Infrastructure Stakeholders Interview

Chatham County Comprehensive Plan 2/18/2016

Location: Dunlap Classroom

Attendees:

Fred Royal, Pittsboro Town Engineer
Terry Green, Siler City Public Works Director
Dan LaMontagne, Chatham County Assistant County Manager/ Public Works Director
Larry Bridges, Chatham County Utilities Director
Tim Cannup, Mayor of Goldston
Chuck Smith, Chatham Park Representative
Brian Burkhart, Chatham County Environmental Quality Director

Staff:

Hillary Pace, Chatham County Planning Department Jake Petrosky, LandDesign Meg Nealon, LandDesign

Accomplishments and What Keeps You Up at Night (Issues)?

Siler City

- Transportation Accomplishments
 - o Ped plan is a success. New ped plan has policy and infill recommendations.
 - US 64 and E Raleigh street projects.
 - Love's creek greenway
 - SRTS projects.
 - Ped plan a major accomplishment. Ped framework biggest infrastructure concern.
- Transportation Concerns
 - Pedestrian improvements. Network created in the 50s. Then new subdivisions didn't have sidewalks.
- Utilities
 - Siler City:
 - Stormwater a major concern. Downtown area in particular.
 - Inflow and infiltration
 - Aging infrastructure. Clay pipes. Sewer lines in gutters.
 - 52 inches of rain this year. I & I repair, >\$1million (up till 08-09)
 - \$100,000 per year contract work + additional sport repair
 - Water infrastructure, east side of town, 12" water line extension to boost capacity.
 - Walmart carried this into their site. Now into progress blvd.
 - 5 storage tanks. 2.5 mil.
 - WTP 4 mgd, WWTP, 4 mgd. Average 1.8 mgd.

- During recession, lost 2 poultry plants. Took half of capacity. Pilgrims' pride.
 Went down in 2006. Towlson poultry in 2009. Jo-anne fabrics, Glendale,
 master craft, had pretreatment plant. 5-6. Now have 1.
- Water plan was close to 80% rule. In prep mode for expansion. Now City has treatment capacity that can accommodate new development.
- Have expanded both reservoirs. Due to drought. 89 upper reservoir, 90.
- Had to hold poultry plants to limit during some droughts.
- 10 years of permitting for lower reservoir. 2009 came on line.
- County is one of the largest user.
- Brookwood farms largest user. 21,000 gallons per day.
- CRM Site is 1.5 MGD max. waterline and sewer line planned and permitted.
 16" sewerline.
- Consultant will request data from City (Jack)
- CAM site and utilities
 - Permits submitted to state and returned back. Site ready to go. Design is ready. Uses existing capacity. Lines and easements secured.
 - Goal for utility construction is 12 months.
 - 18" water line, 16" forcemain sewer. Sewer could be an issue for tapping in the future. Gravity sewer/mini pump stations may be needed.
 - Plans are to follow Hwy 64
- Siler City population is slowing growing
- Siler City has a new CIP that will be ready soon.
- Rate restructuring was needed

Pittsboro:

- Has been stagnant for a long time, now rapid growth
- Utilities department mostly focused on repairs and
 - Wet weather flows are a major issue
 - Half mil grant for I&I work.
- Sewer capacity: 3.22 MGD current permit. 1.25MGD permit for Roberson plant (only at 750k), rest in an unutilized permit for the Haw River.
- Pittsboro sells reclaimed water to 3M. Wet weather effects this. Shuts down reclaimed water operations.
- Plant on Roberson Creek updated twice, needs another upgrade for efficiency.
 Upgrading it to improve nitrogen phosphorus, odor, noise, energy efficiency, biosolid treatment improvements, boxes for composting.
- Wet weather flows and issue. \$500k grant for reducing Inflow & Infiltration. video, smoke testing, prioritization, etc. Capital programming a goal.
- o Old infrastructure. Manholes in floodplains, service connections exposed.
- Water system
 - Old pipes, 2" galvanized. Need to replace.
 - New water and sewer specs.
 - New engineering inspector.
 - Modernizing
 - Jordan Lake Partnership
 - Water allocation out of lake
 - 100MGD left in the lake.

- Asked for 6mgd. Future demands analyzed, submitted and state should respond shortly.
- Will cover needs out to 2060, needs. Including chatham park.
- Plan demonstrates regional planning
- WWTP limited allocation remaining.
 - 2 mgd sought to Sanford. \$23mil revolving loan fund approved, includes upgrade of Roberson WWTP. Modernizing included. Utility rates will be impacted.
 - Existing plant is constricted
 - Haw is at 0, only permit
 - Haw will come into play, but timeline unknown.
 - 64, under bridge
 - 5 lift stations on system
- New infrastructure
 - Elevated water tank. 300k gallon tank. On 64, to be installed north of bypass.
 - Will benefit existing users. Will keep standpipe topped off so pressure is not a problem.
 - Water age problem on southside of town. New control valves will keep fresher.
 - Chatham park will utilize reclaimed water
 - Average water use is 100 gpd per person. Includes water loss.
 - Goal is to get to 60 gpd.
- o Chapel Ridge is biggest user for water.
- o Purple pipe (reclaimed water) required everywhere in Chatham Park.
- o Rewriting water efficiency ordinance. Irrigation, emergency, reuse, restrictions, etc.
- Bulk re-claimed fill up station. For irrigation, etc. Will reduce potable use demands.
 Reduce discharge into Robeson creek to make capacity last more.
- Cary as a precedent. Main reclaimed water lines for certain zones.
- o 6-8 mgd demand for water long term. 2mgd can go to Sanford, 750k at Robeson creek.
- Water taste odor in southern side of town.
- Big infrastructure projects in pipeline not in design stage but close, in NE side of town. Old infrastructure in the S side of town.
 - Habitat project needs grant \$ for water line installation (0.25 miles of pipe for 35 lots)
- Will partner with County for interconnection studies to buy capacity from County or others
- County water and sewer systems:
 - Purchase from Sanford, for south. From Siler city for west and sw part of county. 3mgd water plant for moncure and NE area.
 - NE irrigation is an issue. Interconnection with Durham for emergencies is in place. 3mgd authorized, but depends on availability.
 - System is relatively new.
 - SW part of system has issues. Installation issues.
 - Inherited older well systems. Maintenance issues. I.e. Fearrington, Nature Trail (mh community) (replacing waterlines).
 - County has not been in sewer business.
 - Small wwtp for bynum community. 25k a day. 40 homes and school
 - Big private developments have package plants.

- Role of the county in the future.... May include sewer.
- Poor wg an issue with rural system
- Continuing demand to provide sewer
- Have 6mg allocation from lake. Will have 12 mgd in 2040, 18 MGD in 2060.
- Where is it going? More water = Need sewer for increased in water ... then IBT becomes an issue... interbasin transfer permit if treatment capacity (and return) in another basin from water supply basin
- Some interest in decentralized systems.
- Partnerships will be key, i.e. upsizing pump stations on northside of Pittsboro
- Defining sewer sheds will be key to land use plan
- Interbasin transfer issues will need to be addressed, i.e. Jordan to deep
- Interconnection study with Pittsboro, Durham to county to bynum/Pittsboro
- Connection exists with Siler City
- Goldston has sewer and water
- Infrastructure is key to Economic Development
 - Need for additional job opportunities. 55% commute outside. >10% commercial/ind tax base, retail \$ lost

What is more pressing, utilities or transportation?

- NE maybe transportation
- Utilities are secondary...
- N/S traffic capacity is a huge issue.
- DOT, super street design for 15/501.
- Northwood bojangles @ 8:00.
- US 64 Bypass, on northside of Siler City (20+ years)
- US 421 CAM Site connector important, some county land
- RR is asset and needs to be protected.
- Link to CAM Site, potential more users
- Siler city municipal airport.
- Bike Plan is a major accomplishment
- Rocky River regional trail connection needs to be taken into account.
- Transmission lines, cardinal pipeline goes under the Lake in New Hill Area to Orange and Alamance?
- Maintenance an issue regarding roads and water/sewer. Planning effort will address strategic steps, action items, at the end of the process, maybe with a dollar figure. Brings attention to maintenance and service investments needed.
- Fracking study- the pipelines are a bigger impact than the well drilling.
 - o Jake limited to Jordan Lake area, conversations with Geologist at ASU
 - Dan- Lee/Deep River area of fracking interest. Depths of shale.
 - Natural gas down
 - Helium up could be another part of the conversations
 - BMPs will be developed with fracking study.
 - Truck traffic may be an issue with drilling. Road maintenance may be a bigger impact than the drilling.