

2016 ROAD MAINTENANCE PROGRAM

Brent Meredith

**Town of Bethlehem
Superintendent of Highways**

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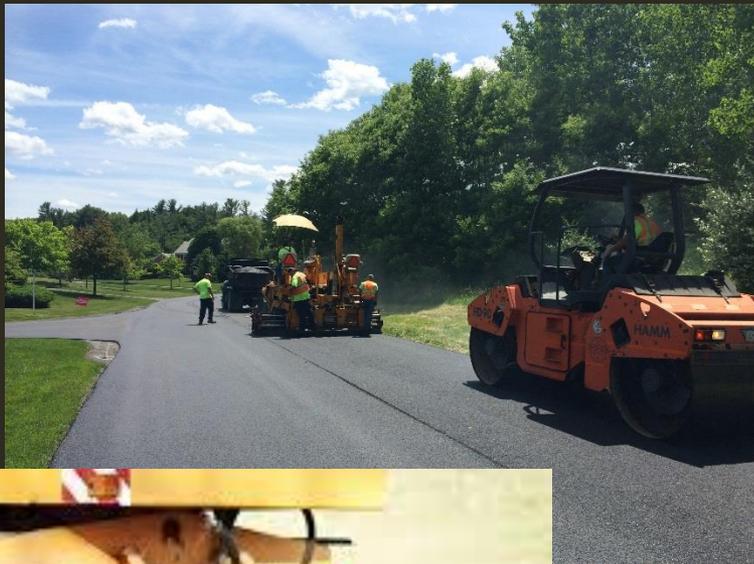
AGENDA

- ☒ Why do we maintain our roads?
- ☒ How is the Road Maintenance Plan developed?
 - ➔ The process – its not only pavement age
 - ➔ Pavement condition assessments on Town roads
 - ➔ Other considerations
- ☒ 2016 Road Maintenance Plan
- ☒ Section 284 Agreement

WHY DO WE MAINTAIN OUR ROADS?

Road Maintenance Program

- Goal is to maintain our high quality road system at lowest cost and avoid major reconstruction
- Road Maintenance program includes patching, area repairs, drainage maintenance, surface treatments and repaving



HOW WAS THE ROAD MAINTENANCE PLAN DEVELOPED?

☒ Pavement Condition Assessment

- Highway Department re-assessed Town roads in April and May 2016
- Condition Assessment is the foundation of road selection for Paving Plan

☒ Coordination

- DPW - water & sewer projects and problem areas
- Capital projects
- Engineering and Planning Dept. – New developments
- National Grid Gas and Electric
- Bike & Pedestrian Priorities – Complete Streets

☒ Field Work Planning

- Confirmation of street condition and priority
- Assess drainage & adjoining grades – milling required?
- Measurement of streets and planned work areas

PAVEMENT CONDITION ASSESSMENT



How People Typically See Roads

- Nice suburban road
- It's not too bumpy – the tires aren't "thumping"
- There aren't any potholes

PAVEMENT CONDITION ASSESSMENT



Upon Closer Inspection....

- Longitudinal cracking where a seam failed
- Ponding water and drainage issues
- Reflective cracking from underlying pavement joints
- Rutting in the wheel tracks
- Raveling where asphalt binder has deteriorated

IT'S NOT JUST PAVEMENT AGE



Ratings based on frequency & significance of common surface defects



IF WE WAIT TOO LONG COSTS GO UP QUICKLY

Goal:

Maintain good conditions & find problems early



Pavement Condition Informs Maintenance Need		Cost Scale
Ratings 9 & 10	No maintenance	
Rating 8	Little maintenance	
Rating 7	Routine maintenance (e.g., crack sealing, patching, etc.	\$
Ratings 5 & 6	Preventative treatments - thin overlay (< 2"), etc.	\$\$\$
Ratings 3 & 4	Needs strengthening – milling, patching, reclamation, struct. overlay (> 2"), etc.	(3 to 10) x \$
Ratings 1 & 2	Full reconstruction	(40 to 50) x \$

SECTION 284 AGREEMENT

☒ Requirement of NYS Highway Law

☒ NYS Highway Law – Section 284: Expenditures for repair and improvement of highways

➔ Requires a written agreement signed by a majority of the Town Board and Superintendent of Highways for:

- ⦿ Expenditure of local tax money
- ⦿ Expenditure of state funds (CHIPS)
- ⦿ For repairs, improvements or renewal of highways
- ⦿ Identifies locations, extent of work, and costs
- ⦿ Must be filed in Town Clerk's and County Highway Superintendent's office