

Starke County Highway Department

Monthly Report – June 4th, 2018

Although April was a hectic month because of the varying weather, winter operations demobilization, flood recovery, and summer preparations, May has also been very busy, albeit in a more focused way. While we have continued our normal mowing, brushcutting, patching and other Spring maintenance operations; this month has been mostly about the start of our summer construction operations. We nearly completed one bridge replacement (Bridge #58 on 800S) and have already started our next one (Bridge #36 on 25N). We also completed the first of hopefully three summer paving rounds. During round one we completed over 11 miles of asphalt paving. All three of our Community Crossings grant projects have been completed. Thanks to the railroad crossing markers grant we received at the end of last year TCS and our own forces are nearing completion of the sign and marker installations at all our County's RR crossings.

ROADWAY MANAGEMENT

COMMUNITY CROSSINGS – All three of our 2017 Community Crossing grant projects are complete. We have been reimbursed by the State and are working to close out those projects. The next round of Community Crossings grant projects begins soon. Applications can be turned in starting Monday, August 6th. The application deadline is September 28th. Starting next year Community Crossings grants will be awarded twice a year, with applications due in January and July. Also retroactive projects will no longer be accepted as candidates. The completed 2017 Community Crossings grant projects are:

- 1) Bridge 50, bridge replacement, on 1150E between SR10 to 675S
- 2) Bridge 47, bridge replacement, on 625S between 850E to 900E
- 3) 300E, HMA (hot mix asphalt) overlay from SR 8 to 250ft. south of Division Road ---

For this next round of Community Crossings projects we will include

- 1) Bridge #154 replacement (CR100E, north of 400N)
- 2) Intersection Improvement at CR210 and Old SR10/600S
- 3) 5 miles of hot mix asphalt roads (The road list is being compiled based on our ongoing traffic studies of our selected truck routes)
- 4) Bridge #137 rehabilitation

BRIDGE MANAGEMENT

Current Bridge Projects

Priority	Bridge Number	Location	Sufficiency Rating	Status	Completion year
1	36	CR25N over Eagle Creek, .1 miles W of 600E	26.9	Construction began on May 30 th . Project end date is August 29 th	2018
2	58	CR800S over Bogus Run, 0.02 miles E of CR200W	35.9	Construction is 95% complete. When the guardrail is installed later this week the bridge will be reopened	2018
3	154	CR100E over Robbins Ditch, .4m N of CR400N	47.1	Plans Complete, bid opening June 18th 2018	2018
4	7	CR1200E over the Yellow River, .5M N of CR250S	35.2	JPR is 85% done with the design, we are looking at an October 2018 bid opening	2018/2019

CEDIT/LOIT

When we received our Community Crossings grant reimbursements most of the money replaced money we had already spent on the completed projects. We had used money in both the CEDIT and LOIT funds. This money was put back in these funds. We are now going to use that money to pay for bridges 36 and 154, as we had outlined asset management presentation to both the Council and Commissioners last year. We will ask for this to be approved by the Council at their next meeting.

ANNUAL REPORT

COUNTY PARKS

Bass Lake Beach --Use of County forces to install glacial stone

Koontz Lake Beach – Sand

Starke County forest – Use of County forces to construct new County road in Forest (CR1065E)

Prairie Trails -Signage for trails and roadway approaches for trails

PERSONNEL

Paving and our other summer construction activities use much of our full time manpower. We are using our part time workers and two Work One workers to replace some of our maintenance man hours. Work One has already asked us if we want more workers from their program.

TRAINING

This month, besides our usual weekly morning meetings, we sent employees to the following trainings:

June 6th Road Scholar Class #3 Highway Funding (at the IACHES conference)

Attendees: Ralph Saine, Ricky Fisher, Larry Ludwig, Louis Sommerfield, and Melvin Fisher

June 14 Chainsaw Safety Class - Fair Oaks Farm

Attendees – Stephen David, Louis Sommerfield, Jeremiah Muston, Gavin Majchrzak, Chester elder

ADA conference – ADA coordinator certification

EQUIPMENT REPLACEMENT

As per our Department vehicle replacement schedule that we submitted with the budget last year, we are purchasing a van to use for our Summer road work crew staffed by part timers and work one employees.

We received quotes for both new and used vans. With the new vans we received a \$8500 municiple credit we do not receive with a used van. The best quotes we received from our local dealers were

Chevy Van New -- \$31500 Used -- \$26,600

Ford New New -- \$28720 Used -- \$26,500

Front Line Work Trucks

Vehicle Number	Truck Type	Truck Size	Model Year	Mileage as of 1/9/2017	Estimated Replacment Year	Vehicle Usage
6	Sterling	Tandem Dump Truck	2005	291119	2021	Front Line work/plow truck, w/underbody scraper
7	Sterling	Tandem Dump Truck	2005	222664	2022	Front Line work/plow truck, w/underbody scraper
9	International	Tandem Dump Truck	2010	35000	2028	Front Line work/plow truck
12	Freightliner	Tandem Dump Truck	2014	75877	2028	Front Line work/plow truck, primary tow truck, w/underbody scraper
14	Sterling	Dump Truck	2000	203945	2026	Front Line work/plow truck
30	International	Dump Truck	2011	40000	2029	Front Line work/plow truck
15	Freightliner	Dump Truck	2013	113686	2029	Front Line work/plow truck, w/underbody scraper
16	Sterling	Tandem Dump Truck	1997	227978	2020	Front Line work/plow truck
17	Sterling	Tandem Dump Truck	1997	256153	2019	Front Line work/plow truck
19	Volvo	Tandem Dump Truck	1999	517790	2017	Front Line work/plow truck, w/underbody scraper RETIRE AS FRONTLINE, MOVE TO SPARE
22	Freightliner	Dump Truck	2014	78570	2031	Front Line work/plow truck
24	Freightliner	Dump Truck	2014	89365	2030	Front Line work/plow truck
25	International	Dump Truck	2012	65187	2027	Front Line work/plow truck
26	Freightliner	Dump Truck	2016	0	2032	Front Line work/plow truck, w/underbody scraper
27	Volvo	Dump Truck	2000	278890	2024	Front Line work/plow truck, w/underbody scraper
57	International	Dump Truck	2006	206108	2025	Front Line work/plow truck
61	International	Dump Truck	2006	258319	2023	Front Line work/plow truck
63	International	Dump Truck	2001	168636	2020	Front Line work/plow truck RETIRE AS FRONTLINE, MOVE TO SPARE

Spare Work and other Dump Trucks

Vehicle Number	Truck Type	Truck Size	Model Year	Mileage as of 1/9/2017	Estimated Replacment Year	Vehicle Usage
11	International	Tandem Dump Truck	1992	35041	scrap/parts	salvage for parts
18	International	Dump Truck	1996	46486	scrap/parts	Spare work/Plow truck
21	International	Dump Truck	1999	331114	scrap/parts	Salvage for parts
31	International	Dump Truck	1997	329629	scrap/parts	Spare work plow w/ underbody scraper
50	International	Terrastar	2015	23055	2030	Small Dump Truck/plowing/patching, animal and trash removal
65	International	Dump Truck	1992	134960	scrap/parts	Spare work/Plow truck
66	International	Dump Truck	1992	339971	scrap/parts	Spare work/Plow truck

Pickups

Vehicle Number	Truck Type	Truck Size	Model Year	Mileage as of 1/9/2017	Estimated Replacment Year	Vehicle Usage
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1	Dodge	Ram 2500 ST 4X4 crew cab	2016	8200	2026	Superintendent's truck/Plowing/Travel for training and meetings, field work, after hours on call, refueler
2	Ford	F250 XL extended cab	2018		2033	
4	Ford	F250 XL Reg Cab	2014	60101	2024	Operations Foreman's Truck/Plowing, Field work, after hours on call, refueler
3	Ford	F250 XL Crew Cab	2014	56978	2025	Garage Foreman's truck/Plowing/Travel for training and meetings, field work, after hours on call, work crew transport, refueler
5	Ford	F250 extended cab	2001	288232	2019	Senior Driver's Truck/Plowing, work crew transport, after hours on call, animal and trash removal, refueler
13	Ford	F-350 1-ton reg cab	1996	143232	2022	Plowing, work crew transport, Patching, animal and trash removal
29	Ford	F-250 reg cab	1995	257714	2017	Plowing, work crew transport, animal and trash removal, refueler

Service Vehicles

Vehicle Number	Truck Type	Truck Size	Model Year	Mileage as of 1/9/2017	Estimated Replacement Year	Vehicle Usage
23	Ford	Bridge Inspection Trk	2000	289846	2020	Bridge inspection/construction
20	International	Dump Truck	1999	288043	2028	Water /Brine/Plow truck
83	GMC	Sierra Pick-up K3500	1997	63621	2027	Mechanic service truck w/boom
84	Ford	Service Truck	1991	202609	2022	Mechanic service truck (old ambulance)
85	Ford	Sign Truck	2002	263479	2023	Mobile sign shop (old ambulance)
28	Ford	Van	1997	171070	2018	Work Crew Transport, Travel for training and meetings, Deer and trash removal. Frame of van is completely split in half. Replacement needed
67	International	Dump Truck	1992	46671	2022	Brush Truck
68	International	Boom Truck	1992	175080	2020	Boom Truck
39	GMC	Topkick Truck	1996	170286	2026	Distributor Truck

Paving and other self propelled equipment

Vehicle Number	Truck Type	Truck Size	Model Year	Mileage as of 1/9/2017	Estimated Replacement Year	Vehicle Usage
8	Cat	Loader MODEL 9285		n/a	2022	3.5yd Loader
9	Broce	Broom MODEL RJ300		3901 hours	2024	Sweeper Broom
10	JCB	Backhoe		n/a	2025	Backhoe
33	CAT	Grader MODEL 135H		6540 hours	2027	Main Grader
34	Webco	Grader MODEL 444		n/a	2022	Backup Grader
37	Doosan	Model DL250-3 Loader	2015	1144 hours	2035	3.5 yd loader
38	Cat	Small Loader MODEL 924F		5108 hours	2024	2.3yd loader
45	Blau-Knox	Paver	1990	5161 hours	2018	Paver
48	Gallon	Rubber Tire Roller		1417 hours	2028	Rubber Tire Roller

49	Tampco	Steel Roller		5336 hours	2030	Steel Roller
54		Stone Chipper	1984	n/a	2018	Stone Box/Chipper
56	Cat	Excavator		7118 hours	2019	Excavator
69	Case	Bobcat 1840 Case Unloader	1992	1237 hours	2028	Bobcat

Mowers and Tractors

Vehicle Number	Mower/Tractor Brand	Mo Type	Model Year	Mileage as of 1/9/2017	Estimated Replacement Year	Vehicle Usage
46	Simplicity	Riding Mower		n/a		Lawn Mower
72	John Deere	1995 John Deere	1996	9772 hours	2018	Mowing Tractor
72A	Alamo	EK 11 Mower		n/a		Mower for John Deere tractor
73	John Deere	1996 John Deere	1996	8938 hours	2019	Mowing Tractor
73A	Woods	S105 Mower		n/a		Mower for John Deere tractor
74	John Deere	1996 John Deere	1996	9116 hours	2020	Mowing Tractor
74A	Woods	S105 Mower		n/a		Mower for John Deere tractor
75	John Deere	1996 John Deere	1996	10262 hours	2017	Mowing Tractor
75A	Alamo	EK 11 Mower		n/a		Mower for John Deere tractor
76	Alamo	EK 11 Mower (spare)		n/a		Mower for John Deere tractor (spare)
77	Ford	New Holland Ford	1999	3629 hours	2020	Brush Chopper
77A		Brush chopper Mower		n/a		Brush Chopper arm for New Holland Tractor
80	John Deere	Tractor	2014	2486 hours	2030	Mowing Tractor and Brush Chopper
80A	Alamo	Mower		n/a		Mower for John Deere tractor
80B		Brush chopper Mower	2016	n/a	2036	Brush Chopper arm for John Deere tractor
99	Husqvarna	M-ZT52 Mower	2015	n/a	2035	Zero Turn Deck Mower

Trailers and other equipment

Vehicle Number	Mower/Tractor Brand	Mo Type	Model Year	Mileage as of 1/9/2017	Estimated Replacement Year	Vehicle Usage
36	Inersoll Rand	Port. Air Comp. MODEL P185		1238 hours	2033	Air Compressor
40	Champion	Welder Generator		225 hours	2036	Welder Generator
88	Falcon	Hot Box	2016	n/a	2036	Hot Box for patching
87		Hot Box		n/a	2020	Hot Box for patching
89		Hot Box		n/a	2019	Hot Box for patching
41		Pugmill Model 52		n/a	2025	Pugmill
42		Pugmill Generator		3553 hours	2020	Pugmill Generator

43	Kolberg Pioneer	Pugmill Conveyor		n/a	2025	Conveyor for pugmill
55	Husqvarna	Concrete Saw	2015	n/a	2035	Bridge deck/road saw
86A	Vermeer BC1500	Vermeer Wood Chipper	2013	1182 hours	2033	Wood Chipper
58	Challenger	Lowboy RG35 Trailer	2006	n/a	2031	Trailer
59	Rogers	Lowboy	1972	n/a	2019	Trailer
60	Raven	Dump Trailer FST-28	2001	n/a	2026	Dump Trailer