Potable Water Checklist



This checklist is a guide for submitting complete and accurate plans to the city. See your project's DR, PP, ZN, UP, the Design Standards & Policies Manual (DS&PM), and contact your Project Coordinator for specific requirements.

General Requirements			
	1.	Cover sheet and basic plan requirements per Plans Cover Sheet & Typical Sheet Checklist and the DS&PM, Section 1-2.	
	2.	Acquire Maricopa County Health Department approval and signature. See DS&PM Section 1-2.	
	3.	Provide this statement on the cover sheet: "Use Mega-Lug restraining joints or COS approved equal at all deflections, bends, tees, crosses, valves and dead-end lines."	
	4.	Reference all elevations shown on plans to an approved city benchmark (NAVD 88) and provide certification statement for benchmark adequacy from Registered Land Surveyor.	
	5.	Coordinate plans for this development with all current and proposed adjacent projects, including private developments and COS Capital and Improvement District Projects.	
	6.	If portions of the improvements shown are within another jurisdiction, coordinate with that jurisdiction and acquire appropriate permits. Indicate the permit number on the cover sheet.	
	7.	Water line sizes and location must conform to the city's Water Master Plan and approved Subdivision Master Plan.	
	8.	Water lines located within easements or tracts shall have a minimum 20-foot wide dedication.	
	9.	Show all existing water lines and nearest fire hydrants and show their dimensions. Waterlines are required along all frontages unless approved by Water Resources.	
	10.	Provide station and offsets for all utilities.	
	11.	No public utility lines are permitted within drainage basins.	
	12.	Install water lines in standard horizontal locations as described in the DS&PM Chapter 6. Call out minimum vertical clearances for utility crossings in profile. Provide minimum cover per COS standards.	
	13.	Waterline materials shall conform to current COS Supplement to MAG and the DS&PM.	
	14.	Provide waterline stub-outs for all adjacent properties.	
	15.	All dip sections must be shown in profile view and must conform to COS Supplement to MAG.	
	16.	Reference MAG Standard Detail for pipe encasement when applicable.	
	17.	Dead-end lines shall be extended beyond paved surfaces and equipped with a curb stop per MAG Standard Detail 2390-B.	
	18.	Valve locations must comply with DS&PM Chapter 6.	
	19.	Fire hydrant installations must comply with Fire Department stipulations & DS&PM requirements.	

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		Potable Water Checklist (continued)		
	20.	Provide pressure certification & flow test information.		
	21.	Provide PRV detail (to be reviewed by Water Operations). Provide Engineer sealed cost estimate for PRV and vault installation.		
	22.	Provide Booster Pump Station plans designed in accordance with COS Water Resource Department standards. (To be reviewed by Water Operations).		
	23.	Profile lines 12" and larger.		
	24.	Provide Maintenance and Repair Accessibility.		
	25.	Call-out water utility provider if other than COS.		
	26.	Provide material specifications.		
	27.	Provide electronic locators per COS Supplement to MAG #610.		
	28.	Provide special details.		
	29.	Pay amount specified by Waterline Payback #		
	30.	In-Lieu Fee Payment required.		
	31.	Release or abandonment of easements. Fee required \$		
	32.	Provide one Water Sampling Station for each 300 units or a portion thereof, as per DS&PM Chapter 6.		
	33.	Provide a drainage report indicating the 100-year storm Q and the velocities over the proposed new pipe installations. If the flow is over 50 cfs, provide 6-foot minimum cover under the wash crossing using a Standard COS dip crossing. If the flow is over 600 cfs, provide a scour analysis for the wash crossing. The minimum depth of cover over the pipe would be the scour depth plus three feet.		
Show These Items on Service Tap Detail				
		Station location of water service.		
		2. Minimum 6-ft separation between water and sewer taps		
		3. Standard detail number.		
		4. Station location of backflow prevention device.		
		5. Water meter box to be located at the edge of the ROW or back of the PUE.		
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