

## Jackson County Water and Sewerage Authority

### Work Session

**February 5, 2015**

Chairman Ehrhardt called the meeting to order at 5:34 p.m. Members present included Chairman Dave Ehrhardt, Vice Chairman Shade Storey, and Board Member Joe Hicks. Also present: Manager Eric Klerk, Attorney Paul Smart, Authority Engineer Joe Leslie, CIO/GIS Analyst Mike Johnson, Water/Wastewater Manager Mark Dudziak and Board Secretary Karen Johnson. Visitors included Alex Pace, Main Street News and Keith Hays, Builder/Developer

### Agenda Items

#### *Authority Standards and Specifications*

Chairman Ehrhardt stated that he and Authority staff met with Keith Hays to discuss some of the concerns regarding the proposed changes to the Standards and Specifications. Chairman Ehrhardt said he felt the meeting went well and many issues were clarified.

Manager Klerk presented and discussed the Action Items placed on a spreadsheet.

Revision Number	Page	Section	Comment
1	1-19	1.1.17	Removed "or natural features" from explosives section
2	1-20	1.1.22	Removed reference to local fire district. Added requirement to contact dispatcher.
3	1-22	1.2.4	Added option for a single 12-month renewal of design approval
4	1-22	1.2.5.a	Removed disallowance of contractor attending field inspection
5	1-22	1.2.5.b	Added manholes, removed etc.
6	1-27	1.4.2	Removed requirement to show pwr, tel, gas on all residential subdivisions
7	1-28	1.4.3.f	Changed contour interval to allow 2'/10' for slopes greater than 2%
8	2-34	2.0.1	Removed reference to JCUDC
9	2-35	2.0.2.k.2	Add allowance for one 12-month extension to design approval
10	2-39	2.1.2	Removed local fire district. Added applicable building codes.
11	2-42	2.1.9.g	Removed section requiring different pipe classes for special conditions
12	2-44	2.1.14	Changed to 3/4" service line size, except for under special conditions
13	2-47	2.1.24.d	Changed to 8' tall fabric height
14	2-48	2.2.e&f	Added Pratt valves
15	2-49	2.2.h	Added M&H Model 129 hydrant
16	2-51	2.2.o	Removed requirements for gravel and sump pump. Added requirement for sump.
17	2-52	2.2.U	Changed poly-encasement evaluation to be Authority's responsibility
18	2-52	2.2.1.A.1	Changes size range to include 3/4" service lines
19	2-56	2.3.10	Removed no testing on M and F requirement.
20	3-59	3.0.2.O	Added allowance for one 12-month renewal
21	3-77	3.4.5.H	Clarified 8' "fabric height"
22	3-77	3.4.5.I	Removed concrete paving requirement for lift stations
23	3-82	3.4.6.d.3	Added allowance for HDPE, DR-11 force mains

24	4-92	4.5.9	Reduced testing requirements by 1/2 when outside road right-of-ways
25	5-101	5.3.10	Clarified that testing is not required for thrust blocks
26	Dtl C-5	n.a.	Added 3/4" service line to detail and note
27	Dtl C-9	n.a.	Added M&H Model 129 hydrant
28	Dtl C-14	n.a.	Removed rebar next to pipe
29	Dtl C-16	n.a.	Moved sump
30	Dtl C-17	n.a.	Added Sump, removed note regarding sump pump and drain pit
31	Dtl C-19	n.a.	Detail will no longer be used. Line filling backflow will be on case-by-case basis
32	Dtl E-1	n.a.	Removed concrete paving requirement for lift stations

The following action items were discussed in detail:

2-44: Engineer Leslie explained that staff looked further into the proposed recommended 1-inch service versus 3/4-inch service line. He stated staff determined (by employing Hazen-Williams formula) that if the line exceeds 50 feet or the pressure is less than 50 psi, then a 1-inch service line would be required. Manager Klerk asked Engineer Leslie if this was acceptable. Engineer Leslie said "yes", however he is still of the opinion all service lines should be 1-inch to better manage the pressure. Chairman Ehrhardt said we should look at the history and worst case scenario. Manager Klerk said this has been proposed as a compromise to the 1-inch requirement on all lines but he is in agreement with Engineer Leslie that it would be better to use 1-inch lines in all cases. Engineer Leslie pointed out that everywhere he has had experience; the lines have all been 1-inch.

2-47: Manager Klerk stated he checked with the Homeland Security recommendation regarding the height requirement of fencing fabric and Homeland Security recommends eight feet of fabric on chain link type fence.

2-52: Engineer Leslie stated this has been modified that the Authority would monitor the soil and if we find it meets the AWWA criteria for corrosive or hot soil, then we would require a poly ethylene wrap. Chairman Ehrhardt talked about the majority of the soils in our area being pretty good and hiring someone to test it may be an added expense to the project that is not justified. He said however, if there are soils that are suspect and could create a corrosive environment for the pipeline, the Authority needs to investigate that to make sure their utilities' are going to be protected. Chairman Ehrhardt said it is open to discussion as to who should bear the cost of the investigation, the Authority or the developer. He stated as of now, the proposal is to put the cost on the Authority.

3-77: Manager Klerk said the depth of stone for lift stations was discussed last week along with using concrete and asked Water/Wastewater Manager Dudziak to discuss this topic. Water/Wastewater Manager Dudziak stated concrete is a more stable environment to work on versus gravel. He said it is much easier to clean the station up as well. He said the only stations he has had problems with are the ones with gravel. A discussion ensued about the benefits of concrete versus gravel. Chairman Ehrhardt said he feels having concrete around a wet well would be safer for the Authority staff. He explained to the other board members why concrete is safer. After further discussion it was decided to make the requirement ten feet all the way around the wet well.

Keith Hayes asked about the proposed coating of the gravity flow sewers. Engineer Leslie stated many communities, Gainesville, Hall County, Cherokee County, Macon and Savannah, to name a few, already require it.

Chairman Ehrhardt stated the proposal was for deep gravity sewers (15+ in depth), to line them with a protective coating that would guard against corrosion. He stated the downside is the additional cost to the contractor but it would protect the Authority against costly repairs in the future. Water/Wastewater Manager Dudziak commented that he is looking at the standards and specs as an overview for everything that goes into the Authority's system. He said he is trying to protect the whole system. Chairman Ehrhardt said this item was discussed at length the other night with no resolution. A possible compromise with the percent change in slope to increase flow velocities or increasing the depth requirement was brought up. Engineer Leslie said he would research those suggestions.

Mr. Hayes discussed the topic of the developer being responsible for locating utility lines during the maintenance bond period – two years or until 75% build out versus the Authority being responsible before acceptance. Manager Klerk stated this has been an Authority policy since 2011. Manager Klerk asked the Board what they wanted the Authority to do but explained that if we have to be responsible he will accept that but there will be consequences from the additional work load.

Member Hicks said we have two issues, is it the Authority's legal responsibility and do we have the personnel. Attorney Smart said he will look into the legal obligation the Authority has.

No action was taken. This agenda item will be considered at the February 12<sup>th</sup> board meeting.

Chairman Ehrhardt adjourned the meeting at 7:30 pm.

Karen Johnson,  
Board Secretary