

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."
- MCDR TOC Mission Statement*

PERFORMANCE MEASURES



April 2021

AECOM

WSP

**INTEGRAL
BLUE**



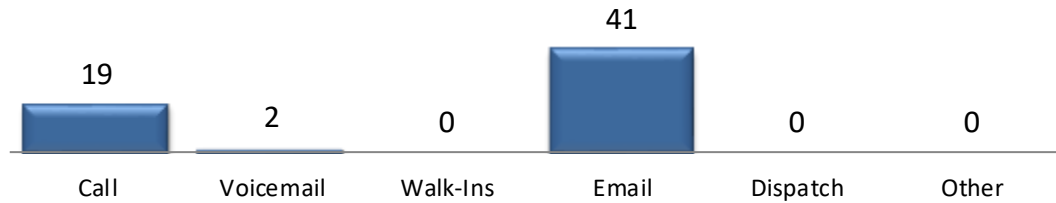
John Abraham, PhD, PE, PTOE
Director of Traffic & Operations
Macomb County Department of Roads
117 S Groesbeck Hwy
Mount Clemens, MI 48043
586-463-8671
JAbraham@RCMCWeb.org

MONTHLY TOC HIGHLIGHT

In April, our Traffic Operations Center Information Technology/Intelligent Transportation Systems group and contractors completed the fieldwork portion of the Virtual Local Area Network (VLAN) project. This project improves the performance of the County network and implements the latest network security protocols. The VLAN project will be a great asset in terms of network security and usability.

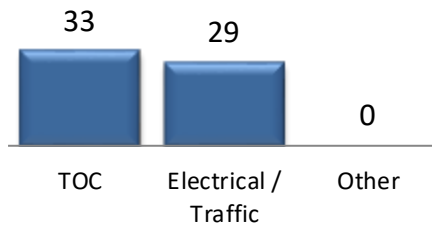
SERVICE REQUESTS

Service Request Source



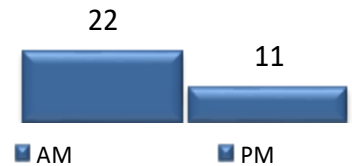
In the month of April, 62 incoming requests regarding traffic signals were received.

Service Request by Dept.

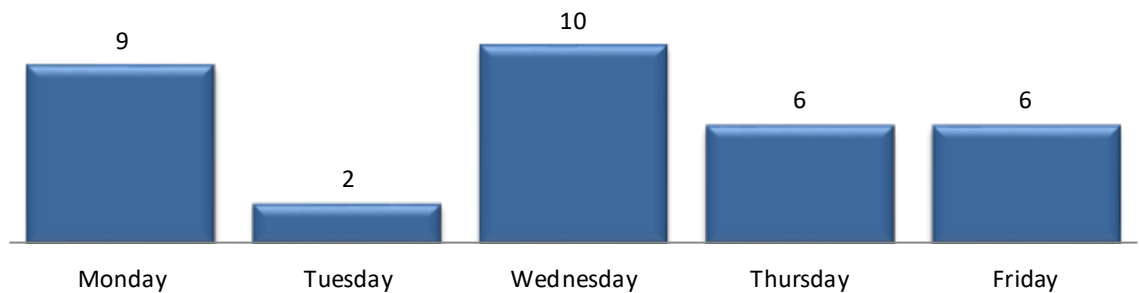


In the month of April, TOC engineers closed 27 service requests within an average of 5 business days.

TOC by Time of Day



Service Request Per Day of Week



TRAFFIC OPERATIONS

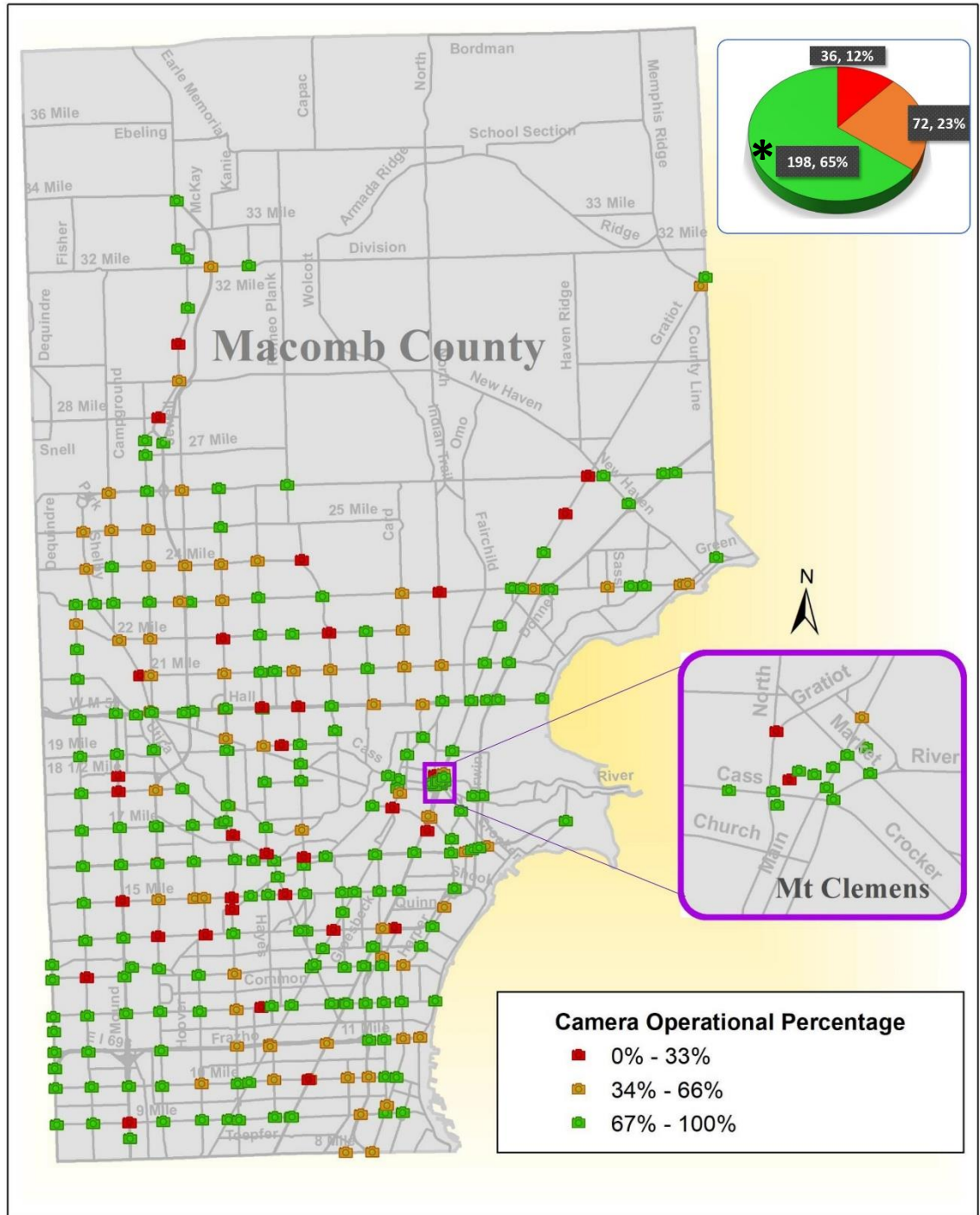
April 2021



CCTV TRAFFIC CAMERA SUMMARY

CAMERA COVERAGE

April 2021



The map above represents the CCTV camera operational percentages for the month of April 2021.

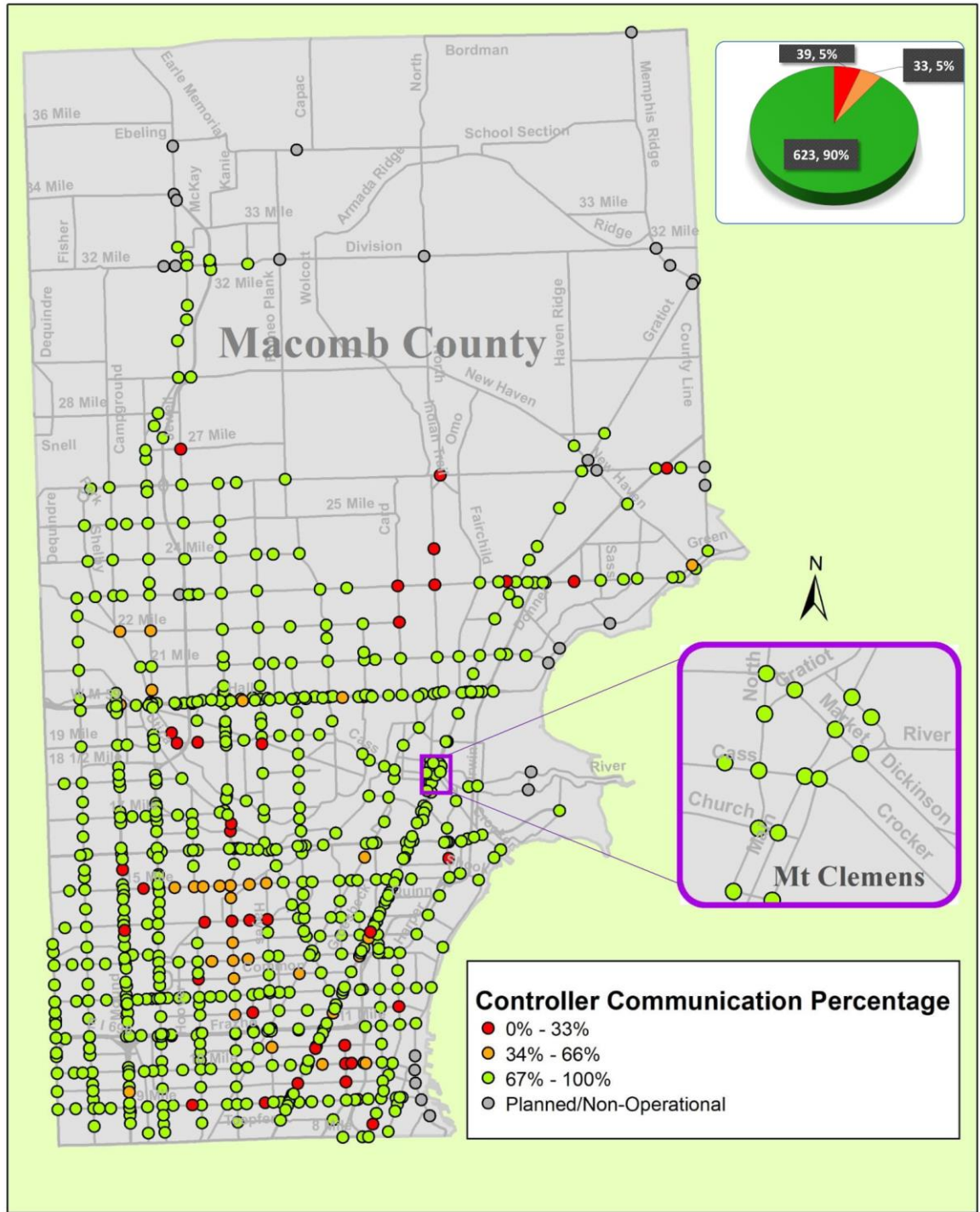
* The majority of locations that had less than 66% operability were affected by multicast migration. The issues were troubleshot and identified throughout this month. Improvements are anticipated to regain operability to 90% in the upcoming month.



REGIONAL COMMUNICATIONS SUMMARY

ITS MAINTENANCE

April 2021



The map above represents the communication availability percentages of Traffic Signal Controllers for the month of April 2021.



HIGH IMPACT CORRIDOR COMMUNICATIONS AVAILABILITY

Corridor	Current Month	Previous Month	Change
9 Mile	89%	91%	-2%
14 Mile	99%	99%	0%
15 Mile	93%	92%	1%
Metro Parkway	99%	99%	0%
Hall (M-59)	98%	99%	-1%
Dequindre	97%	97%	0%
Ryan	97%	98%	-1%
Mound	98%	98%	0%
Hoover	90%	87%	3%
Schoenherr	95%	95%	0%
Hayes	92%	91%	1%
Gratiot (M-3)	92%	92%	0%
Harper	98%	98%	0%

The table above represents a one-time monthly snapshot of communications along major corridors in Macomb County.

FIELD WORK

46 sites visited by TOC staff and 6 sites visited by IT/ITS maintenance technicians and the MCDR Electrical Group in April 2021.

FIELD WORK

Time of signal change	Loc #	Intersection	Reason for signal change
04/05/2021 13:28	455	29 Mile Road/Van Dyke	Service Request
04/05/2021 13:28	1075	29 Mile Road/Jewell	Service Request
04/08/2021 17:11	632	Hall Road (M-59)/Elizabeth	Construction
04/08/2021 17:12	763	Hall Road WB (M-59)/Crossover East of Romeo Plank	Construction
04/12/2021 16:37	896	Card/Hall Road WB (M-59)	Construction
04/12/2021 16:37	805	Hall Road WB (M-59)/Crossover East of Chateau Thierry	Construction

Traffic signal changes performed by TOC engineers



FIELD WORK CONTINUED

Time of signal change	Loc #	Intersection	Reason for signal change
04/12/2021 16:37	803	Hall Road WB (M-59)/Crossover East of Heydenreich	Construction
04/12/2021 16:37	804	Hall Road EB (M-59)/Crossover West of Chateau Thierry	Construction
04/12/2021 16:37	979	Hall Road WB (M-59)/Heydenreich	Construction
04/12/2021 16:37	980	Hall Road EB (M-59)/Heydenreich	Construction
04/12/2021 16:37	802	Hall Road EB (M-59)/Crossover West of Heydenreich	Construction
04/12/2021 16:37	613	Hall Road (M-59)/Rivergate	Construction
04/12/2021 16:39	809	Hall Road WB (M-59)/Crossover East of Groesbeck	Construction
04/12/2021 16:39	193	Groesbeck (M-97)/Hall Road (M-59)	Construction
04/12/2021 16:39	808	Hall Road EB (M-59)/Crossover West of Groesbeck	Construction
04/12/2021 16:47	763	Hall Road WB (M-59)/Crossover East of Romeo Plank	Construction
04/12/2021 16:47	211	Hall Road (M-59)/Romeo Plank	Construction
04/12/2021 16:48	762	Hall Road EB (M-59)/Crossover West of Romeo Plank	Construction
04/13/2021 16:54	305	Schoenherr/10 Mile Road	Traffic Study
04/13/2021 16:54	314	10 Mile Road/Wagner	Traffic Study
04/13/2021 16:54	233	Hoover/10 Mile Road	Traffic Study
04/13/2021 16:54	390	Lorraine/10 Mile Road	Traffic Study
04/13/2021 16:55	104	Dequindre/10 Mile Road	Traffic Study
04/13/2021 16:55	78	10 Mile Road/Warner	Traffic Study
04/20/2021 10:04	193	Groesbeck (M-97)/Hall Road (M-59)	Service Request
04/20/2021 10:05	808	Hall Road EB (M-59)/Crossover West of Groesbeck	Service Request
04/30/2021 15:28	412	Calahan (Grove)/12 Mile Road	Construction

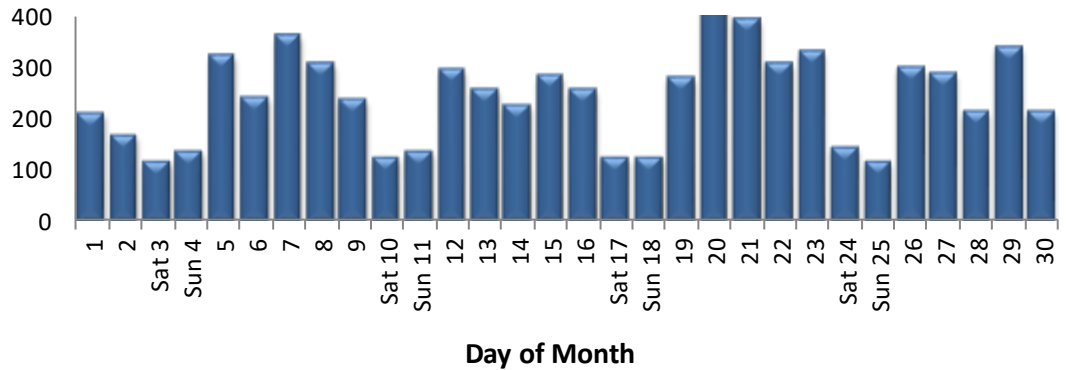
MAINTENANCE

April 2021



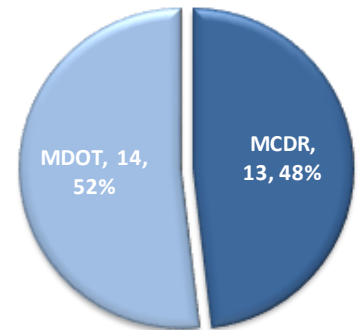
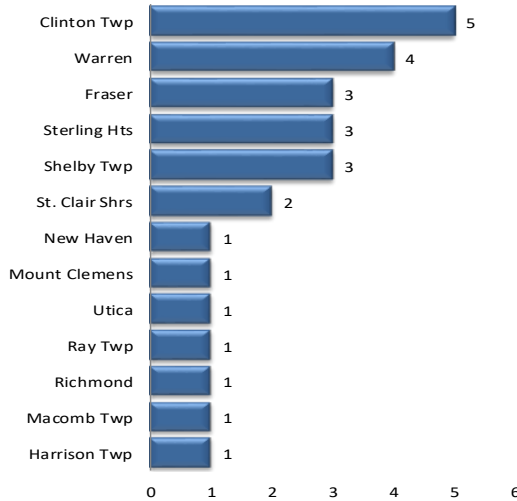
AECOM

MCDR WEBSITE HITS



A total of **7,313** hits were accrued at <http://roads.macombgov.org/>.

SERVICE REQUESTS PER MUNICIPALITY

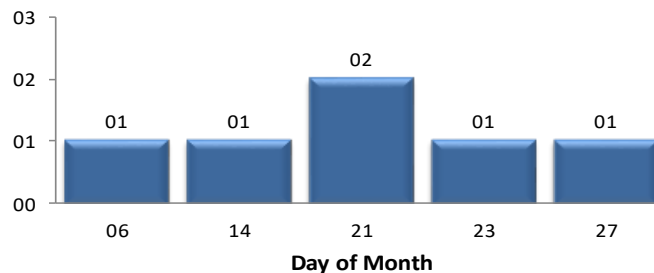


The chart to the left shows how many requests were created per traffic signal location under municipality jurisdiction. The chart to the right shows breakdown of the requests created under MDOT or MCDR / local municipality jurisdiction.

GOVDELIVERY NOTIFICATIONS

In the month of April, the TOC sent out **06** GovDelivery notifications, and increased the number of recipients from **2,491** to **2,554** receiving notifications.

Note: The chart below only shows data for the days GovDelivery notifications were sent from the TOC.



GovDelivery is a tool to notify Macomb County motorists of any incident blocking at least one lane of traffic or causing traffic issues. The notifications are sent after an incident has been verified.

[Sign up for incident notifications on weekdays from 6 a.m. to 6 p.m. causing lane or roadway closures on major Macomb County arterials.](#)

