

Natural Resources Commission. The project received its denial from the NRC and denial of the superseding order of condition and remains on track to receive its Wetland Protection Act variance to meet the construction bid advertisement date of September 2011. The Town Manager, Concord Public Works, Public Works Commission and Board of Selectman have worked closely with officials at MassDOT in the development of an agreement to provide the Town with up to \$7.5 Million dollars in funding for major roadway and drainage rehabilitation on Cambridge Turnpike. This work will include the construction of storm water improvements downstream of the Crosby Corner Project to address the additional stormwater volume that will be generated by the project.

- Route 2/Concord Rotary – Mass Highway’s design consultant is in the process of preparing the filing of the Environmental Impact Report with MEPA along with preparing the 25% design plan set. The design consultant has been performing subsurface boring tests in critical locations of the project including proposed bridge locations, proposed drainage basin locations and proposed retaining wall locations. No construction timeline is planned at this time as the project is not within the current Transportation Improvement (TIP) Program, but remains on the MPO’s “illustrative project list”.

HIGHWAY & GROUNDS DIVISION

Dickinson Fowler,
Highway & Grounds Superintendent

The Concord Public Works Highway and Grounds Division maintains approximately 107 miles of public streets along with the associated drainage systems consisting of almost 50 miles of drain lines, over 3,700 catch basins, 200+ culverts, 1,700 drainage manholes and 315 outfalls. In addition, the Highway and Grounds Division maintains 55 miles of sidewalks, 2,793 signs, over 90 CPW vehicles and equipment, and manages the compost facility. It is responsible for 82 acres of public parks and grounds including 39 acres of active recreation areas (10 athletic fields). The Division maintains all public shade and park trees, under the direction of the Park and Tree Supervisor who is also the Town’s Tree Warden.



Snow Removal Program

2010 saw continuing activity for the Department’s winter maintenance personnel, including the ongoing use of salt and sand as well as brine to keep the roads and side walks safe and passable. There were five storm events requiring full mobilization of forces involving Town staff and plowing contractors while the entire winter maintenance season included twenty-five events requiring a response for snow and ice maintenance. One event just before the Christmas holiday required a full snow removal in the Town centers with all other removals throughout the season handled by Highway and Grounds forces only.

Roads and Sidewalk Maintenance

The Highway Division manages the contracts for several major maintenance programs including Catch Basin Cleaning as well as pavement preservation strategies such as infra-red patching. These programs were completed in the spring and fall during cooler temperatures. Highway crews reclaimed several sections of roadway with full-depth patches of distressed pavement in preparation for certain road projects as well as those roads scheduled for crack sealing. Roads and areas which received this treatment included the Compost Site, Rte. 117, Sudbury Rd., and Barretts Mill Rd. Berms were installed on Strawberry Hill Rd., Chase St. and Williams Rd. to better control water flow and minimize erosion.

In addition to the typical duties of road repair and maintenance, sign repair/ replacement, roadside brush cutting and street sweeping, the Highway and Grounds Division carried out sidewalk maintenance work that included both overlays and reconstruction on ORNAC, Minot Rd., Butternut Cir., Fox Lane, Elm St., Main St., Thoreau St., and Walden St. A number of other smaller repair projects were completed in cooperation with Concord Light, Water and Sewer Division, and

the Natural Resources Division which included the construction of a handicapped accessible parking lot at Tuttle Trail on Walden Street.

Drainage

Three major engineered drainage projects were accomplished using Highway forces including Whittemore St., Famer's Cliff Rd. and Ash St. with each requiring numerous catch basin and manhole replacements and additions, new drainage lines as well as headwall repair and dewatering during construction. In addition to these major projects, repair and replacement were carried out on drainage structures on Annursnac Hill Rd., Commonwealth Ave., Barretts Mill Rd., Silver Hill Road, North Branch, and Lexington Rd. Catch basin cleaning was accomplished in West Concord, reaching the goal of cleaning all catch basins once every two years. A major response to severe flooding in the spring included a Federal disaster declaration and participation by the Federal Emergency Management Agency for the cost of response and repairs.

Parks and Playgrounds

The Park & Tree crews maintain over 39 acres of athletic fields for use by the baseball, softball, soccer, lacrosse and other programs. With the addition of the multi-use fields at CCRHS in 2008, this totals almost 50 acres. Emerson, Rideout, Ripley, Concord Carlisle Regional High School new fields, and Sanborn playgrounds are heavily used from spring through the fall and receive the most attention with regard to mowing, raking, line painting, cleaning, seeding and fertilizing, etc. Sprinkler systems are maintained with upgrading of equipment at Sanborn and Ripley during 2010. Highway and Grounds Division provided support with maintenance of various conservation areas, as well as the Community Gardens, the Visitor's Center, the hanging plant program in West Concord, numerous gateway traffic islands and areas of public access in the business districts. Park and Tree staff participated in numerous special projects including the construction of a temporary skating rink at Emerson Field, as well as new major planting beds on Rte. 62 at Old Stow, and The Knoll at Sleepy Hollow.

Following lengthy discussions between Town of Concord officials and Sprinturf, the manufacturer of the artificial turf fields at CCRHS, it was agreed that the fields would be replaced. An improved version of UL-

trablate M/M utilized a new formulation of materials and addressed an issue with lead content. This work was performed at no cost to the Town under a warranty replacement. Operational staff from the Park and Tree and Engineering Divisions assisted in this effort with the project being completed in late fall.

Trees

Concord Public Works planted a total of 55+ public shade and park trees. All shade trees were planted in accordance with the Division's policy of "the right tree in the right place", and included many trees planted on private property as public shade trees, in accordance with the shade tree setback planting policy. These plantings included 8 trees planted at the High School Turf Field entrance and Parking Lot by High School students working with Park and Tree staff. Along with the new plantings, the Park & Tree crews pruned 35+ trees and took down another 150+ trees that had been damaged or were in hazardous condition jeopardizing public safety and town infrastructure. Trees continued to be pruned, removed and maintained and replanted at Sleepy Hollow Cemetery.

The "public shade tree protection policy" continues to be shared with the public, contractors and Town Departments. The Division's goal remains to replace at least one public shade tree for every public shade tree that is removed or dies, although in recent years due to budgetary constraints this has become an increasingly difficult goal.

Cemetery

In addition to routine maintenance, mowing and burial activities, the Cemetery Division staff worked on numerous projects and provided contractor oversight on other projects. The original Cemetery office/operations location at the "deeds" building was completely renovated by Town staff and the Town Assessors office was relocated to this location in April. The Cemetery office and operations, which had been temporarily located at the Concord Public Works campus on Keyes Road, was relocated to the Sleepy Hollow Knoll Cemetery following the completion of construction of an operations and maintenance facility at that location.

The American Yew (*Taxus*) hedges surrounding the ellipse at the Knoll were removed and replanted and xeriscape planting beds were installed which conformed

better to new grave locations. The Melvin Memorial continued to be monitored daily with maintenance activities performed including annual review and treatment of the slate tablets and rifle inserts.

In the ninth year of a multi-phase monument restoration program in the older cemeteries, preservation consultants continued a third year of assessment and physical conservation efforts at Old Hill Cemetery in Concord Center restoring approximately 30 headstones and gravesites.

RECYCLING AND WASTE MANAGEMENT PROGRAM

Rod Robison,
Curbside Collection, Disposal, and Processing

The municipal curbside collection program provided trash and recycling services to 3,407 households. Subscribers to the municipal collection program set out 1,211 tons of mixed paper, 599 tons of commingled containers, and 2,426 tons of trash for collection. The average subscriber to the Town program recycled .53 tons of materials and threw away .71 tons of trash.

SUBSCRIBERS (AS OF JUNE 30)

Year	Subscribers	Recyclables tons collected	Trash tons collected	Recycling Rate
FY98	2,518	1,264	2,351	35%
FY06	3,224	1,986	2,552	44%
FY07	3,184	1,982	2,559	44%
FY08	3,305	2,025	2,467	45%
FY09	3,323	1,864	2,387	44%
FY10	3,407	1,810	2,426	43%

(FY = July 1 through June 30)

Curbside Recycling Rate

Residents using Concord's municipal curbside collection program recycled 43% of the materials they set at the curb. This figure does not include yard waste, which residents manage at home or drop off at the Composting Site on Saturdays, April through November. It also does not include the tons of materials collected for recycling at the semi-annual DropOff-SwapOff days nor does it include information on the more than 1,000 households that contract with private haulers for the collection of their trash and recyclable materials.

Recycling Savings Exceed \$1.6 M

The recycling program received revenue of \$20,220

for paper and avoided \$93,247 in disposal costs by not disposing of paper as trash. Since July 1998, when the Town began receiving revenue for recycled paper, recycled paper revenue has totaled \$420,602 and avoided disposal costs have totaled \$1,214,568, for an overall savings of \$1,635,170. The Municipal Collection Program received an average of \$16.69 per ton for recycled paper collected at the curb.



The October DropOff event had record attendance

Year	Disposal cost	Paper revenue	Avoided disposal cost
FY98	\$110,564	(\$8,061)	\$38,798
FY10	\$186,786	20,220	\$93,247
FY09	\$194,254	\$25,833	\$93,282
FY08	\$194,254	\$58,188	\$116,818
FY07	\$195,783	\$35,302	\$119,898

(FY = July 1 through June 30)



Judy Hill, REUSIT member, enthusiastically helps out with the October DropOff SwapOff event.