

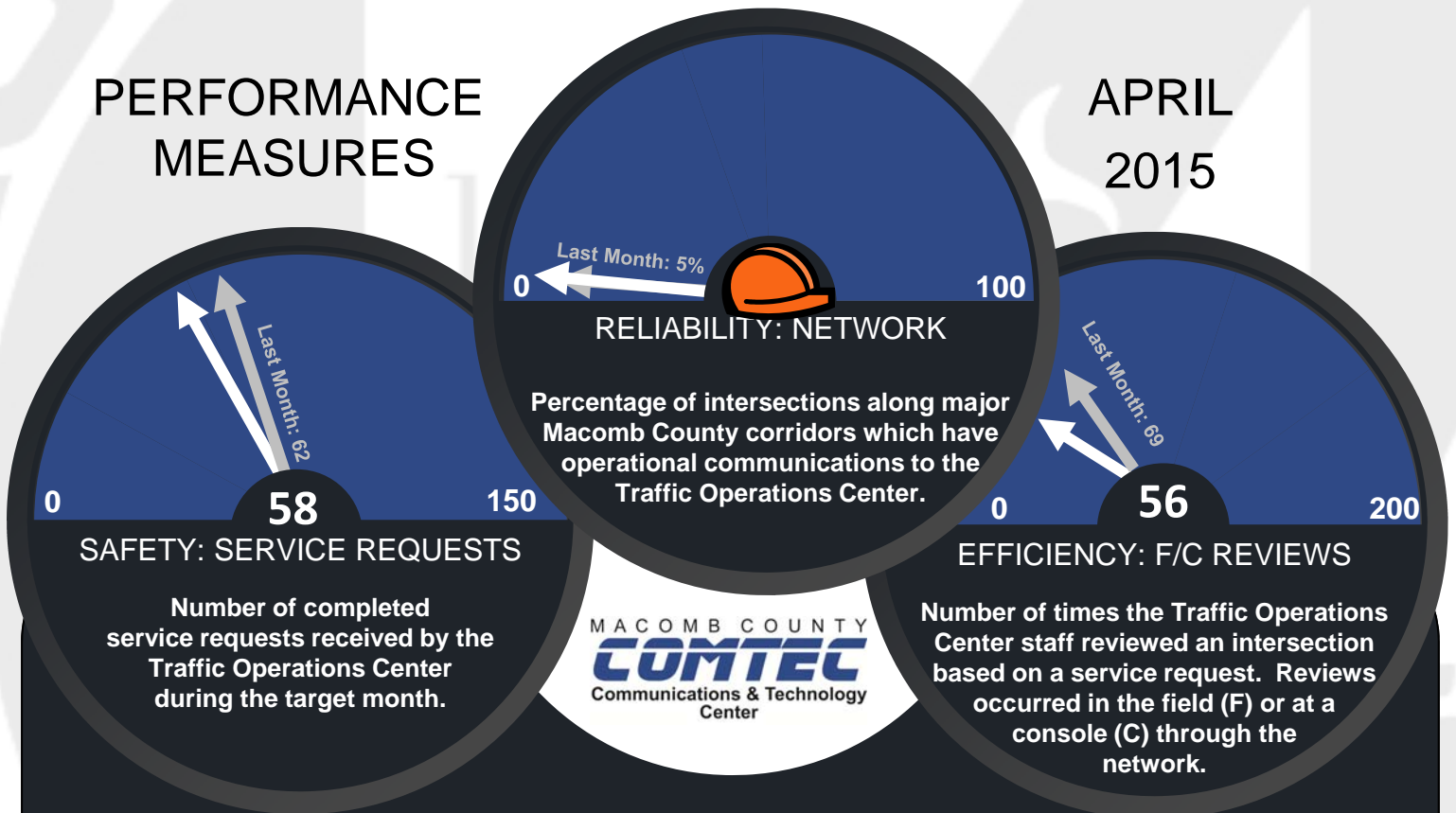
# MACOMB COUNTY DEPARTMENT OF ROADS

## TRAFFIC OPERATIONS CENTER

"To provide and maintain a reliable real-time traffic operations system, in coordination with county stakeholders, that enables a safe, efficient, and informative travel experience."

### PERFORMANCE MEASURES

APRIL  
2015



### INFORMATIVE: TOC HIGHLIGHTS



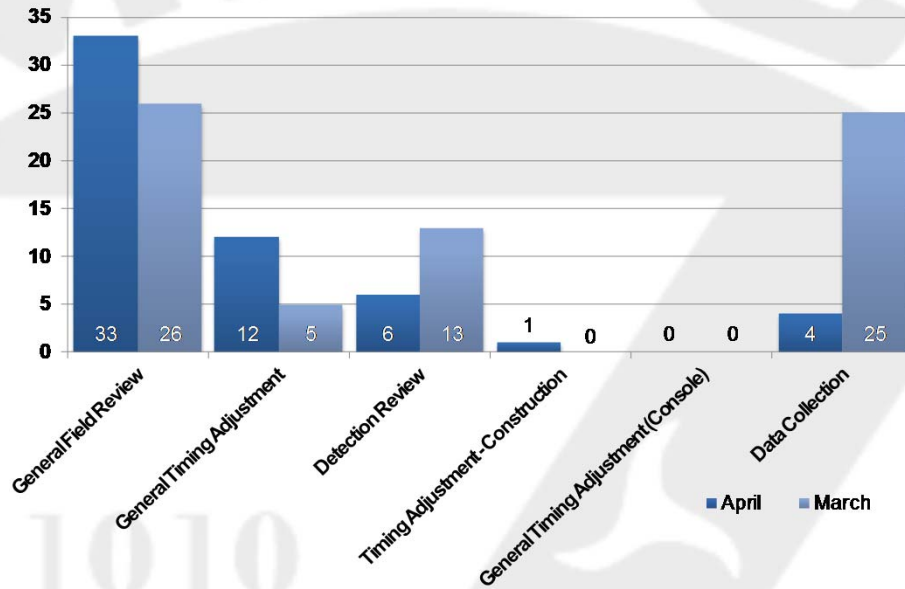
As reflected in the reliability network gauge above and throughout the report, Macomb County Department of Roads (MCDR) is undergoing an extensive upgrade of its communications system. Once this project is completed, the Traffic Operations Center (TOC) will have a more enhanced, reliable, and robust communications network. Of the network still available, the TOC has accomplished a 100% network reliability.

The MCDR TOC control room was staffed on Saturday, April 25, 2015 with two operators. The two operators monitored vehicular and pedestrian traffic surrounding the "2015 Let's Move Festival" throughout the Macomb County jurisdictions of Mount Clemens, Clinton Township and Harrison Township. The TOC and the Sheriff Department staff worked in coordination with one another in real time during the live event as well as conducting an after action meeting to discuss best practices implemented this year and improvements needed for next year's event.



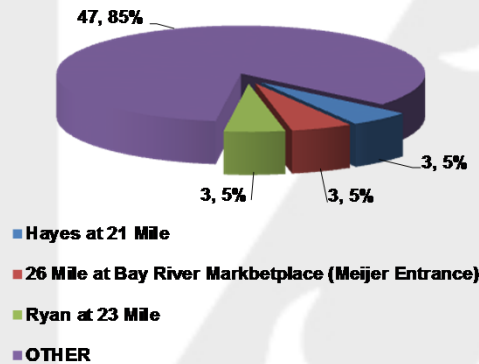
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## Field/Console Reviews Completed



Compilation of the general field/console review types completed by the Traffic Operations Engineers. Field/console reviews are assigned after a public/stakeholder concern warrants an investigation. Reviews are either conducted in the field or at an Operator console through a network connection.

## Service Requests By Intersection



Motorists and public agencies contact the TOC to provide feedback on intersection functionality. This month, the intersections where TOC engineers focused attention to address the feedback were Hayes at 21 Mile, 26 Mile at Bay River Marketplace (Meijer Entrance) and Ryan at 23 Mile.

TOC engineers conducted field reviews along 21 Mile between Hayes and Garfield to review optimized timing coordination.

TOC engineers and electrical staff conducted detection reviews at 26 Mile and Bay River Marketplace for optimal operations.

A TOC engineer adjusted the left-turn traffic pattern to increase safety at Ryan and 23 Mile based on a motorist's concern.

## Executed Roadway Upgrades

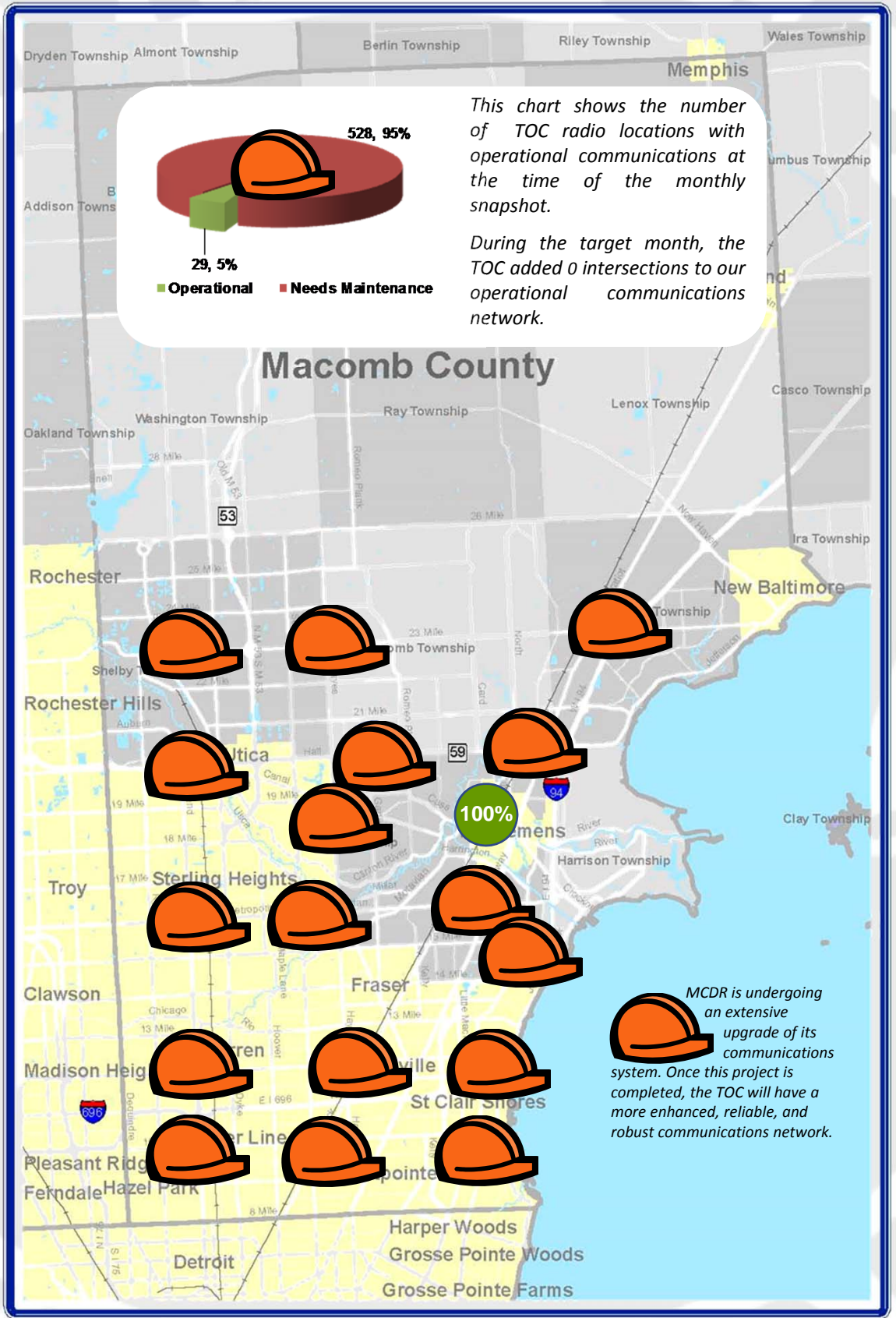
Date	Intersection Identification	Organization	Upgrade
04/13/2015	256: Little Mack at 13 Mile	MCDR	Remove Pedestrian signals and crossings

Tracks the roadway upgrades executed in Macomb County, including those done by other transportation agencies, also lists a description of the upgrade performed.

# Regional Communications Summary

ITS MAINTENANCE

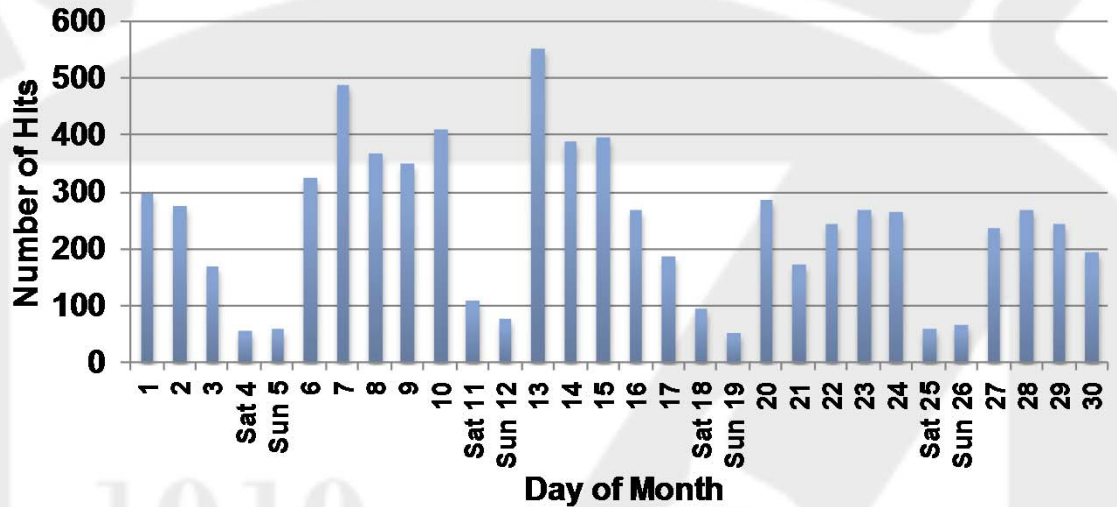
APRIL 2015



Macomb County maintains 18 communications hubs which transmit data between the Traffic Operations Center and regions of traffic signal controllers across the County. The numbers above represent a one-time monthly snapshot of operational communication to each region. Regions considered to have operational communications (80% or above) are shown in green, while regions found not to have operational communications (<80%) at the time of the snapshot are shown in red.



## MCDR Website Hits



Combined website hits accrued at the <http://www.rcmcweb.org/> and the new <http://roads.macombgov.org/>.

## County Corridor Communications Availability



Corridor	Current Month	Previous Month	Change
9 Mile	0%	0%	0%
10 Mile	0%	0%	0%
I-696 Service Drive	0%	0%	0%
12 Mile	0%	0%	0%
14 Mile	0%	0%	0%
15 Mile	0%	0%	0%
Metro Parkway	0%	0%	0%
Hall (M-59)	0%	0%	0%
Dequindre	0%	0%	0%
Ryan	0%	0%	0%
Mound	0%	0%	0%
Hoover	0%	0%	0%
Schoenherr	0%	0%	0%
Gratiot (M-3)	17%	17%	0%
Harper	0%	0%	0%

The table above represents a one-time monthly snapshot of communications along major corridors in Macomb County. Corridors which are considered to have operational communications (80% and above) are shown in green, while corridors found not to have operational communications (<80%) at the time of the snapshot are shown in red.



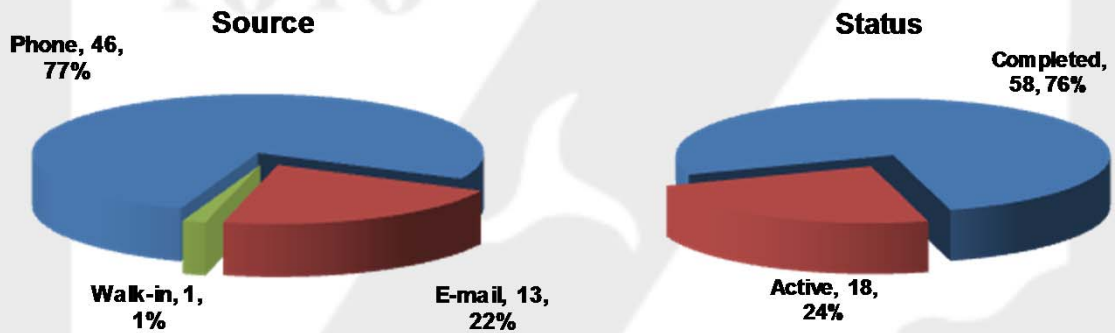
MCDR is undergoing an extensive upgrade of its communications system. Once this project is completed, the TOC will have a more enhanced, reliable, and robust communications network. Of the network still available, the TOC has accomplished an average of 90% network reliability.

## Frequent Crash Locations

Jurisdiction	Intersection Identification	Crashes
Sterling Heights	15 Mile At Ryan	12
Warren	Van Dyke (M-53) at 11 Mile (WB I-696 Service Drive)	10
Sterling Heights	Hall (M-59) at Hayes	9
Roseville	Groesbeck (M-97) at 12 Mile	8
Clinton Township	Hayes at 19 Mile	8
Shelby Township	Schoenherr at 23 Mile	8
Center Line	Van Dyke (M-53) at 11 Mile (EB I-696 Service Drive)	7
Warren	Ryan at 14 Mile	7
Sterling Heights	Schoenherr at Plumbrook	7
Fraser	Utica at 15 Mile	6
Fraser	Groesbeck (M-97) at Utica	6

Utilizing crash data from Michigan State Police, the top ten intersections by number of crashes.  
 Note: the crash data is from March 2015 due to delayed availability of data.

## Customer Service Communications



Source of service requests taken by Traffic Operations Center staff during the target report month.

Status of all service requests closed by Traffic Operations Center staff through the end of the month.

## Major Construction and Maintenance

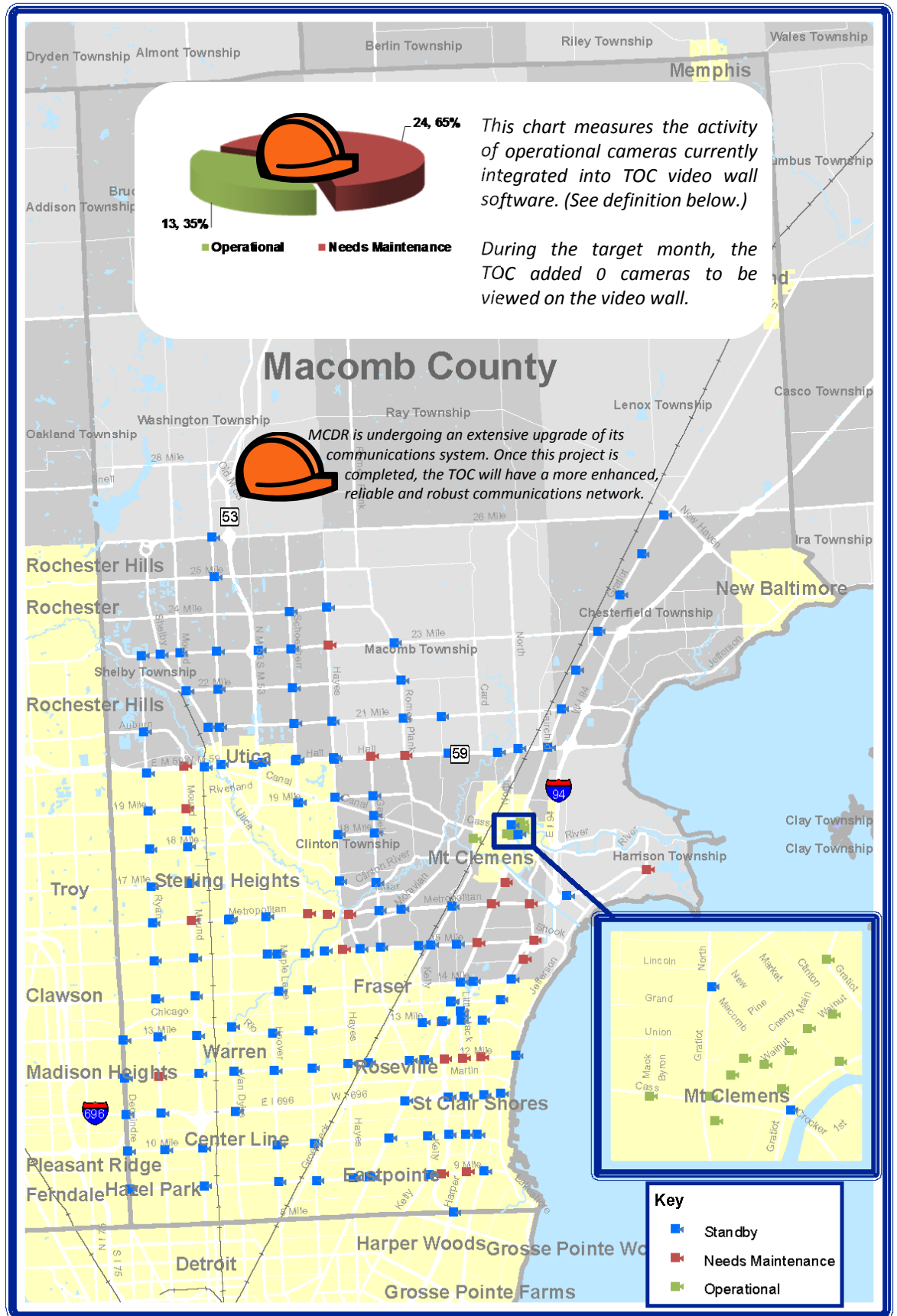
Project Parameters	Start Date	Approximate Completion Date	Location(s)
Construction	07/07/2014	08/01/2015	Hayes between 21 Mile and 23 Mile
Construction	10/29/2014 updated 04/22/2015	To be determined	24 Mile between Mound and Van Dyke
Construction	02/20/2015	08/01/2015	34 Mile between Campground and Fisher
Construction	03/26/2015	To be determined	32 Mile between Powell and Romeo Plank
Construction	04/13/2015	07/01/2015	Mound between 19 Mile and Hall (M-59)

Out of the many projects that occur on Macomb County roads, these projects potentially have the most impact to motorists.

# Current Camera Locations

# CAMERA COVERAGE

APRIL 2015



Cameras currently deployed and under Macomb County Department of Roads jurisdiction.

Cameras considered operational were available 80% of the target month.

Cameras needing maintenance were available for less than 80% of the target month.

Cameras in "Standby" have not yet been integrated into TOC video wall software.

