

Starke County Highway Department Monthly Report – mARCH 6, 2017

ASSET MANAGEMENT REPORTS

ROADWAY

Winter Operations

2016-7 WINTER PLOWING

MONTH	SNOW EVENTS	SNOWFALL IN INCHES	PLOW HOURS	PLOW HOURS PER DRIVER	MILES CLEARED	MILES CLEARED PER HOUR PER DRIVER	SALT USED	SAND USED
TOTALS	18	15.32	2336	148.6	42323.3	18.11	928	3864

2015-6 WINTER PLOWING

MONTH	SNOW EVENTS	SNOWFALL IN INCHES	PLOW HOURS	PLOW HOURS PER DRIVER	MILES CLEARED	MILES CLEARED PER HOUR PER DRIVER	SALT USED	SAND USED
TOTALS	21	24.43	2328	162.61	39919.7	17.15	1146	4371

2014-5 WINTER PLOWING

MONTH	SNOW EVENTS	SNOWFALL IN INCHES	PLOW HOURS	PLOW HOURS PER DRIVER	MILES CLEARED	MILES CLEARED PER HOUR PER DRIVER	SALT USED	SAND USED
TOTALS	32	44.95	4392.5	281.2	75302.7	17.14	1348	5585

2013-14 WINTER PLOWING

MONTH	SNOW EVENTS	SNOWFALL IN INCHES	PLOW HOURS	PLOW HOURS PER DRIVER	MILES CLEARED	MILES CLEARED PER HOUR PER DRIVER	SALT USED	SAND USED
TOTALS	56	85.1	6611.7	413.17	123877	18.73	1828	9275

We had NO snow events in February. Although we are saving money in all areas of winter operations the most significant savings have been in fuel usage. Here are the diesel totals for January and February for the last four years:

FUEL USAGE BY MONTH	2014	2015	2016	2017
JANUARY	14952	12915	9539	8092
FEBRUARY	11384	14115	12341	6498
TOTALS	26336	27030	21880	14590

IT WAS ALLOWED US
TO CUT BRUSH +
PATCH (350 TONS)

We just received notification that the State salt bid amounts for 2018 can now be submitted. We submitted next year's bid this afternoon. We are committed to ordering at least 80% of our bid amounts and no more than 120%. Because of the low usage this year we are expecting the 2018 price to be below the current 56.18 for untreated salt and \$78.34 for the treated salt. We are hoping to stockpile a year's worth of salt at next year's lower prices.

Demand Aggregate Response Confirmation

Demand Response was successfully submitted
on 3/6/2017 at 3:20 PM EST

Name: Road Salt 2017/2018

Response Type: Commitment

Target Close Date: 3/24/2017

Contact Name:
Contact Phone:

Item Number	Item Description	UoM	Total Qty
	Treated Salt	TON	100.00
	Untreated Salt	TON	1400.00

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Heavy Truck Ordinance

The Heavy truck ordinance committee met on March 2nd to review the initial draft and discuss possible changes or additions. The two primary functions of the ordinance will be to outline a system of hot mix truck routes and to provide a reasonable method of enforcement of weight and route limits. The committee will review and possibly amend the designated routes before the final draft is presented to the Commissioners on April 4th. After the committee has a chance to submit their recommendations County Attorney Lucas and the Highway Superintendent will work together to create the final draft.

04/03/2017 Commissioner Meeting – Present the finished draft to the Commissioners for their approval. Schedule the necessary public meetings for the passing of the ordinance

TBD – Public meetings and possible revisions resulting from those meetings

PASER ratings – In January Purdue LTAP published their “Indiana 2016 Local Road and Bridge Conditions Report” It reported that the 44% of all Indiana roads were rated poor, 45% were fair, and 11% were rated good. Starke County roads fared somewhat better at 14% poor, 70% fair, and 16% good. It is the goal of our 15-year road improvement plan to both eliminate all the poor roads and increase the number of hot mix roads in the County from 13 miles to over 75 miles, thus allowing the establishment of truck routes that will help preserve all our County roads.

Starke County Five Year Strategic CEDIT Infrastructure Plan

At the march 20th Commissioners meeting the Highway Department and the Starke OCounty Economic Development Foundation with present the updated five year infrastructure plan to the Commissioners.

BRIDGE

Current Bridge Projects

Priority	Bridge Number	Location	Sufficiency Rating	Status	Completion year
1	50	CR1150E over Osborn Ditch, 1m S of SR10	24.6	Construction to begin March 6, 2017	2017
2	46	CR900E over Osborn Ditch, .9m S of SR10	26.9	November 2016 bid opening, construction to begin approximately May 2017	2017
3	47	CR625S over Osborn Ditch, .06M W of CR875E	41.6	November 2016 bid opening, construction to begin July 2017	2017
4	36	CR25N over Eagle Creek, .1 miles W of 600E	26.9	Five Engineering firms submitted proposals for the design of Bridges 36 and 58. Jones, Petrie, and Rafinski had the low bid at \$48,795	2017
5	58	CR800S over Bogus Run, 0.02 miles E of CR200W	35.9	Five Engineering firms submitted proposals for the design of Bridges 36 and 58. Jones, Petrie, and Rafinski had the low bid at \$48,795	2017
6	154	CR100E over Robbins Ditch, 4m N of CR400N	47.1	Design RFP to be sent out in July	2018
7	7	CR1200E over the Yellow River, .5M N of CR250S	35.2	Degin Contract awarded to Jones, Petrie, and Rafinski. We are coordinating the creation of the contract with INDOT	2019
8	13	CR600E over Robbins Ditch, .01 miles S of 800N	61.6	Not deficient, but will most likely need to be replaced within the next ten years	2020
9	27	CR700E over the Yellow River, .1 miles north of SR8	70.9	We are looking to replace this wooden strcure with a concrete bridge better suited for heavy trucks	2020/21
10	140	CR200E over Robbins Ditch, .1 miles S of 500N	66.1	Not deficient, but will most llkely need to be replaced within the next ten years	2021
11	38	CR25N, .1 miles E of 800E	61	Not deficient, but will most likely need to be replaced within the next ten years	2022
12	59	CR700S, .2 miles E of CR200W	62.9	Aluminum Box Culvert. It is deteriorating early and we are keeping a close watch on it.	2055/2022
13	35	CR25N, .3 miles E of 500E	65.2	Aluminum Box Culvert. It is deteriorating early and we are keeping a close watch on it.	2055/2023
14	66	Range Road, jusdt South of CR500S	77.6	Metal Bridge Deck. Repair contract, Clean Bearing areas, wedge and level	2025
15	88	Old SR10, .3 miles E of US35	78.8	Aluminum Box Culvert. It is beginning to deteriorate and we are keeping a close watch on it.	2055/2030

3 NEXT 10 YEARS
 3 ALUM
 CULVERTS
 BRIDGE 27
 2 BRIDGE 66 METAL

1) WOODEN BRIDGE REPAIRS
 2) GUARDRAIL REPAIRS
 3) METAL BRIDGE REPAIR

RFP for Bridges # 36 and 58:

We received 5 consultant LOIs for this project;

1) Ciorba Group (Michigan City, IN)	\$104,234
2) Jones, Petri, Rafinski (South Bend, IN)	\$48,868
3) Lawson and Fisher (South Bend, IN)	\$88,422
4) Primera Engineers (Munster, IN)	\$125,325
5) SEH of Indiana (Michigan City, IN)	\$108,544

We recommend awarding the design to JPR of Mishawaka. Because of their very low bid we asked them to also give us an estimate on our last deficient bridge where development has not begun, Bridge 154 on 100E, north of 400N. The design estimate for that bridge was \$25,000. We recommend having JPR do that bridge as well because the total cost for the three bridges will still be lower than the other bids were for two.

CUMULATIVE BRIDGE BUDGET

1) Bridge Maintenance	\$171,000
2) Culvert Maintenance	\$64,200
3) Construction Inspection	<u>\$68,470</u>
a.	\$303,670

Bridge Maintenance - \$171,000 per year

\$3,000 per bridge per year. This includes but is not limited to:

- | | |
|---------------------------------|---|
| 1) Deck Cleaning | 9) Deck Patching |
| 2) Drain Clearing | 10) Approach repairs |
| 3) Deck Sealing | 11) Wing Wall repairs* |
| 4) Channel Clearing | 12) Timber Repairs |
| 5) Joint Repair | 13) Slope repairs |
| 6) Riprap repair and/or install | 14) Seeding and Sodding |
| 7) Guardrail Repair | 15) Supplies and office support |
| 8) Vegetation Control | 16) Animal Control (Beavers, Muskrats, etc..) |

Culvert Maintenance - \$64,200

\$100 per culvert per year

- 1) Rip Rap replace/install
- 2) Culvert Cleaning
- 3) Brush Control
- 4) Channel Clearing and shaping
- 5) Culvert replacements and extensions
- 6) Washout repairs
- 7) Supplies and office support
- 8) Animal Control (Beavers, Muskrats, etc..)

Construction Inspection – \$68,470

Construction Inspector \$42,470

Construction Clerical/Admin/Assistance \$10,000

Health Insurance - \$8,000

SSI - \$4,000

Office Supplies and equipment - \$4,000

CULVERTS AND DRAINAGE

Culvert Inventory - We have completed our second County-wide culvert inventory.. It cataloged 703 culverts throughout the County. We currently have 13 pipe/culvert replacements scheduled for this spring. More will be inevitably be added to the list after the new inventory is complete. Last year we replaced over 30 pipes/culverts.

ROAD	LOCATION	DATE COMPLETED	PIPE USED	LOCATE	OPERATOR	NOTES	Paved over Culvert
50S	50 S. 1500' West of 100 W. R/W to R/W	2/28/2017	8' of 24"	2/24/2017	Ricky	1 load concrete mix, 1 load Rip Rap	
300W	300 W. 1350' South of 800 S. R/W to R/w and roadway	3/1/2017	(2) 20' of 18"	2/27/2017	Ricky	1 18" band, 4 bolts, 4 nuts, 1 scoop crush n run	
350S	350 S. 1300' West of 350 W.	3/6/2017	50' of 36"	2/27/2017	Rivcky	no bands	
650W	650 W. South of 500 South 1100' Then West 800' then mark 100' going west R/W to R/W and roadway	3/2/2017	N/A	2/28/2017	Ricky	Cleaned out and repaired culvert	
300W	300 W. 1300' North of 800 S. Locate 100' North both sides of the road.			3/2/2017			
100E	100 E. 1320' North of 150 S. Locate 100' both sides of road			3/3/2017			
650W	650W, just north of 400S						
700S	700w, 1/4 MILE East of 100W						
900S	700w, 1/5 MILE EAST OF 700w						
400W	400W, just south of 500S						
450 E	4500 FT N/O 800 S						
500 S	1500 FT E/O US 35						
550 E	1000' N/O 500 S						
550 E	INTERSECTION TOTO RD S/S						
600 E	250 FT S/O SR 10						
625 S	1000' W/O 850 S						
700 S	2000 FT E/O 200 E						
850 W	1750' S/O SR 10						
900 S	3500 FT N/O 300 E						
900 S	500 FT S/O 200 E						
900 S	1500' E/O JASPER CO LINE						

PIPE REPLACEMENTS BY YEAR

2013	13
2014	19
2015	31
2016	37
2017	4

300W Drainage Project – The project is almost complete. The water levels have lowered significantly on both sides of the road and the only thing we have left to do is paved the road from the County line to 800S..

Safety

We have had zero accidents and zero workman's comp claims this winter.

EQUIPMENT

We purchased the two New Holland Tractors that were approved by the Commissioners last month. We are looking forward to getting them on the roadway when mowing begins later this month.

FACILITIES

Roof Repairs and Resealing

As weather permits the roofing contractors will be replacing the roof over the office area and resealing the garage area roof. The money for these repairs was allocated last year from monies received from permits, scrap, insurance reimbursements, etc..

FUNDING REPORT

HB 1002 – The Superintendent, along with Commissioner Chesak and Bob Troike of the Farm Bureau travelled to Indianapolis in February to lobby for Local Road funding. We spoke with all four of our local representatives to the State House and Senate (Jim Pressell, Mike Bohacek, Ed Charboneau, and Bob Gutwein). We emphasized to them the importance that funding from the bill trickle down as much as possible to the local without much State interference. We were told that most of the funding will be available to the locals in the form of matching funds, most likely an 80/20 match. If so, it is important that the County makes sure that matching funds for roadways are available each year. Otherwise, other Counties and Cities that have ways to match those funds will benefit from Starke County tax dollars at the expense of Starke County roads.