STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 7
RAISED PAVEMENT MARKERS
D07-RPM-FY2012

INDEX

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AUG-VAR
CHP-VAR
CLA-VAR
DAR-VAR
LOG-VAR
MER-VAR
MIA-VAR
MOT-VAR
SHE-VAR

Project Earth Disturbed Area = N/A (Maintenance Project)
Estimated Contractor Earth Disturbed Area = N/A (Maintenance Project)
Notice of Intent Earth Disturbed Area = N/A (Maintenance Project)

2010 SPECIFICATIONS

The Standard 2010 Specifications of the State of Ohio, Department of Transportation, including changes and Supplemental Specifications listed in the plans and proposal shall govern these improvements.

I hereby approve these plans and declare that the making of these improvements will not require the closing to traffic of the highways and provisions for the maintenance and safety of traffic will be as set forth on plans and estimates.

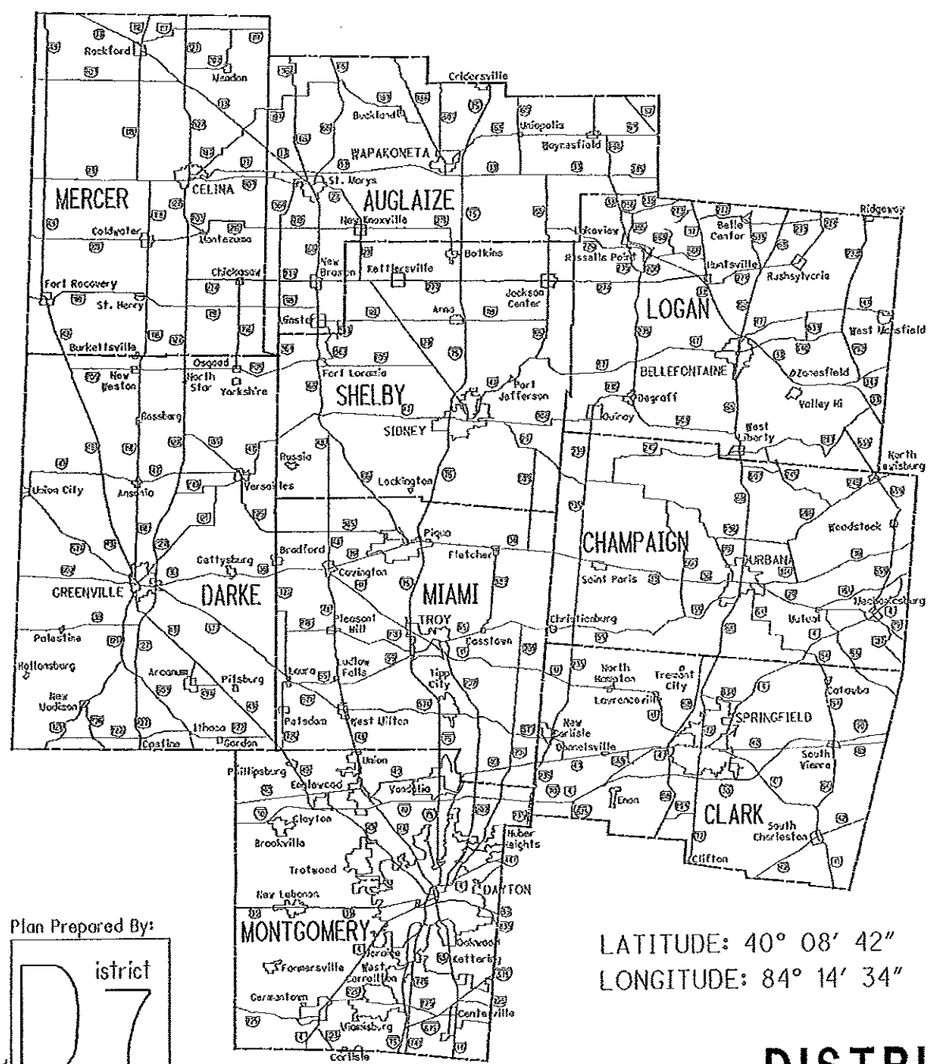
1-26-12 — Randy Chevalley, P.E., P.S. / PRN
Date Approved — District Deputy Director

2-17-12 — Jerry Wray
Date Approved — Director, Department of Transportation

Supplemental Specifications	
800	01-20-12
832	05-05-09

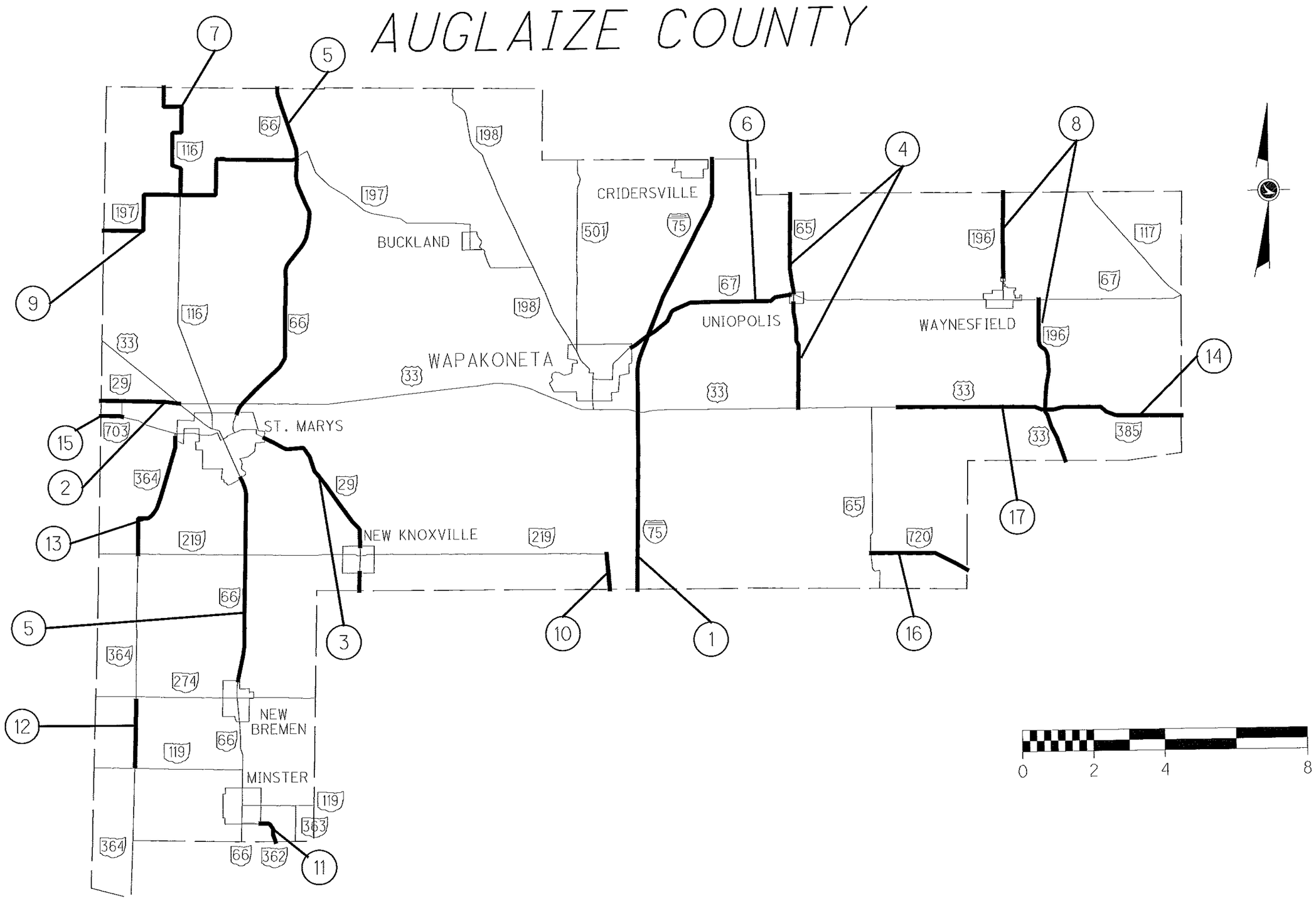
Standard Construction Drawings

DM-4.3	4-17-09	MT-35.10	4-20-01	TC-65.10	1-21-05
DM-4.4	4-17-09			TC-65.11	1-21-05
		MT-95.30	7-17-09		
		MT-95.31	7-17-09		
		MT-95.32	7-17-09		
		MT-97.10	10-15-10		


MERCER
AUGLAIZE
LOGAN
SHELBY
CHAMPAIGN
DARKE
MIAMI
CLARK
MONTGOMERY
Rockford
Celina
St. Marys
Wapakoneta
Bellefontaine
Urbana
Springfield
Greenville
Troy
Sidney
Piqua
Dayton
Xenia
Kettlersville
Botkins
Jackson Center
Fort Recovery
Coldwater
Minster
Anna
Lockington
Tipp City
Miamisburg
Centerville
Kettering
Fairborn
Beavercreek
Huber Heights
Vandalia
Englewood
Clayton
Brookville
Trotwood
New Lebanon
Germantown
Miamisburg
Carlisle
Franklin
Springboro
Lewisburg
Eaton
Camden
Oxford
Hamilton
Fairfield
Middletown
Monroe
Lebanon
Mason
Loveland
Milford
Batavia
Bethel
Tipp City
Troy
Piqua
Covington
Bradford
Fletcher
Tremont City
Springfield
Cedarville
Yellow Springs
Xenia
Fairborn
Beavercreek
Kettering
Centerville
Miamisburg
Dayton
Huber Heights
Vandalia
Tipp City
Troy
Piqua
Sidney
Lockington
Anna
Jackson Center
Botkins
Kettlersville
New Bremen
Minster
Fort Recovery
Coldwater
Celina
St. Marys
Wapakoneta
Bellefontaine
Urbana
Springfield

2012 RAISED PAVEMENT MARKER LOCATION MAP

AUGLAIZE COUNTY



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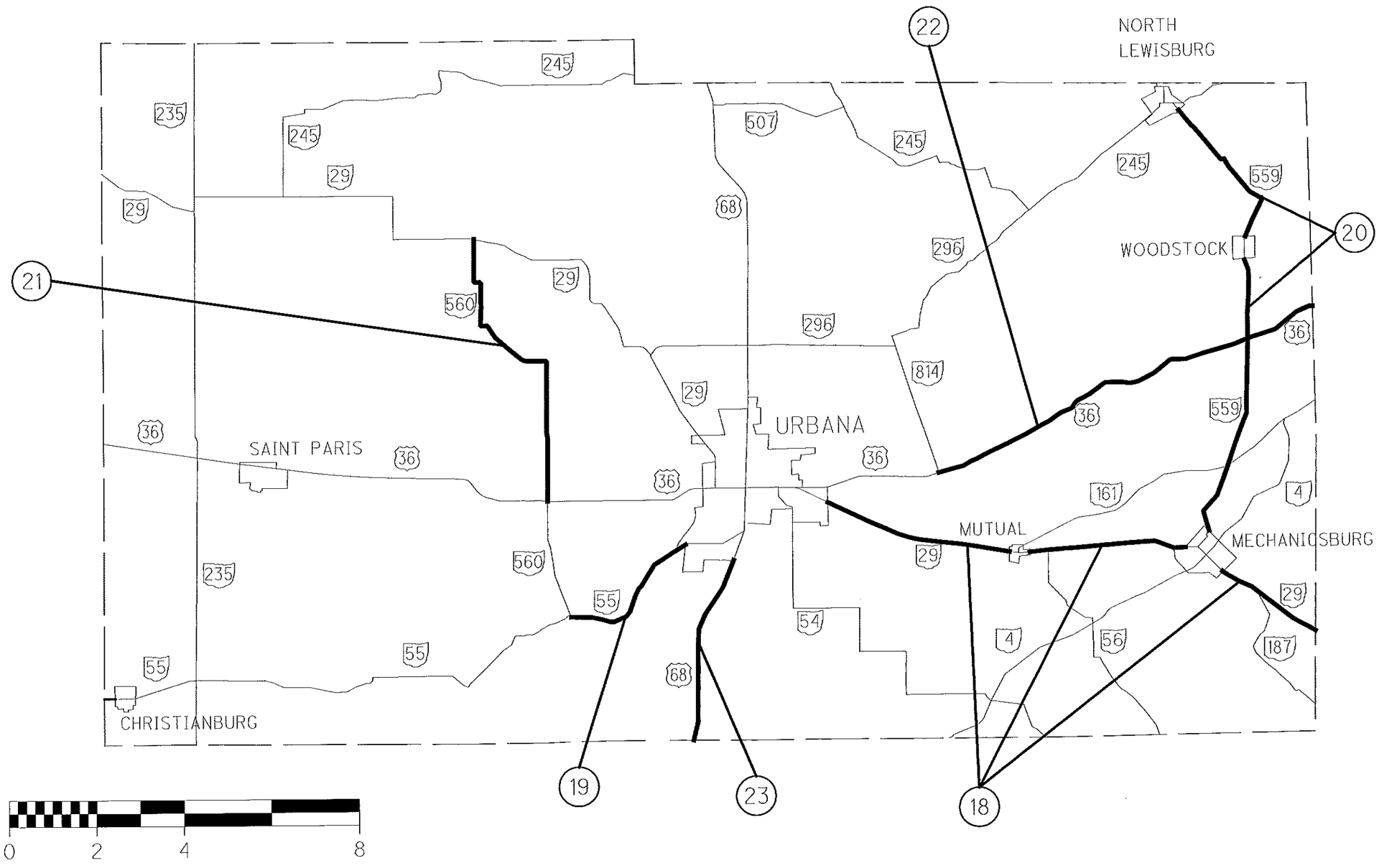
LOCATION MAP

D07-RPM-FY12

2012 RAISED PAVEMENT MARKER LOCATION MAP

CHAMPAIGN COUNTY



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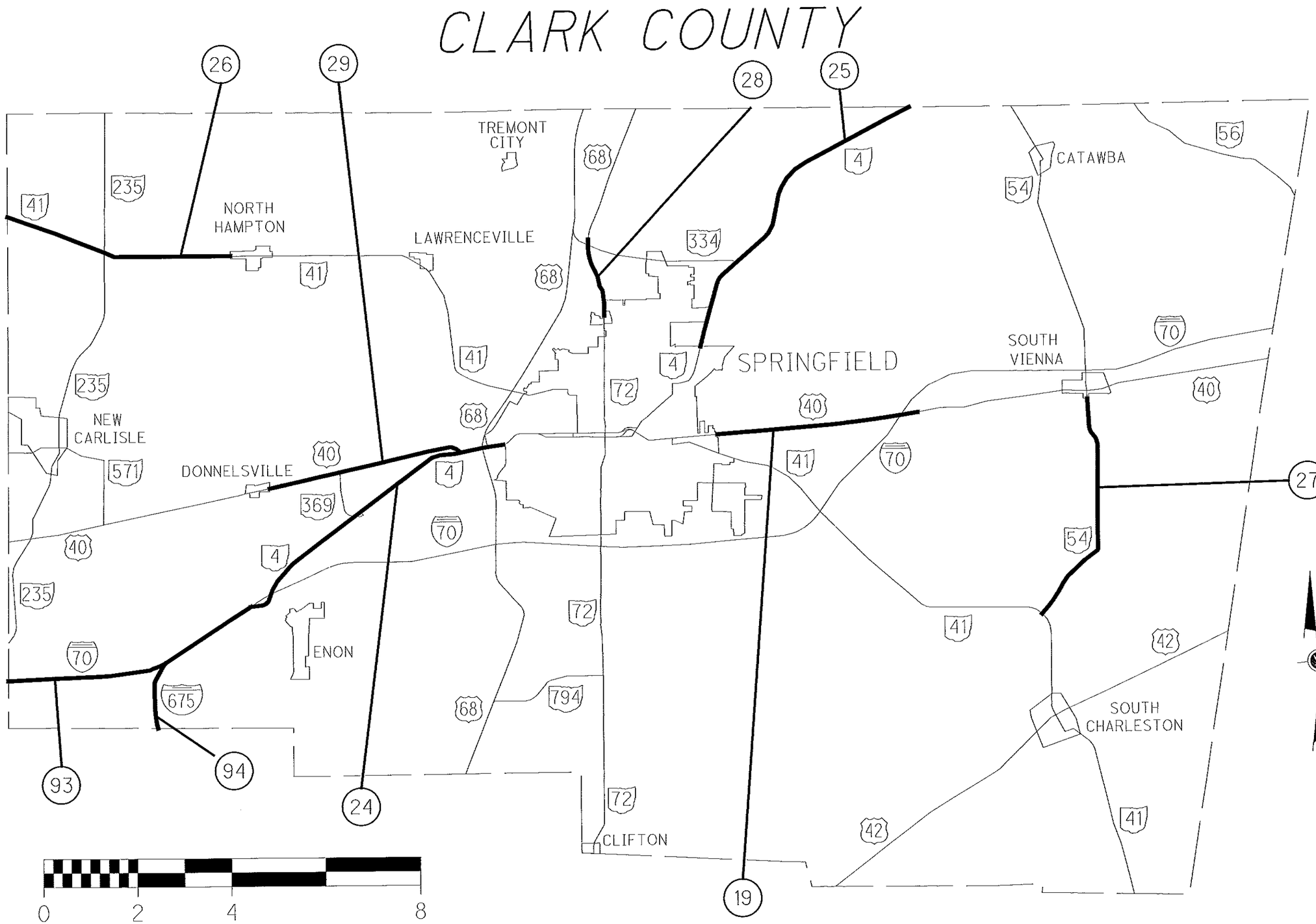
LOCATION MAP

D07-RPM-FY12

3/25

2012 RAISED PAVEMENT MARKER LOCATION MAP



CALCULATED

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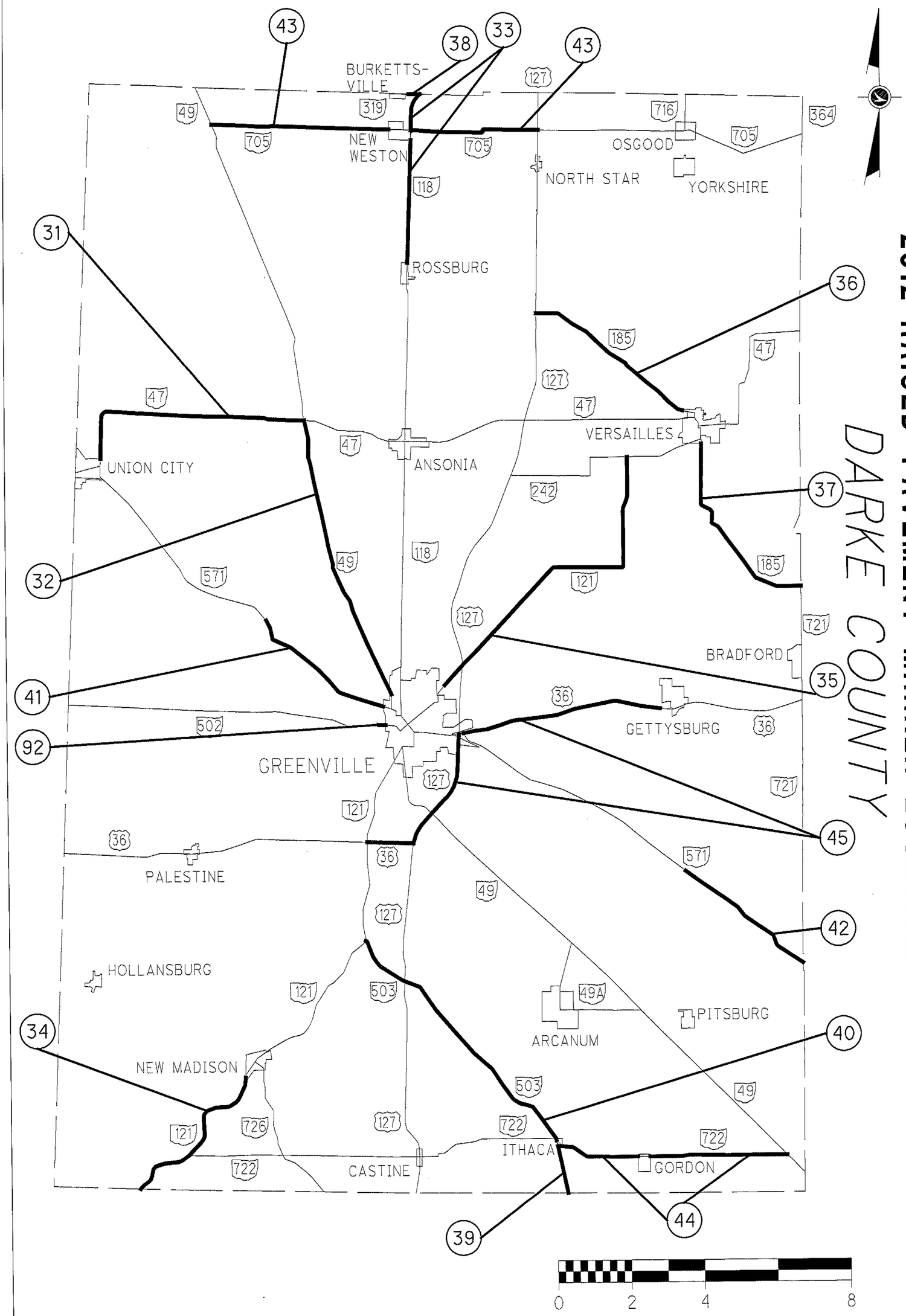
LOCATION MAP

D07-RPM-FY12

2012 RAISED PAVEMENT MARKER LOCATION MAP

DARKE COUNTY



5/25	D07-RPM-FY12	**LOCATION MAP**

CALCULATED

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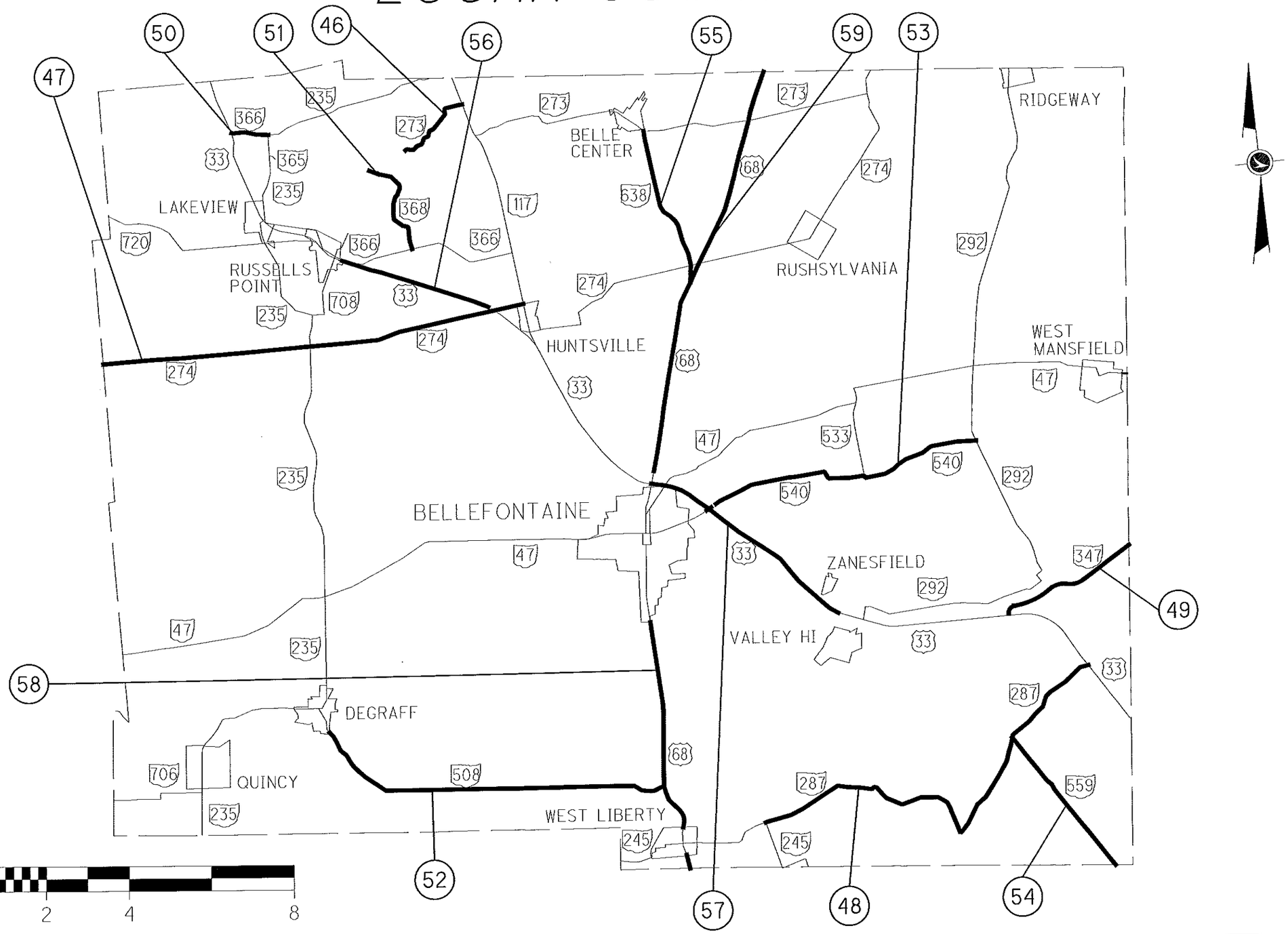
2012 RAISED PAVEMENT MARKER LOCATION MAP

LOGAN COUNTY



LOCATION MAP

D07-RPM-FY12

CALCULATED

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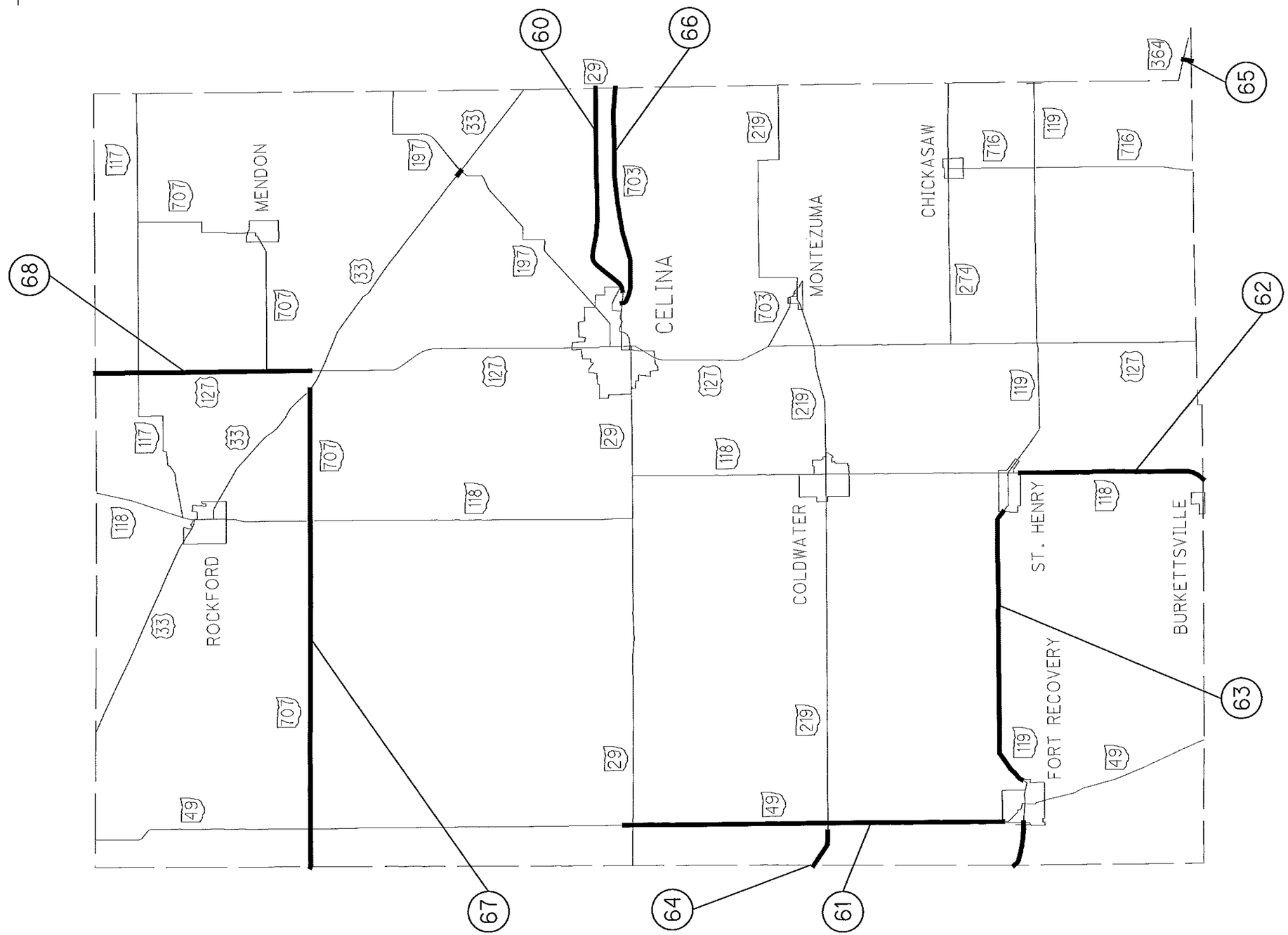
2012 RAISED PAVEMENT MARKER LOCATION MAP

MERCER COUNTY



CALCULATED

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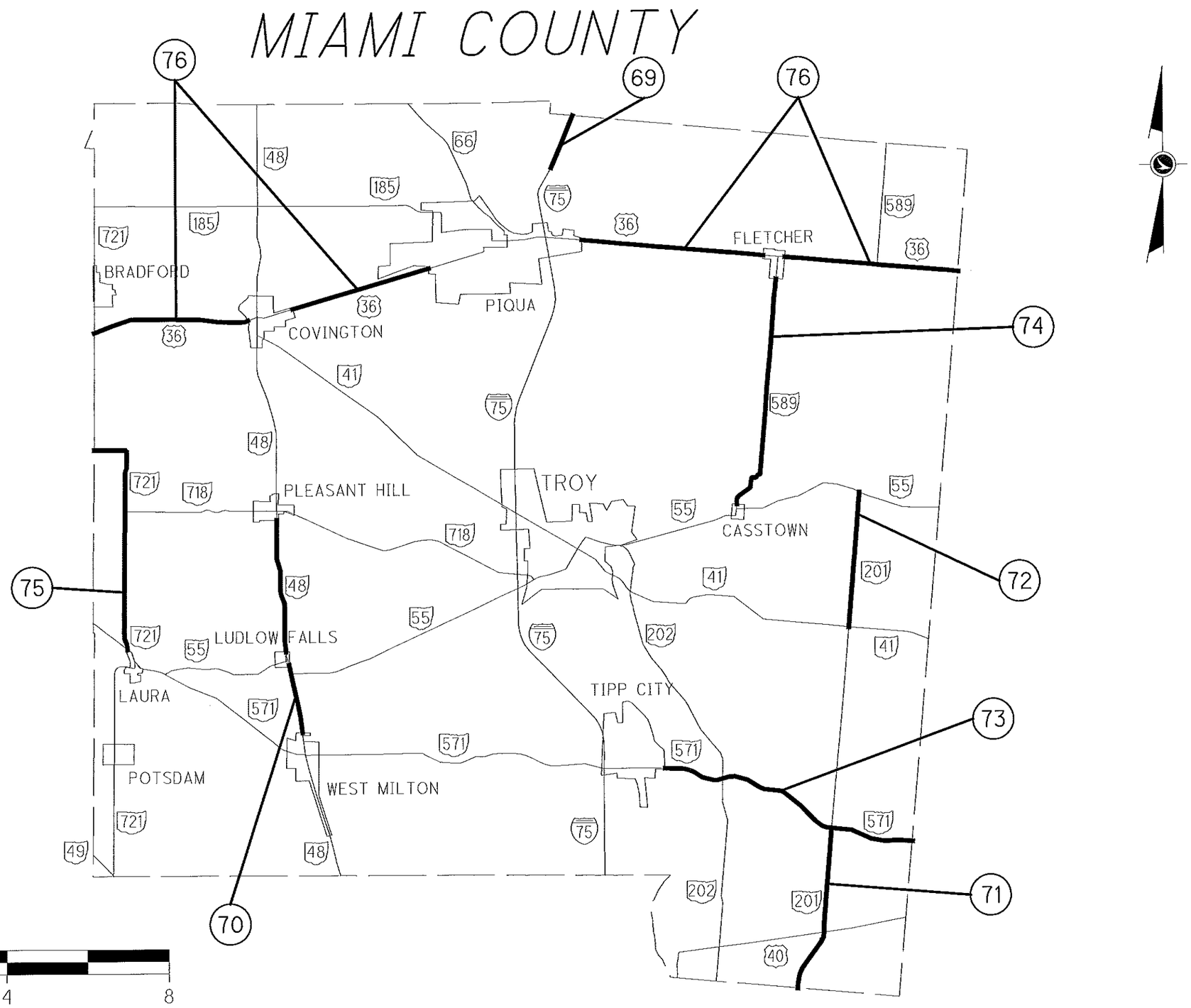
LOCATION MAP

D07-RPM-FY12

2012 RAISED PAVEMENT MARKER LOCATION MAP



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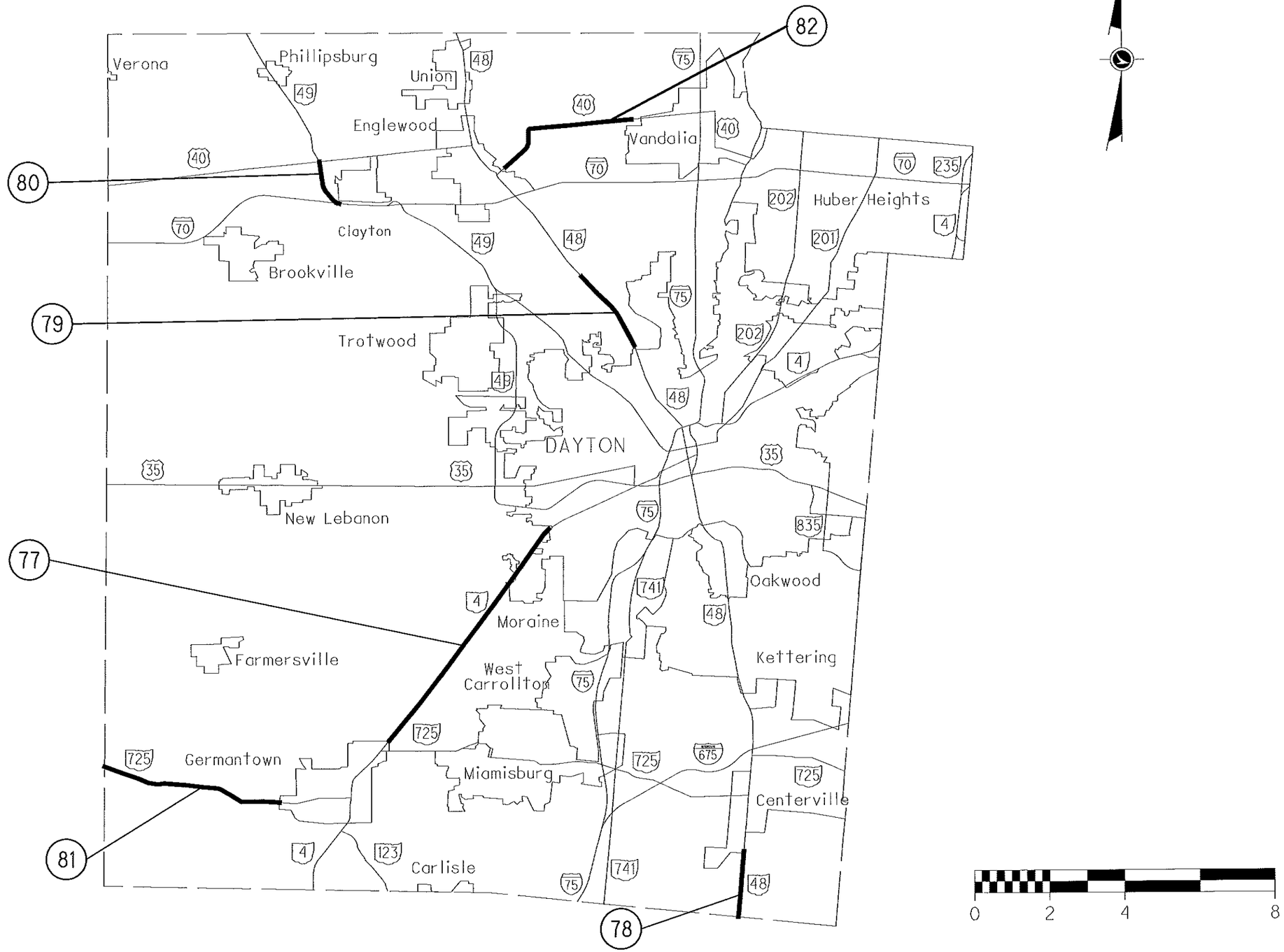
LOCATION MAP

D07-RPM-FY12

2012 RAISED PAVEMENT MARKER LOCATION MAP

MONTGOMERY COUNTY



CALCULATED

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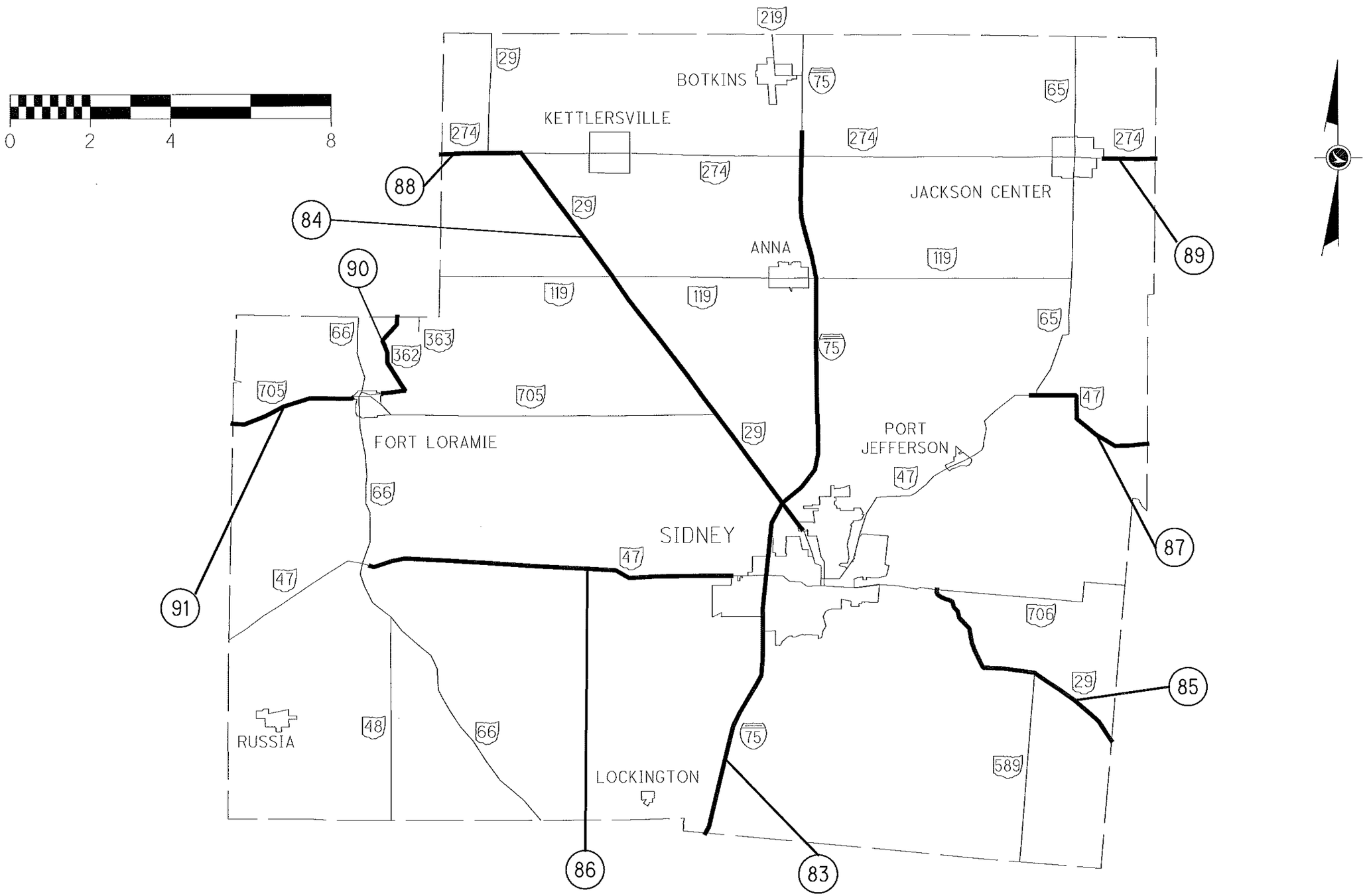
LOCATION MAP

D07-RPM-FY12

2012 RAISED PAVEMENT MARKER LOCATION MAP

SHELBY COUNTY



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CHECKED

LOCATION MAP

D07-RPM-FY12

10
25

ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN

Normal directional traffic shall be maintained on the roadway at all times during the construction period in accordance with Standard Construction Drawings and the Ohio Manual of Uniform Traffic Control Devices as approved by the Engineer.

For the purpose of Maintenance of Traffic on 6 lane roadways, divided or undivided, the method of operation shall be as follows:

1. The left lane shall be closed for installation of the RPM reflectors and/or castings between the left lane and middle lanes.

2. The right lane shall be closed for installation of the RPM reflectors and/or castings between the middle lane and the right lane. During this closure, the gore areas in the deceleration and acceleration lanes shall be installed.

3. Ramp RPM reflectors and/or castings shall be placed by maintaining traffic on half of the ramp at one time.

For the purpose of Maintenance of Traffic on a 4 lane roadways, divided or undivided, the method of operation shall be as follows:

1. The right lane shall be closed for the installation of RPM reflectors and/or castings between the left lane and right lane. During this closure, the gore areas in the deceleration and acceleration lanes shall be installed.

2. Ramp RPM reflectors and/or castings shall be placed by maintaining traffic on half of the ramp at one time.

Cones having a minimum height of 28 inches or weighted channelizing devices may be substituted for drums for daytime lane closures.

Provisions shall be made to safely stabilize the cones or weighted channelizing devices to prevent them from blowing over. If this cannot be achieved, drums shall be used.

At the completion of each working day, all signs and channelizing devices shall be removed from the roadway and the roadway opened to the normal flow of traffic.

The required lane closure shall remain in effect until the epoxy is set and all foreign matter or debris created by the installation of the RPM castings and/or RPM reflectors is removed from the roadway.

In addition to the requirements for traffic control as shown in the plans, the contractor shall provide flaggers at all public street and highway intersections within the limits of the work area. The Contractor shall also be required to provide flaggers at other points of access such as shopping centers or plant driveways. These flaggers shall be provided as determined by the Engineer.

Maintenance of Traffic shall be in accordance with Item 614 of the Construction and Material Specifications Book and shall include the following notes:

a) No work shall be performed and all existing lanes shall be open to traffic during the following designated holidays or events:

Christmas	Fourth of July
New Years	Labor Day
Memorial Day	Thanksgiving

The period of time that the lanes are to be open depends on the day of the week on which the holiday or event falls. The following schedule shall be used to determine this period:

Day of the Week	Time All Lanes Must Be Open to Traffic
Sunday	12:00N Friday through 6:00 AM Monday
Monday	12:00N Friday through 6:00 AM Tuesday
Tuesday	12:00N Monday through 6:00 AM Wednesday
Wednesday	12:00N Tuesday through 6:00 AM Thursday
Thursday	12:00N Wednesday through 6:00 AM Friday
Thursday (Thanksgiving Only)	12:00N Wednesday through 6:00 AM Monday
Friday	12:00N Thursday through 6:00 AM Monday
Saturday	12:00N Friday through 6:00 AM Monday

No extensions of time shall be granted for delays in material deliveries, unless such delays are industry-wide, or for labor strikes, unless such strikes are area-wide.

Should the Contractor fail to meet any of these requirements, the Contractor shall be assessed disincentives in accordance with CMS 108.07.

b) Lanes closures shall only be implemented at the times listed on the Ohio Department of Transportation's Permitted Lane Closure web site which is located at:

http://plcm.dot.state.oh.us

The permitted closure times listed on the website, 14 calendar days prior to the bid letting date, shall be in effect for this project.
No work within active travel lanes or which will slow traffic is permitted at any other times.

c) Lane closures shall be a maximum of 2 miles in length or as otherwise directed by the engineer.

d) Portable Changeable Message Sign: The use of Portable Changeable Message Sign shall be required on this project. The Portable Changeable Message Sign shall be within 1 / 2 to 1 mile in advance of the lane restriction on multilane divided and undivided at all times. The message on the sign shall be as directed by the Engineer.

The Contractor shall furnish, install, maintain and remove, when no longer needed, a changeable message sign. The sign shall be of a type shown on a list of approved PCMS units maintained by the Director (Office of Materials Management). The Approved List of Portable Changeable Message Signs can be found on the ODOT website by clicking on the SERVICES menu, then clicking on Materials Management. The list contains Class A and B units with minimum legibility distances of 650 ft. and 475 ft. respectively.

Each sign shall be trailer-mounted and equipped with a functional dimming mechanism, to dim the sign during darkness, and a tamper and vandal proof enclosure. Each sign shall be provided with appropriate training and operation instructions to enable on-site personnel to operate and troubleshoot the unit. The sign shall also be capable of being powered by an electrical service drop from a local utility company. PCMS trailers shall be delineated on a permanent basis by affixing conspicuity tape conforming to CMS 614.03, in a continuous line on the face of the trailer as seen by oncoming road users.

Placement, operation, maintenance and all activation of the signs by the Contractor shall be as directed by the Engineer. The PCMS shall be located in a highly visible position yet protected from traffic. The Contractor shall, at the direction of the Engineer, relocate the PCMS to improve visibility or accommodate changed conditions. When not in use, the PCMS shall be turned off. Additionally, when not in use for extended periods of time, the PCMS shall be turned, facing away from all traffic, and shall display one or more Type G yellow retroreflective sheeting surfaces of 9-inch by 15-inch minimum size facing traffic.

The Engineer shall be provided access to each sign unit and shall be provided with appropriate training and operation instructions to enable ODOT personnel to operate and troubleshoot the unit, and to revise sign messages, if necessary.

All messages to be displayed on the sign will be provided by the Engineer. A list of all required pre-programmed messages will be given to the Contractor at the project preconstruction conference. The sign shall have the capability to store up to 99 messages. Message memory or pre-programmed displays shall not be lost as a result of power failures to the on-board computer. The sign legend shall be capable of being changed in the field. Three-line presentation formats with up to six message phases shall be supported. PCMS format shall permit the complete message for each phase to be read at least twice.

The PCMS shall contain an accurate clock and programming logic which will allow the sign to be activated, deactivated or messages changed automatically at different times of the day for different days of the week.

The PCMS unit shall be maintained in good working order by the Contractor in accordance with the provisions of CMS 614.07. The Contractor shall, prior to activating the unit, make arrangements, with an authorized service agent for the PCMS, to assure prompt service in the event of failure. Any failure shall not result in the sign being out of service for more than 12 hours, including weekends. Failure to comply may result in an order to stop work and open all traffic lanes and/or in the Department taking appropriate action to safely control traffic. The entire cost to control traffic, accrued by the Department due to the Contractor's noncompliance, will be deducted from moneys due, or to become due the Contractor on his contract.

The Contractor shall be responsible for 24-hour-per-day operation and maintenance of these signs on the project for the duration of the phases when the plan requires their use.

Payment for all of the above including providing, erecting, maintaining, and removing all lights, signs, barricades, drums, cones, portable changeable message sign and all other traffic control devices, shall be included in the lump sum bid Item 614 Maintaining Traffic, As Per Plan.

Item 614 - Law Enforcement Officer (With Patrol Car) for Assistance During Construction Operations

Use of Law Enforcement Officers (LEOs) by contractors other than the uses specified below will not be permitted at project cost. LEOs should not be used where the OMUTCD intends that flaggers be used.

In addition to the requirements of CMS 614 and the OMUTCD, a uniformed LEO with an official patrol car (car with top-mounted emergency flashing lights and complete markings of the appropriate law enforcement agency) shall be provided for the following traffic control tasks:

* During the entire advance preparation and closure sequence where complete blockage of traffic is required.

* During a traffic signal installation when impacting the normal function of the signal or the flow of traffic or when traffic needs to be directed through an energized traffic signal contrary to the signal display (e.g., directing motorists through a red light).

In addition to the requirement of CMS 614 and the OMUTCD, a uniformed LEO with an official patrol car (car with top-mounted emergency flashing lights and complete markings of the appropriate law enforcement agency) should be provided for the following traffic control tasks:

* For lane closures: during initial set-up periods, tear down periods, substantial shifts of a closure point or when new lane closure arrangements are initiated for long-term lane closures/shifts (for the first and last day of major changes in traffic control setup). In general, LEOs should be positioned at the point of lane restriction or road closure and to manually control traffic movements through intersections in work zones.

* When construction vehicles are entering/exiting the zone directly from/into an open lane of traffic. If a lane has been closed to provide an acceleration/deceleration lane for the vehicle, the LEO will not be required.

LEOs should not forgo their traffic control responsibilities to apprehend motorists for routine traffic violations. However, if a motorist's actions are considered to be reckless, then pursuit of the motorist is appropriate.

The LEOs work at the direction of the Contractor. The Contractor is responsible for securing the services of the LEOs with the appropriate agencies and communicating the intentions of the plans with respect to duties of the LEOs. The Engineer shall have final control over the LEOs' duties and placement, and will resolve any issues that may arise between the two parties.

The LEO shall report in to the Contractor prior to the start of the shift, in order to receive instructions regarding specific work assignments during his/her shift. The LEO is expected to stay at the project site for the entire duration of his/her shift. The LEO shall report to the Contractor at the end of his/her shift. Once the LEO has completed the duties described above and still has time remaining on his/her shift, the LEO may be asked to patrol through the work zone (with flashing lights off) or be placed at a location to deter motorists from speeding. Should it be necessary to leave the project site, the LEO shall notify the Engineer. The Contractor shall provide the LEO with a two-way communication device which shall be returned to the Contractor at the end of his/her shift.

LEOs (with patrol car) required by the traffic maintenance tasks above shall be paid for on a unit price (hourly) basis under Item 614, Law Enforcement Officer (With Patrol Car) for Assistance. The following estimated quantities have been carried to the General Summary.

Item 614, Law Enforcement Officer With Patrol Car for Assistance 50 Hours

The hours paid shall include any minimum show-up time required by the law enforcement agency involved.

Any additional costs (administrative or otherwise) incurred by the Contractor to obtain the services of an LEO are included with the bid unit price for Item 614, Law Enforcement Officer With Patrol Car for Assistance

ITEM 614 MAINTAINING TRAFFIC ALTERNATE METHOD

The Contractor may submit detailed traffic control plans including written descriptions of the alternate methods for the maintenance of traffic, provided the intent of the above provisions is followed and no additional inconvenience to the traveling public results therefrom. No alternate plan shall be placed into effect until prior approval has been granted in writing, by the Director.

ITEM 621 RPM, AS PER PLAN

The Contractor shall install a complete RPM which includes both the casting and reflector in place at the following location:

LOC 31	DAR	SR-47	SLM 1.90 to 2.40	33 Y/Y each	Fed Aid Rural
LOC 92	DAR	SR-502	SLM 8.40 to 8.80	27 Y/Y each	Fed Aid Rural

LOCATION SUB-SUMMARY

DETAIL	
1	MAINLINE UNDIVIDED
1	TYPICAL SPACING
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIV./EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	1 LANE APPR. W/LT. LANE
8	THRU APPROACH
9	2 LANE APPR. W/LT. LANE
10	4 LANE DIV. TO 2 LANE TRANS.
11	4 LANE UNDIV. TO 2 LANE TRANS.

DETAIL	
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE
16	HORIZONTAL CURVE ALT.

DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
			S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
	COUNTY	ROUTE	FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
1	AUG	IR-75	0.00	12.52	5	1305						1305					SHELBY COUNTY LINE TO ALLEN CO LINE
1	AUG	IR-75	0.00	12.52	2,3	438									173	265	US-33, CR-33A, SR-67, REST AREAS, NATIONAL RD INTGS
2	AUG	SR-29	0.00	2.48	5				146	182					328		MERCER COUNTY LINE TO US-33 INTG
2	AUG	SR-29	0.00	2.48	2,3				87	259					121	225	SR-364 (R), US-33 INTGS(O)
3	AUG	SR-29	5.03	10.95	GAP.16				358	106		45		409	10		ST MARYS ECL TO SHELBY COUNTY LINE
4	AUG	SR-65	7.35	10.29	GAP,16				248			16		232			US-33 TO UNIOPOLIS SCL
4	AUG	SR-65	10.69	13.36	GAP				176					176			UNIOPOLIS NCL TO ALLEN CO LINE
5	AUG	SR-66	4.57	10.69	GAP,8				326	79				405			NEW BREMEN NCL TO ST MARYS SCL
5	AUG	SR-66	12.65	22.41	GAP,16				629	78				655	52		ST MARYS NCL TO ALLEN CO LINE
6	AUG	SR-67	2.82	7.85	GAP,15				309	44				345	8		WAPAKONETA ECL TO UNIOPOLIS WCL
7	AUG	SR-116	7.24	11.08	GAP,6,						410	144		266			SR-197 TO VAN WERT CO LINE
8	AUG	SR-196	0.00	7.17	GAP,6				402			32		370			US-33/SR-385 TO ALLEN CO LINE
9	AUG	SR-197	0.00	7.44	GAP,6				597			80		517			MERCER CO LINE TO SR-66

CALCULATED

CHECKED

LOCATION SUB-SUMMARY

D07 - RPM - FY12

1/13/2012

LOCATION SUB-SUMMARY

DETAIL	
1	MAINLINE UNDIVIDED
1	TYPICAL SPACING
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIV./EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	1 LANE APPR. W/LT. LANE
8	THRU APPROACH
9	2 LANE APPR. W/LT. LANE
10	4 LANE DIV. TO 2 LANE TRANS.
11	4 LANE UNDIV. TO 2 LANE TRANS.

DETAIL	
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE
16	HORIZONTAL CURVE ALT.

DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
			S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
	COUNTY	ROUTE	FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
10	AUG	SR-219	14.08	15.26	6,8,GAP				93			14		79			CR-25A TO SHE COUNTY LINE
11	AUG	SR-362	0.00	0.79	15,GAP				95					95			SHE CO LINE TO MINSTER SCL
12	AUG	SR-364	3.86	5.47	GAP						106			106			0.15 N SR-119 TO 0.15 S SR-274
13	AUG	SR-364	9.73	13.40	6.GAP				303	3		16		290			SR-219 TO ST MARYS SCL
14	AUG	SR-385	0.00	3.93	GAP,6						324	16		308			US-33 TO HARDIN CO LINE
15	AUG	SR-703	0.00	0.59	GAP,8					37				37			MER CO LINE TO SR-364
16	AUG	SR-720	0.00	2.81	GAP,6						221	16		205			SR-65 TO LOG CO LINE
17	AUG	US-33	23.05	29.20	GAP,6		447					17		430			MP23 TO LOG CO LINE
TOTAL FOR AUGLAIZE COUNTY						1743	447		3769	788	1061	1701		4925	692	490	

CALCULATED
CHECKED

LOCATION SUB-SUMMARY

D07 - RPM - FY12

1/13/2012

LOCATION SUB-SUMMARY

DETAIL	
1	MAINLINE UNDIVIDED
1	TYPICAL SPACING
2	TAPERED ACCELERATION LANE
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DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
			S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
	COUNTY	ROUTE	FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
18	CHP	SR-29	21.89	26.26	GAP				272	16				288			URBANA ECL TO MUTUAL WCL
18	CHP	SR-29	26.75	30.06	GAP				220					220			MUTUAL ECL TO MECHANICSBURG WCL
18	CHP	SR-29	31.37	33.95	GAP				178					178			MECHANICSBURB ECL TO MAD CO LINE
19	CHP	SR-55	11.70	15.07	GAP,16				255	1				256			SR-560 TO URBANA WCL
20	CHP	SR-559	0.92	7.35	GAP,6				568			64		504			MECHANICSBURG NCL TO WOODSTOCK SCL
20	CHP	SR-559	7.88	11.38	GAP,6				311			16		295			WOODSTOCK NCL TO N LEWISBURG SCL
21	CHP	SR-560	2.76	9.97	GAP,16						590	64		526			US-36 TO SR-29
22	CHP	US-36	19.53	29.05	GAP,16				672					672			SR-814 TO UNION COUNTY LINE
23	CHP	US-68	0.00	5.07	5.10,9		516						41	218	254	3	CLARKE COUNTY LINE TO URBANA SCL
TOTAL FOR CHAMPAIGN COUNTY							516		2476	17	590	144	41	3157	254	3	

CALCULATED

CHECKED

LOCATION SUB-SUMMARY

D07 - RPM - FY12

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1/13/2012

LOCATION SUB-SUMMARY

DETAIL	
1	MAINLINE UNDIVIDED
1	TYPICAL SPACING
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIV./EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	1 LANE APPR. W/LT. LANE
8	THRU APPROACH
9	2 LANE APPR. W/LT. LANE
10	4 LANE DIV. TO 2 LANE TRANS.
11	4 LANE UNDIV. TO 2 LANE TRANS.

DETAIL	
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE
16	HORIZONTAL CURVE ALT.

DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
			FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
93	CLA	IR-70	0.00	6.69	5	1135						1135					MONTGOMERY COUNTY LINE TO SR-4
93	CLA	IR-70	0.00	6.69	2,3	382									185	197	SR-235, IR-675, SR-4, ENON RD INTGS
94	CLA	IR-675	0.00	1.59	5	137						137					GREENE COUNTY LINE TO END ROUTE
94	CLA	IR-675	0.00	1.59	2,3,10	186							37		136	13	SR-444, IR-70, 4 TO 2 LANE TRANSITION
24	CLA	SR-4	5.56	11.34	5,2,3		591					515			60	11	IR-70 TO US-40
25	CLA	SR-4	17.65	24.85	6,9GAP				375	162		16		471	50		SPRINGFIELD ECL TO CHP CO LINE
26	CLA	SR-41	28.27	33.19	GAP,6				360			32		328			N HAMPTON NCL TO MIAMI CO LINE
27	CLA	SR-54	0.00	4.82	6,GAP				338			16		327			SR-41 TO S CORP SOUTH VIENNA
28	CLA	SR-72	11.56	13.25	5,2,3				250	203		107	14	33	299		SPRINGFIELD NCL TO SR-334
29	CLA	US-40	5.80	10.82	GAP,5		108		87	304				288	211		DONNELSVILLE ECL TO SPRINGFIELD WCL
30	CLA	US-40	18.74	19.74	5, 9				226					68	158		SPRINGFIELD ECL TO BOWMAN RD
TOTAL FOR CLARK COUNTY						1840	699		1636	669		1958	51	1515	1099	221	

CALCULATED | CHECKED

LOCATION SUB-SUMMARY

D07 - RPM - FY12

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1/13/2012

LOCATION SUB-SUMMARY

DETAIL	
1	MAINLINE UNDIVIDED
1	TYPICAL SPACING
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIV./EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	1 LANE APPR. W/LT. LANE
8	THRU APPROACH
9	2 LANE APPR. W/LT. LANE
10	4 LANE DIV. TO 2 LANE TRANS.
11	4 LANE UNDIV. TO 2 LANE TRANS.

DETAIL	
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE
16	HORIZONTAL CURVE ALT.

DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
			S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
	COUNTY	ROUTE	FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
31	DAR	SR-47	0.87	7.64	GAP,8				199					199			UNION ECL TO SR-49
32	DAR	SR-49	18.91	26.48	GAP,6				550	5		32		523			GREENVILLE WCL TO SR-47
33	DAR	SR-118	13.00	16.35	GAP				221					221			ROSSBURG NCL TO NEW WESTON SCL
33	DAR	SR-118	16.61	17.67	GAP				70					70			SR-705 TO SR-319
34	DAR	SR-121	0.00	4.74	GAP				314					314			PREBLE CO LINE TO NEW MADISON SCL
35	DAR	SR-121	18.11	22.34	6,7,GAP				48	102		32		112	6		GREENVILE NCL TO 0.11 S OLIVER RD
36	DAR	SR-185	0.00	4.49	6,GAP				367			16		351			US-127 TO VERSAILES NCL
37	DAR	SR-185	6.56	11.78	GAP,15				456					456			VERSAILLES SCL TO SR-721
38	DAR	SR-319	0.36	0.56	6						31	16		15			BURKETTSVILLE SCL TO SR-118
39	DAR	SR-503	0.00	1.36	GAP				90					90			PREBLE CO LINE TO ITHACA SCL
40	DAR	SR-503	1.57	9.29	GAP,15				454		143	48		549			ITHACA NCL TO SR-121
41	DAR	SR-571	6.86	11.12	15,GAP		326							326			COLETOWN LIGHTSVILLE RD TO GREENVILLE NCL
42	DAR	SR-571	20.67	24.82	15,GAP				346					346			300 FT W GETTYSBURG PITSBURG TO MIA CO L
43	DAR	SR-705	0.00	9.02	GAP,6				298		395	64		629			SR-49 TO US-127

CALCULATED
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LOCATION SUB-SUMMARY

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1/13/2012

LOCATION SUB-SUMMARY

DETAIL	
1	MAINLINE UNDIVIDED
1	TYPICAL SPACING
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIV./EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	1 LANE APPR. W/LT. LANE
8	THRU APPROACH
9	2 LANE APPR. W/LT. LANE
10	4 LANE DIV. TO 2 LANE TRANS.
11	4 LANE UNDIV. TO 2 LANE TRANS.

DETAIL	
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE
16	HORIZONTAL CURVE ALT.

DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
			S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
	COUNTY	ROUTE	FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
44	DAR	SR-722	10.48	12.65	16,GAP						193			193			ITHACA SCL TO GORDON WCL
44	DAR	SR-722	13.00	16.74	GAP,6						265	16		249			GORDON ECL TO SR-49
45	DAR	US-36	8.54	18.78	5,2,3				796	653		185	44	553	605	62	0.2 E SR-121 TO .18 W MILL RD
TOTAL FOR DARKE COUNTY							326		4209	760	1027	409	44	5196	611	62	
46	LOG	SR-273	0.00	2.02	15,6						274	16		258			LONG ISLAND PARK TO SR-117
47	LOG	SR-274	0.00	10.15	GAP,6				791			64		708	19		SHELBY CO LINE TO HUNTSVILLE CORP
48	LOG	SR-287	0.00	11.00	GAP,6						1215	32		1183			SR-245 TO CR-144
49	LOG	SR-347	0.64	3.71	1,6				535			32		216	287		US-33 TO UNION CO LINE
50	LOG	SR-366	0.00	0.91	6,GAP				103			38		65			US-33 TO SR-235
51	LOG	SR-368	0.00	2.59	GAP,15					264		32		232			SR-366 TO CR-272
52	LOG	SR-508	1.29	9.46	15,6				722			16		706			DEGRAFF ECL TO US-68

CALCULATED
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LOCATION SUB-SUMMARY

D07 - RPM - FY12

1/13/2012

LOCATION SUB-SUMMARY

DETAIL	
1	MAINLINE UNDIVIDED
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4	PARALLEL ACCELERATION LANE
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DETAIL	
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16	HORIZONTAL CURVE ALT.

DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
			S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
	COUNTY	ROUTE	FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
53	LOG	SR-540	1.45	1.85	6					132		78		54			EB TO WB RAMPS US-33
53	LOG	SR-540	2.25	8.71	16,GAP				745	29		16		758			BELLEFONTAINE ECL TO SR-292
54	LOG	SR-559	0.00	4.02	GAP,16						304	16		288			CHP CO LINE TO SR-287
55	LOG	SR-638	0.00	3.95	6,GAP						278	16		262			US-68 TO BELLE CENTER SCL
56	LOG	US-33	5.97	9.66	GAP		244							244			RUSSEL POINT ECL TO 0.12 W SR-274
57	LOG	US-33	15.78	21.51	5,2,3		690					504			80	106	NB EXIT RAMP US-68 TO 0.71 E CR-10 OVPS CR10 AND SR-540 INTGS
58	LOG	US-68	0.00	0.31	GAP		21							21			CHP CO LINE TO W LIBERTY SCL
58	LOG	US-68	2.39	6.00	GAP		253							253			W LIBERTY NCL TO BELLEFONTAIN SCL
59	LOG	US-68	10.38	20.26	GAP				646	8				654			BELLEFONTAINE NCL TO HARDIN CO LINE
TOTAL FOR LOGAN COUNTY							1208		3542	433	2071	860		5902	386	106	

CALCULATED
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LOCATION SUB-SUMMARY

D07 - RPM - FY12

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1/13/2012

LOCATION SUB-SUMMARY

DETAIL	
1	MAINLINE UNDIVIDED
1	TYPICAL SPACING
2	TAPERED ACCELERATION LANE
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GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
			S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
	COUNTY	ROUTE	FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
60	MER	SR-29	15.52	18.80	5				439	1					440		CELINA ECL TO AUG CO LINE
61	MER	SR-49	0.00	4.03	GAP				231					231			DARKE CO LINE TO FT RECOVERY SCL
61	MER	SR-49	5.05	14.09	GAP,6				631			32		599			FT RECOVERY NCL TO 0.15 N SR-29
62	MER	SR-118	0.00	3.91	6,GAP				275			16		259			DARKE CO LINE TO ST HENRY SCL
63	MER	SR-119	0.00	0.79	GAP				52					52			IND STATE LINE TO FT RECOVERY WCL
63	MER	SR-119	2.22	8.53	GAP				419					419			FT RECOVERY ECL TO ST HENRY WCL
64	MER	SR-219	0.00	0.94	GAP				76					76			IND STATE LINE TO 0.15 W SR-49
65	MER	SR-364	0.00	0.03	15						4			4			DARKE CO LINE TO AUG COUNTY LINE
66	MER	SR-703	6.48	11.23	GAP				193	120				313			CELINA ECL TO AUG CO LINE
67	MER	SR-707	0.00	11.29	GAP,6				869			83		786			INDIANA ST LINE TO US-33
68	MER	US-127	21.00	26.13	GAP,6				372			32		340			0.11 S CR-210 (MERCER RD) TO VAN WERT CO LINE
TOTAL FOR MERCER COUNTY									3557	121	4	163		3079	440		

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LOCATION SUB-SUMMARY

D07 - RPM - FY12

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1/13/2012

LOCATION SUB-SUMMARY

DETAIL	
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1	TYPICAL SPACING
2	TAPERED ACCELERATION LANE
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DETAIL	
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE
16	HORIZONTAL CURVE ALT.

DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
			S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
	COUNTY	ROUTE	FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
69	MIA	IR-75	18.00	19.95	5	171						171					CR-25A TO SHELBY COUNTY LINE
70	MIA	SR-48	4.50	5.29	GAP				52					52			WEST MILTON NCL TO LUDLOW FALLS SCL
70	MIA	SR-48	5.71	8.74	GAP				200					200			LUDLOW NCL TO PLEASANT HILL SCL
71	MIA	SR-201	0.00	4.15	GAP,6				292			48		244			MOT COUNTY LINE TO SR-571
72	MIA	SR-201	9.16	12.50	6,GAP				222			22		200			SR-41 TO SR-55
73	MIA	SR-571	16.50	22.07	GAP,7			8	384					376	16		TIPP CITY ECL TO CLARK CO LINE
74	MIA	SR-589	0.07	5.88	GAP				383					383			CASSTOWN NCL TO FLETCHER SCL
75	MIA	SR-721	6.17	11.85	6,15				437			32		405			SR-571 TO DARKE CO LINE
76	MIA	US-36	0.00	3.75	8,GAP				247					247			DARKE COUNTY LINE TO COVINGTON WCL
76	MIA	US-36	4.95	7.87	GAP				150	42				192			COVINGTON ECL TO PIQUA WCL
76	MIA	US-36	12.63	17.20	7,6,GAP				270	84		22	327	5			PIQUAL ECL TO FLETCHER WCL
76	MIA	US-36	17.73	22.02	GAP				285					285			FLETCHER ECL TO CHP CO LINE
TOTAL FOR MIAMI COUNTY						171		8	2922	126		295	327	2589	16		

CALCULATED

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LOCATION SUB-SUMMARY

D07 - RPM - FY12

1/11/2012

LOCATION SUB-SUMMARY

DETAIL	
1	MAINLINE UNDIVIDED
1	TYPICAL SPACING
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIV./EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	1 LANE APPR. W/LT. LANE
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9	2 LANE APPR. W/LT. LANE
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DETAIL	
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN
14	ONE LANE BRIDGE
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16	HORIZONTAL CURVE ALT.

DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
			S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
	COUNTY	ROUTE	FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
77	MOT	SR-4	4.48	7.13	GAP		175							175			GERMANTOWN NCL TO MORRAINE SCL
77	MOT	SR-4	8.13	11.88	GAP		247							247			MORRAINE NCL TO DAYTON SCL
78	MOT	SR-48	0.00	1.70	GAP,6,7			174						129	45		WARREN CO LINE TO CENTERVILLE SCL
79	MOT	SR-48	16.38	18.38	1,9			449						177	272		DAYTON NCL TO CLAYTON SCL
80	MOT	SR-49	10.73	12.12	5,6		279					32	17	18	212		IR-70 TO 0.15 N US-40
81	MOT	SR-725	0.00	4.85	GAP				263	71				334			PREBLE CO LINE TO GERMANTOWN WCL
82	MOT	US-40	11.12	13.34	GAP,6,7		1	204						184	21		CLAYTON ECL TO VANDALIA WCL
TOTAL FOR MONTGOMERY COUNTY							702	827	263	71		32	17	1264	550		

CALCULATED

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LOCATION SUB-SUMMARY

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1/11/2012

LOCATION SUB-SUMMARY

DETAIL	
1	MAINLINE UNDIVIDED
1	TYPICAL SPACING
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIV./EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	1 LANE APPR. W/LT. LANE
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9	2 LANE APPR. W/LT. LANE
10	4 LANE DIV. TO 2 LANE TRANS.
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DETAIL	
12	TWO LANE NARROW BRIDGE
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15	HORIZONTAL CURVE
16	HORIZONTAL CURVE ALT.

DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
			FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
83	SHE	IR-75	0.00	18.13	5	1617						1617					MIAMI COUNTY LINE TO 0.5 MILE NORTH SR-274 OVPS
83	SHE	IR-75	5.27		2,3	57									19	38	FAIR RD INTERCHANGE
83	SHE	IR-75	6.66		2,3	45									19	26	SR-47 INTERCHANGE
83	SHE	IR-75	8.53		2,3	48									19	29	SR-29 INTERCHANGE
83	SHE	IR-75	9.43		2,3	104									42	62	CR-25A INTERCHANGE
83	SHE	IR-75	14.47		2,3	95									40	55	SR-119 INTERCHANGE
83	SHE	IR-75	17.54		2,3	92									36	56	SR-274 INTERCHANGE
84	SHE	SR-29	2.97	14.79	GAP,6				792	6		16		782			SR-274 WEST TO SIDNEY WCL
85	SHE	SR-29	19.99	26.22	GAP,6				692			16		676			SR-706 TO CHP CO LINE
86	SHE	SR-47	4.53	12.64	GAP				556					556			0.5 E CR14 RANGELINE RD TO SIDNEY WCL
87	SHE	SR-47	23.41	27.09	16,GAP				335			15		320			.15 W SR-65 TO LOG COUNTY LINE
88	SHE	SR-274	0.00	1.13	GAP				76					76			AUGLAIZE COUNTY LINE TO SR-29
89	SHE	SR-274	16.71	17.65	GAP				62					62			JACKSON CENTER ECL TO LOG CO LINE
90	SHE	SR-362	0.68	3.24	GAP,16				293			16		277			FT LORAMIE ECL TO AUG CO LINE
91	SHE	SR-705	0.00	3.05	GAP,16				217					217			DARKE CO LINE TO FT LORAMIE WCL
TOTAL FOR SHELBY COUNTY						2058			3023	6		1680		2966	175	266	

CALCULATED
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LOCATION SUB-SUMMARY

D07 - RPM - FY12

1/13/2012

LOCATION SUB-SUMMARY

DETAIL	
1	MAINLINE UNDIVIDED
1	TYPICAL SPACING
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIV./EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	1 LANE APPR. W/LT. LANE
8	THRU APPROACH
9	2 LANE APPR. W/LT. LANE
10	4 LANE DIV. TO 2 LANE TRANS.
11	4 LANE UNDIV. TO 2 LANE TRANS.

DETAIL	
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE
16	HORIZONTAL CURVE ALT.

DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

Loc. No.	LOCATION				DETAIL	ITEM QUANTITIES						PRISMATIC RETROREFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S.L.M. SECTION			RPM REFLECTORS						ONE-WAY		TWO-WAY			
			FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	
TOTAL FOR AUGLAIZE COUNTY						1743	447		3769	788	1061	1701		4925	692	490	
TOTAL FOR CHAMPAIGN COUNTY							516		2476	17	590	144	41	3157	254	3	
TOTAL FOR CLARK COUNTY						1840	699		1636	669		1958	51	1515	1099	221	
TOTAL FOR DARKE COUNTY							326		4209	760	1027	409	44	5196	611	62	
TOTAL FOR LOGAN COUNTY							1208		3542	433	2071	860		5902	386	106	
TOTAL FOR MERCER COUNTY									3557	121	4	163		3079	440		
TOTAL FOR MIAMI COUNTY						171		8	2922	126		295	327	2589	16		
TOTAL FOR MONTGOMERY COUNTY							702	827	263	71		32	17	1264	550		
TOTAL FOR SHELBY COUNTY						2058			3023	6		1680		2966	175	266	
TOTAL FOR DISTRICT 7						5812	3898	835	25397	2991	4753	7242	480	30593	4223	1148	
CARRY TO GENERAL SUMMARY						43686											

CALCULATED

CHECKED

LOCATION SUB-SUMMARY

D07 - RPM - FY12

1/13/2012

GENERAL SUMMARY

SEE SHEET 12		SEE SHEET 24			IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLLECTOR	ITEM	ITEM EXT.	TOTAL QUANTITY	UNIT	DESCRIPTION	SEE SHEET NO
50					50						614	11110	50	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
60								60			621	00101	60	EACH	RPM, AS PER PLAN	12
		43686			5812	3898	835	25397	2991	4753	621	00300	43686	EACH	RPM REFLECTOR	
					15%	13%	3%	56%	4%	9%	614	11001	LUMP		MAINTAINING TRAFFIC, AS PER PLAN	11 &12
					15%	13%	3%	56%	4%	9%	624	10000	LUMP		MOBILIZATION	

CALCULATED

CHECKED

GENERAL SUMMARY

D07 - RPM - FY12