NUMBER	ITEMS	NOT REQ'D	NOT DONE	SATISFIED	WATER REVIEW # BY / DATE Location in Standards
1	Review General checklist	☐	☐	☐	See web site
2	Plans satisfy City's Master Plan	☐	☐	☐	Integrated Water Master Plan June 2008
3	Water Design Report	☐	☐	☐	2.11.8, 5.1.2(A), 5.1.2(B), Table 5.1-1
4	Scales 1=20 plan & 1=4 vertical	☐	☐	☐	2.11.2(L)
5	COG general notes for Water construction	☐	☐	☐	0.4.6
6	MCESD / LPSCO Approvals, ATC	☐	☐	☐	0.2.3, 2.3.2(C), 2.3.3, 2.3.4(B.5) 2.6.12
7	Sheet & Index Map w/street names, lot #'s, FH, valves, line sizes,...	☐	☐	☐	2.11.3, G-3112
8	Master Utility sheet at 1"=100' scale	☐	☐	☐	2.11.2(T)
9	Pipe size, slope, length, elevation and materials shown	☐	☐	☐	2.11.6
10	All mains in R/W or esm't to be DIP. Mains on private property may be C900 PVC Class 200	☐	☐	☐	5.1.4(F) See approved materials list on City Website
11	Line sizes 8" min (16 min transmission main on Arterial or collector)	☐	☐	☐	5.1.4(B)(C)
12	Stub outs -16" per mile, 12" per 1/2 mile, 8" per 1/4 mile on Arterial Streets	☐	☐	☐	
13	City water mains & services shall be in the R/W or easements.	☐	☐	☐	5.1.4(D.1.c)
14	New services in ex pavement must be bored under pavement	☐	☐	☐	5.1.4(D.1.d) 4.1.7(A.7)
15	Min horz sep called out on plan view	☐	☐	☐	MAG 404-1
16	Water service cover, 36 inches	☐	☐	☐	5.1.4(D.1.e) MAG 404-1
17	NO service taps in lines 16" or larger	☐	☐	☐	5.1.4(D.1.h)
18	Polyethylene on pipes larger than 12"	☐	☐	☐	5.1.4(F.2)
19	Water line radius > 180'	☐	☐	☐	
20	Water line location stationed pipe, monument or roadway centerline	☐	☐	☐	5.1.2(C.2) 2.11.6(B.1.a.)
21	Sta or dim services 1'-3' off lot PL	☐	☐	☐	5.1.4(D)

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22	Dim non-typ. service locations and dimension services on knuckles	☐	☐	☐	5.1.4(D) 2.11.6(B.1.a.)
23	Fire Hydrants tied to C/L, station & offset	☐	☐	☐	2.11.2, 5.1.6
24	Use COG Detail for Fire Hydrants	☐	☐	☐	G-3330
25	FH, valves & marker locations				5.1.6(B) G-3212 MAG 362
26	FH locations at curb returns & BC	☐	☐	☐	G-3330, MAG 362
27	FH at end of cul-de-sac & dead ends, no blow-offs, 400' max from looped line	☐	☐	☐	5.1.4(J.3) 5.1.6(B.2.b.6)
28	FH spacing 400' res, 300' multi-use, 1320' no adjacent development	☐	☐	☐	5.1.6(B.2.)
29	Space valves so that no more than 2 fire hydrants are out of service at any given valve closure or no more than 30 homes without water per closure	☐	☐	☐	5.1.5(A.2.c)
30	Place valves on branches so main is still in service during closures	☐	☐	☐	5.1.5(A.2.g)
31	Place isolation valves on both sides of a culvert or larger storm drain crossing	☐	☐	☐	5.1.5(B.4) G-3301
32	In areas not accessible by normal excavation methods/culvert crossings install a sleeve, C900 PVC Cl 200, not filled, dust covers at ends, skids strapped to waterline	☐	☐	☐	5.1.4(G.6.)
33	Max valve spacing 660' on distribution, ¼ mile to 1/2 mile max on transmission mains (out of tire path)	☐	☐	☐	5.1.5(A.2.a), 5.1.5(A.2.b)
34	Long transmission mains of 16" or > shall be marked with marker balls every 440'	☐	☐	☐	5.1.4(B.3)
35	Valve covers are MAG 391-1 type "A" only, with COG debris cap	☐	☐	☐	5.1.5(A.1.f), 5.1.5(A.1.g), G-3321
36	Pipes > 16" req Butterfly Valves & manhole with bypass Assy	☐	☐	☐	5.1.5(A.1.b), G-3307, G-3336
37	Design Check – Profile (lines 12" up)	☐	☐	☐	2.11.6(A.4.)
38	Sufficient cover? (add to construction note or dimension) proposed cover line	☐	☐	☐	5.1.4(H)

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	shown in profile				
39	Pipes < 12" need 36" of cover below FG, pipes > or = 12" need 48" cover below FG (add to construction note or dimension)	☐	☐	☐	5.1.4(H)
40	Water & Sewer separation & special protection (No water shall be < 2' below sewer)	☐	☐	☐	6.3.1(E.2.) MAG 404-1,2,3
41	Utility crossings	☐	☐	☐	5.1.4(G), G-3300
42	2 foot min cover - washes, culvers, storm drain, ect..	☐	☐	☐	5.1.4(J.5)
43	Air release valves at hp's on lines 12" & greater	☐	☐	☐	5.1.5(B), G-3301
44	Encasement shown plan & profile	☐	☐	☐	2.11.6 5.1.2(C.3.)
46	Looped system or max 400' for dead end	☐	☐	☐	5.1.4(J.1) 5.1.6(B.2.b.6)
47	Sampling Stations 1 every 100 units	☐	☐	☐	5.1.4 (E.3), G-3370
48	Extend to serve adjacent?	☐	☐	☐	5.1.1(C.5)
49	Pvm't cuts not permitted (All new pvmt is to remain in a new uncut condition for a period of 5 years or fee)	☐	☐	☐	4.1.7(A.7) Pavement Cut Fee Schedule
50	Future waterline extensions require a valve, 13' min stub and a fire hydrant at end (valve to be closed)	☐	☐	☐	5.1.5(A.2.h)
51	All nonresidential water & irr services shall have meter & reduced pressure BFP. Double Check Valve Backflows for Fire Lines only	☐	☐	☐	G-3350, G-3351, G-3352, G-3353
52	PRV's or Boosters? (on hill side development)	☐	☐	☐	G-3323
53	Restraint Joints on all fittings & dead ends on pipes 4" & larger (No thrust blocks)	☐	☐	☐	MAG 303-1
54	1" services min = #2 meter box 2" services = #4 meter box 3" & > require a vault	☐	☐	☐	5.1.4(D), G-3310, G-3313

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55	2" water service line size can be reduced to a 1 ½" or 1" meter 1" water service line size can be reduced to a ¾ " meter	☐	☐	☐	Per Water Resources Dept
56	Meter box locations in R/W or PUE (1' min behind back of curb or sidewalk)	☐	☐	☐	5.1.4(D) G-3310
57	Meters to be sized per UPC	☐	☐	☐	5.1.4(D.2.e)
58	Ex meters can be relocated up to 10' max	☐	☐	☐	5.1.4(D.2.g.4)
59	Abandoned ex pipes & meters to be approved by Engineering	☐	☐	☐	5.1.4(J.7)
60	construct landscape services and coordinate with landscape plans	☐	☐	☐	
61	Provide a 2" water service on commercial sites with #4 meter box, don't call out for a meter	☐	☐	☐	
62	3' cover going thru basins.	☐	☐	☐	3.3.6(C.7.e)
63	Well Facilities	☐	☐	☐	5.1.3(C.)
64	All changes in direction (bends) in water lines 6" and larger in diameter shall be marked with an electronic marker.	☐	☐	☐	5.1.4(J.6)
65	20' min waterline easement for City maintained pipes outside a dedicated R/W (must be larger if multi utilities are co-located or if additional area is req'd for maintenance)	☐	☐	☐	5.1.4(G.5) x
66	Any trench cut in existing pavement >600' in length must include resurfacing the pavement.	☐	☐	☐	MAG 336.2.4
67	Add "As-Built Manufacture" block to the quantities block. This is especially important for mechanical assy such as valves and hydrants.	☐	☐	☐	
	Reclaimed water				
1	Reclaimed water valves shall be painted purple and modified to read	☐	☐	☐	Use MAG 391-1 type "A"

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	"Reclaimed water"				
2	Requires a 13' min stub and valve at end (valve to be closed)	☐	☐	☐	
3	C900 DR 18 Class 150 pipe allowed	☐	☐	☐	
4	i. All connection points to the main line in Westar Drive need to have meter vaults installed for the future purpose of isolating The System from the Westar main if so required. The concept would include installing straight piping sections through the meter vaults. ii. The System shall be constructed to Maricopa County and ADEQ reclaimed water and Non-Potable standards (i.e. securing County ATC's and AOC's). iii. A note shall be added on the plans indicating that The System meets all ADWR reporting criteria. iv. All interactions The System will have with City utilities will be constructed in conformance with prevailing City Standards for reclaimed water systems. v. A note shall be added to the construction plans at each tie-in location to identify that The System is not being constructed to City of Goodyear Engineering Standards and that the City of Goodyear	☐	☐	☐	

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	will not accept ownership of the improvements. vi. A study is provided to the City that models the pressures and verifies that sufficient pressures will be available at the most remote portions of the system.		