAWA) and Estimated Total Water Use (ETWU) (by hydrozone with totals) for each model unit.
- ___13. Planting installation details and/or specifications.
- ___14. Plant botanical and common names, size and locations.
- ___15. Street median turf shall be surface drip or subsurface drip irrigated.
- ___16. Specify property lines and street names, on all landscape/ irrigation design sheets.
- ___17. Locations of all overhead and underground utilities in project area (include ROW & easements).
- ___18. Show water use requirements for trees and shrubs.
- ___19. For desert trees and shrubs: planting details show 2X root ball for planting hole, and backfill to be native site soil only.



IRRIGATION PLAN

- ___ 1. Point of connection or source of water, check on availability.
- ___ 2. Show meter and backflow location with a note stating "Installed by CVWD."
- ___ 3. Valve size, station number, GPM on plan.
- ___ 4. Control valves, manufacturer's model number, size.
- ___ 5. Master valves shall be metal, located as close to the point of connection as possible, and be metal pipe between the master valve and the water meter.
- ___ 6. Turf areas irrigated with spray/rotor systems must be set back at least 24 inches from curbs, driveways, sidewalks or any other area that may result in runoff of water onto streets. An undulating landscape buffer area created by the setback shall be designed with rock, cobble or decomposed granite and/or can be landscaped with drip irrigated shrubs/accents or covered with suitable ground cover.
- ___ 7. POC detail for house meter installation (if applicable).
- ___ 8. Smart controllers shall be specified for all projects. Include model and location.
- ___ 9. Meter sizing for landscape purposes shall be 33 GPM per planted acre.
- ___ 10. Piping type, size and location.
- ___ 11. Irrigation head manufacturer's model number, radius, operating pressure and location.
- ___ 12. Drip irrigation specified.
- ___ 13. Threaded emitters shall be used on commercial projects.
- ___ 14. Drip irrigation pipe connection threaded PVC or glued PVC.
- ___ 15. Surface laid hose and tubing is prohibited.
- ___ 16. Multi-port outlet devices and multiport distribution is prohibited.
- ___ 17. Installation details and/or specifications.
- ___ 18. Correct spray head/rotor setbacks on detail sheet.
- ___ 19. Correct spacing of heads on plan.
- ___ 20. Specify high and low flow check valves.
- ___ 21. Specify pressure compensating screens to control overspray as needed.
- ___ 22. Trees in turf areas shall be on a separate station.
- ___ 23. No spray head irrigation in median islands.
- ___ 24. Valve circuiting designed to be consistent with hydro-zones.
- ___ 25. Specify automatic flush valve at the end of drip lateral lines.
- ___ 26. Indicate if recycled or canal water is available. Yes _____ No _____
(Appendix G Ordinance 1302.1 Recycled Water Checklist)



LANDSCAPE PLANS WITHIN CVWD AND U.S. BUREAU OF RECLAMATION (USBR)
EASEMENTS

- ___1. Show all irrigation, drainage, water and sewer pipelines within proposed landscape area.
- ___2. Call out drawing numbers and pipeline info. (24" Irrigation Lateral 119.64, or 18" water).
- ___3. Show all easements within project area(s). Call out width of easement and all pertinent information such as: instrument number, USBR plat number and tract map.
- ___4. Show distances (in feet) to pipelines from centerline of street.
- ___5. All proposed objects or structures within easement(s) must to be clearly identified.
- ___6. Leave a 6-inch X 3-inch space at bottom right hand corner for Engineer Approval signature block. This is in addition to the water management and local agency signature blocks.
- ___7. Show the township, range and section number in lower title block.



APPENDIX A
LANDSCAPE DOCUMENTATION PACKAGE CHECKLIST

Project Site: _____ **Tract or Parcel Number:** _____

Project Assessor's Parcel Number (APN): _____

Project Location: _____

Landscape Architect/Irrigation Designer/Contractor Name and Contact Information: _____

Included in this Landscape Documentation Package are: (Check to indicate completion)

___ 1. Water Efficient Landscape Worksheet (Appendix B)

WATER BUDGET CALCULATIONS (Appendix D)

___ 2. Maximum Applied Water Allowance (MAWA):

Conventional Landscape: _____ 100 cubic feet/year

+ Recreational Turf Grass Landscape: _____ 100 cubic feet/year (if applicable)

Maximum Applied Water Allowance: _____ 100 cubic feet/year

___ 3. Estimated Total Water Use by Hydrozone:

Turf grass Hydrozones: _____ 100 cubic feet/year

Recreational Turf grass Hydrozones: _____ 100 cubic feet/year

Low Plant Hydrozones: _____ 100 cubic feet/year

Medium Plant Hydrozones: _____ 100 cubic feet/year

High Plant Hydrozones: _____ 100 cubic feet/year

Water Features: _____ 100 cubic feet/year

Other: _____ 100 cubic feet/year

Estimated Total Water Use: _____ 100 cubic feet/year

___ 4. ETWU < MAWA



PLAN SETS

- ___5. Landscape Design Plan
- ___6. Irrigation Design Plan
- ___7. Grading Design Plan
- ___8. Soil Management Report

I agree to comply with the requirements of the water efficient landscape Ordinance 1302.1, and submit a complete Landscape Documentation Package.

Date: _____ Applicant: _____

