

Town of Amherst  
Department of Public Works  
2014 Road Reconstruction  
Presentation



Presented by Director Bruce W. Berry  
February 24, 2014

# History Recap

- 2010 - Amherst St & Spring Rd
- 2011 – Mack Hill Rd, Mont Vernon Rd, & Austin Rd.
- 2012 – Arrow Lane, Boston Post Rd, Seaverns Bridge Rd, Courthouse Road, General Amherst Rd, Lyndeborough Rd, Middle St, Pierce Ln, Thornton Ferry Rd I, Woodbine Ln
- 2013 – Boston Post Rd, Corduroy Rd, Cross St. Lyndeborough Rd, Middle St, Pine Rd, Walnut Hill Rd.
- This represents an almost halfway point (11.44) of the 22.5 mi identified from the bond.

# Layout



# Layout Example continued

## County Road (Cricket Corner - Upham)

Station	Field Notes
0+00 - 0+75	Hold existing centerline grade
0+75 - 5+28	Construct 453 linear feet of 6" rigid HDPEP underdrain, 12' left of centerline
2+25	hold utility pole 35-15
4+55	hold utility pole 28-16
0+75 - 6+50	Full box reconstruction, maintain existing centerline elevation, remove 22" of material 13' left and right of centerline. Provide a minimum of 2.5% cross slope in compacted subgrade. Provide 12" if 304.2 bank run gravel, crown minimum of 2.5% and compacted 95+%. Provide 6" of 304.4 crush stone (fine gradation) crown 2.5% and compacted to a minimum of 95%.
4+00 - 6+00	increase 304.2 from 12" to 18" maintaining 2.5% crown and 95% compaction, shoulder to shoulder
5+28	remove 30' 15" aluminum culvert pipe and replace with 30' of HDPEP w/masonry rubble headwalls
6+75	<b>GPS</b> 42° 50' 49.63"N - 71° 35' 14.69" W end of work



# Layout continued

## Cost estimate worksheet

Item	Description	Unit	Quantity	Unit Price	Price
• 201.4	Removing Stumps	EA	2	\$50.00	\$ 100.00
• 202.41	Removal of Existing Pipe 0-24" Diameter	LF	30	\$10.00	\$ 300.00
• 203.1	Common Excavation	CY	1200	\$8.00	\$ 9,600.00
• 203.6	Embankment In Place	CY	60	\$10.00	\$ 600.00
• 214	Fine Grading	SF	18000	\$0.10	\$ 1,800.00
• 304.2	Gravel	CY	750	\$21.00	\$15,750.00
• 304.32	Crushed Gravel for Shoulder Leveling	TON	50	\$16.00	\$ 800.00
• 304.4	Crushed Stone (Fine Gradation)	CY	350	\$20.00	\$ 7,000.00
• 403.11	Hot Bituminous Pavement,(2.5" binder	TON	250	\$70.00	\$17,500.00
• 403.11	Hot Bituminous Pavement,(1.5" wearing	TON	150	\$70.00	\$10,500.00
• 570.415	MRM Header for 15" Pipe	EA	2	\$650.00	\$ 1,300.00
• 603.8515UD	15" Plastic Pipe (Smooth Interior)	LF	30	\$35.00	\$ 1,050.00
• 605.56	6" Perf Underdrain	LF	450	\$16.00	\$ 7,200.00
• 619.1	Maintenance of Traffic	LS	1	\$3,000.00	\$ 3,000.00
• 628.2	Sawed Bituminous Pavement	LF	50	\$1.00	\$ 50.00
• 632.0105	Retroflective Paint Pave. Marking 4" Line	LF	1350	\$0.16	\$ 216.00
• 632.3112	Retroflective Paint Pave. Marking 12" Line	LF	30	\$5.10	\$ 153.00

# 2014 Reconstruction Road Projects

- Boston Post, Amherst St. to New Boston Rd. 3,015'\*
- County Road, Cricket Corner to Upham 675'
- Cricket Corner Rd, Boston Post to County 3,100'
- Cross St, Middle to Boston Post 340'
- Danbury Circle 3,630'\*
- Foundry St, Boston Post to Christian Hill 1,300'
- North Meadow Rd, 2,495'\*

\* asterisk indicates a combination of budget and bond

- Merrimack Rd. (mill & fill), Boston Post to 122 (6,800') (budget)
- Boston Post (6,800') and Foundry (1,100') sidewalk (budget)

# Center of Town Work includes

- New water mains (work done by others)
- 1,505 feet of 15" HDPE culvert pipe
- 910 feet of 18" HDPE culvert pipe
- 675 feet of 24" HDPE culvert pipe
- 24 – 4' new catch basins
- 4 – 4' drain manholes
- 6 – 5' drain manholes





SUNSET

MIDDLE PARK

STREET

FOUNDRY

POST ROAD

CHURCH STREET

PARK 17-5

PARK 17-3

STREET

SCHOOL STREET

PARK 17-2

STREET

DAVIS LANE

MAIN ROAD

CARRIAGE MALL

LANE

CROSS ROAD

MIDDLE

OLD JAIL HOUSE ROAD

# 2014 Reconstruction Work cont.

## Center of Town “Pitfalls”

- Pennichuck Watermain replacements.
- Extremely tight construction window for Foundry and Boston Post. (June 25<sup>th</sup> – Aug 25<sup>th</sup>).
- Total reroute of the 4<sup>th</sup> of July parade.
- To make the above work, road closures & detours are a necessity up to and including temp 4 way traffic lights at Middle St. and Amherst St.
- Manchester Road Bridge conflict



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 PROPERTY MAP  
 TOWN OF AMHERST  
 HILLSBOROUGH COUNTY, NEW HAMPSHIRE  
 PREPARED BY

# Possible Temporary Options



## I have met with the following

- School District
- Bus Company
- Pennichuck Water
- Safe Routes to School

## I am scheduled to meet with

- Historic District Commission

# Process

- The Bid is scheduled for posting tomorrow February 25<sup>th</sup>
- Mandatory “Pre-bid” meeting here on March 7<sup>th</sup>.
  - This will include T.F. Moran, Pennichuck , rep from SAU, and Bus Company
- Bids due back and will be opened March 18<sup>th</sup>.
- Recommendation to award will be March 24<sup>th</sup> at BOS meeting.

# Process continued

- Information letters will go out to all affected residents describing the process.
- 5 individual information meetings will be held. One for each road or neighborhood.
- Center of Town has specific completion dates to hit built into contract.
- Specific scheduling of remaining roads (timeline) will be submitted for approval at the pre-construction conference.

# Questions





# DPW Equipment (last Thursday)

- 1996 (Tr-1) **TopKick,** 6X2 Sander, Plow, Wing Transfer Station
- 2008 (Tr-2) International 6X2 Sander, Plow, Wing Route
- 2012 (Tr-4) International 6X2 Sander, Plow, Wing Route
- 2011 (Tr-5) Ford F-550 4X4 Sander and **Plow** Route
- 1999 (Tr-6) International 6X2 Sander, Plow, Wing Route
- 2008 (Tr-8) **International 6X2** Sander, Plow, Wing Route
- 2006 (Tr-9) Ford F-550 4X4 Sander and Plow Route
- 2003 (Tr-10) International 10X2 Sander, **Plow,** Wing Route
- 2005 (Tr-15) International 6X2 Sander, Plow, **Wing** Route
- 2005 (Tr-14) International 6X2 Sander, Plow, Wing Route
- 2012 (Tr-17) **International 10X2** Sander, Plow, Wing Route
- 2008 Rec 1 Ford F-350 Plow shoveler
- 2004 Rec 3 **Ford F-550** Sander and Plow Route
- 2012 Zoning F-250 Plow Reserve
- 2011 Ford F-350 Plow Foreman's vehicle
  
- 2000 **Backhoe** 1 1/3 yd bucket backup plow / bucket loader
- 2008 Loader 2 ¾ yd bucket Load sanders
- 1996 Grader Plow and **Wing** Backup plow / wing back
- 2007 Massy Tractor Plow Town parking lots, Schools
- 2001 Trackless Blower, Sander Route (Sidewalks & Roads)

# Bridges



# Bridge Update

**Manchester Road**



**Horace Greeley Road**



# Update continued

- Bond passed in 2011
  - Engineering expenses to date have come from the operating budget.

• 2011	\$ 6,429.75
• 2012	\$ 85,027.55
• 2013	<u>\$ 67,679.72</u>
	\$159,137.02
  - We are approved for 80% reimbursement of engineering fees after approval of final plans by NHDOT.
  - And additional \$125,000 is required to reach final plans

# Schedule

- Both bridges require easements and wetland permits.
- To obtain the above, we need to;
  - Go before Amherst Historic District March 20
  - after which submit for approval of “Effect Memo” from NHDOT Cultural Resource Commission

# Bid Plan Schedule

- Manchester Road
  - Preliminary Plans March 28<sup>th</sup>
  - Final Plans April 25<sup>th</sup>
  
- Horace Greeley Road
  - Preliminary Plans March 7<sup>th</sup>
  - Final Plans May 30<sup>th</sup>

# Questions

