

2008 ANNUAL REPORT

Department: Highway

Department Head: David Hartman

Departmental Employees: 29

Department Mission: The Yates County Highway Department is responsible for the construction, maintenance and repair of the County owned 181 mile, 40 bridge highway system. The Department accomplishes its mission by planning and completing various capital highway and bridge improvement projects and by performing highway and bridge maintenance and repair activities. The Department also provides snow and ice control services as needed.

January-March

January weather was relatively mild with no large snowfall accumulations although County snow & ice removal crews were out 15 days for various light snow events. There were also several freezing rain and sleet events that required attention. Crews worked on cleaning ditches and cutting trees and brush on Bath Rd. and Darby's Corners Rd. on the days when crews were not performing snow removal duties. There were several safety and training sessions held in January and February. Preparation work for 2009 capital improvement projects on CR#33, Darby's Corners Rd. continued. Pipe crew continued pipe changes and ditch cleaning on CR#14, Havens Corners Rd in January. Crews were out 22 of 29 days in February on snow and ice removal operations. There were no large storms but rather many small events and more sleet/freezing rain events. A late March 27th - 28th storm dumped up to 8" of snow in some of the higher elevations in the County but by the 31st much of it had melted down and the month of March went out raining and windy.

April-June

Early April brought above normal temperatures and relatively mild weather. Crews continued work on Darbys Corners Rd. and Havens Corners Rd. pipe replacements, ditch cleaning and back slope earthwork. Various road shoulders were repaired to correct problems caused by winter plowing. Various roadside ditches and backslopes were hydro-seeded. Midland Asphalt began cold milling of pavement May 12th on CR#5, (Dundee-Himrod Rd.) and finished on May 15th. Suit-Kote crack sealed Vine Valley, Pierce Hill and part of Italy Valley Rd. between May 19th and May 27th. Midland Asphalt milling crew moved to CR#40, (Dundee-Starkey Rd.) the afternoon of May 15th and completed milling of pavement on May 20th. CR#36, (Plum Point Rd.) was cold in-place recycled by Suit-Kote between May 14th and May 16th. Hanson Aggregates placed hot mix pavement on CR#5 between May 22nd and June 6th. Hanson moved to CR#40 and completed hot mix paving June 6th - June 9th. Hanson Aggregates completed hot mix paving on CR#36 June 16th - 17th. Crews prepared Bath Rd. (Rt. 54 to Barrington line), Travis Rd., and Ridge Rd. (CR#14 to CR#6) for surface treating activities that were completed on June 9th - June 11th. One County crew installed shoulders (millings from CR#5, 36, 40, 44) from early June through the end of June.

July-September

Crews continued earthwork on Darbys Corners Rd, replacing culvert pipes on Havens Corners Rd, and hydroseeding ditches and backslopes as required. Miscellaneous maintenance projects such as flushing pipes, grader patching, shoulder repairs, driveway pipe replacements, guiderail repairs, ditch cleaning and brush trimming were also completed. One crew milled off pavement (with Village of Penn Yan assistance) and re-paved bridge approaches in Bellona on Pre-Emption Rd. and Ridge Rd at the Keuka Lake outlet bridge. Installed box beam rail and rubberized wheel stops under the box beam on Plum Pt. Rd in order to keep storm water from flowing over the embankment and eroding private property. Repaired pavement damage and improved drainage at the Martin farm at the intersection of CR#9, Ridge Rd. and Rt. 54. Replaced buried drain pipe and improved drainage, boxed out and re-paved a bad spot at the intersection of Milo Center Rd. and Himrod Rd.

July-September continued

Grader-patched several roads with hot mix asphalt where ruts had developed. Repaired a drainage/erosion issue under the guide rail on CR#18 at the Flint Creek Bridge. In-filled low shoulders on various roads including Glenora, Himrod, County House, Darby’s Corners and Lovejoy. On CR#4, Ferguson Corners Rd. at all guiderail locations, the rail was removed, old railroad rail posts were removed and replaced with approved posts. Kimball Gully creek was cleared of downed trees and stream alignment improved between South Avenue Bridge and Lake St. in Penn Yan. The culvert crew began culvert replacements on Voak Rd and two crews worked on various bridge maintenance items such as stream bank and scour protection, drainage at approaches and under bridge rails, stream re-alignment, and welding, painting and aggradation removals to correct deficiencies noted in recent inspection reports in an effort to improve ratings during the next inspections. The Tri-County (Yates, Steuben, Schuyler) lane striping truck was in the county to paint traffic control lines in August.

October-December

The culvert crew continued replacing culverts on Voak Rd through October and completed all culvert replacements in early November. Bridge maintenance activities continued at various bridges to address concerns noted in the NYSDOT bi-annual inspections. The bridges where maintenance work was performed were Moon Hill, Cherry St., Water St., Thistle St., Milo St., Old East Lake Rd., West Ave., Plum Pt. and Guyanoga Rd. over Big Gully. Crews continued other various maintenance projects including tree and brush removals, ditch cleaning and handled requests for driveway pipes. Snow fence was installed on Pre-Emption Rd. and Italy Hill Rd. The earthwork crew began cleaning ditches and clearing back slopes on Voak Rd. in late October and continued through November and December when weather allowed. One employee and one Highway pickup truck assisted the Elections Commissioners with moving voting machines to and from polling sites in early November. Repair work began in November on a deep tunnel-culvert on Bath Rd. The concrete support wall for the multi-plate steel arch on the north side of the culvert was discovered to be deteriorated and failing in some areas (see pictures below) and will require concrete forms and new concrete placed in 2009. Temporary supports were installed and preparation work for new concrete was completed by year end. November brought many early season, light snow events and trucks were out fourteen days. Trucks were out on snow and ice control operations nineteen times in December.

PERSONNEL

The permanent work force:	Superintendent	1
	Deputy Superintendent	1
	Highway Maintenance Foreman	1
	Administrative Assistant	1
	Sr. Account Clerk Typist	1
	Working Supervisors	4
	Automotive Mechanic Supervisor	1
	Sr. Automotive Mechanic	1
	Automotive Mechanic	2
	Sign Maintenance Workers	2
	HEO	7
	MEO/L	7
	Total Employees	29

Temporary summer employees included five laborers.

EQUIPMENT

Purchased:

2008 Volvo EW160C rubber tired excavator with buckets, thumb and extended warranty for \$159,911

(3) 2008 Ford F250, 3/4 ton pickup trucks for \$70,422

2008 New Holland TL-90 Mowing tractor with side mower for \$53,653

Total Purchases = \$283,986

EQUIPMENT continued

Sold:

- (2) Ford F250 pickup Trucks for \$8,000 each
- (1) Ford F250 pickup truck for \$1,600
- (1) Ford 4630 Tractor w/side mower for \$10,000
- (1) 2001 Caterpillar M315 excavator for \$57,500
- (1) 1995 Ford L9000 Tandem axle dump truck w/plow & wing for \$13,000
- (2) 1958 FWD Snow Blowers for \$1,200 each

Total Net Sales after commission: \$91,325

BUILDINGS & GROUNDS

Bergmann Associates completed their Condition and Needs Assessment of the Highway facility in Benton and presented their findings and recommendations at the June Public Works Committee meeting. The findings were that the facility is 40-50 years old and mechanical systems are at or near the end of their useful life, the buildings do not meet the programmatic needs of the Highway Department. Bergmann recommended a combination of new construction and renovations to address the spatial needs and building condition deficiencies.

ROAD WORK – CAPITAL

- CR#5, Dundee-Himrod Road (3.79 mi.): Cold-milling of pavement was completed by Midland Asphalt Materials, Inc. in mid May at a cost of \$82,697. Millings were hauled by County and Town forces to staging areas in the Milo gravel pit on Rice Hill Rd. and to the Village of Dundee's staging area on CR#44 for later use as shoulder material. Hansen Aggregates, Inc. placed a 4" deep Type 3 hot mix asphalt base course (9,799 tons), a true and level course then a 1.5" Type 6F hot mix asphalt wearing course (3,936 tons) at a total cost of \$715,738. Oil price increases accounted for \$54,910 of the total paving cost. Shoulders, signs and hydro-seeding were done by YCHD forces and lane striping was done by the Tri-County owned striping truck. Total job cost including all prep work done in 2007 was \$1,162,534 (\$306,737 per C/L mile).



CR5, Dundee-Himrod cold milling of pavement



CR5, Dundee-Himrod cold milling of pavement

- CR#36, Plum Point Road (1.86 mi.): Cold-in-Place Recycling (4" deep) of the existing pavement was done by Suit-Kote in mid May at a cost of \$134,539. In mid June, Hanson Aggregates, Inc. placed a 1.5" Type 6F Hot-Mix Asphalt top course over a true & leveling course at a cost of \$151,607. The total tonnage of hot mix asphalt was 3,012 tons. Oil price escalation accounted for \$21,504 of the total paving cost. Shoulders, signs and hydro-seeding were done by YCHD forces and lane striping was done by the Tri-County owned striping truck. Total job cost including all prep work done in 2007 was \$450,993 (\$242,469 per C/L mile).



CR36, Plum Pt. shoulder/rail before project



CR36 Plum Pt. cold recycling at East end



CR36, Plum Pt. box-beam installation



CR36, Plum Pt. new shoulder/box-beam

- CR#40, Dundee-Starkey Road (2.94 mi.): Cold-milling of pavement was completed by Midland Asphalt Materials, Inc. in mid May at a cost of \$66,472. Millings were hauled by County and Town forces to the Village of Dundee's staging area on CR#44 for later use as shoulder material. Hansen Aggregates, Inc. placed a 4" deep Type 3 hot mix asphalt base course (3,312 tons), a true and level course then a 1.5" Type 6F hot mix asphalt wearing course (7,063 tons) at a total cost of \$566,393. Oil price increases accounted for \$69,368 of the total paving cost. Shoulders, signs and hydro-seeding were done by YCHD forces and lane striping was done by the Tri-County owned striping truck. Total job cost including all prep work done in 2007 was \$801,778 (\$272,714 per C/L mile).

Capital improvement mileage decreased by 26% from 10.8 miles in 2007 to 8.6 miles in 2008. The increase in the average per mile costs and the corresponding decrease in mileage completed were due mainly to significantly higher asphalt prices.

A total of 26,964 tons of hot-mix asphalt was used for the two capital improvement projects.

ROAD WORK – MAINTENANCE

Various maintenance projects including ditch cleaning, shoulder repairs, mowing roadsides and grader patching were completed on various roads. Crack sealing was done on various roads as needed in June. Roads that were sealed included Vine Valley, Pierce Hill, Italy Valley between Rte. 364 and the Italy Turnpike and Shay Rd. was sealed in the fall. Total cost for crack sealing was \$44,621.

Surface treating was done on Lakemont-Himrod Rd. between CR#42 and Rice Hill Rd. for \$61,526 (\$12,379/mi.), Bath Rd. from Rte. 54 to the Barrington town line for \$85,122 (\$17,550/mi.), Travis Rd. for \$6,312 (\$6,312/mi.) and Ridge Rd. between Havens Corners Rd. and Earls Hill Rd. for \$16,439 (\$6,850/mi.)

Traffic control signs were replaced and maintained as required on various roads. The Department began to address the revised Federal Manual of Uniform Traffic Control Devices and the new standards regarding sign placement locations and retro-reflectivity. Deputy Superintendent Craig Prior and the Sign Maintenance Workers worked on establishing a complete data base of all traffic control signs in order to develop a strategy for complying with the new regulations.

BRIDGES & CULVERTS

Main St. Bridge (federal aid project) rehabilitation work was started in early September by Slate Hill Constructors, Inc. of Warners, NY. was the low bidder at \$690,655. The general scope of work was to remove and replace the concrete deck on spans two through four and replace the bridge seat bearings, repaint the steel beams and replace the deck over span one (Outlet Trail). All work was completed by December 12th except the handrail installation for the new steps and the asphalt approach paving. Asphalt approach paving and handrail for steps will be completed in the spring of 2009.



Installing Main St. deck reinforcing steel



Concrete deck replacement



Outlet Trail span, anchor bolt installation



Bridge opening, December 4, 2008

BRIDGES & CULVERTS continued

All bridge beam bearing plates and non-shrink grout pads were replaced on Valley View, Loomis and Alexander Road bridges. Removal of sediment aggradation under the approach rails of many other bridges was also completed in an effort to improve drainage and condition ratings.

CR17, Bath Rd - An inspection of a large, deep, multi-plate arch pipe culvert revealed large pieces of concrete beginning to spall and separate from the north support wall leaving a section of the multi-plate arch unsupported. A crew was dispatched to remove trees, build a staging area and temporary access road down to the culvert so that temporary shoring could be installed until permanent repairs could be made in 2009. All loose sections of concrete were removed and reinforcing steel dowels were drilled and set into the existing walls. Concrete forms will be set in 2009 and the north wall will be re-faced with new concrete. The southeast wing wall was also discovered to be severely cracked and displaced due to soil pressures and poor drainage behind the wall.



Staging area and access to CR#17 culvert



Broken, spalled concrete at north support wall



Temporary 6" x 6" supports and new dowels



Dowel installation

MISCELLANEOUS

There were 78 dead deer carcasses removed from County roads

Landfill: Grass was mowed twice per the landfill closure manual guidelines.

Drug & Alcohol testing: Seventeen (17) random tests were conducted by Soldiers & Sailors Memorial Hospital lab personnel with 13 being for substance, 3 for alcohol, and 1 pre-employment. Results of all tests were negative.

There were no fatal Motor Vehicle Accidents that occurred on County Roads.