

Arizona Water Company Water Plan Checklist

	Project Name:		
	Prepared for:		
	Prepared by:		
	Stamped by registered Arizona Professional Engineer		
Cover Sheet			
	Show project name		
	Show vicinity map		
	Show quarter section with township and range near the top of the cover sheet		
	Show assessor parcel number(s) near the top center of the cover sheet		
	Show quantity list on cover sheet		
	Show domestic and landscape demand on the plans in average gallons per day and peak gallons per day (GPD).		
	Include project owner company name, contact name, address, phone number, and email address		
	Include engineering firm, contact name, address, phone number, and email address		
Construction Notes			
	Arizona Water Company Construction Specifications Section E-8-1, includes E-8-1-1 through E-8-1-13, and		
	additional signed letters by Arizona Water Company for material		
	• •		
	Include permitting agencies notes		
Construction Specification Details			
	Arizona Water Company Standard Specification Drawings, include all applicable water details specific to		
	the water design		
	Include permitting agency details		
Design Plan View Criteria			
	Key Map		
	North Arrow		
	To scale. (Example: 1"=20', 1"=30', 1"=40', 1"=60' are acceptable)		
	Show immediate surrounding development (Example: neighboring parcels, alleys, streets, trees, electrical		
	boxes, fences, etc.)		
	Show and dimension public right-of-way or public utility easement		

	Page 2 of 4
	joint trench
	when running parallel with the water pipelines. The distance is measured from the outside of the pipe. No
	No other utility will be permitted in the water pipeline trench or within 5-feet of the company's waterlines
	Water mains under asphalt and 5' from edge of curb and in right of way
	 Valves on all sides of tees and crosses
	 Sufficient valving required at crossings with streams, railroads and major highways.
	mains.
	 Be spaced not more than 500 fee in commercial districts, variations may be required for transmission water
7	Gate valve requirements:
	OR 20" FOR 18 FOOT LENGTH PIPE, FOR A MAXIMUM CURVE OF 195 FEET.
	19" FOR 18 FOOT LENGTH PIPE, FOR A MAXIMUM CURVE OF 205 FEET. O MAXIMUM JOINT DEFLECTION FOR 8" & 12" MECHANICAL JOINT DUCTILE IRON PIPE IS 5°-21'
	O MAXIMUM JOINT DEFLECTION FOR 6", 8", & 12" PUSH-ON JOINT DUCTILE IRON PIPE IS 5°OR
	FOR 18 FOOT LENGTH PIPE, FOR A MAXIMUM CURVE OF 145 FEET.
	 MAXIMUM JOINT DEFLECTION FOR 6" MECHANICAL JOINT DUCTILE IRON PIPE IS 7°-7' OR 27"
	 Call out stationing
	 Show on all bends, tees, crosses, dip sections, dead ends
	Arizona Water Company Standard Detail E-9-5-3-1 and E-9-5-3-2
	Show joint restraint dimensions (LR) on plan view for the limits of the joint restraint in accordance with
	 No size on size tapping sleeve and valve, cut in tee required
	 Cut in tees on CA water mains and replace additional 10' on each side with ductile iron pipe.
	Show type of connection to the water system
	detail numbers
	Show list of constructions notes for Arizona Water Company scope of work specifying the construction
	Show callouts for Arizona Water Company scope of work
	Show Arizona Water Company scope of work limits
	Show proper backflow prevention device at meter connection
	Show all air release valves on the plans at all high points
	Label stationing for all water fittings, bends, fittings, joint restraint, air release valves, etc
	the sidewalk and not in right-of-way
	Water meter boxes must be located a maximum of 2 feet on the customers property or in the PUE behind
	Show size and type of services required. (Example: domestic, fire, landscape, etc.)
	Show the size and type, and indicate the location of all new and existing utilities
	Show the size and material type of the proposed waterline
	Show the size and material type of the existing waterlines
	Show road, sidewalk, curb and gutter, landscape tracts
	 With the exception of water meter boxes, Arizona Water Company will not own or maintain facilities located outside of a dedicated public right-of-way or public utility easement
	the county or city
	to public right of way through recorded plat and said plat has been accepted and acknowledged by
	 Arizona Water Company facilities must be installed within existing public right-of-way, or dedicated
	 Notate jurisdiction and document reference granting the right-of-way or easement

	Backfill and compaction requirements shall be in accordance with Arizona Water Company specifications. Engineer must also contact permitting agency for backfill, compaction, and asphalt replacement requirements, and adjust plans accordingly. Engineer shall contact permitting agency or local jurisdiction to confirm if open cut of the road are allowed for installation of water facilities, and adjust plans accordingly.	
W	ater Mains	
	Size and type of distribution water main, must be in accordance with Arizona Water Company specifications book and Arizona Water Company Tariff No. TC-243. Minimum 12-inch for sections line roads Minimum 8-inch for mid-section line roads Minimum 6-inch for all others Water main extensions required on frontage of property boundaries Size and type of transmission water main, must be in accordance with Arizona Water Company specifications book. Minimum 12-inch or larger dependent upon completed modeling Minimum depth of cover in accordance with Arizona Water Company specifications book. FOR 8-INCH OR SMALLER PIPE: The depth of the trench prior to pipe laying shall be such that the finished pipeline shall have between thirty-six inches (36") and forty-two inches (42") of cover unless otherwise specified on the Construction Drawings. FOR 12-INCH AND LARGER PIPE: The depth of the trench prior to pipe laying shall be such that the finished pipeline shall have between forty-eight inches (48") and sixty inches (60") of cover unless otherwise specified on the Construction Drawings. All lines shall be looped wherever possible in subdivisions or where required by local agencies having jurisdiction. Water and sewer separations and extra protection shall be in accordance with Arizona Water Company specifications book and Arizona Department of Environmental Quality bulletin No.10. If project consists of relocating existing water facilities, show the existing location and proposed location of the facilities.	
Design Profiles		
	Provide a profile view of all 12-inch and larger waterlines, include vertical and horizontal scales. Show elevation of water and sewer mains where they cross perpendicular to each other. Provide profile section view of all vertical realignment crossings in conflict with the water main. Include vertical and horizontal scales Call out stationing Show all utilities Show length of restraint Show all fittings and gate valves	

Fire Protection			
	Size and type of private fire service line, must be in accordance with Arizona Water Company specifications book and Arizona Water Company Tariff No. PF-242. O The minimum diameter will be 4-inches. The maximum diameter shall not be larger than the diameter of the water main to which fire protection service is attached unless said main is circulating, in which case with the approval of the Company the maximum diameter may be larger than the diameter of said circulating main. Private fire hydrants must have its own dedicated private fire service to the Arizona Water Company system. Private fire hydrants to be installed, tested, and maintained by the customer. Public fire hydrants in right of way shall be installed on the same side of the street as the water main. Long fire hydrants are not permitted.		
Backflow Prevention			
	Services 2-inch or smaller including commercial, domestic, duplex and landscaping, must include approved and compliant backflow prevention device to be installed, tested, and maintained by the customer. Services with 3-inch meters or larger, and private fire service lines must use backflow prevention device per Arizona Water Company standard detail E-9-13-2. The backflow preventer shall be installed as close to the right-of-way as possible to end of connection with the Company, and to be installed, tested, and maintained by the customer.		
Additional Documents			
	Provide a hard copy, PDF, and CAD file of the recorded right-of-way dedication. Provide a hard copy, PDF, and CAD file copy of the recorded subdivision plat. Provide final CAD files.		
_	NOTE: Use the above referenced items and Arizona Water Company Construction Specifications as a reference guideline in preparation of the water plan. To ensure proper design of plans, complete pothole and survey the vicinity of the area for the project for existing Arizona Water Company facilities.		

Project Submittals To:

Arizona Water Company
Development Services
3805 N. Black Canyon Hwy
Phoenix, AZ 85015
developmentservices@azwater.com