

St. Clair County Road Commission

2010 ANNUAL REPORT



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- *About our cover: top left - installing snow fence; top right - Palms Road Culvert; bottom right - Gibbons Road culvert replacement; bottom left - snow plowing*

index

ROADS

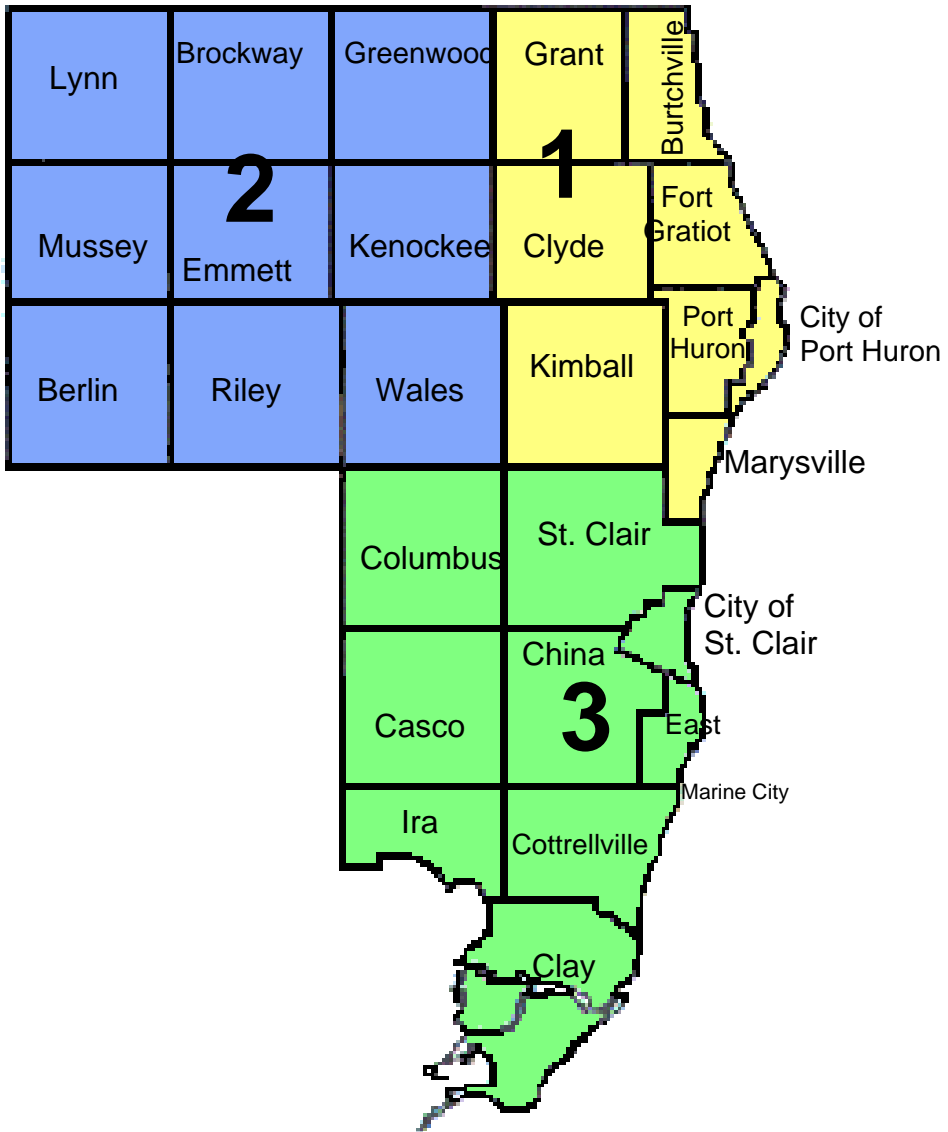
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MISSION STATEMENT

“The St. Clair County Road Commission is dedicated to providing effective, efficient and responsive services within available financial resources.”





St. Clair County Board of Road Commissioners



Timothy LaLonde
2010 Chairman

Mr. LaLonde was appointed to the board in 2003, and reappointed in 2009. He had previously served from 1995-2000. He represents the southern portion of the county (District 3) which includes the townships of Columbus, St. Clair, Casco, China, East China, Ira, Cottrellville, and Clay.

William Blumerich
2010 Vice- Chairman

Mr. Blumerich was appointed to the board in 1997 and then reappointed in 1999 and 2005. He represents the northwestern portion of the county (District 2) which includes the townships of Lynn, Brockway, Greenwood, Mussey, Emmett, Kenockee, Berlin, Riley and Wales.



Kenneth Foerster
Commissioner

Mr. Foerster was appointed to the board in 2001 and reappointed in 2007. He represents the northeastern portion of the county (District 1) which includes the townships of Grant, Burtchville, Clyde, Fort Gratiot, Kimball and Port Huron.

April 5, 2011

Board of County Commissioners of the County of St. Clair
St. Clair County Administrative Office Building
2003 Grand River - Suite 201
Port Huron, Michigan 48060

Honorable County Commissioners:

The Board of County Road Commissioners of St. Clair County, in compliance with applicable state statutes, takes pleasure in submitting to you and the people of St. Clair County our Ninety-seventh Annual Report for the year ending December 31, 2010.

Included in our 2010 Annual Report is a view of our activities relating to the construction and maintenance of roads, bridges, and other information, which we believe to be of interest to you and the general public. Additional financial information is available as part of our Comprehensive Annual Financial Report (CAFR), as compiled by the firm of Stewart, Beauvais & Whipple, Certified Public Accountants, and is available for inspection in the Road Commission's Central Service Center, 21 Airport Drive, St. Clair, Michigan or by visiting our web-site www.sccrc-roads.org.

The Forty-eighth Annual Report of the Department of Public Works is also included.

Respectfully submitted,

BOARD OF COUNTY ROAD COMMISSIONERS
OF THE COUNTY OF ST. CLAIR

William L. Blumerich, 2011 Chairman



Kirk D. Weston

Managing Director

As Managing Director, Mr. Kirk Weston oversees all activities of the Road Commission and DPW and is responsible for all county road maintenance work accomplished in St. Clair County. Included among his responsibilities are building and grounds maintenance, equipment maintenance, safety services, and various road maintenance functions for the Michigan Department of Transportation.

2010 Report of Annual Activities

Throughout 2010, the Road Commission sought ways to meet the challenges raised by the current economic climate. One innovation was the choice of First Vehicle Services as the provider of fleet maintenance services. Their ability to provide this service not only for the Road Commission but for St. Clair County agencies contributed to cost-savings for the Road Commission and provided the county with a centralized program to better track and evaluate vehicle needs and expenses.

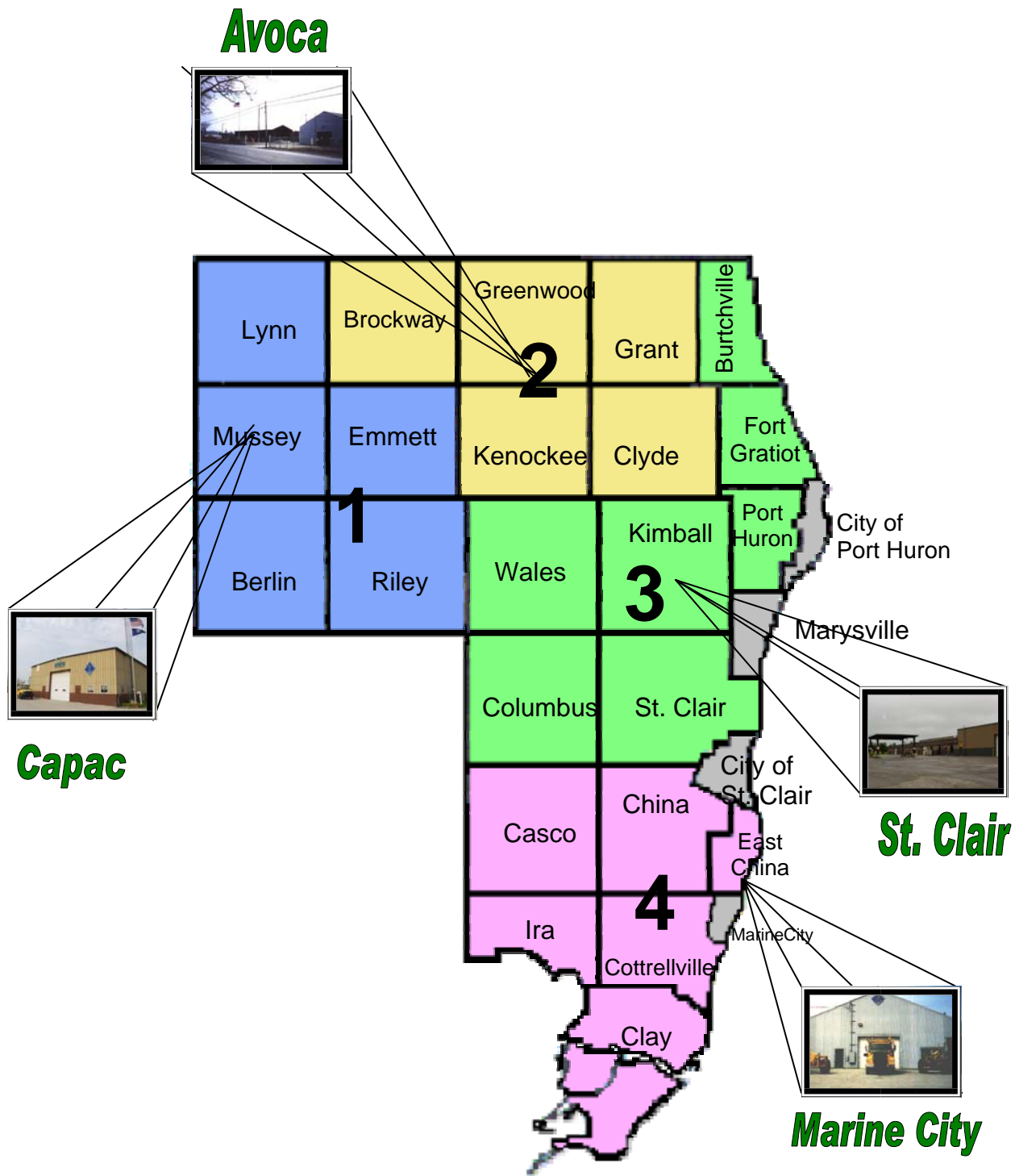
2010 saw the start of construction on the Wadhams Road Bridge over the Black River. Funding for this project was a complex effort, and required the combined efforts of the townships, Road Commission, county, state and federal entities to secure. We are confident that the many years of planning for this project will result in a structure that will serve the county's transportation system today and into the future.

Property acquisition for the CN Grade Separation/NAFTA Corridor project began in 2010. This is another project that has depended upon our partnerships with local, state and federal agencies, and that will be of great benefit to the area's residents.

The Road Commission remained committed to its relationship with the county's twenty-three townships. The annual appropriation from the county funded the Township Match Money Program, a vital resource for the maintenance of the local road system. The Local Road Funding Assistance Program was continued, with four townships joining with the Road Commission on six projects totaling \$717,180. Also in 2010 the replacement of Speaker Road Bridge in Lynn Township was completed.

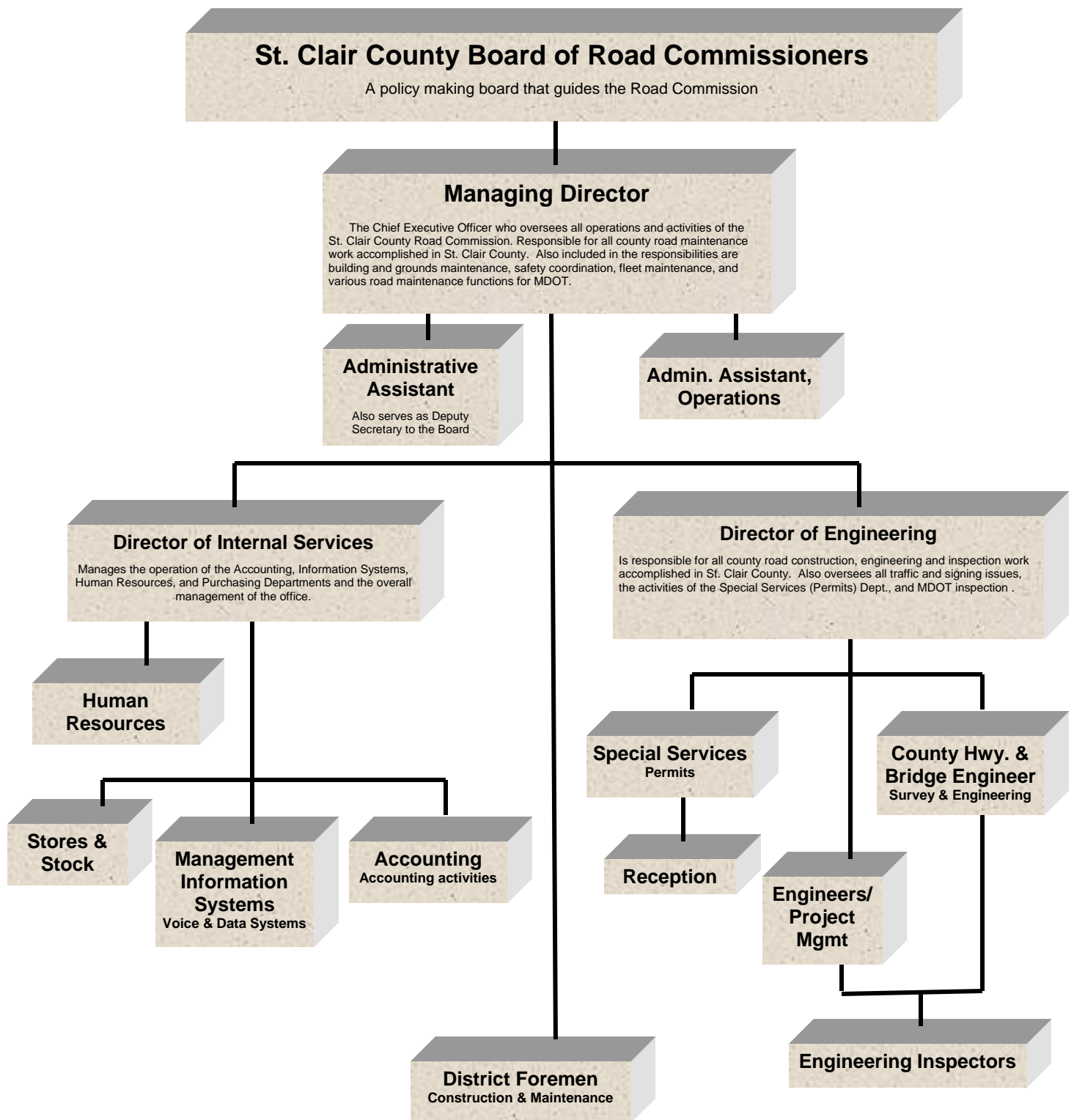
We must acknowledge the continued commitment of our employees to maintain the level of service for the public, and thank local officials who recognized the importance of a viable transportation system to the area's economy, security and quality of life. We at the Road Commission intend to continue this dedication to service displayed in 2010 as we prepare to face future challenges in maintaining the area's transportation system.

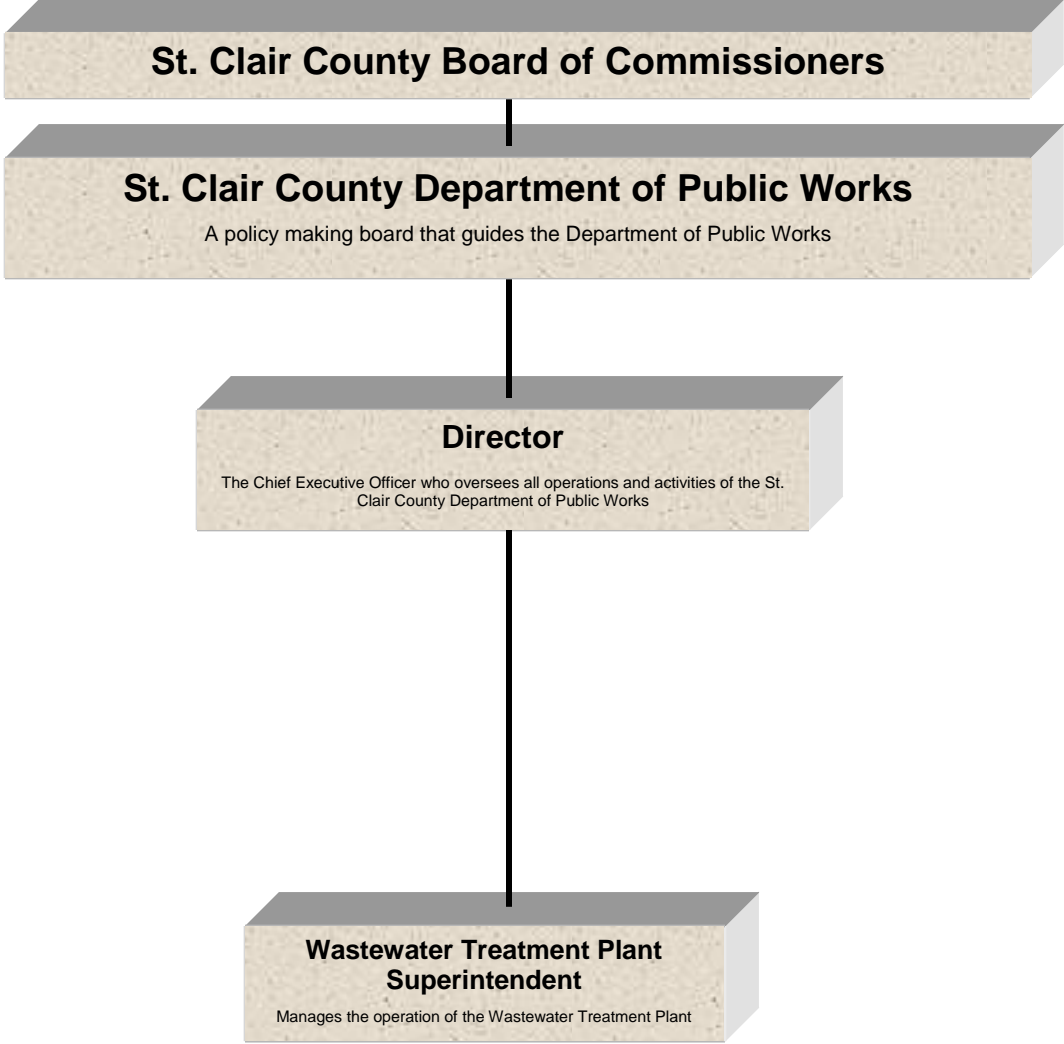
Kirk D. Weston
Managing Director
March 1, 2011



Road Commission service districts, including locations of district warehouses.

organizational chart





HISTORY OF THE ROAD COMMISSION

Road Commissions in Michigan are created and funded by State Law as independent governmental entities charged with the responsibility of maintaining a road system reasonably safe for the motoring public.

The first meeting of the St. Clair County Board of Road Commissioners was held in Port Huron Michigan on Wednesday, June 18, 1913.

We are directed by a three-member policy-setting board. One board member is appointed every two years to a six year term by the St. Clair County Board of Commissioners. The Road Commission Board also serves as the County Board of Public Works.

The Road Commission's largest source of revenue is the Michigan Transportation Fund derived from motor fund taxes, vehicle registration and license fees. Other major sources of revenue include a contract with the Michigan Department of Transportation to maintain State Highways within the County, contributions from the County's 23 townships, and an annual appropriation from the County Board of Commissioners.

The organization is divided into four districts with the Administration and main garage located at the Central Service Center in St. Clair Township, and three sub-garages located in Capac, Avoca, and Marine City. The Road Commission & DPW employ approximately 92 people.



Speaker Road Bridge

BOARD MEETINGS



The members of the St. Clair County Board of Road Commissioners are appointed by the St. Clair County Board of Commissioners for six-year terms. These members also serve as the Board of Public Works. In his board capacity, the Chairman of the Road Commission also serves or appoints a representative on the Parks & Recreation Commission and on the County Retirement Board.

The Road Commission holds two regularly scheduled meetings per month, on the first and third Tuesday. In compliance with state and federal laws, public hearings are held, normally in conjunction with a regular board meeting. Meetings are held at the Road Commission's Central Service Center, and, in order to provide greater access to the public, the second meeting of the month from late spring to early fall is held in local township halls. In 2010, the following townships hosted meetings of the DPW and Road Commission Boards:

➤ EAST CHINA ➤ GRANT ➤ EMMETT ➤ COTTRELLVILLE ➤ CHINA ➤ MUSSEY

The Road Commission holds Public Hearings as required. In 2010, one Public Hearing was held for the Annual DPW and Road Commission Budgets.

Also in 2010, a Public Informational Meeting on the Wadhams Road Bridge was held in Kimball Township.

The Road Commission annually hosts meetings with all the township boards. These meetings allow the Road Commission and the townships to share information and to plan jointly for the needs and requirements of the county local road system. In 2010, these meetings were held in February.

The Township Roads and Bridges Advisory Committee is made up of representatives from ten townships, with membership rotating among the twenty-three townships county-wide. The Committee provides township input and insight on local transportation issues and concerns. The TAC meeting is held quarterly at the Road Commission's Central Service Center. In 2010, the ten member townships were: China, Clay, Cottrellville, East China, Fort Gratiot, Grant, Greenwood, Kimball, Port Huron, and St. Clair.

Michigan Department of Transportation

The Michigan Department of Transportation has a contract with the Road Commission for the maintenance of 261 miles of state highways and freeways throughout the county. During 2010, MDOT reimbursed the Road Commission for all routine charges in the amount of \$4,257,854. Routine maintenance items include fabrication and installation of various signs on the trunk line system; traffic control and road clean up from traffic accidents; and miscellaneous concrete patching and joint repair.

In addition to routine maintenance, major work projects performed by Road Commission employees under special work authorizations included the following:

- Provided moving lane closures for the region's soil boring crew
- Applied chloride on detour for M-25 from M-136 north to Fisher Road
- Resurfaced the carpool parking lot located along I-69 at Capac Road
- Performed overband crack sealing on M-29 from County Line Road to Palms Road
- Repaired/realigned the septic tank drain line at the Adair Rest Area



St. Clair County Road System

The maintenance of county roads is the primary concern of the St. Clair County Road Commission. The system totals 1,552 miles with 224 bridges, and includes 495 miles of primary roads and 1,057 miles of local roads. Maintenance costs for these roads and bridges in 2010 amounted to \$4.03 million for primary roads and bridges and \$5.31 million for local roads and bridges, including match money work.

In 2010, the following major work items were accomplished on all systems:

- 159,576.46 tons of gravel and limestone hauled
- 3,028,372 gallons of chloride used
- 18,188 tons of salt used, due to a total of 30.1 inches of snow and 16 storm days

Under the Surface Preservation Program, the following work was achieved:

- Bauman Road from Gratiot Road to Crawford Road – crack filling
- Bordman Road from the west Memphis City Limits to Deland Road – 1½” overlay
- Brott/Imlay City Roads at Abbotsford Road – wedging
- Burtch Road from M-25 to North Road – wedging
- Dunigan/Bryce Roads from M-19 to Quain Road – crack filling
- Fitz Road from Alpine Road to Smiths Creek Road – crack filling
- Indian Trail Road from Belle River Road to Meisner Road – 1½” overlay
- Jeddo Road from M-25 to Babcock Road – wedging
- Krafft Road from Parker Road west – crush and shape
- Lapeer Road from Kilgore Road to M-19 – crack filling
- Lapeer Road from Taylor Road to Wadhams Road – crack filling
- Marine City Highway from Hessen Road to County Line Road – crack filling
- Marine City Highway from Indian Trail Road to Starville Road – crack filling
- Marsh Road from Short Cut Road to Shea Road – wedging
- North River Road from Lightle Road to Wadhams Road – crack filling
- Range Road from Ashley Road to Gratiot Road – crack filling
- Riley Center Road from Belle River Road to Boardman – crack filling
- Smiths Creek Road from Richman Road to Fitz Road – wedging
- Vincent Road from Wadhams Road to M-136 – micro surfacing
- Wadhams Road from Dove Road to I-69 – crack filling
- Wales Center Road from Rattle Run Road to Lambs Road – wedging
- Winn Road from Yale Road to the county line – crack filling
- Yale Road from Arendt Road to Collins Road – crack filling
- Yale Road from Capac Road to Mason Road – wedging

Primary Road Heavy Maintenance Program

Primary Road Heavy Maintenance Program 2010

Road Name or Activity	Location	Miles	Cost	Type of Work
Sign Installation	County Wide	N/A	\$30,720	New sign installation
Traffic Engineering	County Wide	N/A	\$622	Traffic counts and studies
Bridge Inspections	County Wide	N/A	\$47,513	Bridge inspections
Palms	over Casco Drain, Casco Twp	N/A	\$175,088	Bridge replacement
Indian Trail	Meisner to Belle River Rd, China Twp	1.12	\$104,305	HMA ¹ Resurface
Palms	Division to Trumble, Columbus Twp	1.01	\$463,928	Crush, Shape, HMA Resurface
Krafft	Parker Rd W, Ft Gratiot Twp	0.26	\$119,480	Crush, Shape, HMA Resurface
Wadhams Road Bridge ²	over Black River, Kimball Twp	N/A	\$6,485,025	Bridge replacement
Bordman	Deland to W. Memphis Limits	1.43	\$122,343	HMA Resurface
Gratiot ³	0.2 mi E of Bartlett to Airport Drive	0.75	\$36,307	Mill & Resurface

¹Hot Mix Asphalt

²Multi-Year Project

³Funded with American Resource & Recovery Act (Stimulus) Funds



Palms Road Culvert



Wadhams Road Bridge over the Black River

Local Road Heavy Maintenance Program

Road Name or Activity	Location	Township	Miles	Type of Work
Sign Installation	County Wide		N/A	New sign installation
Traffic Engineering	County Wide		N/A	Traffic counts and studies
Bridge Inspections	County Wide		N/A	Bridge Inspections
St. Pierre/Nelly Ct/Ester Green	Off of Taft Road	Clay	0.27	HMA resurface
Collins	Krafft Road S	Fort Gratiot	0.22	HMA resurface
Spring & Sapphire	Krafft to Lake Drive	Fort Gratiot	0.39	Ultra-Thin resurface
Speaker	Over NB Mill Creek Drain	Lynn	N/A	Bridge Replacement
Alger	Lapeer N to end	Port Huron	0.53	Ultra-Thin resurface
Beach	Lapeer S to end	Port Huron	0.22	HMA resurface
Herber	Lapeer N to end	Port Huron	0.45	Ultra-Thin resurface
Hopps	Lapeer S to end	Port Huron	0.23	Ultra-Thin resurface
Mayfield/Riverwood	West Water N to end	Port Huron	0.67	Ultra-Thin resurface
Cox	Clinton to Vine	St. Clair	0.52	Ultra-Thin resurface



Speaker Road

Local Road Program Match Money



Tabulation of Quantities

Township	Aggregate Surfacing & Patching (tons)	Roadside Ditching (Feet)	Dust Layers (gallons)	Ultra Thin Surfacing (Sq.Yd)	Seal Coat Surfacing (Sq. Yd)	Culvert Projects (numbers)	Total Expenditures
Berlin	2,034	1,737	208,601			0	\$ 76,352.93
Brockway	3,813	4,150	276,231			2	\$120,577.21
Burtchville	0	550	99,068			0	\$ 49,707.68
Casco	8,171	0	90,233			0	\$141,502.52
China	20,919	0	145,139			2	\$442,974.43
Clay	2,213	0	12,000			0	\$ 98,684.56
Clyde	3,617	250	149,111			0	\$ 84,481.66
Columbus	4,264	3,400	91,325			3	\$163,117.30
Cottrellville	4,961	0	54,510			0	\$ 86,117.14
East China	1,007	0	2,000			0	\$ 43,360.59
Emmett	1,920	1,000	82,784			5	\$ 55,574.38
Fort Gratiot	2,163	0	41,513	5,429		0	\$ 90,880.83
Grant	4,671	6,100	85,525			0	\$104,609.23
Greenwood	3,908	6,550	296,713			0	\$132,784.02
Ira	3,118	0	41,015			0	\$ 72,342.95
Kenockee	3,795	2,500	91,522			1	\$ 99,334.27
Kimball	4,793	3,200	169,086			1	\$141,765.67
Lynn	3,134	0	98,045			4	\$ 54,657.34
Mussey	3,332	400	99,510			3	\$ 87,288.09
Port Huron	1,856	3,250	13,503	21,135		5	\$165,602.89
Riley	1,072	2,547	100,857			6	\$ 66,188.07
St. Clair	10,024	12,459	186,066			5	\$293,417.68
Wales	4,327	0	55,014			0	\$ 74,109.51
TOTALS	99,112	48,093	2,489,371	26,564		37	\$2,745,430.95

Local Road Funding Assistance Program



The Board of County Road Commissioners has annually approved an allocation to fund the Local Road Funding Assistance Program. This is a matching program for projects in a township that are designated as construction or heavy maintenance under the Act 51 definitions.

In accordance with board policy for this program, each project can receive a maximum of \$100,000. It can be a joint project and a township can contribute more than the \$100,000 to the match amount. A township also can submit applications for more than one project. The selection is based on the criteria formula following staff review after September 30th.

The following projects were approved through the Local Road Funding Assistance Program in 2010:

Township	Project Scope	Project Cost	Road Commission Share
China	Indian Trail - HMA Resurfacing	\$114,745	\$ 57,373
China	White Pines Subdivision - HMA Resurfacing	\$122,162	\$ 61,081
East China	Rochelle/Parkridge/Aspen Ct - HMA Resurfacing	\$100,630	\$ 50,315
Fort Gratiot	State Road S of Cole to Metcalf - Crush, Shape, Resurface	\$200,000	\$100,000
Port Huron	Atkins Rd from Clyde Twp Line to Beach - Ultra-Thin Resurface	\$ 95,886	\$ 36,886
Port Huron	Strawberry Lane from West Water N to end - Ultra-Thin Resurface	\$ 83,757	\$ 32,257
Totals		\$ 717,180	\$ 337,912

Department of Engineering

The Engineering Department directs the planning, scheduling, surveying, designing and construction of improvements on 1,550 miles of county roads and 224 county bridges.

This Department works closely with the local units of government for the improvement of local county roads and with personnel from MDOT (the Michigan Department of Transportation) for the use of federal and state funds on eligible roads and bridges. The department maintains plan and project files, right-of-way records, mileage and condition reports, bridge inventories and traffic counts, and together with the Office of Special Services (Permits), oversees the development of new subdivisions. Engineering Department personnel include the Director of Engineering, County Highway Engineer, Design Engineer, Project Manager/Engineer, Surveyor and Survey crew, Project Inspectors and Steno Technician.



R.C. Survey Crew at work.

Department of Special Services

Weight Restrictions Hot-Line Call for the latest Information (810) 388-4047

The Department of Special Services oversees the applications, inspection and issuance of permits for projects that fall under the Road Commission's jurisdiction. The permit process allows the Road Commission to establish and enforce requisite standards necessary to maintain the safety and integrity of the road system.

Due to the decrease in permitted activity in St. Clair County, the inspector from the Special Services Department has been assisting the Engineering Department. Additional duties integrated into their normal activities include updating existing traffic counts on all county roads, bridge inspection, collecting PASER ratings throughout the county road system and entering that information into the Asset Management software. This information assists in making decisions and long term plans for maintenance and construction activities.

Office personnel within the Special Services Department also perform additional duties due to a restructuring and redistribution of work within the Road Commission. Special Services personnel provide support for the Engineering Department regarding clerical duties such as road closures and the distribution of plans and specifications for new projects.

Since 2009, the duties of the receptionist have been incorporated into the Special Services Department. Those duties include answering the telephone; receiving, processing and closing citizen's service requests; greeting the public; opening and distributing the mail; processing accident reports from police agencies; and assisting Special Services personnel.

Permits issued in 2010: Right-of-Way Permits322 Special Moves..... 894 Subdivisions0

Traffic Safety



In 2010 work started on the replacement of the Wadhams Road Bridge over the Black River. Substructure work for the two southbound lanes was completed. By the end of 2010 the contractor was awaiting delivery of the steel beams. The schedule calls for completion of the entire four-lane structure by October 1, 2011. During the entire period of construction Atkins Road at Wadhams Road is closed to reduce traffic entering the construction zone and to provide an area for the contractor to store equipment and materials.

Design work and right-of-way acquisition on the Port Huron NAFTA Congestion Mitigation project continued in 2010. This project will eliminate the current highway-railroad grade crossings at Michigan, Griswold and Range Roads by realigning roads and constructing grade separations. The project has been split into two phases. Phase 1 is the construction of an overpass on Michigan Road over the railroad. Phase 2 is the realignment of Griswold and Range Roads and construction of a bridge over the railroad between Griswold and Range if sufficient funding is available.

Having been closed for three years, the Speaker Road Bridge over the South Branch of the Mill Creek Drain was replaced. This will eliminate a 2.4 mile detour for area residents as well as for emergency vehicles and school buses.

County forces replaced the following structures:

- Bridge on Palms Road over the Casco Drain in Casco Township
- Culvert on Gibbons Road over Unnamed Creek in Grant Township. Due to the size required by the Michigan Department of Natural Resources and Environment, this structure is now classified as a bridge.

The following structures were replaced as part of County Drain Commission projects:

- Bridge on Division Road over the Richmond-Columbus Drain in Columbus Township
- Bridge on Hunt Road over the Cox-Doty Drain
- Bridge on Koehn Road over the Cox-Doty Drain

Other on-going safety projects include:

- Resurfacing paved roads to provide smoother, well-marked pavements.
- Maintaining and upgrading traffic control signs and pavement markings
- Maintaining crash records for county roads
- Evaluating no-passing zone markings
- Evaluating safe curve speeds and upgrading advance warning signs as needed
- Inspecting and analyzing in-place bridges for compliance with federal and state requirements
- Obtaining permits from MDNRE for culvert replacements
- Compiling a comprehensive county-wide record of traffic counts by personnel in the Permits Department
- Inventorying and rating the surface condition of all federal-aid eligible roads in the county in accordance with state asset management requirements

Occupational Safety and Health

During 2010, employees participated in training on the following topics:

- Back Care
- Brush Chipping
- Chain Saw Safety
- Cranes, Chains and Slings
- Distracted Driving
- Driver Fatigue
- Dump Truck Safety
- Employee Awareness
- Equipment Backing
- Eye Safety
- Fire Safety
- First Aid
- Hazardous Waste Handling
- Lock Out / Tag Out
- MIOSHA Rights and Responsibilities
- Mowing
- Personal Protective Equipment
- Respirator Protection
- Traffic Control Guidelines
- Traffic Regulating
- Trenching and Shoring
- Violence in the Workplace
- Welding and Cutting
- Winter Activities

The quarterly employee newsletter included articles on the following topics:

- ◆ Dehydration
- ◆ Sun Stroke
- ◆ Equipment Backing
- ◆ Signs of Stroke



The Safety Committee consists of five permanent members. The warehouse safety representatives are temporary members; this enables more of the employees to become involved in safety efforts.

Equipment Report

The St. Clair County Road Commission currently maintains in excess of 1,000 pieces of various heavy construction and maintenance equipment at a value of approximately \$11,653,600. In 2010, the Road Commission expended \$506,213 to purchase four wing plows, one grader, three 3/4 ton pickups, three crash attenuators, one message board, one hot-mix patcher, two GPS handheld units and one sign rack carrier.

Equipment replacement is based on a comparative analysis of direct repair costs to purchaser price, and the age and condition of the various pieces of equipment. Due to the ever-increasing costs of new equipment, the Road Commission has been very diligent in its efforts to acquire quality, properly maintained, pre-owned equipment when possible.

FIRST VEHICLE SERVICES

In 2010, the Road Commission and several county agencies entered into a contract with First Vehicle Services to provide fleet maintenance services.



Department of Internal Services

The Department of Internal Services provides the Financial Accounting and Reporting, Information Systems, Purchasing, Human Resources and Office Services support for the Road Commission and the Department of Public Works. These responsibilities include:

Financial Accounting & Reporting

The accounting and financial management of the Road Commission and the Department of Public Works, following procedures and regulations as established by the State of Michigan.

The 2010 Certified Audits were conducted by the firm of Stewart, Beauvais and Whipple, Certified Public Accountants, Port Huron, Michigan. The complete audits are available for public review at the Central Service Center, 21 Airport Drive, St. Clair, Michigan.

Additional audits are performed annually by the Michigan Department of Transportation on the state trunk-line maintenance costs. In addition, all federally funded projects are audited by the U.S. Government or by its representatives.



Information Systems

All voice and data functions throughout the Road Commission and Department of Public Works.



Purchasing

The purchasing and inventory control of all materials and equipment necessary for the field operations of both agencies.



Human Resources and Office Management

Personnel records; employee insurance; liability, workers' compensation, casualty and all related insurance; pre-employment orientations; and all other duties related to office management. Also, is the coordinator of annual township meetings and employee training; handles requests under Freedom of Information Act; and acts as the liaison for legal counsel and health care providers.



Department of Public Works

The Department of Public Works was formally established by the St. Clair Board of Supervisors in April 1963. In 1980, the St. Clair County Board of Commissioners restructured the Board of Public Works and designated the Board of County Road Commissioners as the Board of Public Works. The membership was then reduced to three members, with the Managing Director of the St. Clair County Road Commission remaining as the director. The Board of Public Works members in 2010 were Chairman Kenneth Foerster, Vice-Chairman Timothy LaLonde, and Secretary William Blumerich.

A main function of the Department of Public Works is assisting local units of government in the financing and construction of various facilities. Many townships have taken advantage of this assistance to fund the construction of water and sewer projects.

The DPW continued to offer assistance to the County's Smiths Creek Landfill for their leachate disposal project. Although the project is still in its preliminary stages, it is expected to provide savings to the County and maintain the viability of the landfill.

Also in 2010, the DPW assisted the Office of the Drain Commissioner by managing the Emmett sanitary lagoon.

Waste Water Treatment Plant

The Department of Public Works also operates and maintains a 2.7 million gallon waste water treatment plant (WWTP) which serves the communities of Clay Township, Ira Township and the City of Algonac. The WWTP Superintendent and operators are employed by the St. Clair County Road Commission and assigned to the Waste Water Treatment Plant based on their responsibilities and certifications as respective operators. All associated expenses for the improvement, maintenance and operation of the Waste Water Treatment Plant are the responsibility of the three municipalities of Ira Township, Clay Township and the City of Algonac.

Over the past few years, many improvements have taken place at the Waste Water Treatment Plant, including: re-construction of two pumping stations, installation of individual flow meters, extension of the outfall further into the North Channel of the St. Clair River, construction of a new sludge storage facility, and installation of the trickling filter system to replace the bio-disk system. The trickling filter system allows an ultimate 4.0 million gallons per day capacity. Throughout 2010, staff performed various maintenance tasks to keep the plant working at its optimum capacity.



Department of Public Works

Water Systems Projects

<u>Projects</u>	<u>Grants</u>	<u>Bond Issue</u>	<u>Project Cost</u>	<u>Balance</u>
Fort Gratiot Twp	WD I..... \$ 1,037,000.....	\$ 2,215,000	\$ 3,252,000	\$ -0-
	WD I - '70	210,000	210,000	-0-
	WD I - '71	175,000	175,000	-0-
	WD I - '72	165,000	165,000	-0-
	WD I - '75 120,000*.....	600,000	720,000	-0-
	WD I - '79	665,000	665,000	-0-
East China Township	WD III.....	950,000	950,000	-0-
SCC Air Industrial Park	WD VI.....	2,501,000.....	741,000*	3,242,000
Kimball Township	WD VI - '77	325,000.....	450,000	
	.....	15,000*	790,000	-0-
	WD VI - '90	1,090,000	1,090,000	-0-
Clay Township	WD II-A - '92	250,000	250,000	-0-
Vacumet, Inc.	.....	710,000		
	.....	1,877,316*	2,588,159	-0-
Clay Township	WD II-A - Mainland.....	2,200,000	2,200,000	620,000
City of Yale	WD VIII.....	430,000	430,000	-0-
Ira Township	WD VII.....	5,280,000	5,280,000	2,790,000
	WD VII - '95 -'03A Refunding	3,200,000	3,200,000	1,025,000
	WD XI.....	4,486,546**	4,486,546	3,996,954
Burtchville Township	WD IX.....	6,375,000	6,375,000	-0-
	WD IX - '98	995,000	995,000	-0-
	WD IX - '04 Refunding	2,740,000		1,410,000
	WD IX - '00	2,225,000	2,225,000	-0-
City of Algonac/Clay	WD X.....	7,900,000 **	7,900,000	4,000,600
East China/China	WD III - '99	8,425,000**	8,425,000	4,735,000
Harsens Island (Clay Twp)	WD II - '00	6,175,000	6,175,000	3,250,000
Cottrellville Township	WD XII - '08	1,460,250	1,460,250	1,350,000
	WD XIIA - '09	2,425,000	2,425,000	2,375,000
	.....	\$ 6,570,316	\$ 61,842,796	\$ 65,673,955
				\$ 25,552,554

* Local contributions

** Drinking Water Revolving Fund

Department of Public Works

Sewer Systems Projects

Projects	Grants	Bond Issue.....	Project Cost	Balance
Fort Gratiot Township				
SD VI	\$ 1,000,000	\$ 6,300,000	\$ 7,300,000	\$ -0-
81 ('83) extensions	275,000	400,000	775,000	-0-
.....	100,000*			
East China Township				
SD III.....		725,000.....	725,000	-0-
SD III (II)	105,420	1,180,000.....	1,285,420	-0-
City of Algonac				
SD I	1,170,737	2,680,000.....	3,850,737	-0-
Cottrellville Township				
SD IV	201,099	1,215,000.....	1,416,099	-0-
Kimball Township				
SD IX	2,340,000	2,150,000.....	4,490,000	-0-
China/East China Townships				
SD III (Plant & Sewers)	6,890,410	2,300,000.....	9,190,410	-0-
City of Algonac, Ira Township & Clay Township				
SD I	13,921,700	7,418,300.....	21,340,000	-0-
St. Clair Township				
SD V.....		1,210,000.....	1,210,000	-0-
Kimball Township				
AIP Extensions.....	715,000		715,000	-0-
Village of Capac				
SD X.....	680,000	780,000.....	1,460,000	45,000
SD X - '04 Refunding		470,000.....		75,000
City of Yale				
SD XI		400,000.....	400,000	-0-
SD XI - '93 Series	2,916,488		2,916,488	440,000
St. Clair Township				
SD V - '93 Series		695,000.....	695,000	-0-
City of Algonac, Ira Township, & Clay Township				
SD I - '99 Series Outfall Pump Stations.....		2,160,000.....	2,160,000	470,000
Village of Capac				
2000 Series		800,000.....	800,000	505,000
City of Algonac, Ira Township & Clay Township				
SD I - '02 Series	711,865 *		711,865	-0-
Sludge Storage Facility	*Local Contributions			
City of Algonac, Ira Township & Clay Township				
SD I - '03 Series (Demolition of Bio-Disk/Install Trickling Filter)		3,000,000.....	3,000,000	2,265,000
Total:	\$ 31,027,719	\$ 33,883,300.....	\$ 64,441,019	\$ 3,800,000