

Macomb County Department of Roads 2016-2017 Budget

Robert P. Hoepfner, P.E., Director of Roads



Mark A. Hackel
County Executive

October 1, 2016
through
September 30, 2017



Macomb County Department of Roads

October 1, 2016 thru September 30, 2017



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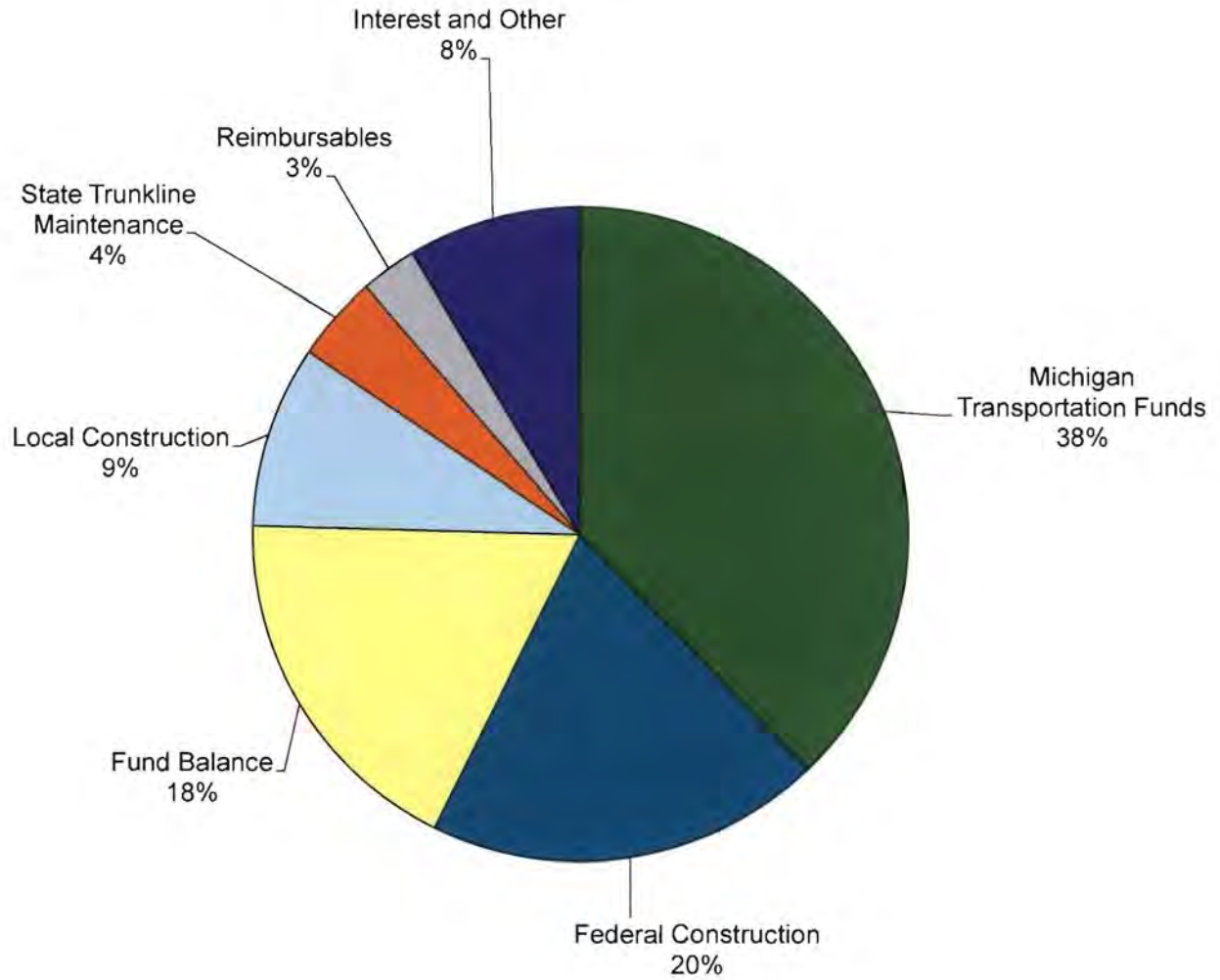
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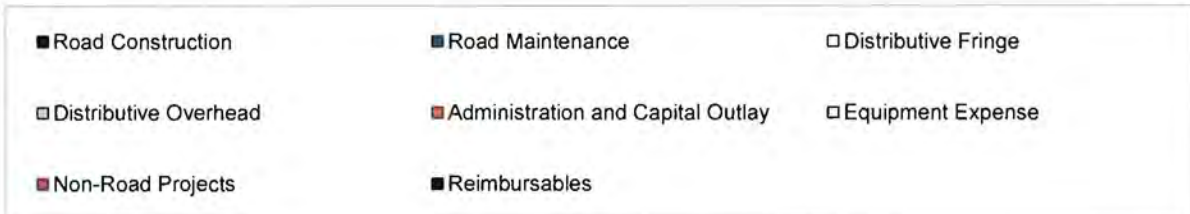
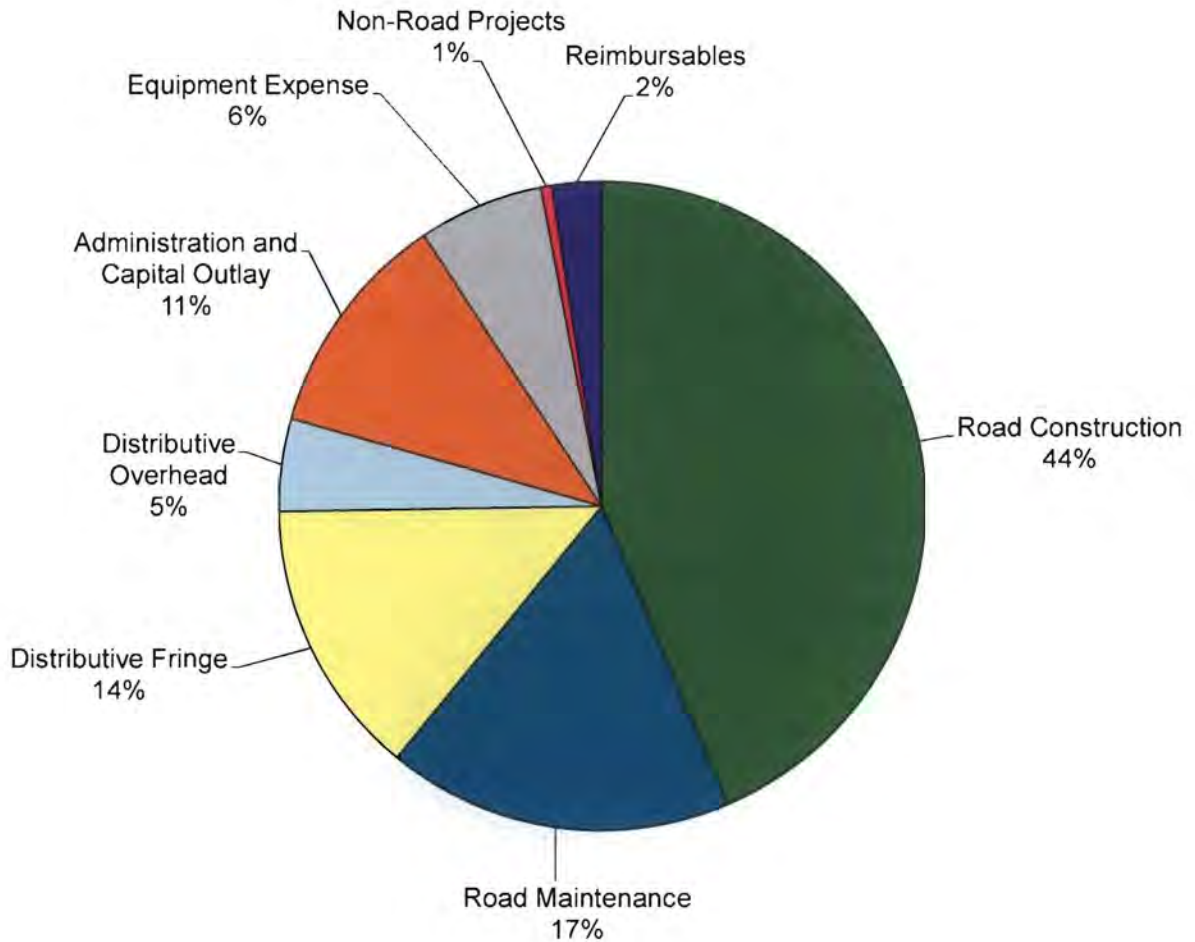
2016/2017 Budgeted Revenues by Category



■ Michigan Transportation Funds	■ Federal Construction	□ Fund Balance
□ Local Construction	■ State Trunkline Maintenance	□ Reimbursables
■ Interest and Other		



2016/2017 Budgeted Expenditures by Category





Macomb County Department of Roads

October 1, 2016 thru September 30, 2017



GENERAL APPROPRIATIONS ACT

BE IT RESOLVED, that revenues for the fiscal year commencing October 1, 2016 and ending September 30, 2017 are hereby appropriated by account consistent with the Uniform Chart of Accounts prescribed by the Department of Treasury, as follows:

<u>Account No.</u>	<u>Description</u>	<u>2014/2015 Actual</u>	<u>2015/2016 Original Budget</u>	<u>2016/2017 Original Budget</u>
490.000	Permit Fees	\$524,010	\$472,500	\$480,000
491.000	Tap-in Fees	1,000	1,200	1,200
493.000	Cab Card Fees	59,300	50,000	50,000
494.000	Review for Site Plan Fee	16,600	15,000	15,000
510.000	Grants	4,170,638	0	0
511.000	Federal Construction Projects	21,850,906	19,242,070	22,422,638
546.000	Michigan Transportation Fund	39,317,234	37,762,000	47,610,000
546.000	Build Michigan Fund	1,473,862	1,350,000	1,500,000
547.000	Local Bridge Fund	101,986	2,768,300	3,061,000
583.001	Cities	871,675	505,500	3,469,680
583.002	County Appropriation	147,290	0	0
583.004	Townships	6,241,224	7,439,850	8,255,750
608.000	Subdivision Inspection	253,084	200,000	250,000
609.000	Driveway Installation Fees	17,727	15,000	15,000
610.000	Sundry Accounts Receivable	2,181,341	2,510,000	2,511,500
627.000	State Trunkline Maintenance	6,676,375	5,485,470	5,494,241
628.000	State Non-Maintenance	89,313	650,000	300,000
665.000	Interest Earned	186,181	143,622	195,769
669.000	Equipment Rental Credits	7,434,412	7,038,192	6,790,292
673.000	Sales of Property and Equipment	181,096	91,000	276,000
680.000	Other Construction Contributions	199,882	40,000	0
685.000	Accident Recovery	158,402	100,000	100,000
690.000	Depreciation Credits	2,946,782	3,234,000	3,761,845
	Miscellaneous Revenue	3,689	2,750	2,100
TOTAL REVENUES - COUNTY ROAD FUND . . .		<u>\$95,104,009</u>	<u>\$89,116,454</u>	<u>\$106,562,015</u>



Macomb County Department of Roads

October 1, 2016 thru September 30, 2017



GENERAL APPROPRIATIONS ACT

AND, BE IT FURTHER RESOLVED, that expenditures for the fiscal year commencing October 1, 2016 and ending September 30, 2017 are hereby appropriated on an activity basis consistent with the Uniform Chart of Accounts prescribed by the Department of Treasury, as follows:

Activity No.	Description	2014/2015 Actual	2015/2016 Original Budget	2016/2017 Original Budget
451	Primary Road Construction	\$8,624,063	\$6,750,800	\$9,233,560
459	Primary Road Heavy Maintenance	18,001,326	19,481,400	27,258,144
460	Primary Bridge Heavy Maintenance	1,533	2,138,008	3,516,483
467	Primary Road Maintenance	10,139,198	10,658,100	12,168,350
481	Local Road Construction	0	1,445,108	72,497
489	Local Road Heavy Maintenance	8,617,957	8,909,000	11,130,150
490	Local Bridge Heavy Maintenance	823,043	4,101,613	5,414,713
494	Local Drain Assessment	47,928	110,000	100,000
497	Local Road Maintenance	5,432,685	7,234,250	7,001,000
505	Sundry Accounts Receivable	1,558,564	2,205,500	2,337,000
507	Subdivision Inspection	99,770	95,000	170,000
508	Permit Inspection	265,112	250,000	305,000
510	Direct Equipment	3,642,026	4,170,700	4,327,130
511	Indirect Equipment	1,647,895	2,143,000	2,583,645
512	Operating Equipment	811,263	1,245,000	1,245,000
513	Fringe Benefits	16,007,904	16,607,372	18,000,402
514	Distributive	5,938,668	5,627,485	6,010,325
515	Administration	(442,440)	694,330	499,030
516	Engineering	1,200,392	1,136,795	1,215,000
517	State Trunkline Maintenance	3,918,027	3,493,893	3,395,393
518	State Non-Maintenance	42,433	452,500	457,500
521	Non-Road Projects	2,684,515	675,530	500,000
901	Capital Outlay	3,508,298	5,116,708	13,016,300
902	Capital Projects Fund	161,748	143,622	195,769
906	Bond and Note Payments	24,445	21,622	18,769
TOTAL EXPENDITURES -				
COUNTY ROAD FUND		<u>\$92,756,353</u>	<u>\$104,907,336</u>	<u>\$130,171,160</u>
BUDGETED NET REVENUES (EXPENDITURES)		\$2,347,656	(\$15,790,882)	(\$23,609,145)
ACCUMULATED AVAILABLE FUND BALANCE				
FROM PRIOR YEARS - PROJECTED				<u>55,309,622</u>
PROJECTED FUND BALANCE AT END OF BUDGET YEAR				<u>\$31,700,477</u>



Macomb County Department of Roads

October 1, 2016 thru September 30, 2017



GENERAL APPROPRIATIONS ACT

Activity No.	Description	2014/2015 Actual	2015/2016 Original Budget	2016/2017 Original Budget
677	General Liability Fund	433,758	450,000	450,000
TOTAL EXPENDITURES - GENERAL LIABILITY FUND		<u>433,758</u>	<u>450,000</u>	<u>450,000</u>
902	Capital Projects Fund	0	0	0
TOTAL EXPENDITURES - CAPITAL PROJECTS FUND		<u>0</u>	<u>0</u>	<u>0</u>
665.000	Interest Earned	22,553	12,000	12,500
699.000	Transfer-In Control	0	0	0
TOTAL REVENUES - GENERAL LIABILITY FUND		<u>22,553</u>	<u>12,000</u>	<u>12,500</u>
665.000	Interest Earned	3,735	1,800	2,100
699.000	Transfer-In Control	161,748	143,622	195,769
TOTAL REVENUES - CAPITAL PROJECTS FUND		<u>165,483</u>	<u>145,422</u>	<u>197,869</u>



Macomb County Department of Roads

October 1, 2016 thru September 30, 2017



2016 - 2017 STATISTICS

I - ROAD MILES

County-Wide Primary Mileage	429.59	miles
County-Wide Local Mileage	1,279.19	miles
State Trunkline Actual C/L Mileage	210.11	miles

II - FEDERAL AID MILES

Federal Aid Urban Primary Mileage	354.10	miles
Federal Aid Urban Local Mileage	1,070.80	miles

III - LANE MILES

State Trunkline Lane Miles Maintained by MCDOR	662.35	miles
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NUMBER OF STRUCTURES MAINTAINED by MACOMB COUNTY DEPARTMENT OF ROADS

Bridges	216	bridges
County Primary System	100	structures
County Local System	116	structures
Bridges Closed to Traffic	0	
Bridges Posted	15	

NUMBER OF DRAINAGE STRUCTURES 20' - 0" or LESS

Drainage Structures - Total	521
Drainage Structures Closed to Traffic	1
Drainage Structures Posted	0

EXTERNAL FORMULA DISTRIBUTION, ACT 51, P.A. 1951 AS AMENDED

Michigan Department of Transportation	39.10%
Counties	39.10%
Cities	21.80%



Macomb County Department of Roads

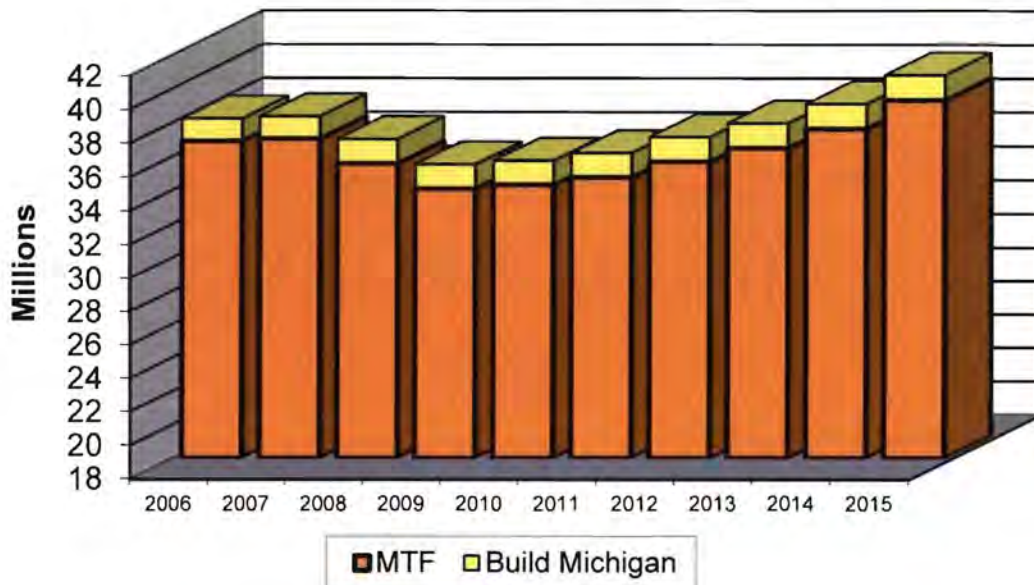
October 1, 2016 thru September 30, 2017



MICHIGAN TRANSPORTATION FUNDS Fiscal Year 2016/2017 Budget

	<u>Gas & Weight Funds</u>	<u>Build Michigan Funds</u>
October	\$2,700,000	\$115,000
November	2,800,000	115,000
December	3,100,000	115,000
January	4,300,000	115,000
February	5,300,000	115,000
March	4,150,000	115,000
April	4,400,000	115,000
May	3,650,000	115,000
June	4,400,000	115,000
July	3,850,000	115,000
August	4,550,000	115,000
September	4,400,000	235,000
Engineering	10,000	0
	<u>\$47,610,000</u>	<u>\$1,500,000</u>

Actual Revenue for the last 10 years





Macomb County Department of Roads

October 1, 2016 thru September 30, 2017



EQUIPMENT and CAPITAL PROJECTS

SUMMARY

CAPITALIZED EQUIPMENT:

901	976.000	Numbered Equipment - Unlicensed	\$508,100
901	977.000	Shop Equipment	5,000
901	980.001	Office Furniture	50,000
901	980.002	Computer Hardware	127,000
901	980.003	Computer Software	86,000
901	981.000	Numbered Equipment - Licensed	2,786,000

<i>TOTAL CAPITALIZED EQUIPMENT</i>			<u>\$3,562,100</u>
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NON-CAPITALIZED EQUIPMENT:

	728.010	Office Machines	\$500
	728.050	Computer Equipment	55,000
	728.060	Computer Software	5,000
	728.090	Shop Equipment	6,500
	729.000	Engineering Supplies	14,800
	735.000	Shop Supplies	5,300
	737.000	Supplies for Signs	1,200
	779.000	Parts/Supplies for Equipment	2,800

<i>TOTAL NON-CAPITALIZED EQUIPMENT</i>			<u>\$91,100</u>
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CAPITAL PROJECTS:

901	975.xxx	Capital Improvements-Srv Cntrs	\$100,000
901	975.016	Buildings - Washington Salt Dome	6,200
901	975.022	Buildings - New Haven Svcs Cntr	75,000
901	975.024	Buildings - New Haven Salt Dome	16,000
901	975.030	Buildings - Clinton Service Center	101,000
901	975.031	Buildings - Mound Road Salt Dome	21,000
901	975.042	Buildings - Shelby Service Center	60,000
901	975.053	Major Building Improvements	9,000,000
901	979.053	Yard & Storage - Clinton Svcs Cntr	75,000

<i>TOTAL CAPITAL PROJECTS</i>			<u>\$9,454,200</u>
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<i>TOTAL EQUIPMENT and CAPITAL PROJECTS</i>			<u>\$13,107,400</u>
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Macomb County Department of Roads

October 1, 2016 thru September 30, 2017



EQUIPMENT AND CAPITAL PROJECTS

	Trade-In	Cost	Account Number
<i>(02) FINANCE AND I.T.</i>			
Furniture - Finance Department - 3rd Floor		\$50,000	980.001
2 UCS Servers for Macomb & College Data Centers		47,000	980.002
20 Personal Computers		20,000	728.050
10 Laptops		15,000	728.050
5 CAD Workstations		10,000	728.050
4 Network/Infrastructure Equipment		30,000	980.002
10 Mobile Device/Tablets or Laptop Replacements (Engineering)		10,000	728.050
1 Technology Contingency		40,000	980.002
2 Printers		10,000	980.002
1 Precision Computer Solutions		80,000	980.003
1 Vulnerability Testing		6,000	980.003
Miscellaneous Desktop Software (Adobe, Visio, Etc)		5,000	728.060
		<u>\$323,000</u>	

<i>(11) WASHINGTON TOWNSHIP SERVICE CENTER</i>			
1 Tandem Axle Muni-Body Dump Truck	1516	\$190,000	981.000
Wing Plow for Above		20,000	981.000
UB Blade for Above		15,000	981.000
1 Tractor with Long Arm	6354	125,000	976.000
1 Back Pack Blower		800	976.000
1 14" Chainsaw	646911	500	976.000
1 Weedwhip	6984	500	976.000
		<u>\$351,800</u>	



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EQUIPMENT AND CAPITAL PROJECTS

	Trade-In	Cost	Account Number
<i>(12) NEW HAVEN SERVICE CENTER</i>			
1 Semi Truck with 5th Wheel	170205	\$165,000	981.000
UB Blade for Above		15,000	981.000
Winch for Above		20,000	981.000
1 V-Bottom Trailer for Semi	627904	120,000	976.000
1 Gradall	6658	388,000	981.000
2 Sandvik Blades for Graders		12,000	976.000
1 Square Wave Tig Welder		5,000	977.000
2 3 Ton Floor Jack		500	735.000
1 1/2 Ton Pick-Up Truck with Tool Box and Arrowbar	124010	25,000	981.000
		<u>\$750,500</u>	
 <i>(13) CLINTON TOWNSHIP SERVICE CENTER</i>			
1 F450 Truck with 12' Stake Body	1003	\$65,000	981.000
1 Elgin Mechanical Sweeper	160407	260,000	981.000
1 Tandem Axle Dump Truck	1761	125,000	981.000
Wing Plow for Above		20,000	981.000
UB Blade, Salt Spreader, Tailgate Tank for Above		80,000	981.000
1 Tandem Axle Muni-Body Dump Truck	1768	190,000	981.000
Wing Plow for Above		20,000	981.000
UB Blade for Above		15,000	981.000
2 1/2 Ton Pick-Up Truck with Tool Box and Arrowbar	126905/123010	50,000	981.000
2 Solar Powered - Trailer Mounted Arrowboards		16,000	981.000
1 Back Pack Leaf Blower		800	976.000
1 Chainsaw - 16"	648203	500	976.000
1 Large Root Cutter 12" to 48"		10,000	976.000
1 Chainsaw - 25"	650408	2,000	976.000
1 Trimmer with Blade Attachment		500	976.000
		<u>\$854,800</u>	



Macomb County Department of Roads

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EQUIPMENT AND CAPITAL PROJECTS

	Trade-In	Cost	Account Number
<i>(14) SHELBY TOWNSHIP SERVICE CENTER</i>			
1 Tandem Axle Muni-Body Dump Truck	1756	\$190,000	981.000
Wing Plow for Above		20,000	981.000
UB Blade for Above		15,000	981.000
1 Tandem Axle Muni-Body Dump Truck	175904	190,000	981.000
Wing Plow for Above		20,000	981.000
UB Blade for Above		15,000	981.000
1 John Deere 410 Backhoe & Attachments	6592	130,000	976.000
1 Backhoe Trailer	6256	18,000	981.000
1 F650 Stake Truck 12' Bed	1024	65,000	981.000
		<u>\$663,000</u>	
 <i>(15) VEHICLE MAINTENANCE</i>			
Forklift	6601	\$53,000	976.000
Cannon E05 Rebel Camera	4093	500	728.010
Dewalt Portable Band Saw Deep Cut		500	735.000
42" Belt Drive Drum Fans		1,000	735.000
Port-A-Cool Cyclone 2000 Evaporative Cooler		1,400	735.000
Deluxe A/C Line Repair Kit - 5RRAC1387		700	735.000
10 Ton Porto-Power Kit BHKB65115		500	735.000
Strut Spring Compressor Redline RESC3		700	735.000
		<u>\$58,300</u>	
 <i>(16) SUPERINTENDENT'S OFFICE</i>			
10 GPS Units for Maintenance Vehicles		<u>\$10,000</u>	976.000
		<u>\$10,000</u>	



Macomb County Department of Roads

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EQUIPMENT AND CAPITAL PROJECTS

	Trade-In	Cost	Account Number
<i>(21) TRAFFIC</i>			
1 1/2 Ton Pickup with Beacons and Arrow Bar	120203	\$25,000	981.000
1 Tool Box		900	779.000
1 Distance Measuring Instrument (DMI)		500	779.000
1 1/2 Ton Pickup with Beacons and Arrow Bar	121204	25,000	981.000
1 Tool Box		900	779.000
1 Distance Measuring Instrument (DMI)		500	779.000
1 Cable Locator		2,500	729.000
		<u>\$55,300</u>	
 <i>(22) ELECTRICAL SHOP</i>			
1 F750 33,000 GVRW Cab & Chassis, with Challenger aerial platform and 2400 Watt Inverter for Tool Usage	1083/6283 676603	\$250,000	981.000
1 F150 Pickup with Tool Box, LED Lightbar and LED Beacon	124507	26,000	981.000
1 Medium Roof Standard WB Transit Van, with 2400 Watt Inverter, Interior Floor Panel, Shelving & Barrier	131205/130403	35,000	981.000
		<u>\$311,000</u>	
 <i>(23) SIGN SHOP</i>			
1 Heavy Truck	151905	\$150,000	981.000
1 Air Compressor		2,500	728.090
1 48" Squeeze Roll Applicator		3,000	728.090
1 Walk Behind Blower		2,500	976.000
1 Drill Press		1,000	728.090
Temporary Sign Stands		1,200	737.000
		<u>\$160,200</u>	



Macomb County Department of Roads

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EQUIPMENT AND CAPITAL PROJECTS

	Trade-In	Cost	Account Number
<i>(24) ENGINEERING</i>			
1 Concrete Beam Tester and Molds		\$3,200	729.000
1 Sedan	111808	21,000	981.000
1 Equipment for Web Based Construction Management System		1,500	729.000
1 Convection Oven		2,800	729.000
1 Industrial Balance 12 kg x 0.1 g		3,200	729.000
1 Sieves, 12" Diameter, Complete Set		1,600	729.000
2 Pickups	120308/126408	42,000	981.000
		<u>75,300</u>	

(31) PURCHASING

Emergency Fund		<u>\$40,000</u>	976/977
		<u>\$40,000</u>	

TOTAL CARRY-OVERS FROM 2015/2016 BUDGET	\$75,000
TOTAL NEW REQUESTS FOR 2016/2017 BUDGET	<u>3,578,200</u>
TOTAL FIXED ASSETS	\$3,653,200



Macomb County Department of Roads

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EQUIPMENT AND CAPITAL PROJECTS

	Trade-In	Cost	Account Number
CAPITAL PROJECTS			
Construction/Equipment Maintenance Building/SC#3		\$9,000,000	975.053
~ Roll up Door for Salt Dome at Washington Service Center		6,200	975.016
~ Paint Salt Shed at New Haven Service Center		6,000	975.024
~ Tile Offices and Break Room at New Haven Service Center		15,000	975.022
Paint Inside of Parking Garage at New Haven Service Center		60,000	975.022
Repair Salt Shed Roof at New Haven Service Center		10,000	975.024
Mound Salt Shed Roof Repairs		15,000	975.031
~ Fuel System Upgrades at Clinton Service Center		75,000	979.053
~ Paint Mound Road Salt Shed		6,000	975.031
Paint Inside of Truck Garage at Shelby Service Center		60,000	975.042
Capital Improvements for All Service Centers		100,000	975.XXX
~ Engineering Firm Evaluation of Expansion/Renovation of Nova Complex		70,000	975.030
Electrical Shop Area - Add Restroom, Storage Room, Hallway & Floor		25,000	975.030
Install Window Between Office and Warehouse in Stockroom		6,000	975.030
		\$9,454,200	

TOTAL FIXED ASSETS AND
CAPITAL PROJECTS FOR 2016/2017

\$13,107,400



Macomb County Department of Roads

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MEMBERSHIPS and CONFERENCES

SUMMARY

	<u>Memberships</u>	<u>Conferences</u>
FINANCE & I.T.	\$930	\$29,360
HUMAN RESOURCES	190	1,000
ADMINISTRATION	550	750
WASHINGTON TOWNSHIP SERVICE CENTER	200	0
NEW HAVEN SERVICE CENTER	200	0
CLINTON TOWNSHIP SERVICE CENTER	200	0
SHELBY TOWNSHIP SERVICE CENTER	200	0
VEHICLE MAINTENANCE	200	700
SUPERINTENDENT'S OFFICE	200	0
RIGHT OF WAY	650	3,850
TRAFFIC	1,390	8,725
ELECTRICAL	575	5,975
SIGN	75	3,075
ENGINEERING	890	15,750
STOCKROOM	925	4,100
PERMITS	825	2,350
AGENCY	<u>63,200</u>	<u>0</u>
GRAND TOTAL	<u>\$71,400</u>	<u>\$75,635</u>



Macomb County Department of Roads

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MEMBERSHIPS and CONFERENCES

	<u>Employee</u>	<u>Membership</u>	<u>Conference</u>	<u>Location</u>
<i>(02) FINANCE & I.T.</i>				
Government Finance Officers Association	M. Mykytiak/M. Schenden	\$550	\$0	
Michigan Government Finance Officers Association	M. Mykytiak/M. Schenden	350	500	
County Road Association of Michigan Conferences	M. Mykytiak/M. Schenden	0	600	TBD
Southern Michigan Road Comm Finance Association	M. Mykytiak	30	60	Various
Precision Users Self Help Meetings	Precision Users	0	200	Various
Technical Training	IT Staff	0	5,000	TBD
CAD/GIS Training/Consultation	CAD/GIS Users	0	18,000	Metro Detroit
Desktop Training Package	MCDR PC End-Users	0	5,000	Metro Detroit
		<u>\$930</u>	<u>\$29,360</u>	

(03) HUMAN RESOURCES

Society for Human Resource Management	B. Tunison	\$190	\$0	
County Road Association of Michigan Conference	B. Tunison	0	1,000	
		<u>\$190</u>	<u>\$1,000</u>	

(04) ADMINISTRATION

APA - American Planning Association	J. Crumm	\$300	\$0	
APA - Michigan Chapter	J. Crumm	80	0	
American Institute of Certified Planners	J. Crumm	170	0	
Planning MI Yearly Conference	J. Crumm	0	550	TBD
Continuing Education	Administration Employees	0	200	
		<u>\$550</u>	<u>\$750</u>	



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MEMBERSHIPS and CONFERENCES

	<u>Employee</u>	<u>Membership</u>	<u>Conference</u>	<u>Location</u>
<i>(11) WASHINGTON TOWNSHIP SERVICE CENTER</i>				
APWA - Membership	D. Wancour	\$200	\$0	
		<u>\$200</u>	<u>\$0</u>	
<i>(12) NEW HAVEN SERVICE CENTER</i>				
APWA - Membership	K. Paige	\$200	\$0	
		<u>\$200</u>	<u>\$0</u>	
<i>(13) CLINTON TOWNSHIP SERVICE CENTER</i>				
APWA - Membership	J. Rogers	\$200	\$0	
		<u>\$200</u>	<u>\$0</u>	
<i>(14) SHELBY TOWNSHIP SERVICE CENTER</i>				
APWA - Membership	D. DiCicco	\$200	\$0	
		<u>\$200</u>	<u>\$0</u>	
<i>(15) VEHICLE MAINTENANCE</i>				
APWA - Membership	G. Zukowski	\$200	\$0	
APWA - Fleet Maintenance Seminar	G. Zukowski	0	500	TBD
MPPOA	G. Zukowski	0	200	
		<u>\$200</u>	<u>\$700</u>	
<i>(16) SUPERINTENDENT'S OFFICE</i>				
APWA - Membership	L. Ciavatta	\$200	\$0	
		<u>\$200</u>	<u>\$0</u>	



Macomb County Department of Roads

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MEMBERSHIPS and CONFERENCES

	<u>Employee</u>	<u>Membership</u>	<u>Conference</u>	<u>Location</u>
(18) RIGHT OF WAY				
Broker Continuing Education	ROW Personnel	\$0	\$70	
Broker License Renewal	ROW Personnel	200	0	
IRWA - Membership	ROW Personnel	250	0	
MSPS - Membership	ROW Personnel	200	0	
IRWA - General Meetings	ROW Personnel	0	480	
IRWA - Fall Seminar	ROW Personnel	0	1,500	TBD
IRWA - Miscellaneous Classes	ROW Personnel	0	900	
Miscellaneous Classes	ROW Personnel	0	900	
		<u>\$650</u>	<u>\$3,850</u>	
(21) TRAFFIC				
American Society of Civil Engineers	A. Merchant	\$275	\$0	
ITE - Institute of Transportation Engineers	Engineers/Supervisors	900	3,500	Various
Traffic Safety Summit	Traffic Employees	0	400	East Lansing
Intelligent Transportation Society of Michigan	Traffic Employees	0	625	Various
Michigan Electrical License Renewal	K. Webb	60	0	
Traffic Webinars	Traffic Employees	0	600	
State Engineering License Renewal	B. Westrick	80	0	
Code Update Certification	K. Webb	0	450	
IMSA - International Municipal Signal Association	Traffic Employees	75	3,150	TBD
		<u>\$1,390</u>	<u>\$8,725</u>	
(22) ELECTRICAL				
IMSA - International Municipal Signal Association	G. Ramsey	\$75	\$75	
IMSA - Certification	Electrical Employees	0	3,200	TBD
Michigan Traffic & Safety Summit	Electrical Employees	0	300	East Lansing
Code Update Certification	Electrical Employees	0	2,400	
Michigan Electrical License Renewal	Electrical Employees	500	0	
		<u>\$575</u>	<u>\$5,975</u>	



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MEMBERSHIPS and CONFERENCES

	<u>Employee</u>	<u>Membership</u>	<u>Conference</u>	<u>Location</u>
(23) SIGN DEPARTMENT				
IMSA - International Municipal Signal Association	R. Sabaugh	\$75	\$75	
IMSA - Certification	Sign Employees	0	3,000	Cadillac
		<u>\$75</u>	<u>\$3,075</u>	
(24) ENGINEERING				
Field Manager Users Group	C. Head	\$0	\$300	
CRA Conferences	W. Schell	0	1,300	
Michigan Concrete Association - Level I	Constantine, Schrade, Hofman, Tomassi	0	3,400	Lansing
Michigan Concrete Association- Level II	Rogers	0	850	Lansing
American Society for Testing and Materials - CST	Holmberg, Prevost	0	900	Metro
Hot Mix Asphalt - Quality Assurance/Quality Control	Prevost, Rogers	0	3,900	Ferris State
Michigan Bridge Conference	Wanagat/Blanchard/Newton	0	1,000	TBD
Michigan Society of Professional Surveyors	Chechack/Matz	250	650	TBD
Professional Engineer License Renewal	Armbruster, Blanchard, Newton, Santo, Pawloski	400	0	
American Society of Civil Engineers	J. Armbruster	240	0	
County Engineer Workshop	Blanchard, Schell	0	1,200	Sault Ste. Marie
Density Control	Pilgrim	0	1,250	Ferris State
Continuing Education	Engineers	0	1,000	
		<u>\$890</u>	<u>\$15,750</u>	
(31) PURCHASING/STOCKROOM				
Michigan Public Purchasing Officers Association	Strizic/Giedroc	\$350	\$1,100	Various
National Institute of Governmental Purchasing Training	Purchasing Staff	0	600	
MPPOA	Purchasing Staff	0	400	Various
NAFA Fleet Management Association	T. Goike	500	0	
Michigan Public Purchasing Officers Association	T. Goike	75	0	
MPPOA - Conference	T. Goike	0	1,100	TBD
MPPOA - Reverse Trade Show	T. Goike	0	250	
National Institute of Governmental Purchasing Classes	T. Goike	0	650	
		<u>\$925</u>	<u>\$4,100</u>	



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MEMBERSHIPS and CONFERENCES

	<u>Employee</u>	<u>Membership</u>	<u>Conference</u>	<u>Location</u>
<i>(32) PERMITS</i>				
Engineering Society of Detroit	G. Melistas	\$150	\$0	
National Society of Professional Engineers	G. Melistas	350	0	
American Society of Civil Engineers	G. Melistas	325	0	
PUSH Meetings (Precision Training)	Smith/Murphy	0	500	
Troxler Nuclear Gauge Safety and HAZMAT Training	C. DeVos	0	350	
Michigan Density Control Certification	C. DeVos	0	1,500	
		<u>\$825</u>	<u>\$2,350</u>	
 <i>AGENCY</i>				
Weighmaster		\$20,000	\$0	
Miss Dig Fee		5,000	0	
County Road Association of Michigan		34,000	0	
National Institute of Governmental Purchasing		400	0	
OPIS		400	0	
MI Deal		600	0	
Intelligent Transportation Society of America		2,500	0	
Intelligent Transportation Society of Michigan		300	0	
		<u>\$63,200</u>	<u>\$0</u>	
 TOTALS				
		<u>\$71,400</u>	<u>\$75,635</u>	



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SPECIAL REQUESTS

Service or Item Requested	Amount Requested	Total
(02) FINANCE & IT		
Audit Fee	\$30,000	
Checks, Forms, Folders, Envelopes, Binders, Labels etc.	5,000	
Fujitsu Scanner	1,500	
OPEB Actuarial Fee	20,000	
Miscellaneous - Network Activity	5,000	
Miscellaneous - Service/Subscription/Maintenance	10,000	
Maintenance - Cisco Hardware Maintenance/Support	15,000	
Maintenance - General PC & Peripherals	25,000	
Maintenance - Formax Folder / Sealer Machine	800	
Service - Bentley Software Support (Engineering)	30,000	
Service - AT&T Internet Service Provider (ISP)	20,000	
Service - AT&T OPT-E-MAN Fiber Network	40,000	
Service - DocuSphere Content Manager Software Support (Imaging)	4,000	
Service - Fuel Master Fuel System Support	1,300	
Service - GIS Software Maintenance (ArcEditor-6 Licenses)	4,700	
Service - Internet Service Provider (ISP) DSL for Lab	1,000	
Service - Symantec Endpoint Protection (181 licenses)	2,250	
Service - County Charge-Backs for IT Services	50,000	
(Continued)		



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SPECIAL REQUESTS

Service or Item Requested	Amount Requested	Total
(02) FINANCE & IT - (Continued)		
Service - WinSvrDataCtr ALNG LicSAPk MVL 2 Proc	8,000	
Service - O365GovE3 ShrdSvr ALNG SubsVL MVL PerUsr	27,000	
Service - WinEntforSAwMDOP ALNG UpgrdSAPk MVL Pltfrm	20,000	
Service - CoreCALBridgeO365 ALNG LicSAPk MVL Pltfrm UsrCAL	9,700	
Service - Microsoft SQL SQL SvrStdCore ALNG LicSAPk MVL 2LicCoreLic	12,000	
		\$342,250
(03) HUMAN RESOURCES		
CDL Reimbursement	\$2,000	
Mileage Reimbursement - Brittany Tunison	400	
Training	5,000	
Surveillance	5,000	
Arbitration Fees	10,000	
Independent Medical Exams	8,000	
Legal Fees	125,000	
Random Drug Testing	15,000	
		\$170,400



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SPECIAL REQUESTS

Service or Item Requested	Amount Requested	Total
(04) ADMINISTRATION		
Subscriptions (various)	\$900	
Administration Building Cleaning	6,000	
Lobbyist	23,000	
Accurate Alarm (Nightwatch)	20,000	
Radio User Fees - 800Mzh	30,000	
Auto Sentry Alarm	3,400	
Administration Building Maintenance	28,000	
DPW Projects	100,000	
Moving Road Claims	100,000	
MDEQ Underground Storage Tanks (UST) Registrations	1,500	
Legal Matters/Settlements/Deductibles	50,000	
Postage/Meter	20,000	
		\$382,800
(14) SHELBY SERVICE CENTER		
New Chairs for Breakroom (30 chairs)	\$5,000	
60" Round Cafeteria Tables for Breakroom (6 tables)	2,000	
		\$7,000



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SPECIAL REQUESTS

Service or Item Requested	Amount Requested	Total
(15) VEHICLE MAINTENANCE		
All Data Online Repair Manuals - All Service Centers	\$1,500	
Noregon System JPRO - Annual	9,000	
Allison DOC for Fleets - Annual	3,000	
Update Genysis Software - Annual	1,500	
Sandblast and Paint Trucks & Equipment - All Service Centers	20,000	
Contract out Major Repairs on Equipment	100,000	
Undercoat New Equipment	10,000	
Motorola Radio Maintenance	20,000	
		\$165,000



Macomb County Department of Roads

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SPECIAL REQUESTS

Service or Item Requested	Amount Requested	Total
(16) SUPERINTENDENTS OFFICE		
Emergency Road Repairs	\$95,000	
DEQ Compliance Fees at MCDOR Facilities	60,000	
MIOSHA Inspection & Certification at MCDOR Facilities	55,000	
Deicing Chemicals for Winter Maintenance	45,000	
Landfill Fees	70,000	
Software Maintenance Upgrades & Equipment for GPS Systems	70,000	
Safety and Training	6,000	
Snow/Patching/Mowing Contracts-Municipalities & Contractors		
Contracts Mowing - Primary	170,000	
Contracts Snow - Primary	31,000	
Contracts Sweeping - Primary	14,000	
DPW Patching - Primary	20,000	
DPW Patching - Local	10,000	
DPW Snow - Local	25,000	
Contractors Snow - Local	125,000	
Tree Removal Contract	120,000	
Contract Labor	20,000	
Emergency Repairs at Service Centers	110,000	
		\$1,046,000



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SPECIAL REQUESTS

Service or Item Requested	Amount Requested	Total
(18) RIGHT OF WAY		
Land Access Subscription	\$1,500	
Contract Labor	150,000	
Condemnation Awards	250,000	
		\$401,500
(21) TRAFFIC		
Communication Pole Equipment Maintenance	\$50,000	
Traffic Signal Local Controller Software Maintenance	60,000	
Field Network Architecture - VLAN (carry over)	275,000	
Field Network Architecture - VLAN (new amount)	300,000	
FCC Frequency Protection Service	1,000	
Traffic Count Program	75,000	
Longitudinal Pavement Marking	475,000	
Special Legend Pavement Marking	175,000	
Communication Poles - Emergency UPS System (carry over)	175,000	
Connected Vehicle - DSRC Vehicle Units	33,000	
Real Time Congestion Data & Analytics (Mound & Metro Pky)	93,500	
Connected Vehicle - DSRC Infrastructure Units (Mound Road)	73,000	
Projector Screen for Board Conference Room	650	
Office Chair	250	
Projector Screen for 3rd Floor, North Conference Room	250	
		\$1,786,650



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SPECIAL REQUESTS

Service or Item Requested	Amount Requested	Total
(22) ELECTRICAL		
Replacement & Upgrades to Storm Water Pump Stations	\$250,000	
Emergency Repairs to Stormwater Pump Stations	30,000	
Cordless Drill	850	
Cordless Sawsall	850	
Utility Work Shelter Kit	750	
		\$282,450
(23) SIGN DEPARTMENT		
Annual Maintenance for Mimaki Heat Laminator	\$3,500	
Shelving	1,000	
Shop Vac	300	
Chairs	1,000	
		\$5,800



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SPECIAL REQUESTS

Service or Item Requested	Amount Requested	Total
(24) ENGINEERING		
Subscriptions & Publications	500	
Cell Phone GPS (Survey Equipment)	1,600	
Miscellaneous Lab/Testing Equipment Service/Calibration	6,000	
GPS Firmware Maintenance	1,800	
NRC Nuclear License for Troxler Gauges	7,500	
Dosimeter Badge Service Contract	3,000	
Environmental Contracts	20,000	
Miscellaneous Testing Services	20,000	
Construction Stakes	4,500	
Bridge Design Contracts	100,000	
Miscellaneous GIS Consulting Services	3,000	
Miscellaneous CAD Consulting Services	3,000	
Certification GIS Consulting Services	10,000	
KIP Maintenance Contract	5,000	
Miscellaneous Lab Equipment	7,000	
Miscellaneous Survey Equipment	5,000	
CAD SS3-4 Consulting Services	15,000	
ROW GIS Consulting Phase III Services	45,000	
Benchmark Monuments	3,000	
		\$260,900



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ROAD MAINTENANCE COSTS

TOTAL FIELD BUDGET for:

	<u>Primary Road</u>	<u>Local Road</u>	<u>State Trunkline</u>	<u>Totals</u>
MAINTENANCE	\$5,713,500	\$6,216,000	\$2,631,893	\$14,561,393
TRAFFIC	1,499,350	460,000	561,500	2,520,850
SUPERVISION	<u>625,000</u>	<u>325,000</u>	<u>202,000</u>	<u>1,152,000</u>
TOTAL COUNTY	\$7,837,850	\$7,001,000	\$3,395,393	\$18,234,243
Total Fringe Benefits	<u>3,000,000</u>	<u>2,200,000</u>	<u>1,000,000</u>	<u>6,200,000</u>
SUBTOTAL	\$10,837,850	\$9,201,000	\$4,395,393	\$24,434,243
Total Overhead	<u>1,950,813</u>	<u>1,656,180</u>	<u>1,098,848</u>	<u>4,705,841</u>
GRAND TOTAL	<u>\$12,788,663</u>	<u>\$10,857,180</u>	<u>\$5,494,241</u>	<u>\$29,140,084</u>



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ROAD MAINTENANCE COSTS

Activity Code & Description	Primary Road	Local Road	State Trunkline	Totals
M100 Blow-up Repair	\$0	\$0	\$0	\$0
M101 Joint & Crack Filling	150,000	150,000	35,000	335,000
M102 Replace Concrete Pavement	160,000	325,000	221,629	706,629
M103 Patrol Patching	998,000	400,000	0	1,398,000
M104 Hot Patching	80,000	90,000	20,000	190,000
M105 Sawing Pavement	25,000	50,000	8,000	83,000
M107 Grade Gravel Surface	75,000	800,000	0	875,000
M108 Patch Gravel Surface	80,000	900,000	0	980,000
M109 Surface Maintenance	50,000	100,000	0	150,000
M110 State Trunkline/Freeway Patching	0	0	522,000	522,000
<i>109 SURFACE MAINTENANCE</i>	<i>\$1,618,000</i>	<i>\$2,815,000</i>	<i>\$806,629</i>	<i>\$5,239,629</i>
M120 Dust Layer Surface	40,000	325,000	0	365,000
<i>CHLORIDE APPLICATION</i>	<i>\$40,000</i>	<i>\$325,000</i>	<i>\$0</i>	<i>\$365,000</i>
M130 Blading Shoulders	210,000	40,000	11,000	261,000
M131 Berm Removal	10,000	20,000	4,000	34,000
M132 Patch Gravel Shoulder	80,000	10,000	5,000	95,000
<i>119 SHOULDER MAINTENANCE</i>	<i>\$300,000</i>	<i>\$70,000</i>	<i>\$20,000</i>	<i>\$390,000</i>
M140 Tree Removal	75,000	100,000	25,000	200,000
M141 Tree/Brush Trimming	100,000	100,000	20,000	220,000
M142 Stump Removal	10,000	10,000	5,000	25,000
M143 Log Removal	2,500	2,500	0	5,000
M144 Tree Removal Contracts	40,000	80,000	0	120,000
<i>121 TREES & SHRUBS</i>	<i>\$227,500</i>	<i>\$292,500</i>	<i>\$50,000</i>	<i>\$570,000</i>
M150 Clean Catch Basins	50,000	45,000	36,000	131,000
M151 Repair Catch Basins	50,000	160,000	22,000	232,000
M152 Build Catch Basins	3,000	3,000	0	6,000
M153 Ditch Cleanout	125,000	445,000	4,000	574,000
M154 Powerflushing Culverts	25,000	75,000	5,000	105,000
M155 Culvert/Underdrain Maintenance	50,000	145,000	5,000	200,000
M156 Erosion Control	50,000	60,000	8,000	118,000
<i>122 DRAINAGE STRUCTURES</i>	<i>\$353,000</i>	<i>\$933,000</i>	<i>\$80,000</i>	<i>\$1,366,000</i>



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ROAD MAINTENANCE COSTS

Activity Code & Description	Primary Road	Local Road	State Trunkline	Totals
M160 Full Width Litter Pickup	0	0	63,000	63,000
M161 Patrol Litter Pickup	35,000	12,000	5,000	52,000
M162 Litter Hauling Contract	6,000	6,000	12,000	24,000
<i>124 ROADSIDE CLEANUP</i>	\$41,000	\$18,000	\$80,000	\$139,000
M170 Swath Mowing	200,000	150,000	35,000	385,000
M171 Mowing Contracts	170,000	0	0	170,000
M172 Weedspray Contracts	0	0	0	0
<i>126 GRASS AND WEED CONTROL</i>	\$370,000	\$150,000	\$35,000	\$555,000
M180 Approach Sweeping	7,000	3,000	0	10,000
M181 Curb Sweeping	200,000	50,000	0	250,000
M182 Freeway Sweeping	0	0	0	0
M183 Sweeping Contracts	15,000	0	0	15,000
M184 Sweeping Disposal	35,000	8,000	0	43,000
<i>132 SWEEPING AND FLUSHING</i>	\$257,000	\$61,000	\$0	\$318,000
M190 R.O.W. Fence Repair	5,000	2,500	35,000	42,500
<i>137 R.O.W. FENCE REPAIR</i>	\$5,000	\$2,500	\$35,000	\$42,500
M200 Other Routine Maintenance	25,000	25,000	15,000	65,000
<i>139 OTHER ROUTINE MAINTENANCE</i>	\$25,000	\$25,000	\$15,000	\$65,000
M210 Maintain Snow Route RT	850,000	100,000	475,000	1,425,000
M211 Maintain Snow Route OT	1,200,000	180,000	535,264	1,915,264
M212 Scrape/Salt Non-Route Road RT	25,000	700,000	0	725,000
M213 Scrape/Salt Non-Route Road OT	2,000	210,000	0	212,000
M214 Erect/Remove Snow Fence	50,000	25,000	5,000	80,000
M215 Winter Maintenance Contract	40,000	0	0	40,000
M216 Anti-Ice System	0	0	5,000	5,000
M220 Night Patrol	30,000	2,000	75,000	107,000
M230 Other Winter Maintenance	12,000	20,000	400,000	432,000
<i>141 SNOW AND ICE REMOVAL</i>	\$2,209,000	\$1,237,000	\$1,495,264	\$4,941,264



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ROAD MAINTENANCE COSTS

Activity Code & Description	Primary Road	Local Road	State Trunkline	Totals
M240 Bridge Repair	250,000	250,000	0	500,000
151 STRUCTURE MAINTENANCE	\$250,000	\$250,000	\$0	\$500,000
M250 Structure Painting	8,000	12,000	0	20,000
152 STRUCTURE PAINTING	\$8,000	\$12,000	\$0	\$20,000
M280 Emergency Road Maintenance	10,000	25,000	15,000	50,000
190 EMERGENCY ROAD MAINTENANCE	\$10,000	\$25,000	\$15,000	\$50,000
TOTAL FIELD BUDGET for MAINTENANCE	\$5,713,500	\$6,216,000	\$2,631,893	\$14,561,393
M500 Replace Steel Beam Guardrail RT	150,000	120,000	90,000	360,000
M501 Replace Steel Beam Guardrail OT	5,000	5,000	10,000	20,000
130 GUARDRAIL AND POST	\$155,000	\$125,000	\$100,000	\$380,000
M542 Pumphouse Energy	5,000	0	0	5,000
153 PUMPHOUSE ENERGY	\$5,000	\$0	\$0	\$5,000
M510 Sign Maintenance RT	250,000	275,000	151,000	676,000
M511 Sign Maintenance OT	22,850	30,000	14,500	67,350
M512 Sign Shop Work RT	0	0	0	0
M513 Sign Shop Work OT	0	0	0	0
M514 Overhead Signs - Electrical	1,000	0	4,000	5,000
M515 Overhead Signs - Non Electrical	1,000	0	500	1,500
M516 Other Traffic Maintenance	205,000	0	50,000	255,000
160 TRAFFIC SIGNS	\$479,850	\$305,000	\$220,000	\$1,004,850
M520 Relamp Electrical Device 3 Man	75,000	0	48,000	123,000
M521 Relamp Electrical Device 2 Man	35,000	0	21,000	56,000
M522 Signal Trouble Call RT	50,000	0	15,000	65,000
M523 Signal Trouble Call OT	110,000	0	35,000	145,000
M524 Controller Maintenance	100,000	0	30,000	130,000
M527 Signal Operations Adjustment	8,000	0	9,000	17,000
M528 Remove/Replace Signals	14,000	0	2,000	16,000
M529 Emergency Signal Remove/Repair RT	20,000	0	15,000	35,000
M530 Emergency Signal Remove/Repair OT	78,500	0	40,000	118,500



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ROAD MAINTENANCE COSTS

Activity Code & Description	Primary Road	Local Road	State Trunkline	Totals
M531 Install Signals	10,000	0	5,000	15,000
M532 Signal Shop Work	0	0	0	0
M533 Signal Modernization	0	0	0	0
M540 Signal Energy	330,000	10,500	1,500	342,000
<i>161 TRAFFIC SIGNALS</i>	<i>\$830,500</i>	<i>\$10,500</i>	<i>\$221,500</i>	<i>\$1,062,500</i>
M550 Traffic Counter Maintenance	2,000	10,000	0	12,000
<i>239 TRAFFIC COUNTER MAINTENANCE</i>	<i>\$2,000</i>	<i>\$10,000</i>	<i>\$0</i>	<i>\$12,000</i>
M560 Paint Guidelines RT	20,000	1,000	0	21,000
M561 Paint Guidelines OT	0	0	0	0
M562 Pavement Messages RT	5,000	8,000	0	13,000
M563 Pavement Messages OT	0	0	0	0
<i>162 PAVEMENT MARKINGS</i>	<i>\$25,000</i>	<i>\$9,000</i>	<i>\$0</i>	<i>\$34,000</i>
M570 Delineator Maintenance RT	2,000	500	10,000	12,500
M571 Delineator Maintenance OT	0	0	0	0
<i>164 DELINEATOR MAINTENANCE</i>	<i>\$2,000</i>	<i>\$500</i>	<i>\$10,000</i>	<i>\$12,500</i>
M580 Attenuator Maintenance RT	0	0	10,000	10,000
M581 Attenuator Maintenance OT	0	0	0	0
<i>165 ATTENUATOR MAINTENANCE</i>	<i>\$0</i>	<i>\$0</i>	<i>\$10,000</i>	<i>\$10,000</i>
TOTAL FIELD BUDGET for TRAFFIC	\$1,499,350	\$460,000	\$561,500	\$2,520,850



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CONSTRUCTION - PRIMARY ROADS and BRIDGES

<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. Dequindre Road - Burning Bush to Utica Road (NC 60% - HM 40%)</u>					
<i>Reconstruct and Widen</i>					
NC			505,560		505,560
HM			337,040		337,040
Total			842,600		842,600
				MCDR	842,600

<u>W. O. Dequindre Road - Long Lake to Burning Bush (NC 60% - HM 40%)</u>					
<i>Reconstruct and Widen</i>					
NC		90,000	660,000		750,000
HM		60,000	440,000		500,000
Total		150,000	1,100,000		1,250,000
				MCDR	1,250,000

<u>W. O. Garfield - Utica Road to 15 Mile Road</u>					
<i>Rehabilitation</i>					
HM		132,000	1,100,000		1,232,000
				STU	880,000
				FRASER	176,000
				MCDR	176,000

<u>W. O. Garfield - S. of Millar to 17 Mile Road</u>					
<i>Capital Preventative Maintenance</i>					
HM		152,000	1,015,000		1,167,000
				STU	812,000
				MCDR	355,000

Key Code: NC = New Construction; HM = Heavy Maintenance



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CONSTRUCTION - PRIMARY ROADS and BRIDGES

	<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. Metropolitan Parkway Service Drive at Conrail</u>						
<i>Resurface</i>						
HM	30,000		55,000	500,000		585,000
					STERLING HEIGHTS	292,500
					MCDR	292,500
<hr/>						
<u>W. O. Mound Road SB - M-59 to 19 Mile Road</u>						
<i>Capital Preventative Maintenance</i>						
HM			185,000	1,540,000		1,725,000
					NHPP	1,232,000
					STERLING HEIGHTS	246,500
					MCDR	246,500
<hr/>						
<u>W. O. North Avenue - M-59 to 21 Mile Road (NC 60% - HM 40%) - (Carry-over)</u>						
<i>Reconstruct and Widen</i>						
NC			450,000	3,000,000		3,450,000
HM			300,000	2,000,000		2,300,000
Total			750,000	5,000,000		5,750,000
					TEDFC	4,600,000
					MACOMB TWP	575,000
					MCDR	575,000
<hr/>						

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Macomb County Department of Roads

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CONSTRUCTION - PRIMARY ROADS and BRIDGES

	<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. Romeo Plank - N. of 21 Mile Road to 23 Mile Road (NC 60% - HM 40%)</u>						
<i>Reconstruct/Roundabout</i>						
NC	180,000					180,000
HM	120,000					120,000
Total	300,000					300,000
					MACOMB TWP	150,000
					MCDR	150,000
<u>W. O. Schoenherr - 8 Mile Road to 11 Mile Road</u>						
<i>Capital Preventative Maintenance</i>						
HM			450,000	3,750,000		4,200,000
					WARREN	2,100,000
					MCDR	2,100,000
<u>W. O. Schoenherr - S. of 15 Mile Road to Metropolitan Parkway</u>						
<i>Rehabilitate</i>						
HM	235,000		403,000	3,356,798		3,994,798
					STU	2,685,438
					STERLING HEIGHTS	654,680
					MCDR	654,680

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CONSTRUCTION - PRIMARY ROADS and BRIDGES

	<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. Shook Road at Clinton Harrison Drain - (Carry-over)</u>						
<i>Bridge Replacement</i>						
HM			280,000	1,865,000		2,145,000 B
					LOCAL BRIDGE	1,771,500
					MCDR	373,500
<u>W. O. 21 Mile Road - Schoenherr to Garfield</u>						
<i>Rehabilitate</i>						
HM	100,500		172,500	1,437,500		1,710,500
					STU	1,150,000
					MACOMB TWP	140,125
					SHELBY TWP	140,125
					MCDR	280,250
<u>W. O. 23 Mile Road - North Avenue to Fairchild (NC 60% - HM 40%) - (Carry-over)</u>						
<i>Reconstruct and Widen</i>						
NC	252,000	600,000	540,000	3,600,000		4,992,000
HM	168,000	400,000	360,000	2,400,000		3,328,000
Total	420,000	1,000,000	900,000	6,000,000		8,320,000
					TEDFC	5,520,000
					MACOMB TWP	1,400,000
					MCDR	1,400,000

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CONSTRUCTION - PRIMARY ROADS and BRIDGES

	<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. 25 Mile Road at Romeo Plank - (Carry-over)</u>						
<i>Construct Roundabout</i>						
HM			97,500	650,000		747,500
					MACOMB TWP	373,750
					MCDR	373,750
<hr/>						
<u>W. O. 29 Mile Road x Healy Brook Drain</u>						
<i>Bridge Replacement</i>						
HM	60,000	10,000	105,000	700,000		875,000 B
					MCDR	875,000
<hr/>						
<u>W. O. 29 Mile Road x Camp Brook Drain</u>						
<i>Bridge Replacement</i>						
HM	55,000	10,000	97,500	650,000		812,500
					MCDR	812,500
<hr/>						
<u>W. O. 2017 Bridge Inspection - Primary</u>						
<i>County Wide</i>						
HM				75,000		75,000 B
					MCDR	75,000
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CONSTRUCTION - PRIMARY ROADS and BRIDGES

	<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. 2017 MDOT Final Accountings</u>						
<i>County Wide</i>						
HM				100,000		100,000
					MCDR	100,000
<u>W. O. 2017 Pavement Preservation - Primary</u>						
<i>County Wide</i>						
HM	50,000		150,000	1,500,000		1,700,000
					MCDR	1,700,000
<u>W. O. 2017 Rural Road Resurfacing</u>						
<i>County Wide</i>						
HM	19,440		33,560	324,000		377,000
					STR	259,200
					MCDR	117,800
<u>W. O. 2017 Survey & Design</u>						
<i>County Wide</i>						
HM	300,000					300,000
					MCDR	300,000

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CONSTRUCTION - PRIMARY ROADS and BRIDGES

	<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. 2017 Guardrail Installation</u>						
<i>County Wide</i>						
HM	23,000		18,000	225,000		266,000
					MCDR	<u>266,000</u>
<u>W. O. 2017 Signal Modernizations</u>						
<i>County Wide</i>						
HM	27,000		29,000	360,000	180,000	596,000
					MCDR	<u>596,000</u>
<u>W. O. 2017 New Signals</u>						
<i>County Wide</i>						
HM	9,000		10,000	120,000	60,000	199,000
					MCDR	<u>199,000</u>
<u>W. O. 2017 LED Retrofit</u>						
<i>County Wide</i>						
HM	23,000		36,000	225,000		284,000
					MCDR	<u>284,000</u>

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CONSTRUCTION - PRIMARY ROADS and BRIDGES

	<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. 2017 Soil Borings</u>						
County Wide						
HM	3,000		4,000	23,000		30,000
					MCDR	30,000
<u>W. O. 2016 Safety Projects - (Carry-over)</u>						
Garfield, 12 Mile, 23 Mile - 6 Locations						
HM	68,000		12,000	75,000		155,000
					HSIP	75,000
					MCDR	80,000
<u>W. O. 2016 Safety Projects - (Carry-over)</u>						
Van Dyke, Schoenherr, Hayes, Chesterfield - 7 Locations						
HM	58,000		11,000	64,000		133,000
					HSIP	64,000
					MCDR	69,000
<u>W. O. 2016 Safety Projects - (Carry-over)</u>						
Harper, 14 Mile, 18 Mile, 19 Mile, 24 Mile - 6 Locations						
HM	64,000		12,000	70,000		146,000
					HSIP	70,000
					MCDR	76,000

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CONSTRUCTION - PRIMARY ROADS and BRIDGES

<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. 2016 Congestion Mitigation & Air Quality - (Carry-over)</u>					
<i>Communications Load Distribution</i>					
HM		134,000	1,337,000		1,471,000
				CMAQ	1,215,000
				MCDR	256,000
<hr/>					
<u>W. O. 2016 Congestion Mitigation & Air Quality - (Carry-over)</u>					
<i>Traffic Surveillance Cameras</i>					
HM		43,000	426,000		469,000
				CMAQ	387,000
				MCDR	82,000
<hr/>					
<u>W. O. 2016 Congestion Mitigation & Air Quality - (Carry-over)</u>					
<i>Wireless Interconnect</i>					
HM		28,000	273,000		301,000
				CMAQ	248,000
				MCDR	53,000
<hr/>					

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Macomb County Department of Roads

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CONSTRUCTION - PRIMARY ROADS and BRIDGES

	<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. 2017 Congestion Mitigation & Air Quality</u>						
<i>Traffic Signal Optimizations</i>						
HM				623,000		623,000
					CMAQ	623,000
<u>W. O. 2017 Congestion Mitigation & Air Quality</u>						
<i>Traffic Signal Upgrades - 19 Mile Road and Kelly</i>						
HM	28,000		10,000	61,000		99,000
					CMAQ	61,000
					MCDR	38,000
<u>W. O. 2017 Congestion Mitigation & Air Quality</u>						
<i>Traffic Surveillance Cameras</i>						
HM	21,000		8,000	46,000		75,000
					CMAQ	46,000
					MCDR	29,000
<u>W. O. 2017 Congestion Mitigation & Air Quality</u>						
<i>Wireless Interconnect</i>						
HM	16,000		6,000	36,000		58,000
					CMAQ	36,000
					MCDR	22,000

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CONSTRUCTION - PRIMARY ROADS and BRIDGES

	<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. 2017 Congestion Mitigation & Air Quality</u>						
<i>Communication Load Distributions</i>						
HM	50,000		28,000	174,000		252,000
					CMAQ	174,000
					MCDR	78,000
<hr/>						
<u>W. O. 2017 Congestion Mitigation & Air Quality</u>						
<i>Advance Traffic Management System Software</i>						
HM	35,000		20,000	385,000		440,000
					CMAQ	385,000
					MCDR	55,000
<hr/>						
<u>W. O. Signal Upgrades - RCOC</u>						
<i>Dequindre at 25 Mile</i>						
HM				50,000		50,000
					MCDR	50,000
<hr/>						

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CONSTRUCTION - PRIMARY ROADS and BRIDGES

<u>Design</u>	<u>R.O.W</u>	<u>Construction Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. 2017 Traffic Operations Center</u>					
<u>TOC Operations, Maintenance and Equipment</u>					
HM			2,375,000		2,375,000
				CMAQ	1,900,000
				MCDR	475,000

TOTALS . . . PRIMARY ROADS and BRIDGES

<u>\$1,994,940</u>	<u>\$1,020,000</u>	<u>\$4,522,060</u>	<u>\$38,453,898</u>	<u>\$240,000</u>	<u>\$46,230,898</u>
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Macomb County Department of Roads

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CONSTRUCTION - LOCAL ROADS and BRIDGES

	<u>Design</u>	<u>R-O-W</u>	<u>Constr Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. Fairchild & Omo - 24 Mile to 26 Mile</u>						
<i>Pave Gravel/Resurface</i>						
HM	296,000	50,000	504,000	3,700,000		4,550,000
					MACOMB TWP	2,730,000
					MCDR	1,820,000
<hr/>						
<u>W. O. Hayes Road - North of 25 Mile to Price Brook Drain - (Carry-over)</u>						
<i>Pave Gravel</i>						
HM			112,500	750,000		862,500
					MACOMB TWP	258,750
					SHELBY TWP	258,750
					MCDR	345,000
<hr/>						
<u>W. O. Mt. Vernon - Stony Creek</u>						
<i>Bridge Replacement</i>						
HM	55,000	5,000	82,500	550,000		692,500 B
					LOCAL BRIDGE	522,500
					MCDR	170,000
<hr/>						
<u>W. O. South Lakeshore x Canal - (Carry-over)</u>						
<i>Bridge Replacement</i>						
HM			129,400	862,100		991,500 B
					LOCAL BRIDGE	767,000
					HARRISON TWP	112,250
					MCDR	112,250
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Macomb County Department of Roads

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CONSTRUCTION - LOCAL ROADS and BRIDGES

	<u>Design</u>	<u>R-O-W</u>	<u>Constr Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. 28 Mile Road x N. Branch Clinton River</u>						
<i>Bridge Replacement</i>						
HM	10,000		450,000	3,250,000		3,710,000 B
					MCDR	<u>3,710,000</u>
<u>W. O. 31 Mile Road x Stony Creek - (Carry-over)</u>						
<i>Bridge Replacement</i>						
HM			50,000	350,000		400,000 B
					MCDR	<u>400,000</u>
<u>W. O. 33 Mile Road at M-53</u>						
<i>Intersection Improvement</i>						
NC	200,000					200,000
					MCDR	<u>200,000</u>
<u>W. O. 2017 - Bridge Inspection - Local</u>						
<i>County Wide</i>						
HM				75,000		75,000 B
					MCDR	<u>75,000</u>

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CONSTRUCTION - LOCAL ROADS and BRIDGES

<u>Design</u>	<u>R-O-W</u>	<u>Constr Engineering</u>	<u>Contract</u>	<u>Sign & Signal</u>	<u>Totals & Financing</u>
<u>W. O. 2017 Limestone Program - Local</u>					
County Wide					
HM			1,170,000		1,170,000
				TOWNSHIPS	117,000
				MCDR	1,053,000
<hr/>					
<u>W. O. 2017 Pavement Preservation - Local</u>					
County Wide					
HM	50,000	150,000	1,500,000		1,700,000
				MCDR	1,700,000
<hr/>					
<u>W. O. 2017 Subdivision Reconstruction</u>					
County Wide					
HM	224,000	480,000	3,296,000		4,000,000
				TOWNSHIPS	2,000,000
				MCDR	2,000,000
<hr/>					
TOTALS . . . LOCAL ROADS and BRIDGES					
<u>\$835,000</u>	<u>\$55,000</u>	<u>\$1,958,400</u>	<u>\$15,503,100</u>	<u>\$0</u>	<u>\$18,351,500</u>

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