

Memorandum

City of Lawrence

Public Works

TO: Mark Thiel
FROM: Tom Orzulak, Street Division Manager
Date: 07/15/2011
RE: **2011 Street Division Mid-Year Report**

The City of Lawrence Street Maintenance Division is responsible for 319 center line miles of streets (810 lane miles) with 40 employees. The work force is divided into 4 crews, asphalt, concrete, levee/sweeping/alleys and storm water.

The Street Maintenance Division provides a wide range of services, some you would expect and a lot of things you might not. Our normal activities include pot hole patching, curb and gutter repair, City owned sidewalks and wheel chair ramps, crack sealing, street sweeping, snow removal and storm drain and pipe cleaning. These are the things that people see us do every day.

We take care of 250 miles of open drainage, many of which that are in remote areas of the City. We also take care of the three storm water pump stations in North Lawrence. These pumps keep the underpass on North 2nd street dry and remove up to 22,000 gallons of water per minute from the low lying areas every time it rains.

We maintain the Kansas River Levee system. The levee covers 2600 acres and is about 13 miles long. The Levee protects North Lawrence and a large portion of farm land in Douglas County from the Kansas River and Mud Creek. The river levels are monitored by our staff year round and are the first to respond to rising water levels. We also maintain 8 miles of the Levee top for recreation, a popular place for walking, jogging and bike riding.

The Street Division provides traffic control devices for special events, all emergencies such as fires or bad traffic accidents and as needed throughout the community. We are also trained for any natural disasters such as tornadoes or floods and are experts at debris removal and management. It is safe to say that no matter what happens in Lawrence, the Street Division is there providing service.

After a second hard winter in a row, (there were 7 snow events already in 2011) we were in far better shape than we were the year before.

The rebuilding of East 23rd St, concrete repairs of Inverness and the resurfacing of East 19th, all by contract, was a tremendous help.

In September of last year, we received a spray injection patch truck and oil tanker. With this piece of equipment we have been able to make more permanent asphalt patches. This equipment makes its own asphalt from "on hand" stocked piled materials. As long as the pavement temperature is above freezing we can patch. We used this equipment throughout the fall and early winter season on problem areas which has cut down on the number of holes we had this year. This also gave us greater capacity this spring to patch on dry days before the asphalt plants opened which help us reduce the amount of complaints we received. To date the

number of pot holes calls from the Pot Hole Hot Line has gone from 1094 for the first 6 months of 2010 to 304 for the same period of 2011.

We have had 3 major events not related to street repairs so far this year. The St. Patrick's Day parade, the Tour of Lawrence Bike Race and the Kansas Relays Downtown Lawrence. The Relays Downtown was a special challenge and a source of great pride. It was the first time in the United States that a world class Shot Put event was held out of doors on a city street. Athletes from all over the world competed in downtown Lawrence on an arena that was built by street employees in 8 hours and removed before first light the next morning.

There are 3 other projects that as a division we have completed or are working on. The first is a core drilling rig that was constructed in house and was the subject of a recent City Manager's report. The second is the construction of a salt brine generation system which we will incorporate into a pre-treating/pre-wetting to enhance snow removal operations this coming winter. The third is a GPS tracking system, also for snow removal, that will provide real time information about our progress during a snow event. Stay tuned for details.

The continued growth of the division in terms of responsibility, project complexity and size continues to grow with much success. The divisions' staff is a group of professionals that are eager to take on these growing responsibilities. In many instances the only limit to their ability will be equipment owned. I look forward to continued growth of the division with much success.

PROJECTS COMPLETED

1. Traffic calming island at Atchison Ave and Clinton Parkway,
2. Graded all alleys in the City 2 times.
3. Swept all City streets one time and all major streets twice.
4. Swept the downtown 3 times.
5. Swept the University area twice.
6. Cleaned 6 miles of storm pipe.
7. Had 4 major and 3 minor snow storms.
8. Responded to 139 e-mail and 304 Hot line phone complaints.
9. Mowed the entire levee 2 times.
10. Mowed approx. 250 acres of right-of-way, City property and drainage ditches.
11. Paving of Indiana St. for a water line replacement project.
12. Paving 18th St from Naismith to Arkansas.
13. Resurfaced 2.5 miles of levee trails.
14. Swept 2 cycles.
15. Repaired/replaced curbs for micro-surface contract.
16. Patched and sealed Ponderosa Dr.
17. Patched and sealed Bonanza Dr.
18. Took over contract sealing (in progress)

PROJECTS IN PROGRESS/PENDING

1. Bardth Ct concrete repair.

2. 647 Country Club Terr
3. 1900 Bk of Delaware.
4. Pave 13th St from Mass to Tenn.
5. Pave W6th Terr.
6. Recycle in place 400 BK of Missouri.

I am sure that a few more projects will be added to the list before the end of the year and we will be ready to fit them in our schedule. As always, we are ready to do what ever needs done.

Some Interesting Numbers.

Pothole Reports		Total Usage from 1/1 to 6/30
Potholes reported on Hotline & phone		304.00
Potholes reported on Wufoo (on-line reporting)		139.00
Asphalt		Total Usage from 1/1 to 6/30
Number of holes patched		8,870.00
Tons of Hot mix used		310.42
Tons of cold mix used		122.55
Yards of Durapatch used		184.00
Sweeping		Total Usage from 1/1 to 6/30
Tons of debris collected		3,934.00
Miles Swept		3,198.00
Concrete		Total Usage from 1/1 to 6/30
Yards of concrete place		375.25
Feet of Curb		2,823.00



Asphalt crew paving Parks & Recreation parking lot



Storm Water Crew installing new storm sewer pipe



Concrete Crew repairing brick alley



Asphalt crew joint sealing new speed cushion at the River Front parking garage



Storm Sewer, Asphalt & Concrete Crews complete 12th & Ohio alley restoration



Asphalt Crew crack sealing



Combined crews constructing a shot put platform for the KU Athletics event



Asphalt crew repairing / patching



Concrete Crew installation of new bicycle access lane on Rhode Island and 7th Street



Street Division crews performing snow and ice removal – recent winter storm



Storm Water crew sweeping streets



Street Division crew and City Manager David Corliss patching pot holes with our new Patcher



Levee Crew mowing



Levee Crew mowing



Levee Crew reshaping and clearing a drainage structure to the KAW



Levee Crew maintining and monitoring levee gates during the June high water event