

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 |

This email is unique to your login. Do not forward.
This action will expire in 47 days.

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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 | Begin 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 structure 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 likely 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, just 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 | \$68,470 |
| 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.