

# Harding Township

## Township Committee Meeting

### June 13, 2016

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## Harding Township Department of Public Works

- **7 EMPLOYEES:**
  - 1- Superintendent
  - 4- Operators/drivers/laborers
    - 1- Driver/laborer
    - 3- Road Department
    - 1- Ice and Snow Control
    - 1- Building and Grounds
    - 1- Recycling
  - 1- Mechanic
    - 1- Vehicle Maintenance
- **OPERATING BUDGET**  
\$575,440.00 (incl. fuels and ice and snow-salt)(no salary)

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## Road Improvement Program

**Harding road program responsibilities:**

- Nearly 30 miles of publicly maintained roads
- Over 3 million square feet of asphalt roadways (350,000 square yards of asphalt roadways)
- 461 catch basins (side of the road grates for storm water)
- 243 cross over pipes (underground pipes cross under the road)
- Over 5 miles of connecting pipes (pipes connecting basin to basin)
- Over 500 street signs (stop, speed limit, street name, etc.)
- Stop lines and basin lines
- Guard rails (on public roads- deep culvert safety)
- Roadside mowing (all road sides not maintained by home owner)
- Water management (culverts/ditches and basins)

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## Active versus Minimal Maintenance

Rate of deterioration/Maintenance program

Condition Rating (Y-axis: 0-100), Years (X-axis: 0-25)

- 100 - 90 considered good to excellent condition
- 70 - 89 considered fair to good condition
- 55 - 69 considered poor to fair condition
- Below 55 considered very poor - possible reconstruction

## 2016 Road Analysis (29 Out of 44 Roads)

ROADS	Rating	POT HOLE REPAIRS	CRACK SEALING	PAVING WORK	DRAINAGE WORK
1 FEATHERED LANE	79	X	X	X	
2 BLUE MILL RD (JAMES ST. - SILVER LAKE)	74	X	X	X	
3 BAILEYS MILL RD. (LEES HILL RD. - YOUNGS RD.)	74	X	X	X	
4 JENKS RD.	76	X	X	X	
5 JENKS COURT	76	X	X	X	
6 PLEASANT PLAINS RD.	79	X	X	X	
7 ROCKOVER LN.	79	X	X	X	
8 WILLOW ACRES	80	X	X	X	
9 SPENCER PL.	86	X	X	X	
10 DOUGLAS RD.	86	X	X	X	
11 BLACKWELL AVE.	83	X	X	X	
12 BAILEYS MILL RD. (YOUNGS RD. - RT. 302)	81	X	X	X	
13 VAN BUREN RD.	84	X	X	X	
14 TIGER Lily LN.	84	X	X	X	
15 WOODLAND RD.	84	X	X	X	
16 FAWNHILL DR.	84	X	X	X	
17 MEYERSVILLE RD.	85	X	X	X	
18 YOUNGS RD.	85	X	X	X	
19 WHITE DEER LN.	86	X	X	X	
20 SAND SPRING LN.	87	X	X	X	
21 MILLER RD.	87	X	X	X	
22 PEACROFT RD.	88	X	X	X	X
23 WOODLAND AVE.	88	X	X	X	
24 LGANTARA NORTH	88	X	X	X	
25 SHALBROOK DR.	88	X	X	X	X
26 BLACKWELL PL.	88	X	X	X	
27 RED GATE RD.	89	X	X	X	
28 MILLBROOK RD.	86	X	X	X	
29 HUNTER RD.	89	X	X	X	
30 THE PARKING LOT	89	X	X	X	

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## Road Survey Results

CONDITION OF ALL TOWNSHIP ROADS (S.Y.)

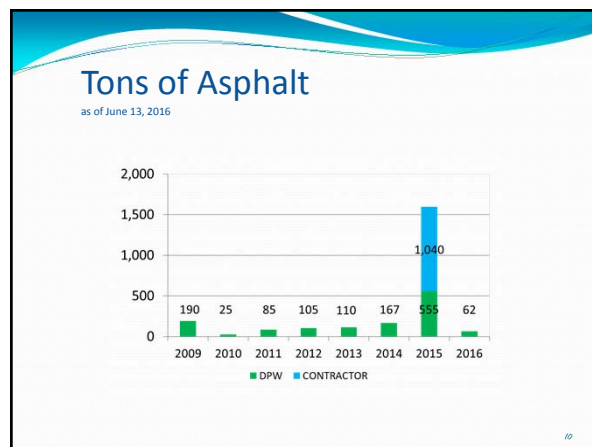
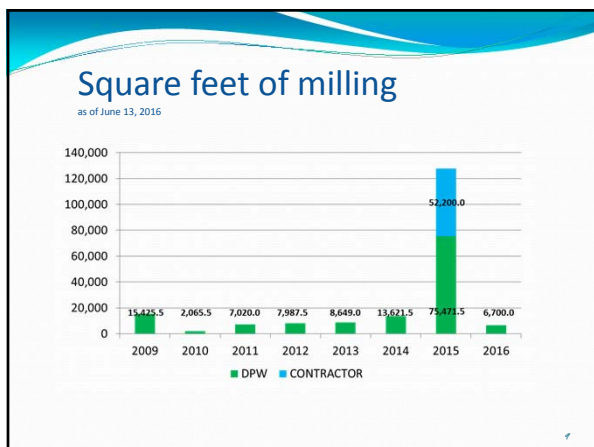
Year	Good to Excellent	Fair to Good	Poor to Fair
2007	313,655 (88.5%)	40,685 (11.5%)	0 (0.0%)
2009	221,988 (62.6%)	132,352 (37.4%)	0 (0.0%)
2011	107,365 (30.3%)	246,975 (69.7%)	0 (0.0%)
2012	106,720 (30.3%)	247,620 (69.9%)	0 (0.0%)
2014	51,520 (14.5%)	302,820 (85.5%)	0 (0.0%)
2015	72,922 (20.6%)	245,690 (69.3%)	35,728 (10.1%)
2016	131,795 (37.2%)	212,690 (60.8%)	9,855 (2.5%)

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**2016 – Road Work Scheduled To Be Performed by DPW & Contractor**  
**First Draft**

1. Featherbed Ln. – pot hole filling, crack sealing, mill/ pave.
2. Blue Mill Rd. (James St. Silver Lake) – pot hole filling, crack sealing, mill/ pave.
3. Baileys Mill Rd. (Lees Hill Rd.-Youngs Rd.) – pot hole filling, crack sealing, mill/ pave.
4. Jenks Rd. – pot hole filling, crack sealing, mill/ pave, Oil & Stone treatment.
5. Jenks Ct. – pot hole filling, crack sealing, mill/pave, Oil & Stone treatment.
6. Pleasant Plains Rd. – pot hole filling, crack sealing, mill/pave.
7. Rockoven Ln. – pot hole filling, crack sealing, mill/pave.
8. Willow Acres. – pot hole filling, crack sealing, mill/pave.
9. Spencer Pl. – pot hole filling, crack sealing, mill/pave, Oil & Stone treatment.
10. Douglas Rd. – pot hole filling, crack sealing, mill/pave, Oil & Stone treatment.
11. Blackwell Ave. – pot hole filling, crack sealing, mill/pave.
12. Baileys Mill Rd. (Youngs Rd.-Rt. 202) – pot hole filling, crack sealing, mill/pave, Oil& Stone treatment.
13. Van Beuren Rd. – pot hole filling, crack sealing, mill/pave.
14. Tigerlily Ln. – pot hole filling, crack sealing, mill/pave.
15. Woodland Ave. – pot hole filling, crack sealing, mill/pave.
16. Eawn Hill Dr. – pot hole filling, crack sealing, Oil & Stone treatment
17. Meyersville Rd. – pot hole filling, crack sealing.
18. Youngs Rd. – pot hole filling
19. White Deer Ln. – pot hole filling, crack sealing, Oil & Stone treatment.
20. Sand Spring Ln. – pot hole filling, crack sealing.
21. Miller Rd. – pot hole filling.
22. Peachcroft Rd. – pot hole filling, crack sealing, drainage work.
23. Woodland Ave. – pot hole filling, crack sealing.
24. Lantaska North. – pot hole filling, crack sealing, Oil & Stone treatment.
25. Shale Brook Dr. – pot hole filling, crack sealing, drainage work.
26. Blackwell Pl. – pot hole filling, crack sealing.
27. Red Gate Rd. – pot hole filling, crack sealing.
28. Millbrook Rd. – pot hole filling, crack sealing.
29. Hunter Dr. – pot hole filling, crack sealing.
30. Town Hall Parking Lot- crack sealing, re stripe

- Asphalt Repairs Performed by DPW**
- **Milling and paving** –
    - Grinding out deteriorated asphalt section, seal edges, repave.
    - Milling – minimum 24" wide X any length.
    - Paving/rolling – of milled patches.
    - Asphalt – 163 square feet/ton at 1" deep (\$66 per ton).
    - Example: 10'x20' patch @ 2" deep = 240 (1") sq./ft.=1.5 tons asphalt.
  - **Cold/Hot Patch – Pot holes**
    - Deficiency cleaned and asphalt shoveled and compacted.
  - **Crack Sealing** –
    - Hot liquid emulsion poured directly into crack.
    - 6 Tons of crack sealing solution used to date.
  - **Crossover pipes/basins** –
    - Create basin inventory and repair Priority list.
    - Replaced two deteriorated crossover pipes (Shale Brook Dr. and Peach Croft Rd.).
    - Continue labeling basins.
    - Rebuilt 15 deteriorated basins.



- Conclusion**
- New developments in the DPW:
    - Hiring of full time employee from seasonal staff.
    - Maximized Road Production.
    - Township roads have been improved significantly.
    - Rental of crack sealing machine.
  - Manpower has been re-organized to increase efficiency
    - Mechanic assists with Recycling driving.
  - Utilization of contractors:
    - Subcontractor hired for a 2<sup>nd</sup> year.