ER		REQ'D	DONE	SATISFIED	WATER Checklist Goodyear
MB]			[D		REVIEW #
NUMBER		NOT	NOT	SAT	BY DATE
H	ITEMS	-	-	02	Location in Standards
	General				
	Review General checklist				See web site
_	noview delicital effectings		ш		
2	Plans satisfy City's Master Plan				5.1.1(A), 5.1.4(A.2), Integrated Water Master Plan June 2008
3	Water Design Report				2.11.8, 5.1.2(A)
	Cover Sheet				
4	COG General Notes for Water				0.4.6
_	Construction (on cover or sheet 2)				0.0.2.0.2.0(0) 0.2.2.0.2.4(P.5) 0.6.10
5	MCESD / LPSCO Approval blocks	Ш	Ш		0.2.3, 2.3.2(C), 2.3.3, 2.3.4(B.5) 2.6.12
6	Master Utility sheet at 1"=100' (on cover or sheet 2)				2.6.15(D)
	Plan Sheets				
7	Scales 1"=20 horizontal, 1"=4 vertical				2.11.2(L)
8	Pipe size, length, and materials shown				2.11.6
9	All mains in R/W or esm't to be DIP				5.1.4(D.1.c), See approved materials list on City Website
10	DIP 4"-12"=CL 350, 14"-20"=CL 250,				5.1.4(F.3)
	24"-64"=CL 200. Mains on private				
	property may be C900 PVC CL 200	_			5.1.4(D)(Q)
11	Line size 8" min, 16" min transmission main on Arterials & Collectors	Ш	Ш		5.1.4(B)(C)
12	Stub outs -16" per mile, 12" per 1/2				
12	mile, 8" per 1/4 mile on Arterial		Ш		
13	Streets Polyethylene on pipes larger than 12"				5.1.4(F.2)
					· · ·
14	Water line radius shown (if different than centerline data)	Ш	Ш		<u>5.1.4(J4)</u>
15	Water line location stationed off				5.1.2(C.2) 2.11.6(B.1.a.), G-3130, G-3132, G-3134,
	monument line or roadway centerline				<u>G-3136</u>
16	20' min waterline easement for City				5.1.4(G.5)
	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)	j			

NUMBER		REQ'D	DONE	SATISFIED	WATER Checklist REVIEW #
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	ITEMS				Location in Standards
17	Any trench cut in existing pavement >600' in length must include resurfacing the pavement.				MAG 336.2.4
18	Per Mag 336.2.4.1.F – for waterlines greater than 300 feet, half street seal coat is required				See Note Below
	In areas not accessible by normal excavation methods/culvert crossings/36" SD, IRRI and greater install a sleeve, C900 PVC Cl 200, not filled, dust covers at ends, skids strapped to waterline				5.1.4(G.6.)
	Abandoned ex water infrastructure (pipes, services, meter box) to be approved by Engineering				5.1.4(J.7)
21	Water lines 12" & up shall be profiled (label slopes, elevations, cover)				2.11.6(A.4.)
22	Looped system or max 400' for dead end				5.1.4(J.1) 5.1.6(B.2.b.6)
23	Sampling Stations 1 every 100 units				5.1.4 (E.3), G-3370
24	Extend to serve adjacent?				5.1.1(C.5)
25	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)
26	PRV's or Boosters? (on hill side development)				<u>G-3323</u>
27	Restraint Joints on all fittings & dead ends on pipes 4" & larger (No thrust blocks)				MAG 303-1
28	Long transmission mains of 16" or > shall be marked with marker balls every 440'				5.1.4(B.3), G-3305
_	Separation and Cover				
29	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), G-3301
30	Water service cover shall be 36" min			Г	5.1.4(D.1.e), G-3310

NUMBER		REQ'D	DONE	SATISFIED	WATER Checklist REVIEW #	and
Z		NOT	NOT	ATI	BY DATE	
Z	ITEMS	ž	ž	S	Location in Standards	
		1	_			
31	Min horz sep called out on plan view				5.1.2(C.6), 5.1.4(D.4b), 5.1.4(G.1), MAG 404-1	
32	Water & Sewer separation & special protection (No water shall be < 2' below sewer or < 1' above)				5.1.4(G.1), 6.3.1(E.2.), MAG 404-1,2,3	
33	All utility crossings shown				5.1.4(G), G-3300	
34	2' min cover over washes, culvers, storm drain, ect.				5.1.4(J.5)	
35	Encasement shown plan & profile				2.11.6 <u>5.1.2(C.3.)</u>	
36	3' cover going thru basins.				3.3.6(C.7.e)	
	Fire Hydrants					
37	Use COG Detail for Fire Hydrants				<u>G-3330</u>	
38	Fire Hydrants tied to roadway				<u>2.11.2</u> , <u>5.1.6</u>	
	centerline by station & offset				5.1 c(D) G 2010	
36	FH markers shown on paving plans				5.1.6(B), G-3212	
40	FH located at curb returns & BC				<u>G-3330</u> , <u>MAG 362</u>	
41	FH at end of cul-de-sac & dead ends, 400' max from looped line				5.1.4(J.3) 5.1.6(B.2.b.6)	
42	FH spacing 400' res, 300' multi-use, 1320' (at intersections) no adjacent development, 1000' where no intersections or development				5.1.6(B.2.)	
	Valves					
43	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)	
44	Place valves on branches so main is				5.1.5(A.2.g)	
	still in service during closures		_			
45	Place isolation valves on both sides of				5.1.5(B.4) G-3301	
<u>_</u>	a culvert or larger storm drain crossing		_	_		
46	Max valve spacing 660' on distribution,		Ш		5.1.5(A.2.a), 5.1.5(A.2.b)	
	1/4 mile to 1/2 mile max on					
15	transmission mains (out of tire path)			. —	5 1 5(A 1 ft 5 1 5(A 1 et C 3221	
41	Valve covers are MAG 391-1 type "A"		Ш		5.1.5(A.1.f), 5.1.5(A.1.g), G-3321	

NUMBER		NOT REQ'D	NOT DONE	2	WATER Checklist REVIEW # BY DATE
N	ITEMS	ĭ	ĕ	SA	Location in Standards
	,				,
	only, with COG debris cap				
48	Air release valves at hp's on lines 12"				5.1.5(B), G-3301
	& greater				
49	Pipes > 16" req Butterfly Valves &				5.1.5(A.1.b), G-3307, G-3336
	manhole with Bypass Assembly				
	Meter Box				
50	³ / ₄ " - 1" services = #2 meter box				5.1.4(D), G-3310, G-3313
	1-1/2" - 2" services = #4 meter box				
	3" & > require a vault				
	2" water service line size can be				Per Water Resources Dept
	reduced to a 1 ½" or 1" meter,				
	1" water service line size can be				
	reduced to a ¾ " meter	_			T 1 4/D) O 2210
52	Meter box locations in R/W or PUE (1'	Ш	Ш	Ш	5.1.4(D) G-3310
F 2	min behind back of curb or sidewalk)	-			5.1.4(D.2.e)
53	Meters to be sized per UPC (do not show meter sizes & on-site water line	Ш	Ш	Ш	<u>3.1.+(D.2.c)</u>
	sizes on civil plans, they shall be				
	approved by BS)				
	Ex meters can be relocated up to 10'	П			5.1.4(D.2.g.4)
	max		ш		
	Services				
55	1" services min				5.1.4(D), G-3310
56	No 2-1/2" services allowed	Ш			5.1.4(D), G-3310
57	Landscape services, coordinate with				
	landscape plans				
58	All nonresidential water & irr services				G-3350, G-3351, G-3352, G-3353
	shall have meter & Reduced Pressure				
	Backflow Prevention Device (RPBFPD)				
	Double Check Valve Backflow				
	Prevention Device for Fire Lines only	_	_		
59	Provide a 2" water service on	Ш			
	commercial sites with #4 meter box,				
	don't call out for a meter	_			
60	New services in ex pavement must be				5.1.4(D.1.d) 4.1.7(A.7), G-3130, G-3132, Pavement Cut Fee Schedule
	bored under pavement. Pavement cuts				<u>Out I de Belledule</u>
	are not permitted (all new pavement is				
	to remain in a new uncut condition for				

NUMBER	ITEMS	NOT REQ'D	NOT DONE	SATISFIED	WATER Checklist REVIEW # BY DATE Location in Standards		
	a period of 5 years)]					
61	NO service taps in lines 16" or larger				5.1.4(D.1.h)		
62	Sta and dim services 3' off lot PL				5.1.4(D.1.g.)		
63	Dimension non-typ service locations and dimension services on knuckles				5.1.4(D) 2.11.6(B.1.a.)		
64	Any ex stub to project that will not be used shall be removed to the main				Per Mark & Ray		
	Reclaimed water						
1	Reclaimed water valves shall be painted purple and modified to read "Reclaimed water"				<u>G-3325</u> , Use <u>MAG 391-1</u> type "A"		
2	Requires a 13' min stub and valve at end (valve to be closed)				5.1.5(A.2.h)		
3	C900 DR 18 Class 150 pipe allowed						
 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 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. 							
The trench must be compacted to its required density, and required ABC must be in place and compacted prior to the placement of the asphalt concrete. For cuts greater than 300 feet in length the entire area shall then be slurry seal coated in accordance with Section 332 or as otherwise specified. This seal coat shall extend from the edge of pavement or lip of gutter to the street centerline except that on residential streets less than 36 feet face to face of curb or where the pavement patch straddles the centerline, the entire width of street shall be seal coated.							
v	In lieu of placing the seal coat as required previously, and with approval of the Contracting Agency, the Contractor may deposit with the Contracting Agency for credit to the Street Maintenance Department, a negotiated agreed upon amount. The Street Maintenance Department will incorporate this work into their street maintenance program.						