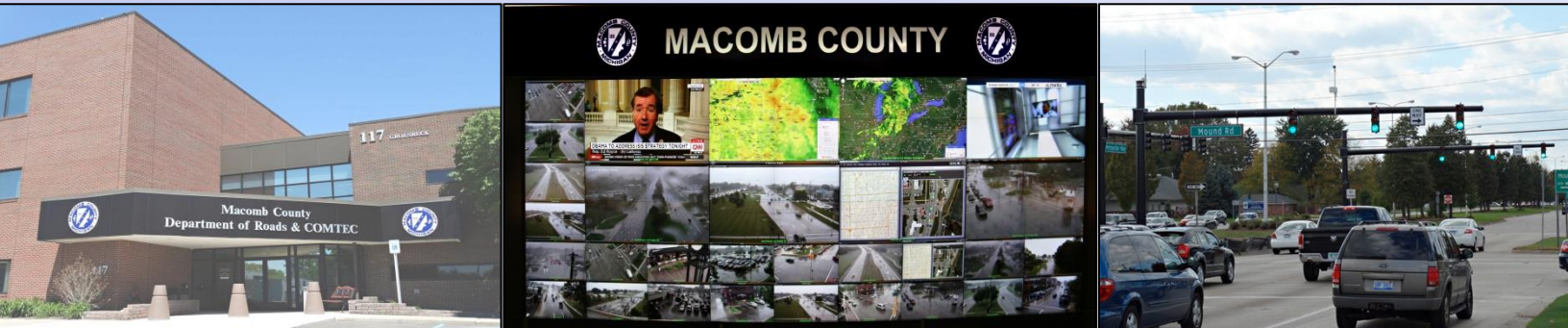


MACOMB COUNTY DEPARTMENT OF ROADS

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



September 2023

AECOM

WSP

**INTEGRAL
BLUE**



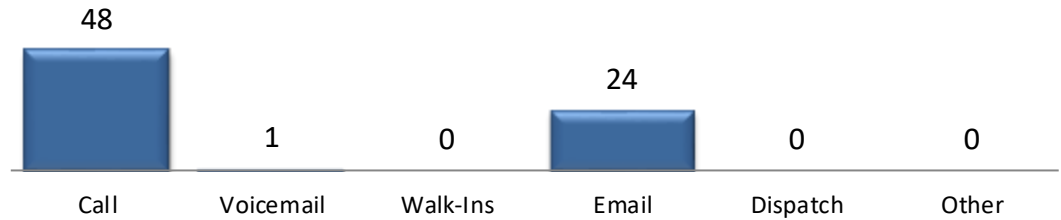
John Abraham, PhD, PE, PTOE
Director of Traffic & Operations
Macomb County Department of Roads
117 S Groesbeck Hwy
Mount Clemens, MI 48043
586-463-8671
JAbraham@RCMCWeb.org

MONTHLY TOC HIGHLIGHT

During the month of September, the ITS maintenance group upgraded multiple radio links to Macomb County's northern region which improved signal by 80%. This upgrade provided enhanced communications to closed-circuit television (CCTV) cameras in Washington Township and Romeo Village. The CCTVs are crucial for monitoring traffic conditions in real-time and are now more reliable assets to the Traffic Operations Center (TOC).

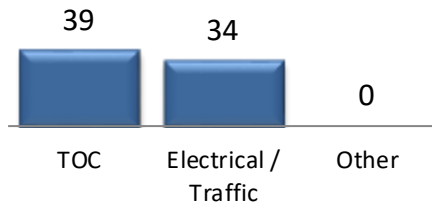
OPENED SERVICE REQUESTS

Service Request Source



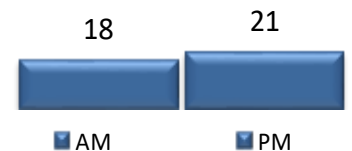
In the month of September, **73** incoming requests regarding traffic signals were received.

Service Request Opened by Dept.

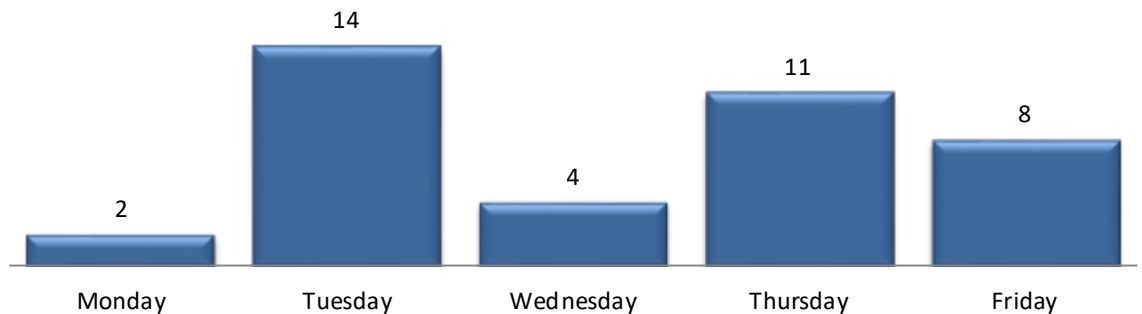


In the month of September, TOC engineers closed **45** service requests within an average of **2** business days.

TOC Service Requests Opened by Time of Day



TOC Service Request Opened Per Day of Week



TRAFFIC OPERATIONS

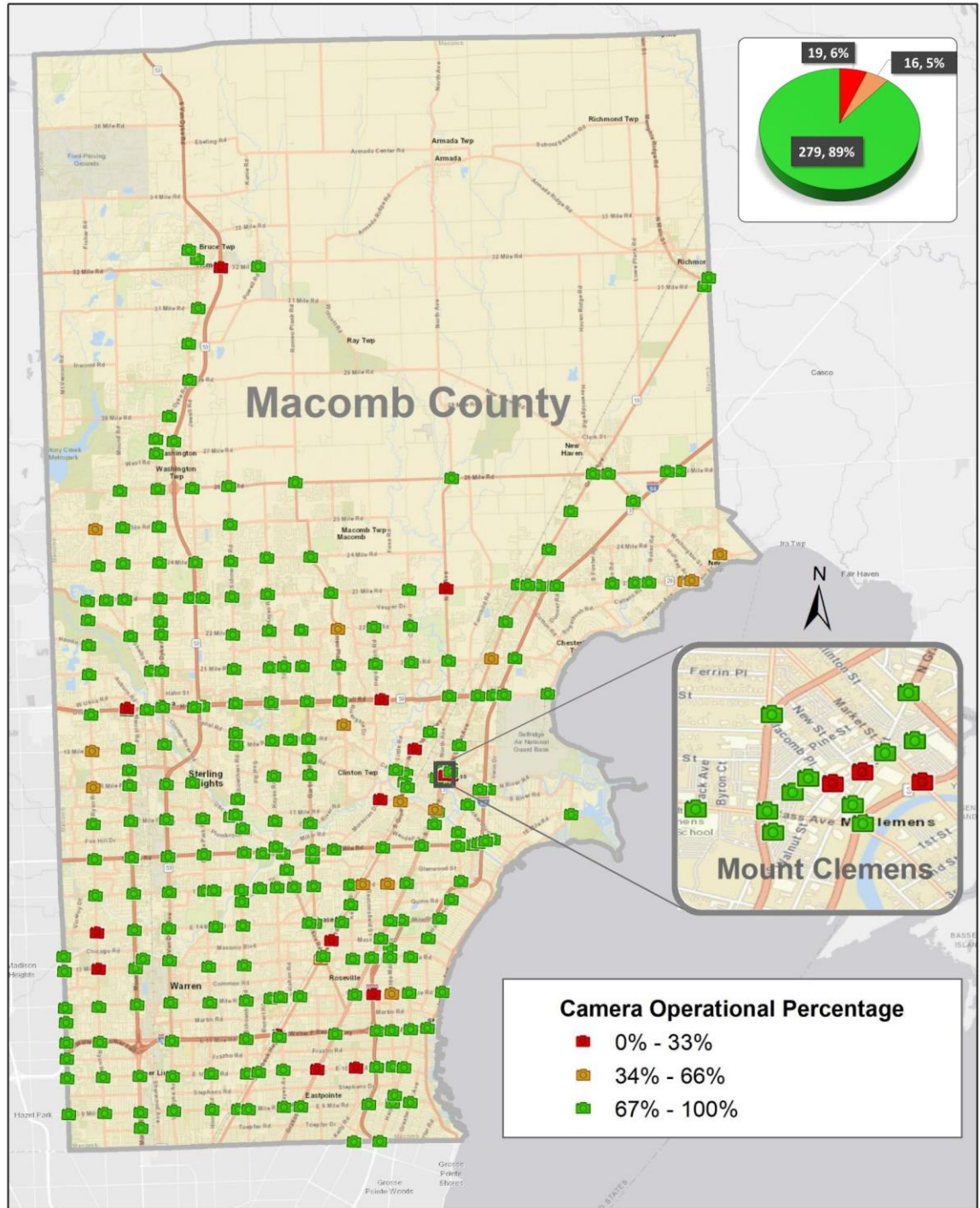
September 2023



CCTV TRAFFIC CAMERA SUMMARY

CAMERA COVERAGE

September 2023



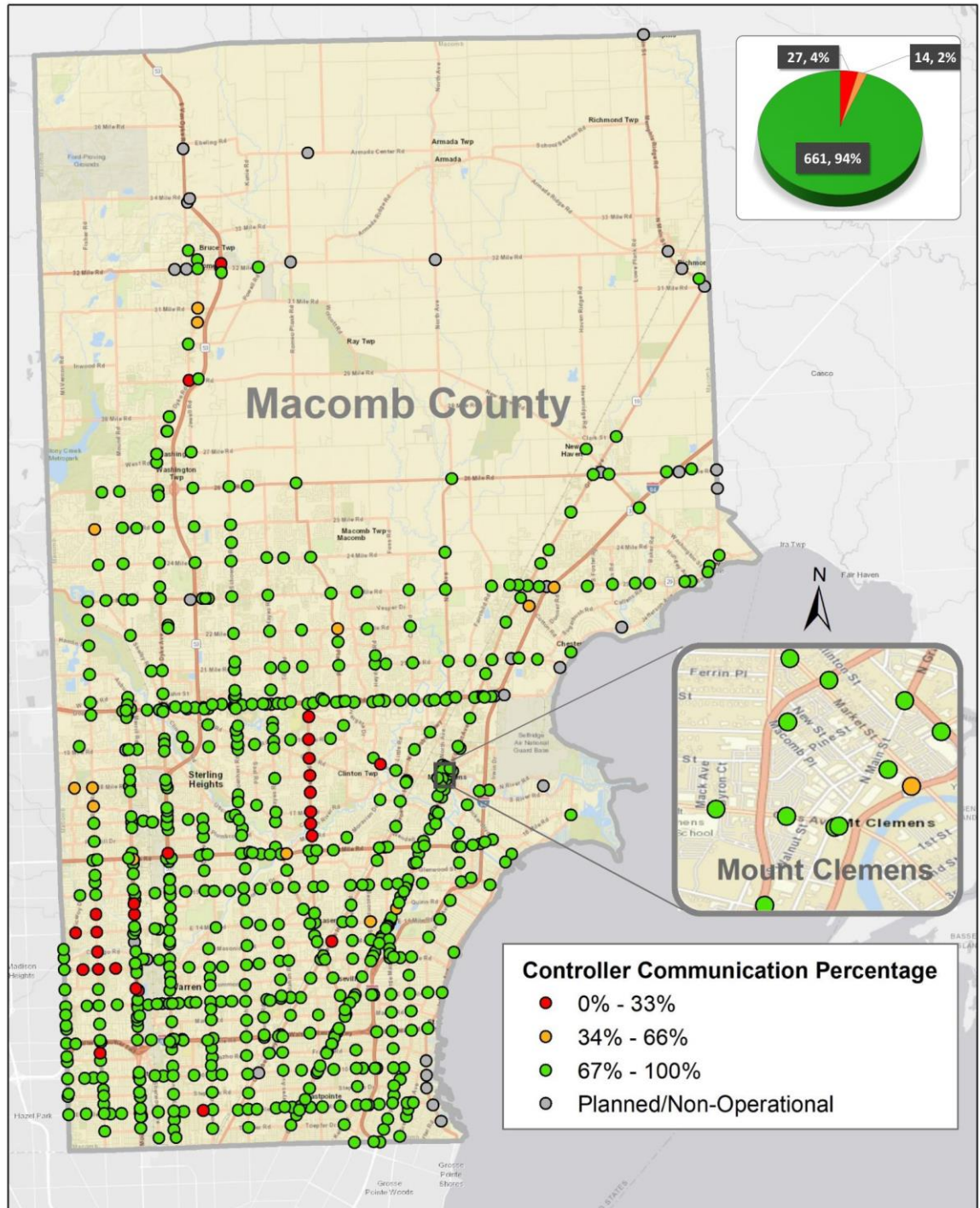
The map above represents the CCTV camera operational percentages for the month of September 2023.



REGIONAL COMMUNICATIONS SUMMARY

ITS MAINTENANCE

September 2023



The map above represents the communication availability percentages of Traffic Signal Controllers for the month of September 2023.



HIGH IMPACT CORRIDOR COMMUNICATIONS AVAILABILITY

Corridor	Current Month	Previous Month	Change
9 Mile	96%	99%	-3%
14 Mile	89%	98%	-9%
15 Mile	95%	91%	4%
Metro Parkway	98%	99%	-1%
Hall Rd(M-59)	99%	99%	0%
Dequindre	99%	86%	13%
Ryan	81%	86%	-5%
Mound	86%	89%	-3%
Hoover	100%	99%	1%
Schoenherr	97%	99%	-2%
Hayes	99%	97%	2%
Gratiot(M-3)	99%	98%	1%
Harper	99%	99%	0%

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

FIELD WORK

124 sites visited by the IT/ITS Maintenance Technicians. 20 sites visited by the combined efforts of the IT/ITS Maintenance and MCDR Electrical crews.

SIGNAL TIMING CHANGES

Traffic signal changes performed by TOC engineers

Time of Signal change	Location	Intersection	Reason for signal change
09/01/2023 13:12	Common/Ryan	160	Service Request
09/01/2023 14:32	Van Dyke SB (M-53)/Crossover 630' N of 18 Mile Road	679	Service Request
09/01/2023 14:32	18 Mile Road/Van Dyke	352	Service Request
09/01/2023 14:32	Van Dyke NB (M-53)/Crossover 570' S. of 18 Mile Rd	40	Service Request
09/01/2023 14:32	Van Dyke SB (M-53)/Crossover 210' N of Plumbrook	678	Service Request
09/01/2023 14:32	Van Dyke SB (M-53)/Crossover 400' N of 16 & 1/2 Mile Road	674	Service Request
09/05/2023 10:53	21 Mile Road/Van Dyke	43	Traffic Study
09/05/2023 16:29	25 Mile Road/Eisenhower High School Drive	961	Service Request
09/05/2023 17:40	Van Dyke SB (M-53)/Crossover 400' N of 16 & 1/2 Mile Road	674	Service Request
09/06/2023 7:10	Hall Road (M-59)/Van Dyke	212	Incident (Crash)



SIGNAL TIMING CHANGES CONTINUED

MAINTENANCE

September 2023

Time of Signal change	Location	Intersection	Reason for signal change
09/06/2023 8:22	WB M-59/Crossover at Vanker	1084	Incident (Crash)
09/06/2023 7:45	Hall Road EB/WB (M-59)/M-53 SB Off Ramp	779	Incident (Crash)
09/07/2023 8:45	Hall Road EB (M-59)/M-53 NB On Ramp	568	Incident (Crash)
09/06/2023 7:10	Hall Road EB (M-59)/Crossover West of Van Dyke	776	Incident (Crash)
09/06/2023 15:53	Garfield/22 Mile Road	949	Construction
09/07/2023 9:25	Hall Road EB/WB (M-59)/M-53 SB Off Ramp	779	Incident (Crash)
09/07/2023 12:38	Lorraine/12 Mile Road	5	Service Request
09/07/2023 17:08	Schoenherr/12 Mile Road	307	Traffic Study
09/07/2023 17:52	County Line/26 Mile Road	89	Service Request
09/08/2023 12:27	Pauline/12 Mile Road	294	Traffic Study
09/08/2023 18:29	Little Mack/Stephens	598	Traffic Study
09/08/2023 18:29	Little Mack/10 Mile Road	255	Traffic Study
09/08/2023 18:29	Frazho/Little Mack	151	Traffic Study
09/08/2023 18:29	11 Mile/Little Mack	121	Traffic Study
09/08/2023 18:29	Little Mack/Martin	253	Traffic Study
09/08/2023 18:29	Little Mack/13 Mile Road	256	Traffic Study
09/08/2023 18:29	I-94 EB Off Ramp/Little Mack	714	Traffic Study
09/08/2023 18:29	I-94 WB Off Ramp/Little Mack	713	Traffic Study
09/08/2023 18:29	Little Mack/Masonic	254	Traffic Study
09/11/2023 15:08	Romeo Plank/23 Mile Road	517	Traffic Study
09/11/2023 15:08	Hayes/13 Mile Road	164	Traffic Study
09/11/2023 15:08	Calahan (Grove)/13 Mile Road	737	Traffic Study
09/11/2023 15:08	Kelly/13 Mile Road	250	Traffic Study
09/11/2023 15:08	13 Mile Road (E of Little Mack)/at Flora	1023	Traffic Study
09/11/2023 15:08	St. Margaret (Champine)/13 Mile Road	3	Traffic Study
09/13/2023 7:45	15 Mile Road/Schoenherr	396	Incident (Crash)
09/13/2023 14:13	12 Mile Road/Utica Road	320	Traffic Study
09/13/2023 16:30	I-696 Service Drive (Westbound/North Side)/Van Dyke	13	Incident (Congestion)
09/13/2023 16:30	I-696 Service Drive (Westbound/North Side)/500' E of Van Dyke	440	Incident (Congestion)
09/14/2023 17:01	Metropolitan Parkway/Union Lake	981	Service Request
09/15/2023 12:18	Groesbeck (M-97)/Metropolitan Parkway	198	Incident (Crash)
09/15/2023 16:35	15 Mile Road/Gratiot	133	Incident (Crash)
09/18/2023 13:15	12 Mile Road/Tech Plaza Drive	321	Traffic Study
09/18/2023 13:49	12 Mile Road/GM Gate (1/4 Mile E. of Mound)	331	Traffic Study
09/18/2023 14:19	Revere/12 Mile Road	338	Traffic Study
09/18/2023 14:42	15 Mile Road/Schoenherr	396	Incident (Crash)
09/18/2023 17:25	Gratiot (M-3)/Hall Road (M-59)	162	Congestion
09/18/2023 17:25	Hall Road EB (M-59)/Crossover West of Gratiot	810	Congestion
09/18/2023 17:25	Hall Road WB (M-59)/Crossover East of Gratiot	811	Congestion
09/19/2023 8:09	Garfield/Terra Bella	614	Incident (Crash)
09/19/2023 16:28	I-94 Northbound/12 Mile Road	358	Traffic Study
09/19/2023 16:58	I-94 SB Off Ramp/12 Mile Road	362	Traffic Study
09/19/2023 17:16	Calahan (Grove)/12 Mile Road	412	Traffic Study
09/19/2023 17:38	Hayes/12 Mile Road	417	Traffic Study
09/20/2023 17:47	Hayes/Crossover 300' N of 12 Mile Road	418	Traffic Study
09/20/2023 13:59	Jefferson/12 Mile Road	454	Traffic Study
09/20/2023 14:49	14 Mile Road/Van Dyke	147	Construction
09/20/2023 14:52	Denwood (Sterling Ponds)/Van Dyke	800	Construction
09/20/2023 14:59	Van Dyke/TRW Plant	367	Construction
09/20/2023 15:04	Van Dyke NB (M-53)/Crossover 610' S of 15 Mile Road	666	Construction



SIGNAL TIMING CHANGES CONTINUED

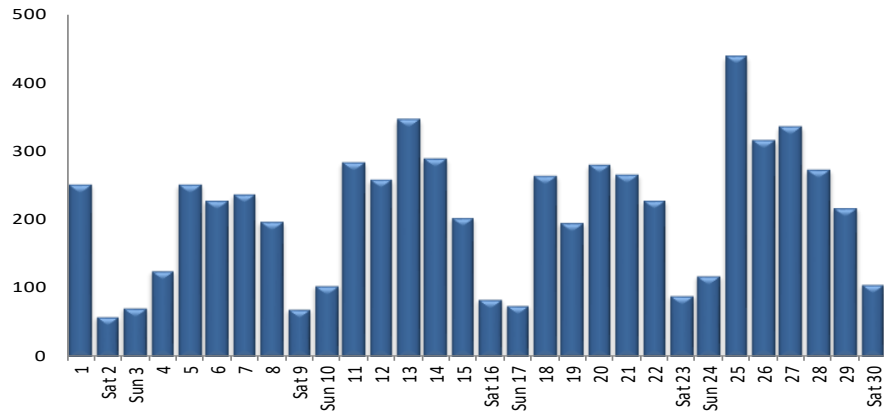
MAINTENANCE

September 2023

Time of Signal change	Location	Intersection	Reason for signal change
09/20/2023 15:04	Van Dyke SB (M-53)/Crossover 620' N of 15 Mile Road	667	Construction
09/20/2023 15:06	Van Dyke SB (M-53)/Crossover 300' S of Brougham	668	Construction
09/20/2023 15:08	Van Dyke NB (M-53)/Crossover 150' S of Brougham	669	Construction
09/20/2023 15:13	Van Dyke NB (M-53)/Crossover 620' S of Metropolitan Parkway	670	Construction
09/20/2023 16:12	Metropolitan Parkway/Van Dyke	310	Construction
09/21/2023 10:52	28 Mile Road/Van Dyke	533	Service Request
09/21/2023 14:56	14 Mile Road/Van Dyke	147	Construction
09/21/2023 14:56	Denwood (Sterling Ponds)/Van Dyke	800	Construction
09/21/2023 14:56	Van Dyke/TRW Plant	367	Construction
09/21/2023 14:56	Van Dyke NB (M-53)/Crossover 610' S of 15 Mile Road	666	Construction
09/21/2023 14:56	15 Mile Road/Van Dyke	139	Construction
09/21/2023 14:56	Van Dyke SB (M-53)/Crossover 620' N of 15 Mile Road	667	Construction
09/21/2023 17:08	Romeo Plank/23 Mile Road	517	Traffic Study
09/21/2023 17:34	Hoover/1050' S 12 Mile Road/St. Johns Macomb Hospital	537	Traffic Study
09/22/2023 10:48	Milton/12 Mile Road	560	Traffic Study
09/22/2023 15:55	15 Mile Road/Schoenherr	396	Incident (Crash)
09/22/2023 16:20	Schoenherr/23 Mile Road	608	Traffic Study
09/22/2023 17:04	Chesterfield Road/23 Mile Road	593	Traffic Study
09/25/2023 17:21	Moravian/Utica Road	270	Incident (Crash)
09/25/2023 17:25	Hayes/23 Mile Road	653	Traffic Study
09/26/2023 10:15	18 Mile Road/Van Dyke	352	Incident (Crash)
09/26/2023 13:54	19 Mile Road/Schoenherr	570	Incident (Crash)
09/27/2023 10:37	Metropolitan Parkway/Mound	277	Service Request
09/27/2023 10:37	EB Metropolitan Parkway crossover/approx. 750' W of Mound	1045	Service Request
09/27/2023 10:37	WB Metropolitan Parkway crossover/approx. 500' E of Mound	1044	Service Request
09/27/2023 10:37	Mound NB/Crossover 800' S. Metro Parkway	722	Service Request
09/27/2023 10:37	Mound SB/Crossover 800' N. Metro Parkway	723	Service Request
09/28/2023 11:21	Gratiot (M-3)/22 Mile Road	27	Service Request
09/28/2023 13:51	Ryan/22 Mile Road	709	Service Request
09/28/2023 14:20	12 Mile Road/Macomb CC/Wayne SU crossing	1028	Traffic Study
09/28/2023 15:40	Lorraine/12 Mile Road	5	Traffic Study
09/28/2023 16:30	Garfield/Hall Road (M-59)	156	Incident (Crash)
09/29/2023 7:44	Mound/12 Mile Road	10	Construction
09/29/2023 7:44	Mound SB/Crossover 660' N of 12 Mile Road	458	Construction
09/29/2023 7:44	Mound NB/Crossover 600' S of 12 Mile Road	457	Construction
09/29/2023 13:31	Imperial/12 Mile Road	29	Traffic Study
09/29/2023 14:07	Napi Drive/23 Mile Road	58	Traffic Study
09/29/2023 14:23	Campbell/12 Mile Road	69	Traffic Study
09/29/2023 14:54	Gratiot (M-3)/12 Mile Road	184	Traffic Study
09/29/2023 16:46	Hall Road (M-59)/Schoenherr	207	Incident (Crash)

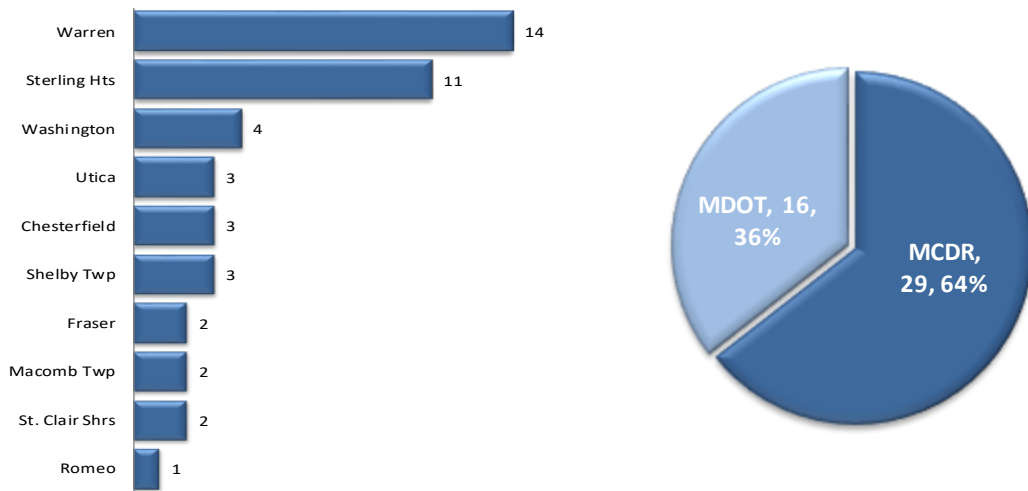


MCDR WEBSITE HITS



A total of **6,240** hits were accrued at <http://roads.macombgov.org/>.

CLOSED SERVICE REQUESTS PER MUNICIPALITY

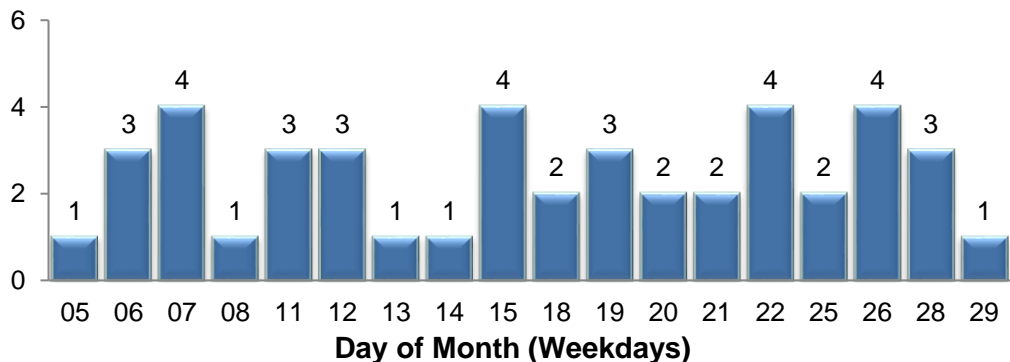


The chart to the left shows how many requests were closed per traffic signal location within each municipality. The chart to the right shows the breakdown of the requests closed under MDOT or MCDR / local municipality jurisdiction.

GOVDELIVERY NOTIFICATIONS

In the month of September, the TOC sent out **44** GovDelivery notifications. The number of recipients receiving GovDelivery notifications increased from **4,961** to **5,039** this month.

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.](#)

MOTORIST EXPERIENCE

September 2023

