



# Amherst Department of Public Works Strategic Plan FY21 – FY26

# Department of Public Works

## Mission Statement

- To effectively and efficiently manage the infrastructure placed in our care (travel ways, facilities and common grounds) so that residents have convenient access to safe and durable assets throughout the town.

## Vision Statement

- To reinvest in and upgrade our roads, bridges, municipal buildings and common grounds in compliance with all federal, state, local and historic codes and regulations.
- To continuously improve work methods and reduce cost.
- To manage stormwater, solid waste and municipal septic in compliance with all applicable regulations.

# Targeted Outcomes:

- Outcome #1: Roads:

*68% or greater of Amherst roads are rated good according to industry standard (pavement condition index(PCI)) by 2025.*

- Outcome #2: Bridges

*2018 - By 2025, six additional Amherst bridges & water crossings will be built or upgraded to last for 75+ years with the last 3 enrolled in DOT's program.*

# Targeted Outcomes:

- Outcome #3: Town Buildings

*By 2025 all Amherst town buildings and outbuildings are functionally sound and compliant with all appropriate regulations and codes.*

*DPW will lead a strategic analysis for all town building needs by 2020.*

- Outcome #4: DPW Management Systems

*By 2020, Amherst DPW will achieve work force productivity of 90%.*

- Outcome #5: Stormwater

*Amherst will continue to comply with evolving requirements of the Clean Water Act under the Municipal Separate Storm Sewer System permit issued by the EPA. This goal is evolving from DPW leading to collaboration between Community Development and DPW.*

# ROADS

*68% or greater of Amherst roads are rated good according to industry standard pavement condition index (PCI) by 2025.*

# Shifting the Balance of Road Ratings

- Residents have expressed a strong desire to improve our road quality. The number 1 question the DPW is commonly asked: “When is my road going to be done?”
- To attain our stated goal, our 7 year road plan assumes a \$100,000 yearly increase to budget.
- All town roads/segments have been evaluated and rated: Green, Yellow and Red. Our plan prioritizes: Arterials, Feeders, Through Roads then Cul-de-Sacs.

# Planned Road Miles by Year to Attain Goal 2019-2025

	Year Yellow to Green	Year Red to Green	Year Overlay (Red)	Total Green Miles	Total Yellow Miles	Total Red Miles	Funding
FY19				54	34	29	\$ 1,100,000
FY20	0.4	4.0	0.1	60	31	25	\$ 1,200,000
FY21	0.4	2.3	1.6	63	31	22	\$ 1,300,000
FY22	1.1	1.7	0.7	66	30	20	\$ 1,400,000
FY23	1.3	2.4	1.5	67	31	20	\$ 1,500,000
FY24	0.3	4.1	1.1	71	30	16	\$ 1,600,000
FY25	0.4	2.9	0.0	74	30	13	\$ 1,700,000
FY26	2.5	2.1	0.0	79	27	11	\$ 1,800,000
% at end				68%	23%	9%	\$ 10,500,000

# Bridges

*By 2025, six additional Amherst bridges & water crossings will be built or upgraded to last for 75+ years with the last 3 enrolled in DOT's program.*

# Bridges

There are 20 bridges in Amherst and 3 water crossings..

- Plan as presented last year requires \$200K per year through 2026 to succeed.
  - This will fund the 3 State Aid Bridges already on the state list. One each in FY22, FY23 and FY25.
  - This will fund the repair of town water crossings and the larger culverts.
- New failures have occurred that also need to be addressed. The twin culverts on Merrimack Rd failed this summer as well as one of the twin culverts on The Flume. These failures are unpredictable, except to the extent that metal culvert pipe is a poor material for long lasting culverts. These now need to be accounted for in the Bridge Repair and Replacement CRF.

# Current Status of Amherst Bridges & large culverts

Green bridges - 9

Yellow bridge - 3

Red listed bridges - 3

Large culverts – 3

Other large and or very long culverts will be surveyed and accounted for by next summer and included in next years' strategic plan.

- 2019 work done/in progress.
- Merrimack Rd twin 18" culverts were replaced with a 48" pipe. As per NHDOT hydrological study requirements.
- The Flume, a mis-matched set of two culverts, one 32" and one 36" will be slip lined prior to winter. The cost will approach \$100K.
- Planned Red Listed Bridges need to have public meetings to progress.

# Town Buildings

*By 2025 all Amherst town buildings and outbuildings are functionally sound and compliant with all appropriate regulations and codes.*

# Town Buildings Current Conditions

	Town Hall	Central Fire	South Fire	Police	Library	Recreation	DPW
Structure/Shell							
Heating							
Air Conditioning							
Work/Mtg. Spaces							
Sanitary Systems							
Utilities							
Storage Spaces							
Grounds/Drainage							

# Town Buildings Required Work

- Town Hall
  - Brick work restoration, side door , A/C replacement for Freon, Basement Storage Space.
- Fire/Rescue (Central)
  - Install switch gear and circuitry for the PD emergency generator to feed critical circuits at AFR and A/C replacement for Freon.
- Fire/Rescue (South)
  - Apparatus overhead door upgrades.
- Police
  - Rear siding replacement and fascia boards. (To be done in conjunction with PD project)
- Library
  - A/C replacement for Freon.
- Recreation
  - Site drainage improvements.
- DPW
  - A/C replacement for Freon, Dedicated mechanics space (in progress), garage bays repurposing .

# Town Buildings Improvements

- PD – All A/C units are Freon Free, Emergency Generator back up from AFR, Drainage and Entrance improvements, Paving.
- AFR – Bathroom at South Station, Emergency Generator Controls at Central Fire, Drainage and Entrance Improvements, Paving.
- Town Hall – Historic Window Rehabilitation, Handicapped Ramp Rebuild, Fire/Security Panel (false alarms), Acoustic Tiles, Catch Basin Replacement.
- Recreation – Bulkhead and Building Drainage, A/C Freon Free.
- DPW – New Sign Room, Door Openers.
- PMEC – Alarm Panel Replacement
- Library – Crosswalk, ??

# DPW Management Systems

*By 2020 Amherst DPW will achieve work force productivity of 90%.*

# DPW Management Systems

- Mobile 311 has become an essential tool that the whole department utilizes everyday.
- We have implemented a management cycle of continuous improvement. Question, analysis, trial and feedback data.
- We are committed to improving our work force efficiency through training.

# DPW Management Systems

- All work is entered as a Work Order, then: Prioritized, Planned, Assigned, Executed with a description of work performed, hours, vehicles and materials.
- Continuous Improvement: Road Signs, Pallet Burning, Standards, Barricade Trailer, Crosswalks, Equipment, Guard Rail Accident Reimbursement, Gravel Road – Winter Stone Use, Transparency and Communication.
- Core Training, all crew members have attended – flagging, chainsaw, culvert maintenance and green snow-pro classes. We have our first UNH T2 Road Scholar in several years. Other training included, loader, mechanic troubleshooting, grader, excavator.

# Stormwater

*Amherst will continue to comply with evolving requirements of the Clean Water Act under the Municipal Separate Storm Sewer System permit issued by the EPA.*

# Stormwater

- Collaborating with Community Development to develop a new way of ensuring compliance and addressing the new permit requirements outside the narrow view of DPW.
- Summer interns worked with town planner to integrate all previously gathered data into Arc GIS.
- Attended multiple trainings to take our annual water samples. They were cross checked for data quality by outside parties.
- Storm Water improvements. Infiltration and sediment structures for the AFR/PD, Infiltration and sediment structures at the Transfer Station.

Feedback?