



Welcome to the Town of Marana!

Below you will find the checklists compiled by Marana Water for use by design engineers involved with the preparation of water improvement plans for the Town. Use of the following checklists will expedite and simplify the review process.

If you have any questions please contact Marana Water using the contact information below.

We look forward to working with you!

Contact Information:

Erik Christenson, P.E., CIP Engineering Division Manager (Water)  
Telephone: (520) 382-2575  
Email: [EChristenson@maranaaz.gov](mailto:EChristenson@maranaaz.gov)

Stephen Dean, Deputy Director (Water)  
Telephone: (520) 382-2570  
Email: [SDean@maranaaz.gov](mailto:SDean@maranaaz.gov)



## Water Improvement Plan Checklist

**APPLICABLE REFERENCES FOR PUBLIC WATER DESIGN AND CONSTRUCTION:**

- <https://www.maranaaz.gov/water-plan-requirements>
- <https://www.maranaaz.gov/marana-town-code> (Title 14)
- <https://www.tucsonaz.gov/water/dsm>
- <https://www.tucsonaz.gov/water/spec-book>

1. Arizona Administrative Code, Title 18, Chapters 4 and 9  
Town of Marana *General Notes and Standard Details* sheet found at the Marana Water webpage:  
<https://static1.squarespace.com/static/54cc191ce4b0f886f4762582/t/618afe5e3d39c31ed027d604/1636499039258/WaterDetail.pdf>
2. No hatching or pattern such as pavement, sidewalk, buildings, etc. are allowed.
3. No contour line (proposed or existing) is allowed.

**Note: All items on this checklist must be addressed. Items not addressed will result in a review comment. This checklist does not have to be submitted with the plans for review.**

I.	Items to be submitted with the plan
1.	A current copy of the water plan with engineer’s stamp and signature.
2.	Subdivision plat in its most final form, recorded survey, or recorded legal description reflecting current property lines.
3.	Improvement plans or site development plan.
4.	Underground electric layout.
5.	Special specifications, if required.
6.	Project phasing: Separate water plans for each phase.
7.	New easement legal descriptions, labeled current ownership and/or recorded legal descriptions for existing easements (submit recorded easement(s) after plan approval). A minimum 25’ wide easement required for utility only, minimum 30’ required for utility ingress and egress (please refer to the Marana wet utility easement detail).
II.	Items to be addressed on the plan
1.	24” x 36” water plan format with standard title block and current Blue Stake Number.
2.	North arrow on all maps and plan views, preferably on the upper right corner of the plan view, numeric scale, and bar scale.
3.	All street names labeled with their permanent and approved names.
4.	Location plan on cover sheet with all applicable information (township, Range, section, scale, etc.).
5.	Cover sheet with all standard applicable information, including match lines, main sizes, and zone connections called out on site plan.
6.	Cover sheet that reflects interior sheets.
7.	Provide additional notes, other than those indicated on general notes and standard detail sheets.



8.	Provide legend on cover sheet.
9.	Index of sheets shown, including general notes and standard detail sheet.
10.	Provide space for signature of the water company (director and engineer), responsible party for fire service, and all other pertinent agencies.
11.	Indicate the project fire flow requirement.
12.	Owner/developer information and consultant's logo on cover sheet.
13.	Lettering and symbol size acceptable and legible (1/8" min.), as specified by Tucson Water standards.
14.	Project boundary, lot lines, and lot numbers with adjacent properties' ownership identified.
15.	Rights-of-way, full width shown, w/ street names labeled public or private.
16.	Show applicable easements, existing, proposed, and label easements.
17.	Plan matches easement descriptions, P.O.B., bearings, distances, etc. called out on plan.
18.	Existing and proposed paving, utilities, drainage facilities and obstructions in vicinity of water mains.
19.	Existing water system shown correctly, including size, zone, and pipe material.
20.	Development tied down; Sta. 10+00 on survey monument w/ applicable stationing.
21.	Dimensions from connections to nearest existing valves in both directions.
22.	Phase lines between separate phases; however a separate plan is required for each phase.
23.	All new water system plotted <b>BOLD</b> (1.02 mm).
24.	Plan: call outs for valves and fittings shown only once.
25.	Abandoned main, material, and length specified. Specify abandonment process.
26.	Profile for 10" mains or larger. Size, material, and slopes are shown clearly along new water profile (if applicable).
27.	Stations shown at all CL intersections, PTs, PCs, PRCs, PPCs, etc.
28.	Meters and bounds provided if not parallel to property ROW centerline.
29.	Surveyable dimensions provided for all new water mains. Curved water mains are not allowed. Fittings are to be provided at all bends except as determined not necessary by the Marana Water inspector or engineer during construction.
30.	Valving acceptable (2 for tee, 3 for cross), w/ applicable fittings, bends.
31.	Air release valves and/or combination air vacuum valves with size called out.
32.	In-line valves provided, per ADEQ requirements.
33.	Stubs, drain valve assemblies shown and labeled clearly within landscape areas, not in pavement or sidewalk. Exception – at a phase line in a right-of-way.
34.	Fire hydrants shown per Fire Department requirements.
35.	Existing service tie-overs, renewals, and abandonments.
36.	Meters located at property to be served, 36" minimum separation between service taps.
37.	All new water services shown clearly in the proper location.
38.	Electric pedestals and transformers clearly shown and dimensioned 10' minimum



	from water services and hydrants.
39.	Static pressure zones identified, w/ closed valves, labeled zone boundaries.
40.	Water notes only in standard note box; all other notes, use leaders only.
41.	Dimension rights-of-way, waterlines, utilities, pavement, centerline, etc.
42.	Special details (if applicable), street cross-sections.
43.	Street cross-sections with all proposed utilities shown and dimensions from centerline.
44.	Erase behind lettering, symbols, and other pertinent information.
45.	All new water will be placed along the south and west side of all new streets.
46.	A standard offset of 10' from ROW centerline required (if applicable).
47.	Zero percent (0%) slopes not acceptable; use .5 percent minimum.
48.	All sewer/water crossing non-potable and potable water require station, offset, and invert information on plan view.
49.	All new mains crossing lots or unpaved easements require profiling. Other profiling will be required and reviewed on a case-by-case basis
50.	Ductile Iron Pipe is to be extended 20' beyond the upper 45-bends at dipped sections per Materials Note 21 of the General Notes and Standard Details Sheet.
51.	A hydraulic model must be applied for and acquired for all projects unless specified otherwise by Marana Water. Water plans will not be approved without a hydraulic model.
52.	Provide a list of materials and quantities on the cover sheet including pipe, valves, fire hydrants, and meters. Service line, DVA, and ARV quantities are not required.
53.	The centerline of all watermain is to be 2' minimum from face of concrete curb or edge of pavement for 12" or smaller main. Otherwise 3' minimum is required.
54.	Verify meter sizes. Meters greater than 2" require above ground installation and a meter enclosure per SD-314.
55.	Check corner lot layout to ensure no above ground apparatus are located in in the lot driveway. Meters, ARV's and DVA's located in driveways or sidewalks will not be accepted.
<b>III.</b>	<b>For Marana Water Use Only</b>
56.	Assign MW plan number.
57.	Determine sample station locations.