TOWN OF FRANKLIN
WRIGHT COUNTY
2018
OTTASEAL PROJECT
BILL MCMULLEN, SUPERVISOR
TOWN OF FRANKLIN—EXURBAN TWP WEST OF TWIN CITIES
TOWN OF FRANKLIN
FACTS AND FIGURES

• +/- 2000 residents
• +/- 70 miles of total roads
• +/- 60 miles granite/gravel roads
• 8 miles bituminous paved roads
• 1 mile double chip-seal roads
• 0.7 mile Ottaseal road (over granite base)
TOWN OF FRANKLIN
FACTS AND FIGURES

• 2 Full Time maintenance staff
• 1 Clerk/Treasurer
• 1 Deputy Clerk/Treasurer
• 3 Elected Supervisors
• $950,000 annual levy
TOWN OF FRANKLIN
ISSUES

- Resident complaints about dust and washboard roads
- Cost, Inconvenience and Temporary nature of dust control
- Very high cost of “paving” roads
- High traffic counts on many roads
TOWN OF FRANKLIN
HIGH TRAFFIC COUNTS

• County Line Rd—gravel shared with Independence (469 vehicles per day (VPD))
• Brighton Ave—Former Double Chip Seal Road, worn out, ground up (564 VPD)
• Farmington Ave (should be a County Road)—Bituminous connector Road (2,017 VPD)
• 110th Street (should be a County Road)—Gravel connector Road (766 VPD)
• Eastwood Ave-- subject Road for Ottaseal trial (202 VPD)
• (Note—a short portion of high traffic 110th Street was also part of the Ottaseal trial)
TOWN OF FRANKLIN—WHY OTTASEAL?

• Residents request to “do something” about poor roadway
• Lower initial cost than normal bituminous road
• Lower maintenance cost than a gravel road (once installed) {assumption}
• Good granite base to experiment to see if this could be a Township-wide alternative
• Ideal location as it would connect two paved roads
TOWN OF FRANKLIN—WHY OTTASEAL?

• Decision made to experiment with Ottaseal
• Residents offered to contribute $20,000 {not an assessment—voluntary}
• Sought quotes from various suppliers
• Bid awarded to Allied Paving in amount of $64,000
TOWN OF FRANKLIN
COSTS ON OTTASEAL ROAD PROJECT

• Preliminary site work (grading and compacting) 12 hours = $1302
• Material and application costs = $64,185
• Repair costs (due to 2 very large frost boils) = $2,063
• Total out of pocket costs after year one = $67,550
• {Earlier granite applications are not included as they were not part of the project, simply part of prior routine maintenance}
TOWN OF FRANKLIN
COST COMPARISON TO OTTASEAL ROAD

• {Used ¾ mile adjacent gravel road (110 St) as comparison}
• 25 hours grading $108.50 per hour = $2,713
• Annual summer dust control costs @ $0.80 per gallon= $1,720
• Prorata costs of granite (reapplied about every 4 years) \( \frac{$29,539}{4} \) = $7,385
• Total comparable costs for year one = $11,818
TOWN OF FRANKLIN
COST COMPARISON SUMMARY

- ¾ mile gravel road annual costs = $11,818
- ¾ mile Ottaseal annual costs assuming 10 year life and no further maintenance = $6,755
- ¾ mile Ottaseal annual costs assuming 5 year life and no further maintenance = $13,510

Ottaseal, with a five year life, will be only slightly higher cost than a similar length of adjacent road. From a practical point, some interim maintenance steps (seal coating) could extend the life of the Ottaseal experiment to, hopefully, 10 years.
TOWN OF FRANKLIN
1st YEAR CONCLUSION ON OTTASEAL ROAD TRIAL

• Road is holding up, but not very “pretty”—not smooth like bituminous
• Very hard 2018-19 winter with massive frost boils, even with good base
• Some issues with vandalism when road was first put down
• Some issues with heavy XCEL tree trimming equipment damaging the road
• Better than gravel, still holding up after one year, but . . . How long will it last?
TOWN OF FRANKLIN—CONTRACTOR EQUIPMENT USED
TOWN OF FRANKLIN—TOWNSHIP EQUIPMENT USED
TOWN OF FRANKLIN—SOME PHOTOS OF PROJECT

2nd oil application, before sweeping

Winter, Ottaseal in front, gravel road in background

Surface closeup

Two layers visible, future pothole?

Winter, Ottaseal portion

Road plus repaired portion due to frost boil