


NUMBER		NOT REQ'D	NOT DONE	SATISFIED	LIBERTY UTILITIES			
					CHECKLIST			
					REVIEW #			
	ITEMS				BY		DATE	
					Location in Standards / Notes			

Final Water Report

1	A Final Water Report is required for each project at the construction Document stage.	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	Approved by Liberty Utilities.
2	Sealed and signed by a P.E.	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	
3	Introduction	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	General description of the project
4	Project location	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	Description of the location of the project and a Vicinity map shall be provided.
5	Project description # lots/commercial acres Unit densities	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	The number of lots, commercial acres, etc. Should be summarized on a parcel by parcel basis. Unit density should be indicated.
6	Identify Service Provider	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	States the project is outside the City of Goodyear service area.
7	Discuss the location and size of the existing water distribution and Transmission mains adjacent to the site.	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	Verify that the master plan is consistent with the current Integrated Water Master Plan or other master plans for the area ie. WGCPA.
8	Fire Flow Demand Residential 1,500gpm Commercial 3,500 gpm	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	5.1.2.A.2.f.(2) and 5.1.6.D.1 Residential 1,500 gpm (1 & 2 family DU) Commercial 3,500 gpm (commercial, industrial, multifamily)
9	Verify water demand summary table for all demands and for each parcel.	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	Average Day, Maximum Day, Peak Hour, Maximum Day +Fire Flow
10	Pressure and Flow Rate of the System	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	Verify Current letter from the Fire Marshal Acceptance within one year (If Reduction is requested based on sprinkler design)
11	Connection to Existing System	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	Verify connection to the existing system will be looped. At a minimum 2 points of connection shall be provided to each parcel.
12	Water Model Source	<input type="checkbox"/>	<input style="border: 1px solid red;" type="checkbox"/>	<input style="border: 1px solid green;" type="checkbox"/>	5.1.6.D.3 Average day demand scenario is based service provider. Water model based on fire flow test less than 6 months old. Verify the following: <ul style="list-style-type: none"> o The pump curve is consistent with the fire flow test o The pump is located at the same location as the tested fire hydrant.

13	Verify Water Model Included (Average Day Demand Scenario, Maximum Day Demand Scenario, Peak Hour Demand)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify pressures between 40 psi and 100 psi. Verify that the flows match the demand calcs
14	Maximum Day + Fire Flow Scenario o Fire Flow Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify that the required fire flow is supplied to each node in the model. Verify that a 20 psi residual pressure is maintained throughout the model.

Final Sewer Report

1	A Final Sewer Report is required for each project at the construction document stage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Approved by Liberty Utilities.
2	Sealed and signed by a P.E.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Identify Service Provider	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	States the project is outside the City of Goodyear service area.

Water Plan

1	Identify Service Provider	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Signed Approval block on cover sheet.
2	Add Utility No Conflict Certification Block (Filled out & Signed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.2.3, G-3112
3	Use COG Detail for Private, On-Site Fire Hydrants only. Liberty uses a MAG detail for Hydrants that they own and maintain.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G-3330
4	FH markers shown on paving plans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.6(B), G-3212
5	FH located at curb returns & BC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.6(B), G-3330, MAG 362
6	FH at end of cul-de-sac & dead ends, 400' max from looped line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.4(J.3) 5.1.6(B.2.b.6)
7	FH spacing 400' res, 300' multi-use, 1320' (at intersections) no adjacent development, 1000' where no intersections or development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.6(B.2.)
8	Meter box may be located in ROW, PUE or private easements. Check for conflicts with other infrastructure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9	New services in ex pavement must be bored under pavement. Pavement cuts are not permitted (all new pavement is to remain in a new uncut condition for a period of 5 years)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.4(D.1.d) 4.1.7(A.7) , G-3130 , G-3132 , Pavement Cut Fee Schedule
10	Any trench cut in existing pavement >600' in length must include resurfacing the pavement.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MAG 336.2.4

11	Per Mag 336.2.4.1.F – for waterlines greater than 300 feet, half street seal coat is required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MAG Sec 332
Sewer Plan					
1	Identify Service Provider	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Signed Approval block on cover sheet by Liberty Utilities.
2	Add Utility No Conflict Certification Block (Filled out & Signed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.2.3, G-3112
3	Sewer line & MH shall not cross centerline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.3.1(C) 6.3.2(A,B) 6.3.2(B.3) G-3130, G-3132, G-3134, G-3136
4	No curved sewer lines allowed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.3.1(H)
5	Dimension separation between all utilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.3.1(E) 6.4.4(E), MAG 404-1,2,3
6	No sewer clean outs allowed in R/W for gravity sewer, allowed on force mains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.3.2(B.4) 6.2.2(B.4) 6.4.4(D.1)
9	Minimum separation called out in plan & profile. Check COG utility, stormdrain and Dry Utility clearances.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.3.1(E)
10	Encasement shown plan & profile	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.3.1(F.4) MAG 404-3, MAG 507
11	MH shall be located in center of traffic lane & shall not be located in bike lanes, cross walks, sidewalks, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.3.3(B.3)
12	Any trench cut in existing pavement >600' in length must include resurfacing the pavement.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MAG Sec 336.2.4
13	Per Mag 336.2.4.1.F – for waterlines greater than 300 feet, half street seal coat is required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MAG Sec 332