

2014 Public Works Annual Review



Table of Contents

Introduction and Overview 2

Mission Statement..... 3

Goals and Objectives 5

Projects and Programs..... 7

Active Projects List..... 24

Significant Accomplishments 26

Executive Summary 28

Introduction and Overview

The Public Works Department is a dynamic organization that is comprised of 61 personnel and has an annual operating budget of \$8.4 million dollars. We maintain 360 miles of water and sanitary sewer infrastructure and easements, 180 miles of streets and street right-of-way, 120 miles of storm drains and ditches, 35 traffic signals, 1000 + street lights, five water tanks, eight water wells, 8,400 water meters read every month, maintain over 100 City vehicles (from other departments) and operate Jessamine cemetery. We manage the East Madison County Regional Sewer and Ridgeland West Sewer systems for Ridgeland, the City of Madison and Pearl River Valley Water Supply District. The department also manages the solid waste, recycling, and landscaping, and cell phone tower contracts with a total annual dollar amount over \$2 million dollars. These are only the specified tasks and do not include all of the implied tasks required to make all of this happen.

I am pleased to report that the City of Ridgeland Public Works Department is on track to accomplish all of its goals and objectives. The theme for this year's report is focused on environmental stewardship, infrastructure improvement projects and other accomplishments to include:

- Installation of Solar Powered Recycling Compactors
- Inclusion of Local Business in the Recycle Bank Program
- Oil Analysis Program
- Asphalt Recycling
- Sewer Lift Station Removal
- Induction Street Lighting
- Re-Certification in the Enhance Program

Our active projects for the upcoming year include:

- Lake Harbor Drive Widening
- Lake Harbour Drive Extension
- Colony Park Boulevard
- Craft Center Parking Lot Improvements, Projects "B" & "C"
- East Jackson Street Multi-Use Trail
- Jackson Street Sewer Lift Station Abandonment
- EMCRS Interceptor Rehabilitation
- EMCRS Metering Station Improvements
- Purple Creek Regional Sewer Interceptor Rehabilitation
- Highway 51 Sanitary Sewer Line Extension from Prassel Lumber Company to Purple Creek.
- Highland Drive Sewer Improvements
- Optical 2000 Sewer Improvements
- Samuels Lane Water Supply Well
- Ash Court Water Line Loop
- Stephens Street Ditch Rehabilitation
- Induction Street Lighting Retrofit

Introduction and Overview

Major projects completed during this rating period include:

- Water and Sanitary Sewer System Facilities Plan
- Water Well Meter Calibration Program
- Western Water System Improvements-Phase III
- Sunnybrook Road and Steed Road Utility Relocations for I-55 Frontage Roads project
- Pear Orchard-Towne Center (Indian Cycle) Erosion Improvements
- Parkside Village Ditch Improvements
- Craft Center Parking Lot Overlay and Striping, Project “A”
- Old Agency Village ADA Curb Ramps
- Shadowood ADA Curb Ramps
- Recycled Asphalt Testing and Analysis
- Langenburg and Groundworx Wastewater Treatment Evaluation
- Induction Lighting Study at West Jackson Street Plaza Parking Lots
- Township Water Line Relocation at Southtowne Avenue
- Colony Park Boulevard Right-of-Way Appraisals
- Local Street Repair and Overlay on 32 different streets
- Avery and Towne Center Bike Lanes
- Successful completion of MPO Project Surface Transportation project applications resulting in the award of over \$3.5 million dollars

This report will include the status and environmental stewardship effort of all active and completed projects during this rating period.

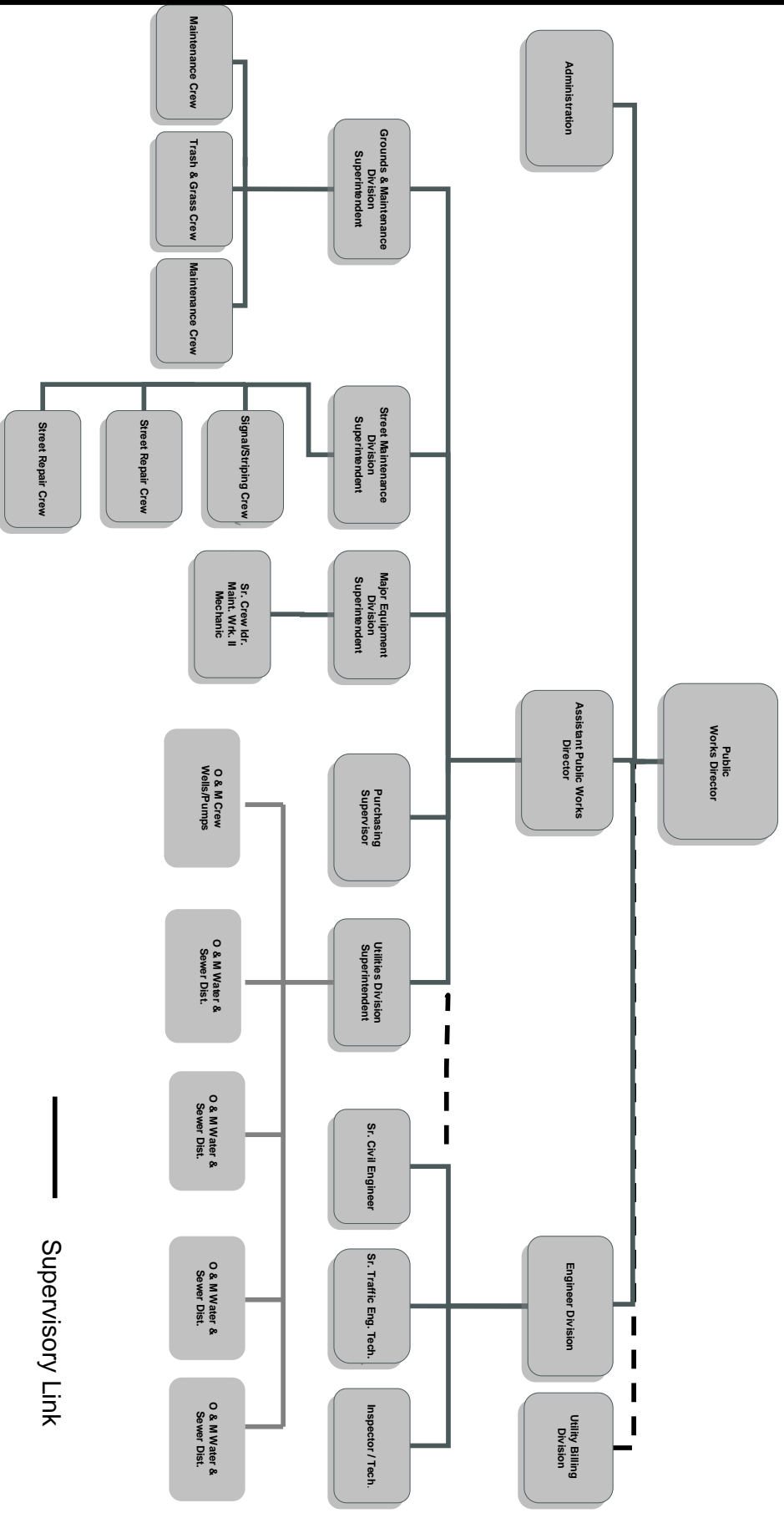
Mission Statement

Each day The City of Ridgeland Public Works Department will provide and maintain potable drinking water, sanitary sewer, storm sewer, streets, solid waste, mosquito control, and cemetery services as required in an effective, environmentally conscious and safe manner to ensure the health, safety, welfare and a high quality of life for all Citizens.

Directors Intent:

We work for the citizens of Ridgeland and will treat them with dignity and respect. We will use new technology to increase our productivity and efficiency. Our projects will include environmental stewardship, livability and quality of life integrated into their development. The Public Works Department will participate with other City Departments to accomplish the mission of the City. We will plan, prepare and execute our emergency response plans in conjunction with other agencies and City Departments. We will accept risk in mission accomplishment to accommodate the safety of our employees. We will recruit the most professional and qualified employees possible commensurate with the job position.

PUBLIC WORKS DEPARTMENT ORGANIZATIONAL CHART



— Supervisory Link

- - - - - Technical Link

Goals and Objectives

The following are the goals and objectives that the Mayor agreed to at my last evaluation. These goals and objectives are supported from the director down to the crew leader level. A semi-annual review of these goals are discussed or amended as agreed to between the rated individual and the rater.

1. Goal – To increase the efficiency of work in the Public Works Department in order to provide timely and quality service to the Citizens of Ridgeland.
 - a. Objectives
 - i. Update/Improve on essential task and supporting task for each division in order to provide guidance on what is to be accomplished through developmental counseling.
 - ii. Conduct a field evaluation and After-Action- Review annually on how essential tasks are accomplished in order to determine what tasks need to be sustained and need improvement
 - iii. Ensure that all supervisory personnel successfully complete management training provided by the Mississippi Personnel Board
 - iv. Brief the Mayor and Board on requirements and recommendations that resulted from the assessment
 - v. Update and add units to the vehicle tracking system

 2. Goal - To conduct an analysis on all contract services to determine the most cost effective methods and to achieve the highest level of service in the least amount of time
 - a. Objectives
 - i. Provide recommendations to the Mayor and Board of Aldermen on the following services: Trash disposal, recycling, mosquito control, street cleaning, meter reading and landscaping
 - ii. Continue a yard debris pick up service on a monthly basis utilizing the knuckle boom truck.
 - iii. Recommend to the Mayor and Board the most cost effective and highest quality recycling and solid waste services.
 - iv. Increase our participation and education of recycling services by including multi-family and small business in the program.

 3. Goal - To improve the personnel evaluation system in order to provide incentives to employees who excel
 - a. Objectives
 - i. Agree on goals and objectives for each employee that I rate in order to translate the Mayor and Board of Alderman’s vision on what is to be accomplished
 - ii. Ensure that goals and objectives are established by my subordinates and the people that they rate.
 - iii. Review goals and objectives with my subordinates every six months and ensure they do the same with their subordinates in order to track progress and make necessary changes
-

Goals and Objectives

4. Goal - Establish a method to complete work orders over 30 days old (Ongoing)
 - a. Objectives
 - i. Conduct a weekly staff meeting to determine why work orders are not being completed and hold the Assistant Public Works Director accountable to complete over-due work orders
5. Goal - Provide employees an opportunity for a higher level of training to foster upward mobility.
 - a. Objectives
 - i. Conduct backhoe, tractor, chipper, and chainsaw operations classes and hands on training at least two hours per week
 - ii. Offer at least eight hours of institutional continuing education to each employee that is job related
 - iii. Superintendents will successfully complete the Basic Supervisory Course sponsored by the Mississippi Personnel Board
 - iv. Require a Class A CDL license for all truck drivers where required
6. Goal - Establish a plan to help mitigate the effects of natural and manmade disasters
 - a. Objectives
 - i. Exercise the emergency plan on how to plan, prepare and execute procedures to reduce the loss of life and property
 - ii. Attend the Hurricane Conference and associated training
 - iii. Establish and maintain an Emergency Operation Center
7. Goal - Manage professional services in the planning, preparation and construction of capital projects to ensure professionals are focused on priority tasks
 - a. Objectives
 - i. Establish a schedule for capital projects with the who, what, where, when and how as the criteria
 - ii. Conduct a monthly capital projects meeting with the appropriate professionals to ensure deadlines are met on project phases
 - iii. Focus on new road projects such as Lake Harbour Drive Widening & Extension and Colony Park Boulevard
 - iv. Develop a detailed facilities plan for water and sanitary sewer infrastructure
8. Goal - Provide better communication with the Mayor and Board of Alderman with regard to project status (ongoing)
 - a. Objectives
 - i. Provide an updated briefing format that will provide an overview of project status at a glance
 - ii. Meet with project engineers at least monthly on all active projects to determine the progress on each one.
 - iii. Email a monthly project status report to the Mayor and Board of Alderman

Goals and Objectives

9. Goal - To ensure compliance with all Safe Water Drinking Water Act requirements
 - a. Objective
 - i. Maintain chlorine analyzers to ensure four log treatment of the water system
 - ii. Complete the consumer confidence report and correct any deficiencies

Projects and Programs

Environmental Projects:



Solar Powered Recycling Compactors

The City installed 10 solar powered compactors through a grant from the Mississippi State Department of Environmental Quality to encourage our Parks and Trail users to recycle.

Alternative Fueled Vehicles



Alternative Fueled Vehicles

Waste Management at our request has deployed all natural gas trucks for disposal of our solid waste and recycling. This change from diesel fuel is equivalent to taking the emissions of 300 cars off the road per day in the City of Ridgeland.

Oil Analysis Program



Oil Analysis Program

Prior to changing the oil in our Public Works Vehicles we sample the oil to determine if a change is needed. The test cost \$7.00. We have found that the majority of vehicles do not need the oil changed at the standard 4000 miles extending the time between changes. While all of the data is not in on this program we are optimistic that we can reduce cost and the amount of used oil. We also recycle all of the oil and filters on vehicles we service for the entire City fleet.



Keep Ridgeland Beautiful



Ridgeland Community Garden

The Ridgeland Community Garden is an integral part of the Keep Ridgeland Beautiful effort. We receive donations from Lowe's, Waste Management and the Master Gardeners. We are in partnership with First Baptist Church of Ridgeland for volunteer workers and produce



Great American Cleanup

Keep Ridgeland Beautiful as part of the Great American Cleanup held on May 10th organized a neighborhood cleanup day. Over 15 subdivisions participated in this event to beautify and cleanup their neighborhoods.



Household Hazardous Waste Day

The City of Ridgeland held its House Hold Hazardous Waste Day on May 17th at Holmes Community College. Over 650 county residents participated in the event where residents disposed of chemicals, gasoline, used oil, batteries, tires, old electronics. We also provided document shredding for the first time. This events was funded through the Mississippi Department of Environmental Quality and Madison County.

Induction Street Lighting Study

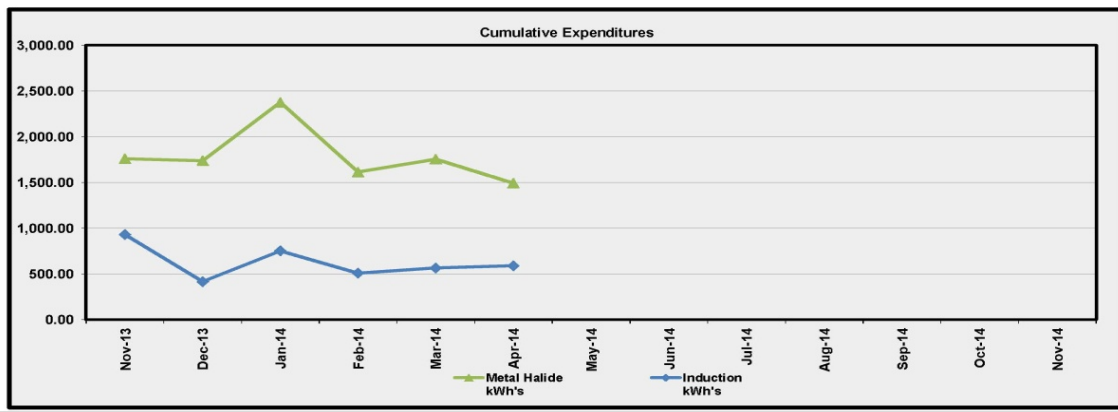
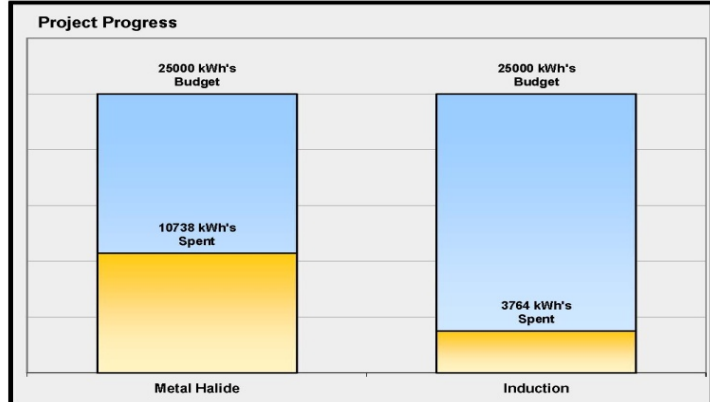
2013-2014 Induction Lighting Study West Jackson Street Parking Lot



May 7, 2014

Budget Summary:

Metal Halide Spent to Date	\$	1,201
Induction Spent to Date	\$	412
Savings		65.7% Reduction



Induction Lighting Study

In November 2013 the City began a study comparing standard metal halide street lighting with induction lighting using the decorative street lights located in the West Jackson Street Plaza Parking Lots. The results of this study show there is a 67% savings using the alternative induction lighting. These savings would have a significant impact on our \$385,000 street lighting annual budget. We propose to begin an induction street lighting conversion at our metered street lights at each traffic signal. Currently we can only convert the lighting that is metered; however, we have initiated discussions with Entergy to convert leased street lighting as well.

Asphalt Recycling



Asphalt Recycling

The City started a new asphalt recycling program this year in order to reduce the cost of street maintenance and the cost of taking milled asphalt to the landfill. We estimate an annual cost savings of over \$90,000.00. Our capital investment was just under \$100,000.00 for the equipment. We hired a local testing laboratory to test and evaluate our recycled asphalt pavements. Their recommendations were instrumental in optimizing our recycling process and the development of a useful product for our City Streets.



Enhance

Mississippi Department of Environmental Quality (MDEQ) Enhance Program

Enhance is designed to encourage voluntary environmental stewardship by recognizing committed environmental leaders, thus nurturing the reduction of waste and conservation of resources, resulting in long term economic benefits and continuous environmental enhancement. The Program has three levels of recognition that are Leader, Steward and Associate. The City of Ridgeland is the only City in the State that is currently at the Steward level. Pictured below is left Mayor Gene McGee, Center Trudy Fisher Executive Director for MDEQ and Mike McCollum Director of Public Works receiving the Stewardship recognition for the City.



Asphalt Overlay and Pavement Maintenance

Pavement Maintenance

During the reporting period of June 2013 to June 2014, the Public Works Department completed the repair and overlay of 32 different local streets. Various methods of pavement rehabilitation and preservation were implemented in an effort to maximize budget and extend the life cycle of our roadways.

Full Depth Reclamation (FDR) was used on Evergreen Street using our Asphalt Zipping machine. This pavement rehabilitation technique is used to provide base stabilization in areas with poor subgrade conditions. FDR provides a cost and time savings in comparison to the conventional method of subgrade stabilization using excavation, backfill and lime stabilization. Evergreen Street was the first complete City street where the FDR process was utilized using our own city equipment.

Micro-Surfacing was used on Avery Boulevard and Towne Center Boulevard as a pavement preservation technique to prevent further pavement deterioration and return the surface to its original color, which aided in the delineation of new pavement markings. The Micro-Surfacing process provides a thin lift of asphalt, which corrects and prevents surface distress in older pavements that are still in good structural condition. Micro-Surfacing restores the surface texture, fills cracks and voids and corrects raveling. This process has shown a 5 to 7 year service life in many applications including local streets, interstates, airport runways and parking lots. Micro-Surfacing is half the cost of conventional milling and overlay and is applied at a higher production rate. By resurfacing Avery Boulevard and Towne Center Boulevard we were able to restripe the roadways with added bike lanes in each direction of travel.

Streets Completed June 2013 – June 2014

COUNTRY CLUB WOODS	<ul style="list-style-type: none"> ▪ Midway Avenue ▪ Mallett Street ▪ Simmons Street 	<ul style="list-style-type: none"> ▪ Tecumseh Cove ▪ Mesquaki Drive ▪ Red Eagle Circle ▪ Old Agency Blvd.
<ul style="list-style-type: none"> ▪ Green Forest Road ▪ Pine Needle Court, West ▪ Pine Needle Court, East ▪ Oak Leaf Court, West ▪ Oak Leaf Court, East ▪ Ash Court ▪ Pine Knoll Court ▪ Pine Court Drive 	OLDE TOWNE	LOCAL AND COLLECTOR ROADS
<ul style="list-style-type: none"> ▪ Holmes Street ▪ Lenard Avenue ▪ Greaves Street 	<ul style="list-style-type: none"> ▪ Ford Street ▪ Blanch Lowe Drive ▪ West Porter Street ▪ East Porter Street ▪ Madison Drive ▪ North Wheatley Street ▪ Wahington Street ▪ North Perkins Street ▪ Magnolia Street 	<ul style="list-style-type: none"> ▪ Evergreen Street FDR ▪ Lake Harbour Drive Hump Repair ▪ Avery Blvd. Micro-surfacing and Bike Lanes ▪ Towne Center Blvd. Microsurfacing and Bike Lanes
	OLD AGENCY VILLAGE	
	<ul style="list-style-type: none"> ▪ Semoia Lane 	

Asphalt Overlay and Pavement Maintenance



Avery Blvd Micro-Surfacing, Striping and Bike Lanes

Micro-Surfacing is a new pavement preservation application to Ridgeland. However, the cost savings is 50% less than a traditional 2-inch asphalt overlay. We will evaluate this to see if it is a cost effective way to rehabilitate our streets.



East Ford Street Asphalt Milling and Overlay

Asphalt Overlay, Pavement Maintenance & ADA Curb Ramps



ADA Curb Ramps in Old Agency Village



Red Eagle Circle Milling and Asphalt Overlay in Old Agency Village

Asphalt Overlay and Pavement Maintenance



Evergreen Street Asphalt Full Depth Reclamation



Richmond Grove Milling and Asphalt Overlay

Drainage Projects



Parkside Village Ditch Improvements

A section of Beaver Creek just east of its crossing Highway 51 was severely eroded as a result of Hurricane Isaac to the point where underground utilities were exposed. As a result of the storm erosion the Natural Resources and Conservation Service (NRCS) funded this project to re-establish and stabilize the Beaver Creek banks. The design, bidding, contract administration and construction inspection of this project was accomplished entirely by Public Works staff saving the City an estimated \$50,000 in consultant fees.



Pear Orchard-Towne Center (Indian Cycle) Erosion Improvements

This project also was funded by the Natural Resources and Conservation Service (NRCS) and the City of Ridgeland.

Drainage Projects



Pear Orchard-Towne Center (Indian Cycle) Erosion Improvements & Parkside Village Ditch Improvements

The before and after pictures of each NRCS funded project illustrate the improvements made to the drainage conditions at each site as well as improved aesthetic value.



Typical Curb Drainage Improvements

Each year our department evaluates curb conditions for drainage based on observation and citizen notification. This is an example from School Street where we installed a drainage inlet in the curb where water was holding in the street and homeowner's driveway. These improvements give our streets a longer service life, improve safety, and better the property appearance.

**Stephens Street Ditch
Improvements**

The Ground Maintenance Division improved this drainage ditch on Stephens Street in Old Town. Pictured is the grass matting laid down to prevent erosion.

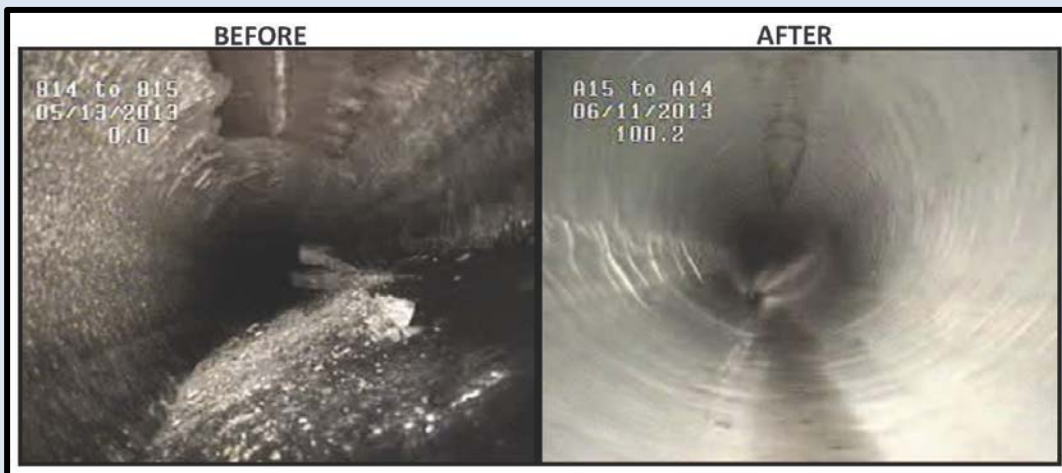


Sanitary Sewer Rehabilitation



Jackson Street Sewer Lift Station Abandonment

This project provided a gravity-flowing sanitary sewer line to replace the existing force main and lift station. The project began at the lift station in the Chevron parking lot on Jackson Street and connected to our existing sewer line on Perkins Street. Sewer lift stations are a mechanical means of transporting sewer flows and are subject to failure. By eliminating the need for the lift station we have removed a great amount of risk for a sewer overflow at this highly visible location and completely removed the operation and maintenance costs associated with pumping. The re-design, bidding, contract administration and construction inspection of this project was accomplished entirely by Public Works staff saving the City an estimated \$105,000 in consultant fees.



EMCRS Interceptor Rehabilitation at Lake Harbour Drive

A section of the 36-inch sewer interceptor was cleaned and lined under Lake Harbour Drive where full pipe deterioration was present and a threat to health, safety and environmental catastrophe. This repair provided a renewed 50 year service life to the interceptor.

Active Projects List

- a. Madison Ridgeland Split Diamond Interchange- Frontage Road:
Under Construction, Utility Relocations are complete
- b. Lake Harbour Drive Widening, Hwy 51 to Northpark Drive:
Construction is 90% complete
- c. Western Water System Improvements, Phase III Water Connector Lines:
Base Bid, Additive Alternates No.1 and 2 are all complete
- d. Lake Harbour Drive Extension, Hwy 51 to Highland Colony Parkway:
Final Design is 90% complete. We are currently working on ROW document preparation.
- e. Water and Sanitary Sewer Facilities Plan: Complete
- f. Water Well Meter Calibration Program: Complete
- g. Longmeadow Drainage Ditch Improvements:
The scope of the project has been modified to making field determined spot repairs using City Forces.
- h. Samuels Lane Water Well:
An EPA grant was received this year for partial funding of the project. Construction drawings are complete awaiting approval from MSDH, MDEQ and EPA prior to beginning the bid phase. The design, permitting and contract administration of this project is being accomplished entirely by Public Works staff saving the City an estimated \$110,000 in consultant fees.
- i. Craft Center Parking Lot Improvements:
 - i. Project "A" - Overlay and Striping of Existing Parking Lot = Complete
 - ii. Project "B" - New Parking Lot on Northeast Corner of Property = Design 70% complete.
 - iii. Project "C" New Parking Lot on Southwest Corner of Property = Design 70% complete.
- j. Colony Park Boulevard:
ROW appraisals are complete. ROW acquisition consultant is in place to begin buying ROW when funding is in place.
- k. East Jackson Street Multi-Use Trail:
The survey is complete. Construction drawings are being prepared in-house in accordance with the LPA process. We estimate \$30,000 of savings in consultant fees by designing and administering the project under LPA guidelines using Public Works staff. The survey fees will be credited towards our construction match requirement.
- l. East Madison County Sanitary Sewer Interceptor Rehabilitation
Construction anticipated this summer.
- m. Purple Creek Sanitary Sewer Interceptor Rehabilitation
Construction anticipated this summer.
- n. Highland Drive Sanitary Sewer Replacement
The City Attorney is preparing easement documents. Construction is anticipated for this summer however the schedule is dependent on easement acquisition. The City is saving an estimated \$10,000 in consultant fees by designing the project using Public Works staff.

- o. Highway 51 Sanitary Sewer Line from Prassel Lumber Company to Purple Creek.
Construction is anticipated for this summer. The City is saving an estimated \$10,000 in consultant fees by designing the project using Public Works staff.
- p. Optical 2000 Sewer Improvements
Replacement of an existing sewer line behind Optical 2000 that has chronic blockage problems is anticipated for this summer. The City is saving an estimated \$5,000 in consultant fees by designing the project using Public Works staff.
- q. Ash Court Water Line Extension
Problems maintaining residual chlorine levels at a dead-end water line created the need for connecting to a nearby water line to provide a “loop” feed and improve water system circulation. A temporary repair was completed earlier this year. The City is saving an estimated \$5,000 in consultant fees by designing the project using Public Works staff.
- r. Stephen Street Drainage Ditch Stabilization
This project is under construction using City Forces to provide positive drainage along an evenly graded grass ditch with stabilized banks. The City is saving an estimated \$30,000 in consultant and contractor fees by designing and building the project using Public Works staff.

Significant Accomplishments

- Served on the Intermodal Transportation Technical Committee and helped to facilitate the approval of funds for MAP 21 projects
- Served on the Intermodal Transportation Sub-Committee and was instrumental in developing the selection criteria for MAP 21 Projects
- Served on the Madison County Wastewater Authority Technical Committee
- Served as Chairman of the Keep Ridgeland Beautiful Committee and applied for and received our affiliation with Keep America Beautiful
- Served on the Mississippi Recycling Coalition Board of Directors
- Served as the Safety Officer and chairman of the Executive Safety Committee
- Served on the Madison County Transportation Committee
- Served in assisting with the planting of the Community Garden
- Assisted Madison County in the execution of House Hold Hazardous Waste Day
- Attended the American Public Works Association Annual Conference
- Conducted an informational brief to the Mayor and Board on infrastructure requirements
- Regularly provided the Mayor, Board members and other Department Heads minutes of the weekly staff meeting and monthly project status report meeting.
- Maintained Water and Wastewater Operator Certification from the Mississippi State Department of Health and Environmental Quality
- Completed over 1,767 requests for services, an increase of 425 over the previous year in addition to everyday tasks
- Managed all professional service contracts to include landscaping, solid waste, recycling, water tank maintenance and engineering
- Updated the annual request for proposals package and contract documents for FEMA eligible disaster debris removal, monitoring and management services in accordance with the latest FEMA regulations to ensure the City has the necessary services in position to recover from a disaster event and receive Federal and State assistance.
- Established an Oil Analysis Program to reduce the number of vehicle oil changes required
- Created a detailed study of induction lighting that indicates substantial savings on outside lighting requirements.
- Maintained records on over 60 vehicles on the tracking system that have kept vehicle accidents to a minimum
- Managed cell phone leases to ensure payments are now coming to the City of Ridgeland in the amount of \$301,000.00 annually.
- Prepared five budgets for Utilities, Street, East Madison County Sewer, Health and Welfare and Jessamine Cemetery
- Managed the Recycle Bank Program
- Sustained a four-day workweek in order to improve efficiency and reduce operating expenses.
- Facilitated the recertification of the City in the Enhance Program by expanding the recycling program to include solar powered recycling compactors and asphalt recycling.
- Enabled Ridgeland to receive the Environmental Hero Award from the Mississippi Recycling Coalition by implementing a new city wide recycling program, solar powered recycling compactors and asphalt recycling program.

- Received a perfect 5.0 score from the Mississippi Department of Health for Water System Operation and Management making it one of best-managed water systems in the state.
- Named a Bicycle Friendly Community by the League of American Bicyclists
- Completed a program to calibrate and rebuild water well flow meters to increase the accuracy of water loss reporting.

Executive Summary

The City of Ridgeland Public Works Department is once again taking a proactive approach in the execution of the Ridgeland Area Master Plan, Transportation, Water and Sewer Capital Improvements Plans, the City Mission and Environmental Policies. We are always looking to the future to ensure our lines of communication (streets, water, sewer and drainage) support growth and are maintained to a high standard. In this summary I will discuss my vision in the areas of funding, major infrastructure concerns and environmental stewardship during the next five years.

Funding:

Federal Funds- These funds include MAP-21, Special Appropriations by Congress, Transportation Alternatives Program, State and Tribal Assistance and Hazard Mitigation Grants. Generally speaking with the exception of Special Appropriations there are still opportunities to obtain funds through these programs. One trend we have noticed is that the local share for all Federal Funds is increasing making it more difficult for local government to meet its obligation for matching funds.

State Funds- Most of the State Funding we receive originates with the programs listed above and are managed by a State Agency such as Mississippi Department of Transportation, Department of Health and Department of Environmental Quality. We do occasionally receive funding from State issued obligation bonds but these are more political in nature and not something we plan on receiving. The State also has the State Revolving Loan Fund that is usually reserved for water and sewer projects at very competitive interest rates. The Mississippi State Department of Wildlife Fisheries and Parks has a competitive grant program designed for recreational trail improvements that we have successfully applied for in the past.

County Funds- We receive most of our funding from Madison County through the Road and Bridge Tax in the range of \$700 to \$800 thousand dollars annually. These funds are restricted to road and bridge maintenance and are guaranteed by state law to come to the municipality based on tax collections. The County may also fund projects directly out of its budget. These funds are highly political and not a reliable source of funding for planning purposes as the situation with the current Board of Supervisors is highly volatile. The County also manages the State Aid Program where the City has 5 collector and arterial roads and 5 bridges. While the City will not receive these funds directly, we will benefit by the rehabilitation of State Aid Roads that are in the Corporate Limits.

Local Funds- The Public Works Department funds many of its smaller projects through the operating budget that is a good pay as you go method of funding. However, some of the larger projects (over \$1 million dollars) are usually funded by one of the methods listed above or some combination of local, state or federal funding. The City also has the option to borrow money through general obligation bonds, revenue bonds or direct loans from the Mississippi Development Bank or other banks. The City must take care to closely manage its bonding capacity to ensure there are funds available for future projects in the long term to cover major infrastructure concerns.



Outside Funding Received through the Public Works Department June 2013 – June 2014

FUNDING RECEIVED	\$13,927,000
\$6.77M in STP Funding for Lake Harbour Drive Widening Construction Reimbursements	
\$424,469 in STP Funding for Lake Harbour Drive Extension Engineering Reimbursements	
\$3.3M in STP Funding committed for Lake Harbour Drive Extension Construction	
\$110,736 in STP Funding for Craft Center Parking Lot Overlay Construction Reimbursements	
\$1.9M in County Funding	
\$800,000 County Road and Bridge Tax	
\$215,000 in STP Funding committed for Highland Colony Parkway Construction	
\$194,000 in EPA Funding for Samuels Lane Water Well Construction	
\$83,490 in NRCS Emergency Watershed Project Funding for Construction Reimbursements	
\$44,795 in MDOT Reimbursement for Steed Road Utility Relocation	
\$59,478 in MDOT Reimbursement for Sunnybrook Road Utility Relocation	
\$25,000 in MDEQ funding for Solar Powered Compactors	
\$1,000 in Keep America Beautiful Funding (Cigarette Litter Prevention)	
PUBLIC WORKS PROJECT SERVICES	\$355,000
<i>The following is a list of the estimated savings in consultant fees as a result of using Public Works staff to design and administrate construction projects.</i>	
\$110,000 in Samuels Lane Water Supply Well Design, Permitting, and Contract Administration	
\$105,000 in Jackson Street Sewer Lift Station Abandonment Re-design, Bidding, Contract Administration, Construction Inspection	
\$50,000 in Parkside Village and Indian Cycle, Design, Bidding, Contract Administration, & Construction Inspection	
\$30,000 in East Jackson Street Multi-Use Trail Design and LPA Project Administration	
\$30,000 in Stephens Street Drainage Ditch Design and Construction	
\$10,000 in Highland Drive Sanitary Sewer Replacement Design	
\$10,000 in Highway 51 Sanitary Sewer Line from Prassel Lumber Company to Purple Creek Design	
\$5,000 in Optical 2000 Sewer Improvements Design	

Major Infrastructure Concerns:

Highland Colony Parkway- The condition of this roadway is poor from Old Agency to West County Line Road. We are still in the process of negotiating with the county on the segment from Old Agency Road to Business Park Drive. We have local (\$225,000) and Federal (\$215,000) funds for the rehabilitation of the segment between West County Line Road and Business Park Drive. The County Road plan (before it was changed by the Board of Supervisors) had \$3.5 million allocated for the segment of Highland Colony Parkway between Old Agency Road and Business Park Drive.

Old Canton Road- The condition of this roadway is deteriorating and requires repair, milling, asphalt overlay, restriping and traffic signal detection with a cost estimate of \$1,139,805.68. While there are no direct funding sources for this road it is classified as a State Aid Road. The Madison County Board of Supervisors has the authority, and should allocate funding for this project. If local funds are used, one option is to wait until some of our obligation bonds are retired and issue new bonds for this project. Congress may allocate funds for a new Transportation Bill or the existing MAP-21 program in the near future that we will compete for if available. The problem with a maintenance project such as this one is the local match amount will be no less than 55% of the total construction cost.

County Line Road-The condition of this road is also deteriorating and requires minor repair, milling, overlay, restriping and traffic signal detection from Interstate 55 to Old Canton Road at an estimated cost of \$1,782,367. The Cities of Ridgeland and Jackson have an agreement to share the cost of maintenance for this road. In our last meeting with Jackson in January we discussed this project and were encouraged at their willingness to proceed with the rehabilitation efforts. There is currently no funding in place for this project however Congress may allocate funds for a new Transportation Bill or the existing MAP-21 program in the near future that we will compete for if available. Again, a maintenance project such as this one, using Federal funding, would require a 55% local match amount.

East Madison County Regional Sewer- The City is currently repairing the section of EMCRS interceptor line between Lake Harbour Drive and Mule Jail road where our sewer flows into Jackson. The Cities of Ridgeland, Madison and the Pearl River Valley Water Supply District all pay a pro-rata share of the maintenance cost for this major interceptor. While we are hopeful we can work out an Interlocal Agreement with Madison to pay for their share of the cost for this segment, their participation in the future is tenuous. They are constantly re-routing their sewer to Beatties Bluff Treatment Facility in North Madison County reducing Madison's cost share for maintenance. We must make sure that a thorough investigation of the remaining portion of this EMCRS interceptor line is conducted soon to make sure we get maximum participation from the City of Madison before their share of the flow and maintenance cost is reduced.

Environmental Stewardship

The City continues on the forefront in the implementation of environmentally friendly programs.

Curbside Solid Waste As of the time of this report the City is contemplating the reduction in frequency for curbside solid waste pickup from twice to once per week. This makes sense environmentally and financially for the City to implement. We can reduce emissions, wear and tear on City Streets and the cost of collection. We also believe this will improve our participation in our already robust recycling program.

Natural Gas Vehicles- The City is currently in the process of installing natural gas kits on two recently purchased Ford F-550 Crew Trucks. We believe that the transition from gasoline and diesel is financially feasible for most but not all vehicles in the City fleet. We do know that the price per gallon is less and using this alternative fuel reduces emissions. Studies have also shown the United States has enough natural gas to supply us for the next 50 plus years. This means an overall reduction in fuel imports from countries that are not necessarily friendly to us.

Conclusion

In closing I want to thank the Mayor and Board of Alderman for its forward thinking and in many cases risk taking to improve the livability and sense of place that drives people and business to live and work in Ridgeland. We are truly a unique City that goes the extra mile to make sure our services are collectively and individually the best. Our goals in the Public Works Department are set high but attainable as we strive to implement work multipliers to improve our efficiency. I also wish to take this opportunity to thank Mayor McGee for his vision and leadership he has provided. Without his support much of what we have accomplished would not be possible.

John M. McCollum
Public Works Director
City of Ridgeland