

ONONDAGA COUNTY

**CAPITAL IMPROVEMENT PLAN
(for informational purposes only)**

DEPARTMENT: TRANSPORTATION

Project: Bituminous Surface Treatment

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Ongoing

Budget Code: 060509

Budget Impact: \$0

Project Description:

The treatment of County highways with a bituminous surface treatment to prolong the life of the wearing surface.

Project Cost Summary:

FUNDING SOURCE:	Pre-2007	2007	2008	2009	2010	2011	2012	6yr Total	Total:
County Tax Revenues	777	777	855	855	855	855	855	5,052	5,829
TOTALS	777	777	855	855	855	855	855	5,052	5,829

Project Detail and Status:

All funding is in 2006 dollars. This ongoing program is designed to protect the County's investment in 375 miles of low volume highways. Highways are selected based on pavement condition, traffic volumes, structural integrity and irritability.

Highways in the bituminous surface treatment program should receive a treatment once every five years to prevent accelerated and costly deterioration of the roadway. This process seals the surface of low volume highways while enhancing the traction and stopping abilities of the wearing surface reducing the County's liability. The current funding level allows for 54 miles of surface treatment this year and in 2007. The remaining schedule above maintains a 59 mile per year program.

DEPARTMENT: TRANSPORTATION

Project: Bridges

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Federal/State Mandate, Community/Economic Development

Level of Development: Ongoing

Budget Code: 060505

Budget Impact: \$0

Project Description:

Maintenance and repair of bridges within the County highway system.

Project Cost Summary:

FUNDING SOURCE:	Pre-2007	2007	2008	2009	2010	2011	2012	6yr Total	Total:
Federal Aid	2610	1,665	300	1,100	2,775			5,840	8,450
Borrowing to be Authorized	1275	1,300	1,325	1,350	1,375	1,400	1,400	8,150	9,425
County Tax Revenues	60	75	75	75	75	75	75	450	510
State Aid	429	284	3	201	520			1,008	1,437
TOTALS	4,374	3,324	1,703	2,726	4,745	1,475	1,475	15,448	19,822

Project Detail and Status:

All funding is in 2006 dollars. The Department of Transportation operates an ongoing bridge construction program, using department forces, to maintain the 210 bridges within the County highway system in a safe and acceptable condition. Site selection is determined through inspection results. Contract forces, usually with State and Federal aid, undertake larger projects.

The New York State Department of Transportation conducts an annual inspection of all bridges in the state with a span of 20 feet or greater. Each bridge receives a condition rating based on a scale of zero to seven. The Onondaga County Department of Transportation's goal is to raise the average condition rating of its bridges to over five. The increased annual funding of this project reflects the Department's efforts to meet this goal.

DEPARTMENT: TRANSPORTATION

Project: Capital Highway Construction

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Community/Economic Development

Level of Development: Ongoing

Budget Code: 060508

Budget Impact: \$0

Project Description:

Construction of major highway improvements.

Project Cost Summary:

FUNDING SOURCE:	Pre-2007	2007	2008	2009	2010	2011	2012	6yr Total	Total:
County Tax Revenues								0	0
Borrowing to be Authorized	4140	3,525	3,525	3,525	3,525	3,525	3,525	21,150	25,290
State Aid	1105	523	0	2	980			1,505	2,610
Federal Aid	6331	2,786	354	256	5,228			8,624	14,955
TOTALS	11,576	6,834	3,879	3,783	9,733	3,525	3,525	31,279	42,855

Project Detail and Status:

All funding is in 2006 dollars. This project encompasses major highway improvements as follows:

- 1 - Traffic Capacity - includes improvements to signalization, grading and alignment, using designs based on a projection of traffic volumes 20 years in the future.
- 2 - Accident Reduction - using NYS "Computerized Local Accident Surveillance System" (CLASS) accident rate reports, improvements to pavement quality, highway geometrics, road shoulders, turning lanes, traffic control devices, guide rail, and the elimination of roadside hazards, are made in an effort to reduce the accident rate in identified areas.
- 3 - Maintenance Costs - improvements such as full depth replacement of the pavement, paved shoulders, improved drainage, and provisions for sub base drainage are made to extend the pavement life of highways rapidly deteriorating due to high volume traffic.
- 4 - Highways On New Alignment - developing traffic patterns occasionally demand the need for highways to be built on new alignment to relieve congestion of existing highways, where improving these highways is more costly; this frequently results in an energy savings to the public.
- 5 - Right of Way Acquisitions - purchase of needed Rights of Way necessary to complete the programmed projects.

Individual highway projects are at various stages of development. Due to the severely rising costs of construction and the need to maintain an even flow of funding, some projects have been funded over multiple years. The schedule is as follows:

Syracuse-Cedarvale Road (Grand Avenue) II - scheduled for 2006, the project beings 1000 feet east of Onondaga Blvd. and proceeds 0.42 miles to 1,000 feet east of Fay Road.

Taft Settlement, Part II (East Taft Road) - The project, scheduled for 2006, in the Towns of Clay and Cicero will rehabilitate pavement, shoulders and drainage to improve safety and reduce maintenance costs. The project will begin at South Bay Road and progress easterly 3.3 miles to Northern Boulevard. This project will be a locally administered federally funded project with a financial cost breakdown of 80% Federal, 15% State, 5% County for Construction.

Dewitt – Cicero Road - scheduled in 2007 and 2008, this project in the Town of Cicero, begins at the intersection of Island Road and Northern Boulevard and proceeds northerly a distance of 1.68 miles to NYS Route 31. This project will rehabilitate pavement, shoulders and drainage to improve safety and control maintenance costs. Design will begin late in 2006 with a 2008 construction letting. Funds from 2007 and 2008 will be necessary to complete this project.

Fly Road I - this project scheduled in 2008 begins at the intersection of NYS Route 290 and proceeds northerly to Taft Road, a distance of 1.19 miles. The project will rehabilitate pavement, shoulders and drainage to improve safety and reduce maintenance costs. Design will begin in 2007 with a 2008 construction letting. Funds from 2007 and 2008 will be necessary to complete this project.

Hopkins Road - this project scheduled in 2009 begins at the intersection of Electronics Parkway and proceeds easterly to Buckley Road, a distance of 1.15 miles. The project will rehabilitate pavement, shoulders and drainage to improve safety and reduce maintenance costs. Design will begin in 2008 with a 2009 construction letting. Funds from 2008 and 2009 will be necessary to complete this project.

Fly Road II - this project scheduled in 2010 begins at the intersection of New Venture Gear Drive and proceeds Northerly to NYS Route 298, a distance of 0.71 miles. The project will rehabilitate pavement, shoulders and drainage to improve safety and reduce maintenance costs. Design will begin in 2008 with a 2010 construction letting. Funds from 2009 and 2010 will be necessary to complete this project.

Soule Road - this project scheduled in 2010 and 2011 begins at the intersection of Old Route 57 and proceeds easterly to NYS Route 481, a distance of 1.40 miles. The project will rehabilitate pavement, shoulders and drainage to improve safety and reduce maintenance costs. Design will begin in 2010 with a 2011 construction letting. Funds from 2010 and 2011 will be necessary to complete this project.

Funding scheduled in 2012 will be used to design the 7th North Street and other projects slated for the out years.

Locally administered, federally aided highway and bridge construction projects have been funded as part of this plan. Projects including the repaving of Old Route 5, Buckley Road, Morgan Road and Liverpool Bypass, the reconstruction of the Factory Avenue at LeMoyne Avenue intersection, the rehabilitation or replacement of the Warners Road Bridge over the Finger Lakes Railroad, Willis Avenue Bridge over the CSX Railroad and Buckley Road Bridge over the CSX Railroad are scheduled in the upcoming years.

DEPARTMENT: TRANSPORTATION

Project: Cold Mix Bituminous Paving

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Ongoing

Budget Code: 060502

Budget Impact: \$0

Project Description:

Repaving of the 375 miles of secondary County roads on a rotating basis.

Project Cost Summary:

FUNDING SOURCE:	Pre-2007	2007	2008	2009	2010	2011	2012	6yr Total	Total:
Borrowing to be Authorized		2,320	2,320	2,230	1,790	1,300	800	10,760	10,760
Authorized Borrowing	2190							0	2,190
County Tax Revenues			160	250	690	1,180	1,680	3,960	3,960
State Aid	210							0	210
TOTALS	2,400	2,320	2,480	2,480	2,480	2,480	2,480	14,720	17,120

Project Detail and Status:

All funding is in 2006 dollars. This cold mix bituminous paving is an asphalt overlay designed for low-volume County highways and is intended to reduce maintenance costs on highways too badly deteriorated to benefit from a surface treatment application. The cold mix is laid with a paving machine, and then a surface treatment is applied. The current funding level for 2006 allows for 15 miles of paving. The ideal treatment cycle for cold mix bituminous paving is once every 20 years. To meet a 20 year paving cycle the Department of Transportation would need to pave 18.75 miles each year. The proposed schedule maintains a 16 mile per year program.

DEPARTMENT: TRANSPORTATION

Project: Guide Rail

Purpose: Public/Employee Safety/Health, Maintain Existing Investment

Level of Development: Ongoing

Budget Code: 060504

Budget Impact: \$0

Project Description:

Install guide rail at various locations on County highways.

Project Cost Summary:

FUNDING SOURCE:	Pre-2007	2007	2008	2009	2010	2011	2012	6yr Total	Total:
County Tax Revenues	0		390	400	410	420	430	2,050	2,050
State Aid	370	380						380	750
TOTALS	370	380	390	400	410	420	430	2,430	2,800

Project Detail and Status:

All funding is in 2006 dollars. Guide rail has been used extensively in the last 30 years as a means to protect the traveling public from roadside hazards. This program is an ongoing annual program that will upgrade existing guide rail and provide for the installation of new guide rail at various locations on County highways to improve safety and reduce liability where road-side hazards are impossible or too costly to eliminate. Costs for guide rail replacement have increased since the New York State Department of Transportation now requires the usage of box beam type of guide rail. Costs shown reflect the additional cost to upgrade existing "W" beam rail with "Boxbeam" rail.

DEPARTMENT: TRANSPORTATION

Project: Rehabilitate North Area Maintenance Facility (NEW)

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Preliminary

Budget Code: 06511

Budget Impact: \$0

Project Description:

Replace the roof of the North Area Maintenance Facility and perform other structural and mechanical repairs in order to extend the life of this facility and comply with various code requirements.

Project Cost Summary:

FUNDING SOURCE:	Pre-2007	2007	2008	2009	2010	2011	2012	6yr Total	Total:
Borrowing to be Authorized	0	2,200	2,600	2,600	2,600			10,000	10,000
TOTALS	0	2,200	2,600	2,600	2,600			10,000	10,000

Project Detail and Status:

The majority of the existing main roof of this facility is 40 years old. Numerous patches have been made. A 1999 engineering study recommended total roof replacement in 2001. This study has been updated and the project can be commenced in 2007. A preliminary study has estimated the cost of other structural repairs as well as the cost of repairs in mechanical, electrical, plumbing and other systems of the building. Another detailed study will accurately estimate the above costs.

DEPARTMENT: TRANSPORTATION

Project: Repaving Program (Hot Mix Bituminous)

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Ongoing

Budget Code: 060501

Budget Impact: \$0

Project Description:

Repaving of major, high volume County roads to maintain our investment in the transportation system.

Project Cost Summary:

FUNDING SOURCE:	Pre-2007	2007	2008	2009	2010	2011	2012	6yr Total	Total:
State Aid	3555	3,760	3,760	3,760	3,760	3,760	3,760	22,560	26,115
County Tax Revenues	1463	1,918	2,630	3,180	3,365	3,365	3,365	17,823	19,286
Borrowing to be Authorized	845	610	195	0	0	0		805	1,650
TOTALS	5,863	6,288	6,585	6,940	7,125	7,125	7,125	41,188	47,051

Project Detail and Status:

All funds are in 2006 dollars. This ongoing program, which began in 1978, is designed to protect the County's investment in 428 centerline miles, equating to 477 two lane equivalent highway miles of higher-type roads. Highways are selected based on pavement condition, traffic volumes, truck traffic, structural integrity, and ride ability. State-of-the-art pavement management techniques are utilized to provide a roadway with acceptable ride ability at minimal cost.

Highways should be repaved every 10 years to prevent accelerated and costly deterioration of the roadway. In 2006 the plan is to pave 38 miles. The project's proposed funding increase in the outer years would enable the department to near the optimal annual paving target of 48 miles, beginning with nearly 40 miles in 2007 and escalating to 46 miles in 2012.

DEPARTMENT: TRANSPORTATION

Project: Traffic Systems Management

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Ongoing

Budget Code: 060503

Budget Impact: NA

Project Description:

Traffic System improvements on County highways.

Project Cost Summary:

FUNDING SOURCE:	Pre-2007	2007	2008	2009	2010	2011	2012	6yr Total	Total:
Borrowing to be Authorized	350	735	435	195	110	75	75	1,625	1,975
TOTALS	350	735	435	195	110	75	75	1,625	1,975

Project Detail and Status:

This program provides funds to upgrade various County highway intersections to improve traffic flow and safety. Highway capacity and safety can be increased at minimal cost on many County roads through intersection improvements. These projects are identified through our ongoing traffic count program, or through the use of the Computerized Local Accident Surveillance System (CLASS). Types of work included in this classification are:

- Traffic signal installation or modification.
- Addition of turning lanes at an intersection.
- Complete intersection reconstruction including signals, adequate lanes, paving, striping, roadside hazard elimination, etc.

All funding is in 2006 dollars. The program will need to be downgraded over the next five years due to overall funding limits.

All funding is in 2006 dollars. The program will need to be downgraded over the next five years due to overall funding limits.