



Secondary Roads Department



Annual Department Progress Report

Work Session

Wednesday, 9:00 am, December 16, 2020

Greg S. Parker, PE, County Engineer



Secondary Roads Dept.



Budget Review

Department Accomplishments

- Roadside Vegetation
- Maintenance
- Engineering/Construction

Green Initiatives & Sustainability

Other

Questions/Comments



Secondary Roads - Budget Review



2020 Budget (ended 6/30/20):

Total Approved Budget = \$14,651,012.00

Total Actual Expenditures = \$12,283,321.36

Under-budget: \$2,367,690.64

(Beginning Fund Balance 7/1/20- \$6,520,396.25)

2021 Budget: \$17,468,271.00

Percent Expended – 35%

Percent Allocated Expenditure – 42%

(end of November)



Secondary Roads - Department Accomplishments

Roadside Vegetation

- Complete native grass and wildflower seeding and erosion/sediment control work on multiple various road maintenance and engineering road projects throughout growing season
- Complete all guardrail and shoulder visibility chemical applications
- Prescribed fire management and implementation on multiple various remnant and planted roadside native prairies
- Apply and receive funding from IDOT Living Roadway Trust Fund grant for grant for Tommy Silt Fence Machine (\$4000 grant funding)
- Apply for and receive TEA-21 Enhancement Seed (Native grasses and wildflowers from grant) from UNI Tallgrass Prairie Center and Federal Highway Administration (~\$10,000 grant funding)
- Invasive Species applications for Japanese Knotweed, Teasel, Canada Thistle, and other invasive species
- Attend state Weed Commissioner trainings (Pre-Covid19)
- Work with Iowa Valley RC&D on grant funded Hawkeye CWMA website remodeling
- Attend continuing education sessions for pesticide applicators certifications
- Prioritize roadside visibility and brush removal requests with landowners
- Roadside Maintenance Agreement Program management and public contacts for 72 organic and non-chemical usage landowners
- Adopt A Roadway Activity coordination for 11 Civic Groups- ~10,000 lbs trash!



Secondary Roads - Department Accomplishments



Maintenance Activities:

- **Rock 97,000T**
- **Chip Seal 17.55 miles resealed (17.05 County, 0 Private, 0.5 MRP)**
- **Ditch Cleaning 14 lane miles**
- **53 Culverts Replaced**
- **Pavement Markings 33.44 mi centerline, 30.82 mi edgeline**
- **Signs 214 signs replaced/repared**
- **Snow/Ice 26 call outs (Oct 26 to Feb 28) last season**
- **Derecho Cleanup over 30-days.**

MRP's Completed: Transverse Crack Repair Projects – Blackhawk (Oxford to IWV), Cosgrove (IWV to Cosgrove) & Otta Seal - James Ave. (120th to Dead End).



Secondary Roads - Department Accomplishments



Construction Projects: (\$14M+ construction)

Hwy 965 (NL to Reservoir): Done. Mainline paving is complete. 2008 flood resiliency/evacuation reduction complete. If I-380 goes under water, Hwy 965 will now remain open.

120th Street Pavement Rehab (Swisher west to CL): Done.

O-32-1 Bridge Replacement (Black Hawk Avenue over Old Man's Creek):
Done.

Herbert Hoover Hwy (Phase 1 & 2): Done.



Secondary Roads - Department Accomplishments

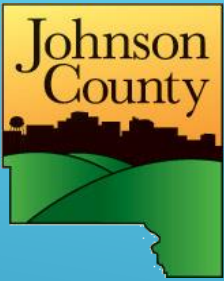


Upcoming Design/Construction Projects:

- Ely Road Phase #5 (140th to Linn County): Spring 2021 Letting.
- Amana Road Regrade (Hwy 965 to Greencastle): Pending Corp of Engineers permit review.
- Herbert Hoover Hwy (Phase 3): Summer 2021 Construction.
- Melrose Avenue/IWV Road (Hebl to Hwy 218): Design in progress.
- 540th Street (Stringtown Grocery): Summer 2021 Construction.
- I-33-1 Bridge Replacement (Utah Ave.): 2021 Construction.
- I-9-1 Bridge Replacement (Putnam St. over East Fork Rapid Creek): IDOT 01/20/21 Letting.
- E-20-2 Bridge Replacement (Black Hawk Avenue over Rhine Creek): IDOT 11/17/20 Letting.
- O-30-2 Bridge Replacement (Rohret Road over Mooney Creek): Design in progress.

Upcoming MRP's:






- Regrade – Intersection of Sugar Bottom Rd & Jordan Creek Rd.
- Regrade – Hickory Hollow Road NE (Mohawk to 120th)
- Regrade – Taft Avenue SE (American Legion Rd to 420th)
- Otta Seal – 180th Street NE (Utah to Cedar County Line)



Secondary Roads - Green Initiatives/Sustainability



Maintenance:

-  Continue to Recycle dumped Appliances left in the ditch.
-  Continue to purchase Tier 4 compliance clean diesel engines.
-  Using Recycled Asphalt on various projects throughout JC.
-  Vehicle oils/filters and used tires are recycled.
-  Old Signs, Steel Parts & equipment are recycled.

Green Initiatives:

We saved over 73,000 miles of trucking, 12,000 gallons of diesel fuel, and 15.67 Metric Tons of CO2 emissions on Hwy 965 by repurposing the existing deteriorated concrete pavement as a base rather than removing it.

We saved an additional 330,456 gallons of gasoline and 2937 Metric Tons of CO2 emissions by constructing the road under traffic rather than closing the road during construction and providing a detour. This is an equivalent of about 1200 single person household's worth of CO2 emissions for an entire year.

This design choice was also made with an eye to raising the road profile to prevent evacuating families on Meadow, Croy, and Curtis Bridge Roads in the event of a flood equivalent to the 2008 disaster. We are actively addressing climate change extremes by helping flood-mitigation on our infrastructure.





Secondary Roads - Other



Outreach Efforts: The Department continues, as part of the Boards Strategic Priority III, multiple outreach efforts to increase transparency and keep the public informed about our operations and construction projects via: Dynamic Message Boards, QR Code Signs, County Website, Newsletter, Media, Twitter, Press Releases, multiple meetings with various Cities in Johnson County and various professional organizations. Staff will continue reach out to Local Schools to promote County Engineering and Maintenance Activities for students looking into alternative employment opportunities.

Utility Permits: To date we have received 85 permits, approximate average staff time/permit: 8 hours.

Oversize/Overweight Permits: To date we have reviewed 160 permits, approximate average staff time/permit: 2 hours.



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