

CITY OF LANSING

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WORK SESSION AGENDA

**January 22, 2015
Thursday
7:00 p.m.
Lansing City Hall**

Call To Order:

- I. Sanitary Sewer Capital Projects
 - II. Adjournment
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-

TO: Michael W. Smith, City Administrator *MS*
FROM: Sarah Bodensteiner, City Clerk *SB*
DATE: January 16, 2015
SUBJECT: Work Session Summary

I. Sanitary Sewer Capital Projects

- Staff and consultants from George Butler Associates will give an update to the City Council on the status of the projects as well as the challenges faced within the sanitary sewer collection system.
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WORK SESSION SUMMARY

TO: Michael W. Smith, City Administrator *ms*
FROM: Anthony J. Zell, Jr., Wastewater Utility Director *TZ*
DATE: January 16, 2015
SUBJECT: Sanitary Sewer Capital Projects Work Session

The Sanitary Sewer Master Plan was approved by the Lansing City Council on December 18, 2014. A copy was sent to KDHE for their review and approval. KDHE approved the Master Plan on January 15, 2015. The Master Plan has identified numerous projects throughout the city, both to remedy current deficiencies and to prepare the city for growth.

The 7 Mile Creek Action Plan is nearing the bid phase of the project. Plans and construction documents have been reviewed and approved by city staff, and are currently under review by KDHE. The next steps for this project are easement acquisition, which may take 90 days, and then bidding the project with construction beginning thereafter.

Staff and consultants from George Butler Associates will give an update to the City Council on the status of the projects as well as the challenges faced within the sanitary sewer collection system.

WORKSHEET - 2015-01-16



Sanitary Sewer Capital Projects Work Session

January 22, 2015

Presented By:

Anthony J. Zell, Jr., Wastewater Utility Director

Beth Sanford, Finance Director

Tim Schneller, P.E., George Butler Associates

Tonight's Agenda

- Discuss Sanitary Sewer Master Plan Results
 - New Information From Plan
 - Future Growth
- Update Status of 7 Mile Creek Action Plan
 - Updated Cost Estimate
 - Still Need to Acquire Easements
 - Timeline for Construction
 - KDHE Approval
- Determine Funding for Future Projects

Questions to Consider

- Do You Want The City to Continue to Grow?
- Where Do You Feel Growth Will Be Most Concentrated?
- How Much Growth Should The City Plan For?
- How Will The Needed Upgrades Be Funded?
- What Statutory Requirements Are The City Subject To?
- When and Where to Begin 7 Mile Action Plan?

Sanitary Sewer Master Plan

- Report Indicated That The Other Interceptor is Undersized for Current Flows (9 Mile Interceptor)
- There is No Capacity For Additional Growth
- Development Areas Impacted
 - Rock Creek Ridge – 4th Plat
 - Any Land South of Mary Street
 - South Half of Towne Center
 - Area Around New High School

Master Plan Recommendations

- **Modeling and Analysis Explanation – GBA**
 - Display Figures 5.1 – 5.6
- **Table 6.1 of Master Plan**
- **Maps of Projects**
- **Some Projects Are Needed Now**
- **Some Projects Will Require Additional Study and Investigation**
- **Some Projects Will Be Needed Decades From Now**

7 Mile Creek Action Plan Update

- Development Areas Affected
 - All Land North of Mary Street
 - North Half of Towne Center
 - West Mary Street Benefit District
 - Main and Connie Street Benefit District
 - Eisenhower Crossings
- 100 % Plans and Construction Documents
 - Staff Approved
 - KDHE Review Underway
- Appraisal Work for 26 Parcels Complete
- Land Acquisition - \$62,000
 - Agreements with LCF and Leavenworth Waterworks Complete
 - Consultant Waiting For Direction

7 Mile Creek Action Plan Update

- Engineer's Latest Cost Estimate
 - Geotechnical Work Indicated Extremely Poor Soils
 - \$5,408,550 - All Three Phases
- Once Land is Acquired, Project Ready to Bid
- KDHE Plan Agreed to Build Phase I and II by end of 2016
 - Entire Project Complete by 2018
 - Staff Recommendation – Build Entire Project to Prepare for Growth
 - Problems With Delays
 - Quarterly Progress Update to KDHE Due March 1, 2015
 - Outdated Appraisals – Cost to Renew
 - Timeline on Negotiations for Temporary Construction Easements
 - Landowner Agreements
- Until Project is Completed, Future Growth Can Not Occur

Summary of Capital Project Costs

- Inflow and Infiltration Examination and Investigation - \$500,000
 - System Repairs in Existing Basins - \$3,500,000**
 - Relief Sewers For Existing Systems
 - 7 Mile Creek Action Plan - \$5,408,550
 - Projects 1 through 5 - \$3,730,300**
 - Projects 6A and 6B - \$6,580,000**
 - Future Relief Sewers for Growth
 - 9 Mile Interceptor, Phase 1 - \$2,961,000**
 - 9 Mile Interceptor, Phase 2 - \$5,712,000**
 - Basin 10 Interceptor - \$985,600**
- **Includes a 40% Project Contingency**

Project Explanations

- I/I Reduction
- System Repairs in Existing System
- Relief Sewers
 - Action Plan
 - Projects 1 – 5
 - Projects 6A and 6B
- Future Relief Sewers for Growth
 - 9 Mile Interceptor, Phase 1
 - 9 Mile Interceptor, Phase 2
 - Basin 10 Interceptor

Recommendations

In 2015

- Submit Additional Action Plan to KDHE For 9 Mile Basin
- Bid and Complete 7 Mile Creek Action Plan - \$5.4M
- Begin Design Work Immediately for Project 5 and Project 6A
 - Estimated Design Costs – \$310,000
 - Payment Through Base Budget and Capital Reserve
- Develop Multiyear Plan for Additional Projects (system repairs, projects 1 thru 4)

2016

- Construct Project 5 - \$672,000
 - Construct Project 6A - \$3.29M
- Total Costs for Projects - \$9,362,000

Next Steps

- Proceed with Easement Acquisition
 - Develop 9 Mile Creek Action Plan for KDHE
 - Begin Engineering Services for Design of Projects 5 and 6A
 - Bid 7 Mile Creek Action Plan
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- Adjust Sewer Rates in 2015?
 - If So, How Much?
 - Rate Study in 2015 or 2016?

Comments and Questions

