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## Water Distribution

### WATER SUPPLY & DISTRIBUTION FY 2005

In Fiscal Year 2005, the following were installed as part of the North Andover Water Distribution System: 6,120 feet of twelve-inch water main, 10,155 feet of eight-inch water main, and 220 feet of six-inch water main; plus 14 twelve-inch gate valves, 22 eight-inch gate valves, and 17 six-inch gate valves; and 46 fire hydrants.

The water distribution system now consists of: 143.12 miles of main pipe; 6 twelve-inch, 2 eight-inch, and 1 six-inch check valves; 4 twelve-inch altitude valves; 5 twenty-four-inch butterfly valves; 523 twelve-inch, 4 ten-inch, 1,036 eight-inch, 1789 six-inch, and 4 four-inch gate valves; and 1,417 public hydrants.

SIZE OF PIPE (INCHES)	24	12	10	8	6	4	3
LENGTH OF PIPE (FEET)	1,917	264,514	7,615	393,254	87,029	1,260	160

There were installed in 2004-2005 either wholly or partially, 71 water services. Seven damaged fire hydrants were replaced and 28 water main breaks or leaks were repaired. Hydrants were inspected, repaired, flagged, and painted where necessary.

#### STATISTICS RELATING TO DISTRIBUTION SYSTEM

1. KIND OF PIPE	CAST IRON AND DUCTILE IRON
2. SIZES	3" TO 24"
3. EXTENDED DURING THE YEAR (FEET)	16,495
4. DISCONTINUED (FEET)	10,848
5. TOTAL NUMBER OF HYDRANTS ADDED DURING THE YEAR	46
6. TOTAL NUMBER OF HYDRANTS NOW IN USE	1,417
7. NUMBER OF STOP GATES NOW IN USE	3361
8. NUMBER OF STOP GATES SMALLER THAN 4 INCHES	0
9. NUMBER OF BLOWOFFS	6
10. RANGE OF PRESSURE ON MAINS	20 TO 148 PSI
11. KIND OF SERVICE PIPE	CEMENT LINED, LEAD LINED, COPPER, CAST IRON, DUCTILE IRON
12. SIZE OF SERVICE PIPE	¾" TO 10"
13. NUMBER OF SERVICE TAPS ADDED THIS YEAR	71
14. NUMBER OF SERVICE TAPS NOW IN USE	7,335
15. NUMBER OF METERS INSTALLED	479

As part of the Town's program to replace old, unlined cast iron pipe, DeFelice Corporation of Dracut installed new water mains were in Farnum Street, Wood Lane, Bradford Street, Wilson Road, Highland Terrace, Peters Street, Cotuit Street, and Brewster Street.

To expand the Sutton Hill High Service Area, DeFelice Corporation installed new water mains in Chestnut Street and Sutton Hill Road, creating a beneficial loop to the high service area. As a result, Greenwood East Lane, Blueberry Hill Lane, Booth Street, and Saville Street became part of the high service area, with increased water pressure and improved hydrant flow rates.

Private developers extended the town's water distribution system in a section of Forest Street, Garnet Circle, a section of Dale Street, and Meetinghouse Road.

The third capital improvement project to replace old water meters was awarded to Five Oaks construction of Groton, MA. Nearly 1,000 old meters will be replaced in FY06 with the new radio-read type meters.

A leak detection survey was conducted in the spring of 2005 by the RJ Sopper Testing Company of Woburn, MA. Eight leaks were discovered and repaired as follows.

<b>Leak No.</b>	<b>Location</b>	<b>Description</b>	<b>Estimated Flow, GPM</b>
1.	35 Johnnycake Street	Service	15
2.	31 Court Street	Service	15
3.	20 Ironwood Road	Service	15
4.	110 Lancaster Road	Hydrant	2
5.	34 Trinity Court	Hydrant	2
6.	Highland Terrace	Hydrant	2
7.	Chadwick/High Sts	Hydrant	2
8.	Marblehead/Belmont	Hydrant	2

last updated 4/1/06