

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 7

RAISED PAVEMENT MARKERS D07-RPM-FY2011

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

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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.

2-1-11
Date Approved

Randy Chevalley P.E., P.S./PRN
District Deputy Director

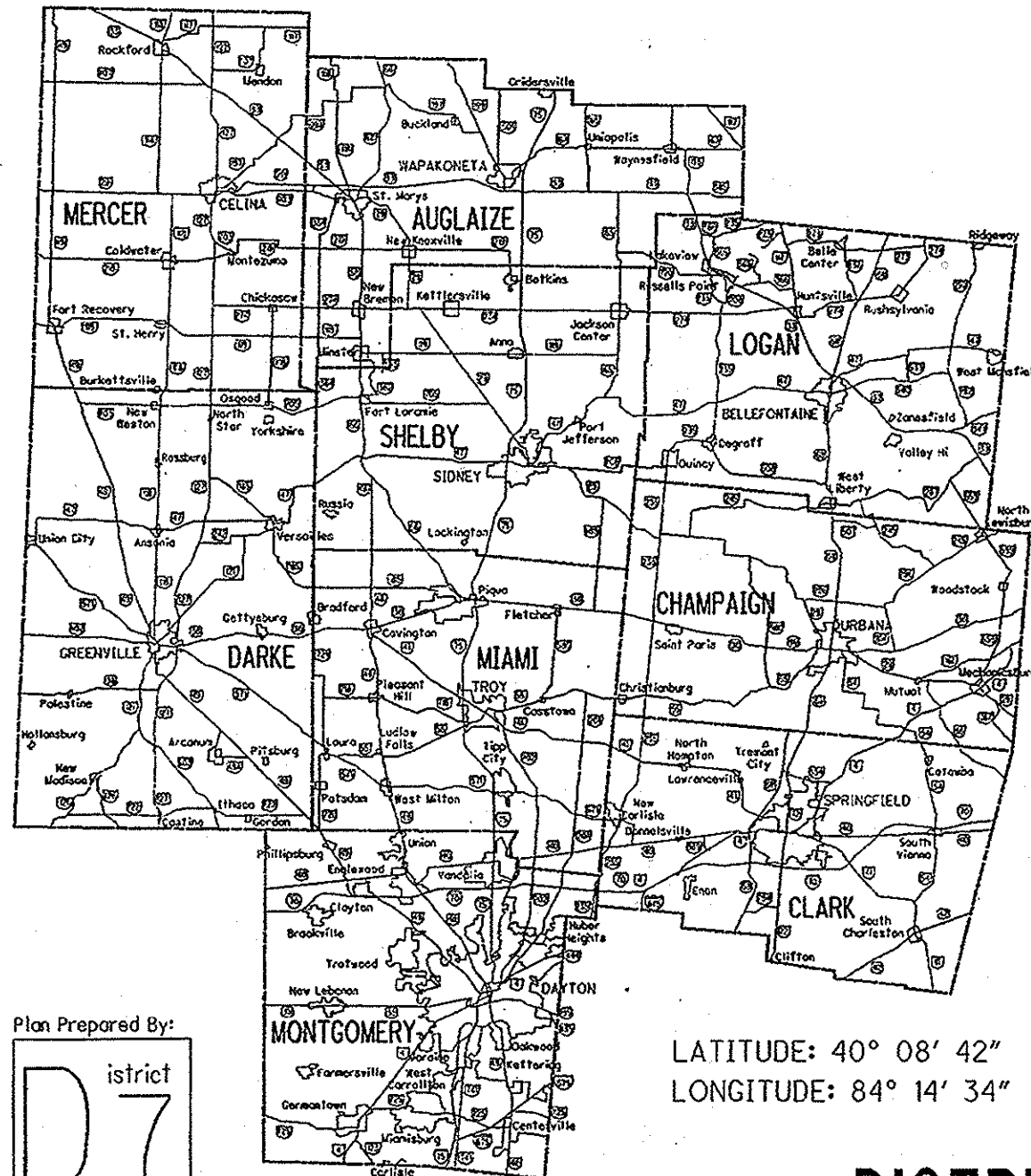
2-14-11
Date Approved

Jerry Wray
Director, Department of Transportation

Supplemental Specifications	
800	01-21-11
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		



LATITUDE: 40° 08' 42"
LONGITUDE: 84° 14' 34"

DISTRICT 7

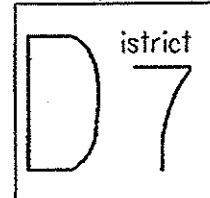
D07 - VA-RPM-FY2011
110266 PID - 82489
Dist 7 5/5/2011

ENGINEER'S SEAL



Signed *Philip N. Stormer*
Date 01-31-2011

Plan Prepared By:



FEDERAL PROJECT NO.
E101(125)

PID NUMBER
82489

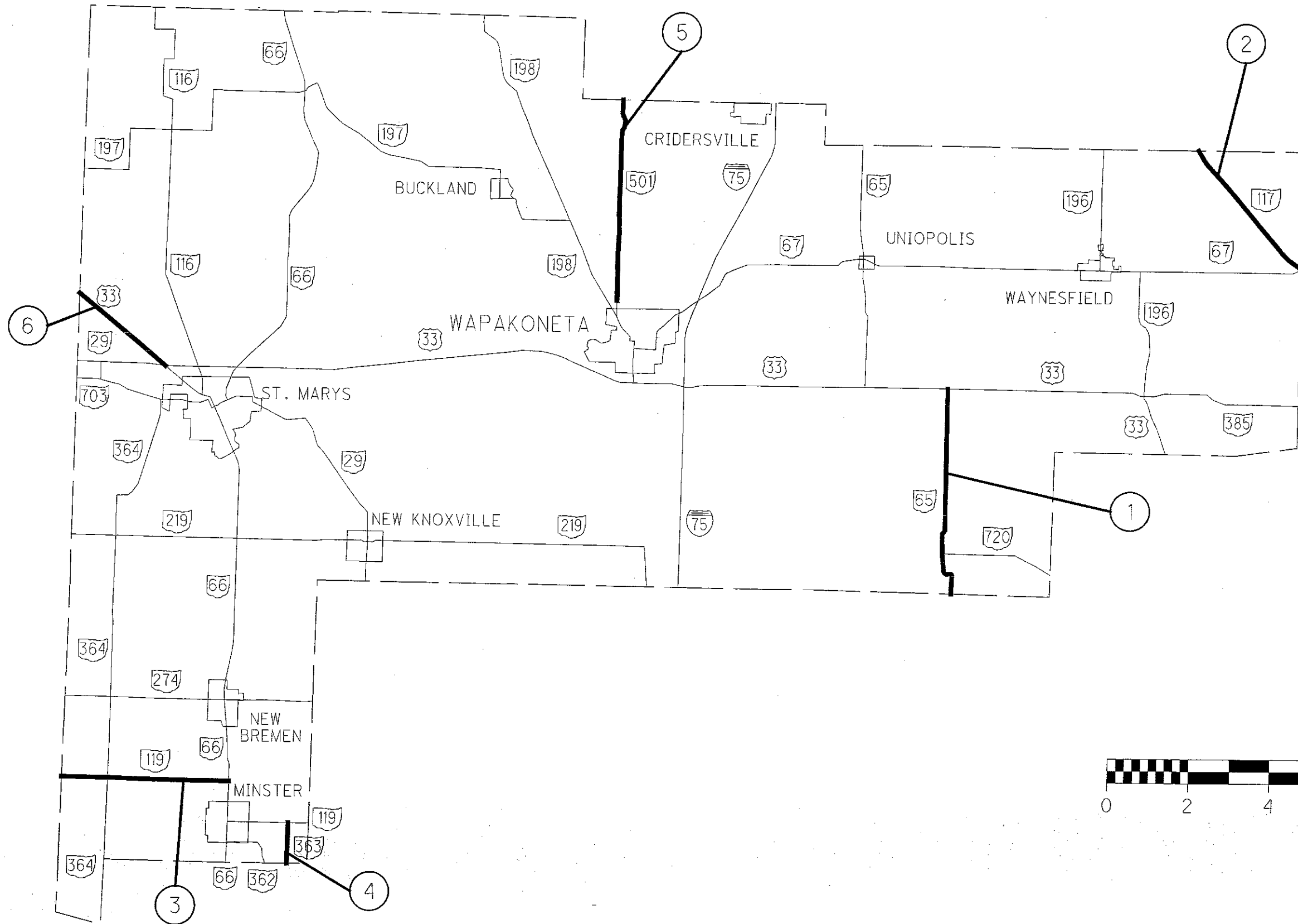
STATE JOB NUMBER
478648

TITLE SHEET

D07-RPM-FY11

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2011 RAISED PAVEMENT MARKER LOCATION MAP AUGLAIZE COUNTY

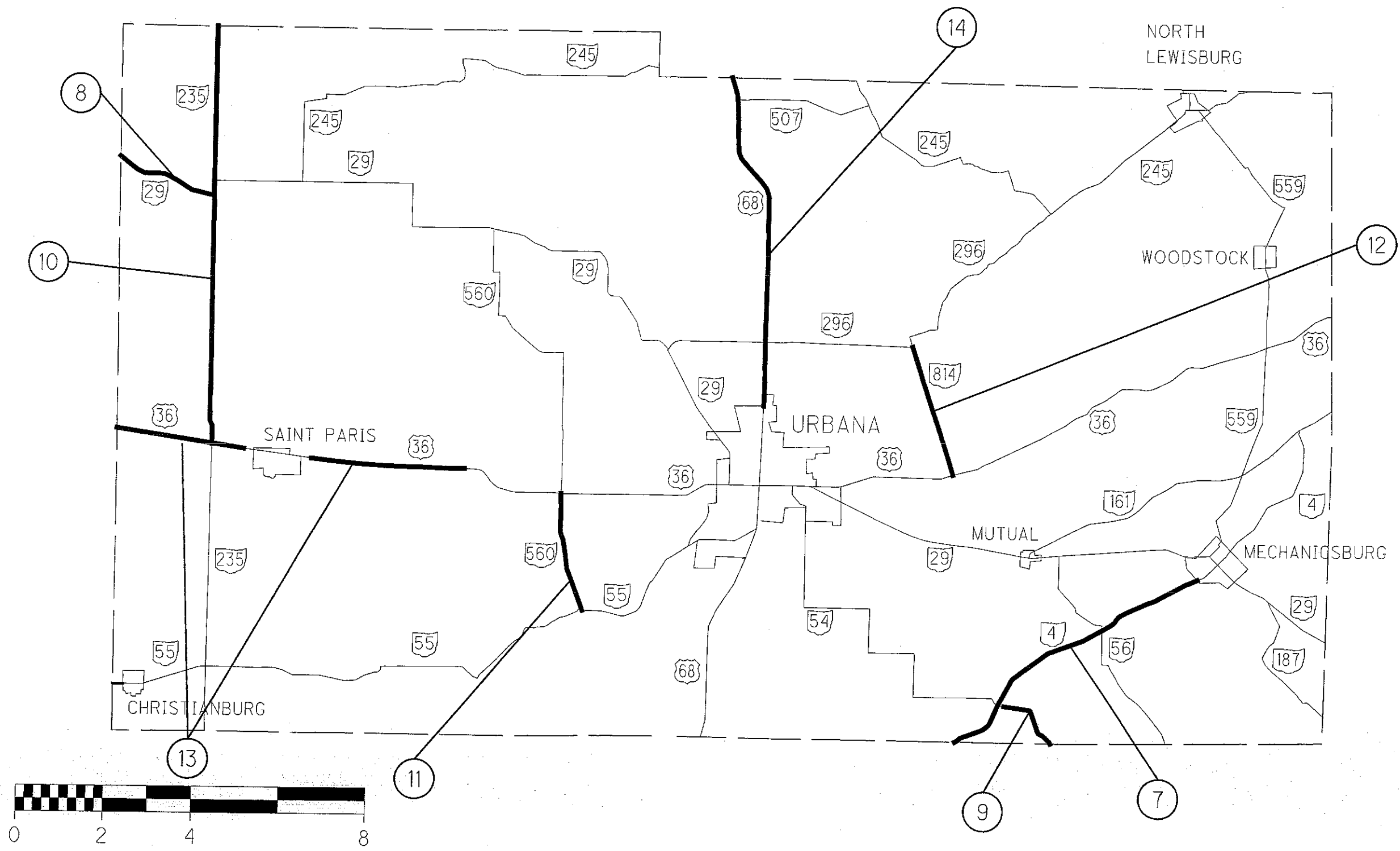
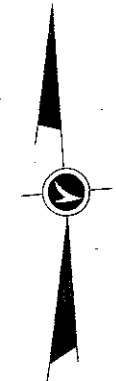


CALCULATED
CHECKED

LOCATION MAP

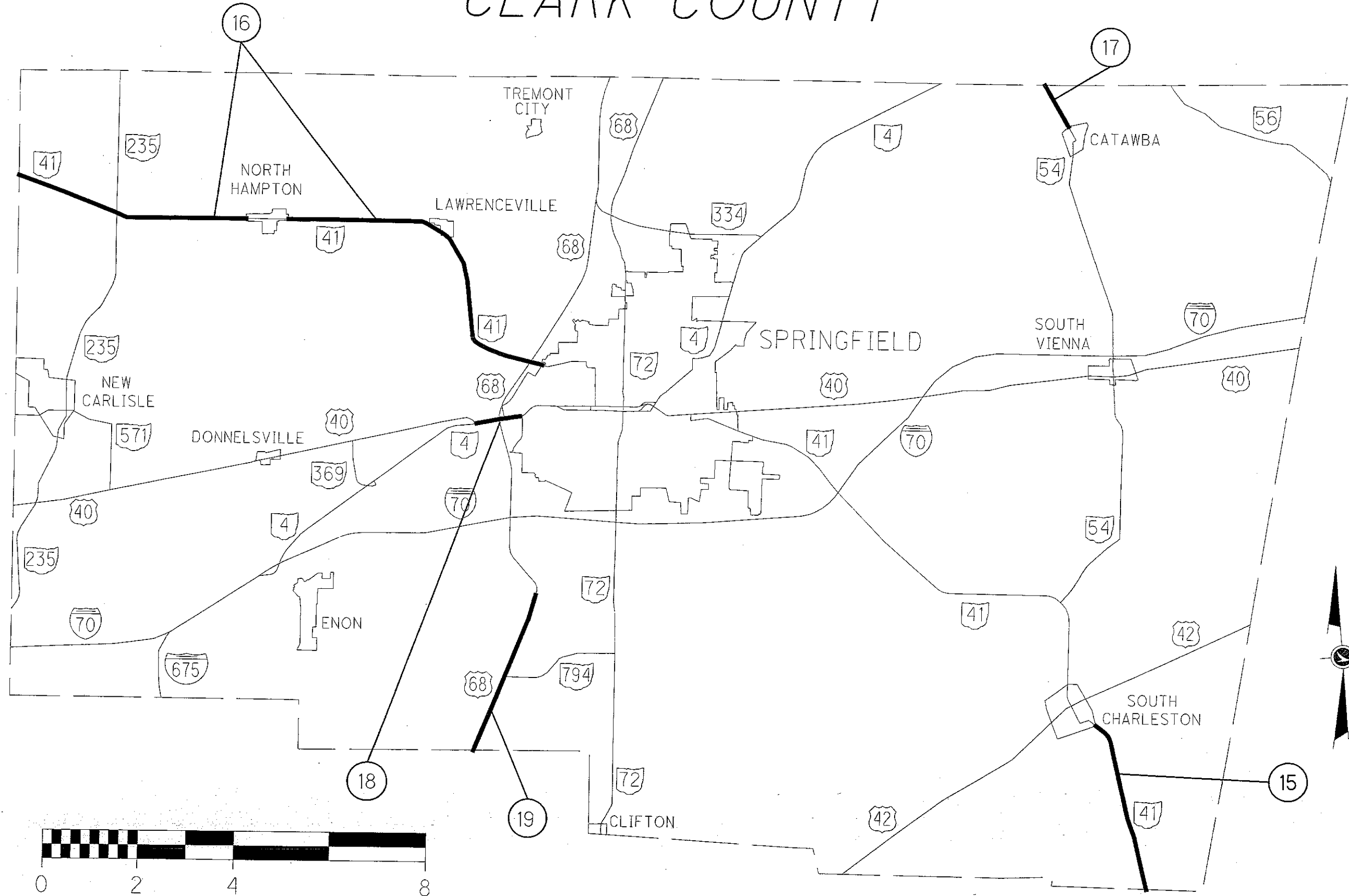
D07-RPM-FY11

2011 RAISED PAVEMENT MARKER LOCATION MAP CHAMPAIGN COUNTY



2011 RAISED PAVEMENT MARKER LOCATION MAP

CLARK COUNTY



CALCULATED
CHECKED

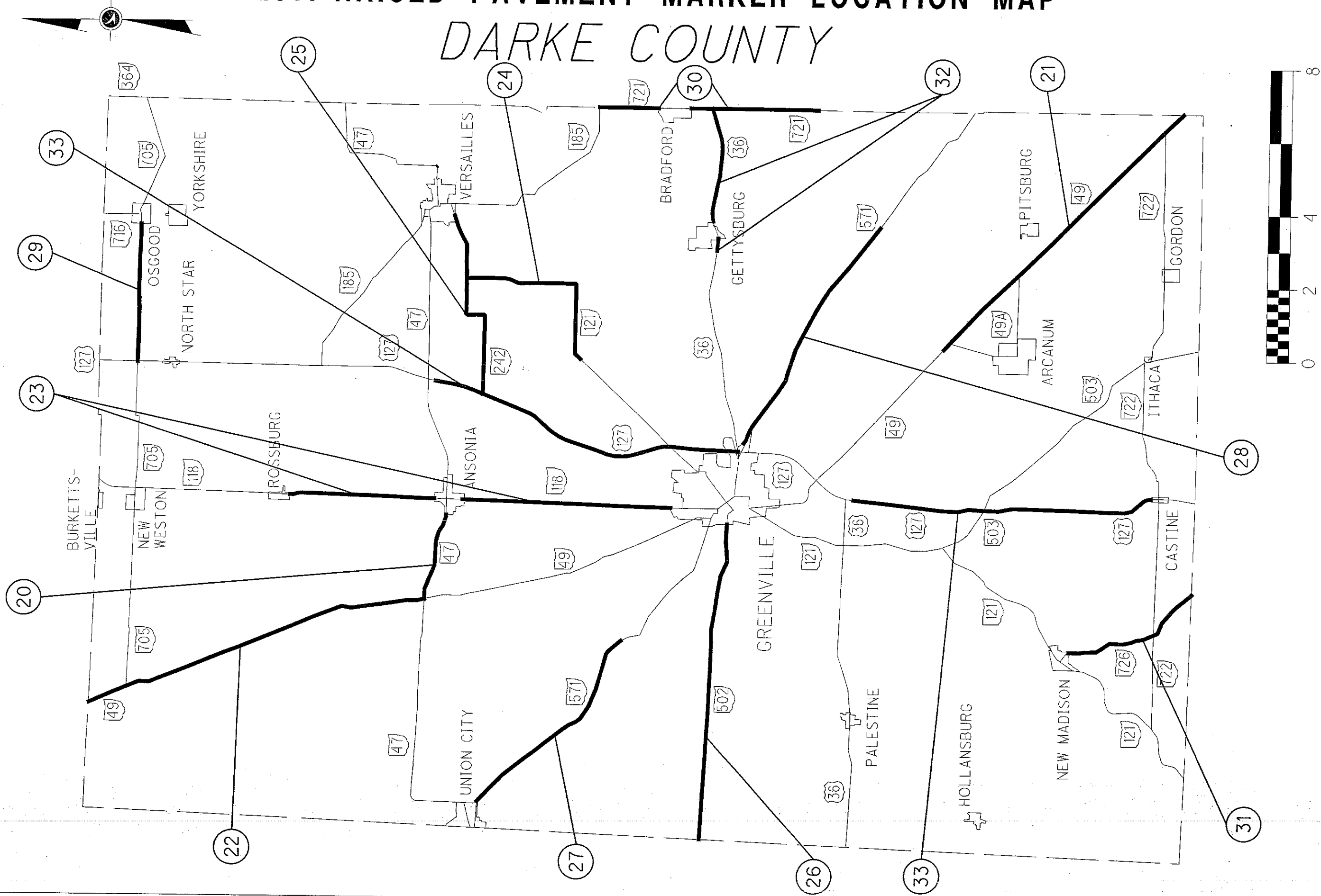
LOCATION MAP

D07-RPM-FY11

4
22

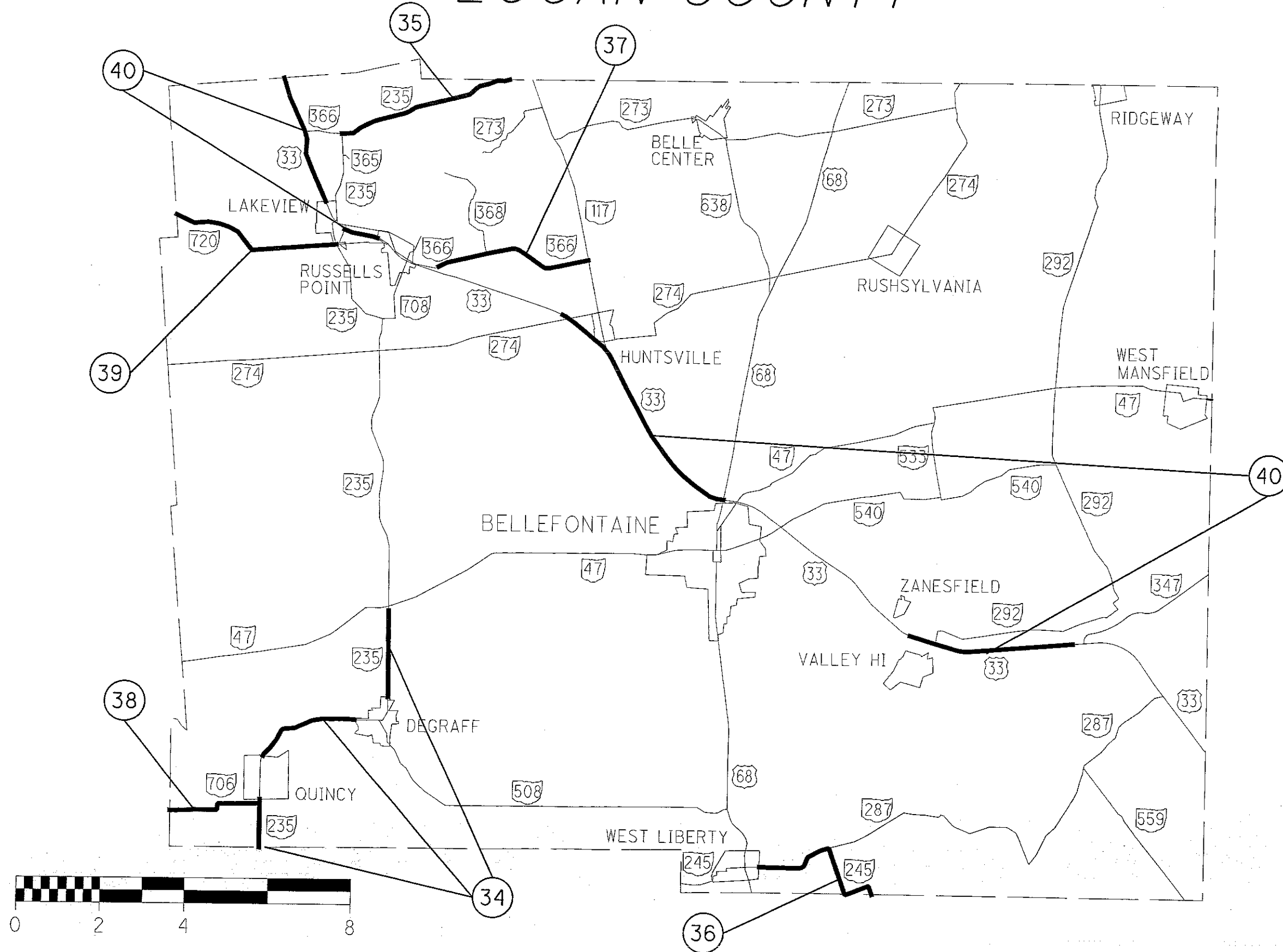
2011 RAISED PAVEMENT MARKER LOCATION MAP

DARKE COUNTY



2011 RAISED PAVEMENT MARKER LOCATION MAP

LOGAN COUNTY

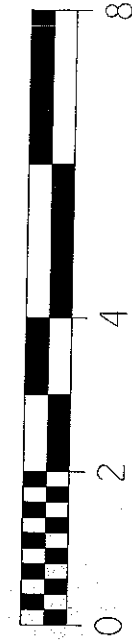
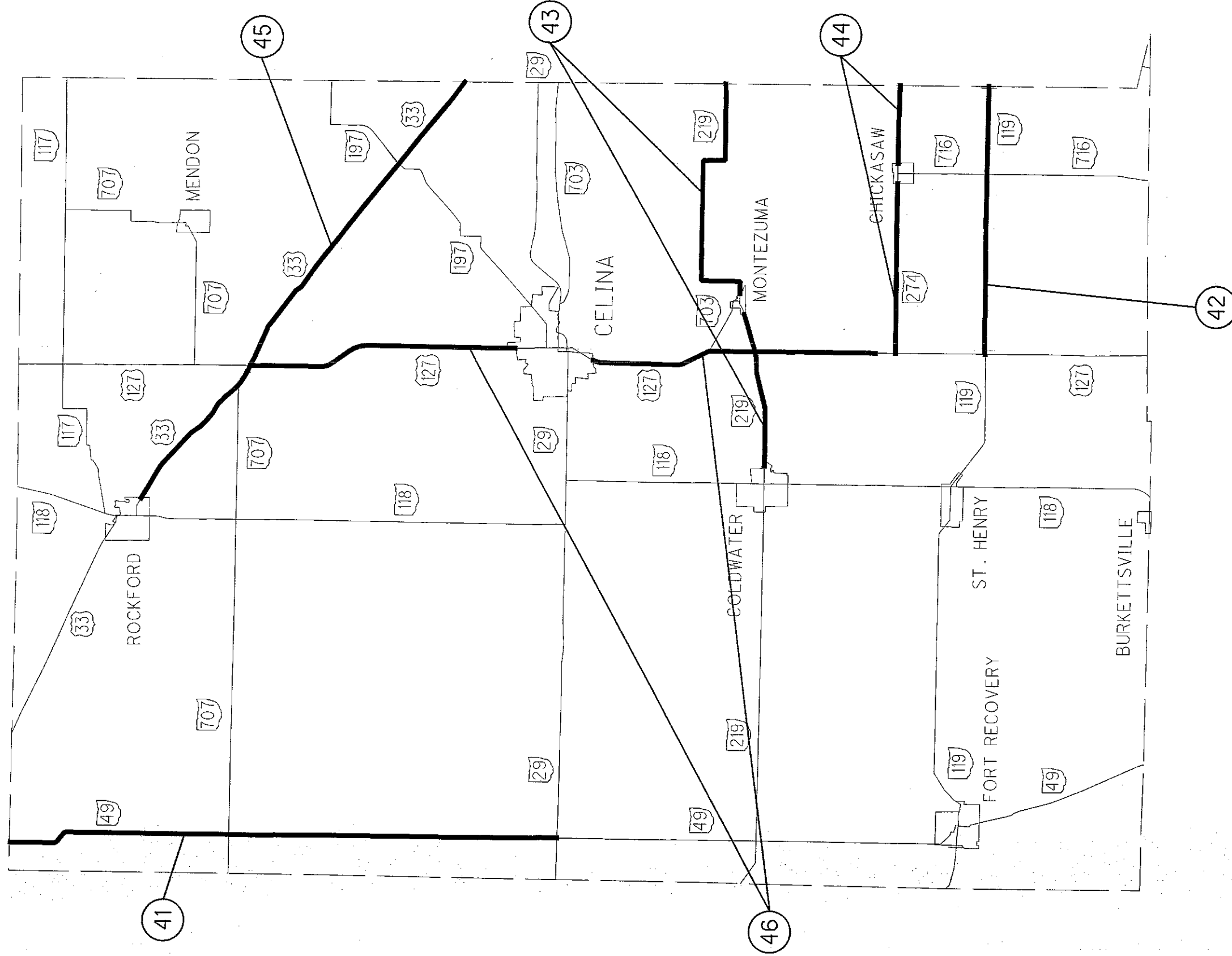
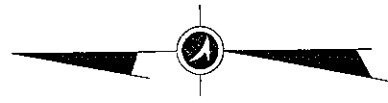


CALCULATED
CHECKED

LOCATION MAP

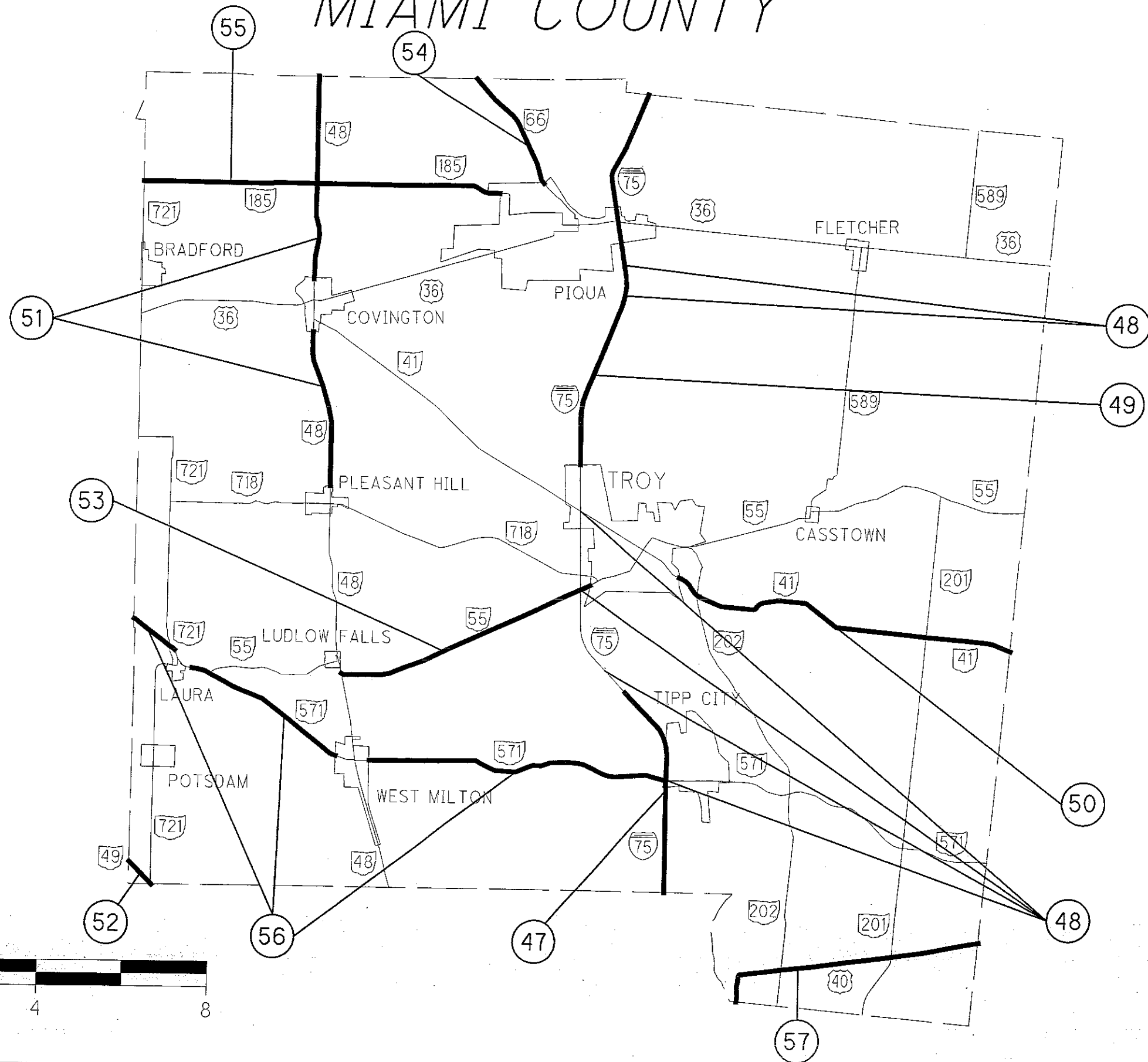
D07-RPM-FY11

2011 RAISED PAVEMENT MARKER LOCATION MAP MERCER COUNTY

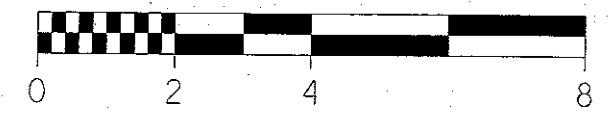
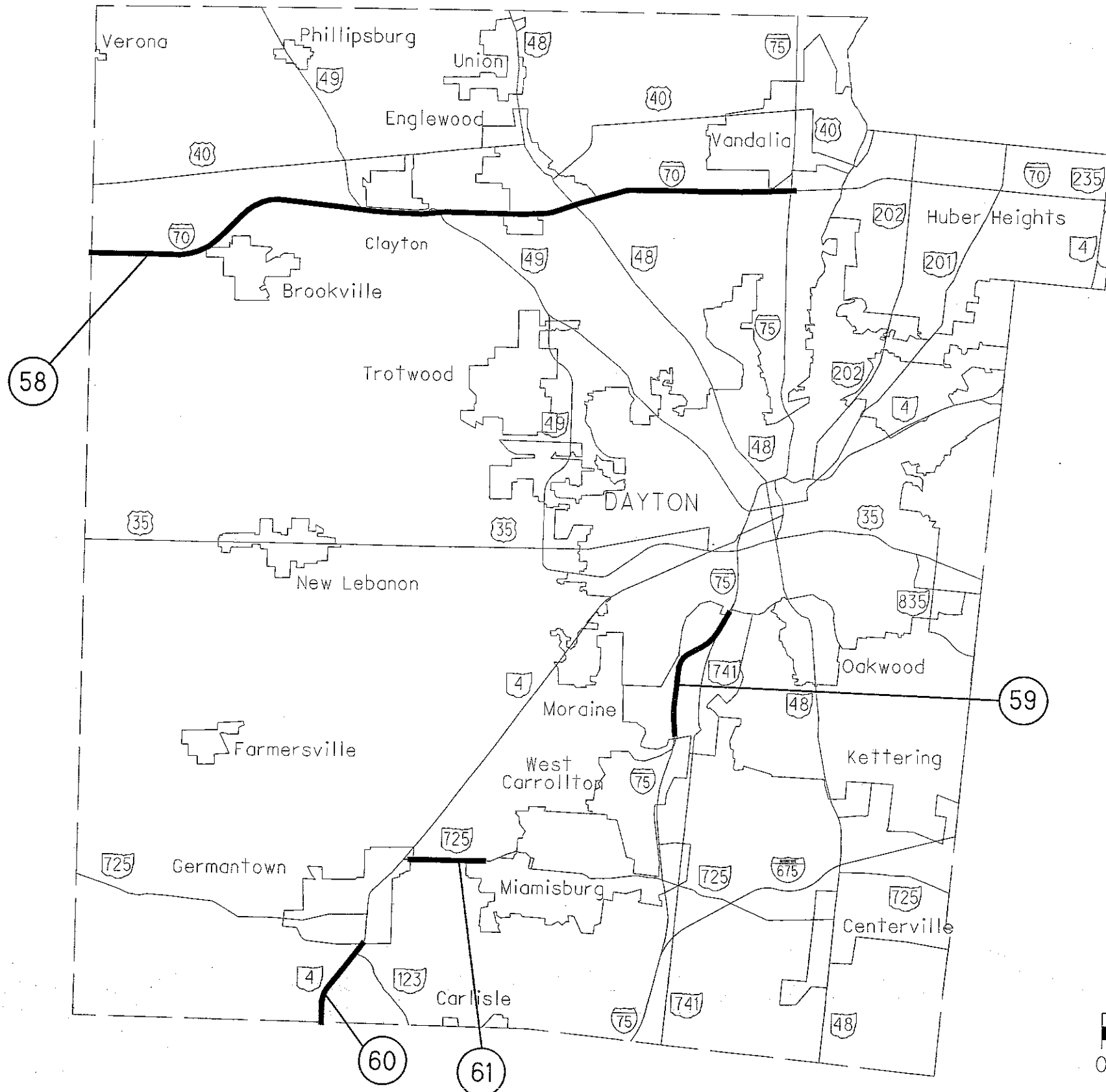


2011 RAISED PAVEMENT MARKER LOCATION MAP

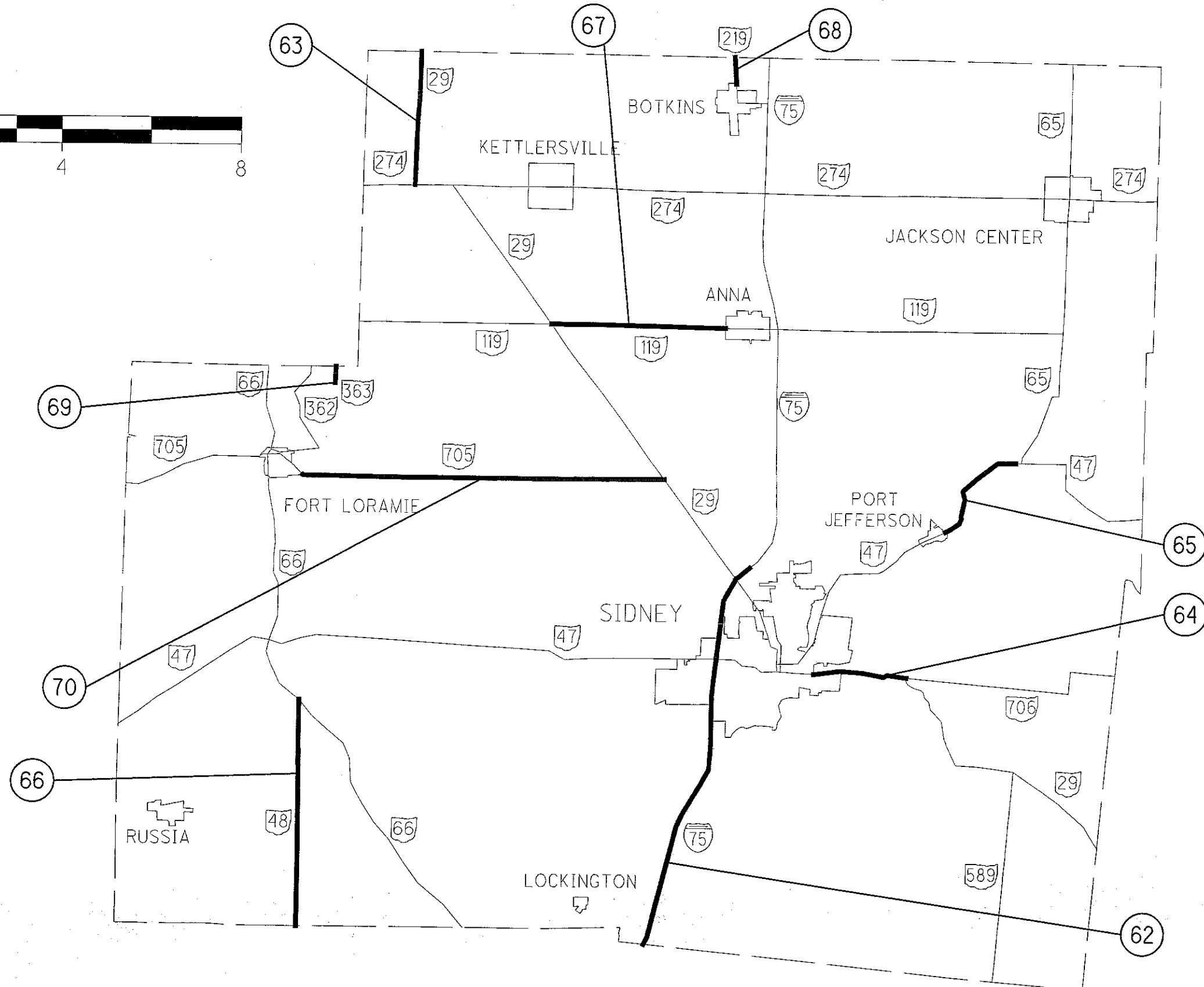
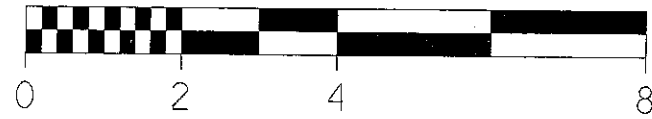
MIAMI COUNTY



2011 RAISED PAVEMENT MARKER LOCATION MAP MONTGOMERY COUNTY



2011 RAISED PAVEMENT MARKER LOCATION MAP SHELBY COUNTY



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, on site, for the duration of the project. 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.

CALCULATE

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GENERAL NOTES

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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 55 MIA SR-185 SLM 1.00 to 1.59 39 Y/Y each Fed Aid Rural

CALCULATED

CHECKED

GENERAL NOTES

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12

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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		
1	AUG	SR-65	0.00	5.27	GAP,6				466				16		450			SHELBY COUNTY LINE TO US-33
2	AUG	SR-117	0.00	3.91	GAP				257						257			ALLEN COUNTY LINE TO HARDIN COUNTY LINE
3	AUG	SR-119	0.00	3.81	GAP				257	1					258			MERCER COUNTY LINE TO MINSTER WCL
4	AUG	SR-363	0.00	1.01	GAP,6						84	16			68			SHELBY COUNTY LINE TO SR-119
5	AUG	SR-501	3.21	7.59	GAP				336	5					341			WAPAK NCL TO ALLEN COUNTY LINE
6	AUG	US-33	0.00	1.99	GAP		65								65			MERCER COUNTY LINE TO ST MARYS WCL
TOTAL FOR AUGLAIZE COUNTY							65		1316	6	84	32			1439			
7	CHP	SR-4	0.00	6.93	GAP				459						459			CLARK COUNTY LINE TO MECHANICSBURG SCL
8	CHP	SR-29	0.00	2.35	GAP,6				172			16			156			SHELBY COUNTY LINE TO SR-235
9	CHP	SR-54	0.00	1.55	GAP,16				166						166			CLARK COUNTY LINE TO I & O RAILROAD
10	CHP	SR-235	6.58	16.11	GAP,6				461		232	16			656	21		US-36 TO LOGAN COUNTY LINE
11	CHP	SR-560	0.00	2.76	GAP,6				230			32			198			SR-55 TO US-36

CALCULATED
CHECKED

LOCATION SUB-SUMMARY

D07 - RPM - FY11

LOCATION SUB-SUMMARY

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1	MAINLINE UNDIVIDED
1	TYPICAL SPACING
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4	PARALLEL ACCELERATION LANE
5	MULTILANE DIV./EXPRESSWAY

DETAIL	
6	STOP APPROACH
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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
13	TWO WAY LEFT TURN
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DETAIL	
GAP	CENTERLINE @ 80 FT. SPACING

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			FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED		
12	CHP	SR-814	0.00	3.07	GAP				220				16		204			US-36 TO SR-296
13	CHP	US-36	0.00	2.92	GAP,6				229				32		197			MIAMI COUNTY LINE TO ST PARIS WCL
13	CHP	US-36	4.35	7.00	GAP				175						175			ST PARIS ECL TO NEAL RD
14	CHP	US-68	8.64	16.20	GAP		500								500			URBANA NCL TO LOGAN COUNTY LINE
TOTAL FOR CHAMPAIGN COUNTY							500		2112		232		112		2711	21		
15	CLA	SR-41	0.00	3.63	GAP				244						244			MADISON COUNTY LINE TO SOUTH CHARLESTON SCL
16	CLA	SR-41	20.16	27.39	5,9,11				211	633			106		469	269		SPRINGFIELD WCL TO NORTH HAMPTON ECL
16	CLA	SR-41	28.27	33.19	GAP,6				360				32		328			NORTH HAMPTON WCL TO MIAMI COUNTY LINE
17	CLA	SR-54	10.75	11.75	GAP				67						67			CATAWBA NCL TO CHAMPAIGN COUNTY LINE
18	CLA	US-40	10.33	10.82	5		1			102						103		UPPER VALLEY PIKE TO SPRINGFIELD WCL
19	CLA	US-68	0.00	4.51	GAP,6,10		386						64		285	32	5	GREEN COUNTY LINE THRU 2 TO 4 LANE TRANSITION
TOTAL FOR CLARK COUNTY							387		882	735			202		1393	404	5	

CALCULATED
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LOCATION SUB-SUMMARY

D07 - RPM - FY11

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			FROM	TO		IM	NHS	FED AID URBAN	FED AID RURAL	OTHER FED AID	MINOR COLECTOR	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED		
20	DAR	SR-47	7.64	10.07	GAP				162						162			SR-49 TO ANSONIA WCL
21	DAR	SR-49	0.00	9.08	GAP		609								602	7		MIAMI COUNTY LINE TO MP9
22	DAR	SR-49	26.48	35.96	GAP				698						698			0.15 N SR-47 TO MERCER COUNTY LINE
23	DAR	SR-118	1.90	7.61	GAP				376	2					378			GREENVILLE NCL TO ANSONIA SCL
23	DAR	SR-118	8.45	12.42	GAP				262						262			ANSONIA NCL TO ROSSBURG SCL
24	DAR	SR-121	22.34	28.87	GAP,16,6				559			32			527			0.11 S OLIVER RD TO VERSAILLES SCL
25	DAR	SR-242	0.00	3.67	GAP,6					309		64			245			US-127 TO SR-121
26	DAR	SR-502	0.00	8.81	GAP,6,16				663			39			624			INDIANA ST LINE TO GREENVILLE WCL
27	DAR	SR-571	0.65	6.86	GAP				275	135					410			UNION SCL TO 0.11 S COLETOWN LIGHTSVILLE RD
28	DAR	SR-571	13.51	20.67	GAP				365	107					472			US-36 TO GETTYSBURG PITTSBURG RD
29	DAR	SR-705	9.02	12.51	GAP,6				250			16			234			US-127 TO OSGOOD WCL
30	DAR	SR-721	0.00	6.01	GAP,6				388			63			325			MIAMI COUNTY LINE TO SR-185
31	DAR	SR-726	0.00	4.00	GAP,16				279						279			PREBLE COUNTY LINE TO NEW MADISON SCL

CALCULATED
CHECKED

LOCATION SUB-SUMMARY

D07 - RPM - FY11

LOCATION SUB-SUMMARY

CALCULATED
CHECKED

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	
	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		
32	DAR	US-36	18.78	19.11	GAP				29						22	7		0.18 W MILL RD TO GETTYSBURG WCL
32	DAR	US-36	19.46	22.76	GAP,8				218						218			GETTYSBURG ECL TO SR-721
33	DAR	US-127	1.23	9.69	GAP,10				598				28	544	26			CASTINE NCL TO US-36
33	DAR	US-127	13.07	22.04	2,3 GAP,10				356	588			23	381	499	41		US-36 INTERCHANGE TO 0.15 S SR-47
TOTAL FOR DARKE COUNTY								609		5478	832	309	214	51	6383	539	41	
34	LOG	SR-235	0.00	1.17	GAP				8		69				77			CHAMPAIGN COUNTY LINE TO QUINCY SCL
34	LOG	SR-235	2.24	4.76	GAP				168						168			QUINCY NCL TO DEGRAFF WCL
34	LOG	SR-235	6.08	8.03	GAP				129						129			DEGRAFF NCL TO 0.15 S SR-47
35	LOG	SR-235	19.49	24.48	GAP,16				75	428					503			0.15 S SR-365 TO HARDIN COUNTY LINE
36	LOG	SR-245	2.11	5.84	GAP,6,15				324				32		292			WEST LIBERTY ECL TO CHAMPAIGN COUNTY LINE
37	LOG	SR-366	6.04	9.78	GAP,6,16				212	78			16		267	7		TR-94 TO SR-117
38	LOG	SR-706	0.00	2.29	GAP,6,16				179				16		163			SHELBY COUNTY LINE TO SR-235
39	LOG	SR-720	0.00	4.12	GAP,6,16					82	239		32		289			AUGLAIZE COUNTY LINE TO LAKEVIEW WCL

LOCATION SUB-SUMMARY

D07 - RPM - FY11

LOCATION SUB-SUMMARY

CALCULATED
CHECKED

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		
40	LOG	US-33	0.00	3.15	GAP		208								208			AUGLAIZE COUNTY LINE TO LAKEVIEW NCL
40	LOG	US-33	3.97	4.82	GAP,6		110					32		72	6			LAKEVIEW ECL TO RUSSEL POINT WCL
40	LOG	US-33	9.66	15.78	5,2,3,G		843					443	23	99	165	113		0.15 W SR-274 TO US-68
40	LOG	US-33	21.51	25.63	5,2,3		456					362			74	20		CONCRETE SECTION AND SR-292 INTERCHANGE
TOTAL FOR LOGAN COUNTY							1617		1095	588	308	933	23	2267	252	133		
41	MER	SR-49	14.09	26.59	GAP				828						828			0.15 N SR-29 TO VAN WERT COUNTY LINE
42	MER	SR-119	12.94	19.03	GAP,6				422			16		406				US-127 TO AUGLAIZE COUNTY LINE
43	MER	SR-219	9.83	13.25	GAP,6				230	49		48		231				COLDWATER ECL TO MONTEZUMA WCL
43	MER	SR-219	13.77	19.91	GAP,15				511			16		495				MONTEZUMA ECL TO AUGLAIZE COUNTY LINE
44	MER	SR-274	0.00	6.14	GAP,6				390			16		374				US-127 TO AUGLAIZE COUNTY LINE
45	MER	US-33	6.52	18.57	GAP,15,6		890					32		847	11			ROCKFORD ECL TO AUGLAIZE COUNTY LINE
46	MER	US-127	5.90	12.32	GAP,7				299	66				342	23			0.15 N SR-274 TO CELINA SCL
46	MER	US-127	14.93	21.00	GAP,7,6				482			32		438	12			CELINA NCL TO 0.15 N US-33
TOTAL FOR MERCER COUNTY							890		3162	115		160		3961	46			

LOCATION SUB-SUMMARY

D07 - RPM - FY11

LOCATION SUB-SUMMARY

CALCULATED
CHECKED

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		
47	MIA	IR-75	0.00	4.92	5	864							864					MONTGOMERY COUNTY LINE BEGIN CONCRETE SECTION
48	MIA	IR-75	2.62	15.52	2,3	662									292	370		SR-571, CR-25A, SR-55, SR-41, 25A, REST AREA RAMPS
49	MIA	IR-75	15.45	19.95	5	396							396					END CONCRETE SECTION TO SHELBY COUNTY LINE
49	MIA	IR-75	16.48	18.20	2,3	230									126	104		US-36, 25A RAMPS
50	MIA	SR-41	0.00	7.98	GAP,6				578				32		533	13		CLARK COUNTY LINE TO TROY ECL
51	MIA	SR-48	9.64	13.05	GAP				232						232			PLEASANT HILL NCL TO COVINGTON SCL
51	MIA	SR-48	14.60	19.40	GAP				316						316			COVINGTON NCL TO SHELBY COUNTY LINE
52	MIA	SR-49	0.00	0.75	GAP		49								49			MONTGOMERY COUNTY LINE TO DARKE COUNTY LINE
53	MIA	SR-55	3.78	8.21	GAP,6			33	238				55		216			SR-48 TO TROY WCL
54	MIA	SR-66	2.37	4.30	GAP				119	8					127			PIQUA NCL TO SHELBY COUNTY LINE
55	MIA	SR-185	0.00	8.52	GAP,6				501	57			32		526			DARKE COUNTY LINE TO PIQUA ECL
56	MIA	SR-571	0.00	1.17	GAP				77						77			DARKE COUNTY LINE TO LAURA WCL
56	MIA	SR-571	1.75	5.36	GAP				238						238			LAURA ECL TO WEST MILTON WCL
56	MIA	SR-571	7.18	12.37	GAP,6,15			62	387				32		401	16		WEST MILTON ECL TO TIPP CITY WCL
57	MIA	US-40	0.00	6.32	GAP,6			134	351				64		421			MOT COUNTY LINE TO CLARK COUNTY LINE
TOTAL FOR MIAMI COUNTY						2152	49	229	3037	65			1475		3136	447	474	

LOCATION SUB-SUMMARY

D07 - RPM - FY11

LOCATION SUB-SUMMARY

CALCULATED
CHECKED

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	
58	MOT	IR-70	0.00	17.04	5	1625						1625					PREBLE COUNTY LINE TO CSX RAILROAD
58	MOT	IR-70	2.87	14.81	2,3	533						7			293	233	CR-533, SR-49NORTH, SR-49SOUTH, HOKE RD, AIRPORT ACCESS
58	MOT	IR-70	16.20		2,3	1132						312			421	399	IR-75 INTERCHANGE
59	MOT	IR-75	7.12	10.42	5	580						580					SELLERS RD OVERPASS TO DAYTON SCL
59	MOT	IR-75	9.31		2,3	104									27	77	DRYDEN RD INTERCHANGE
60	MOT	SR-4	0.00	2.48	GAP		165								165		BUTLER COUNTY LINE TO GERMANTOWN WCL
61	MOT	SR-725	8.56	10.13	GAP			101							101		GERMANTOWN ECL TO MIAMISBURG WCL
TOTAL FOR MONTGOMERY COUNTY						3974	165	101				2524		266	741	709	

LOCATION SUB-SUMMARY

D07 - RPM - FY11

LOCATION SUB-SUMMARY

CALCULATED
CHECKED

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		
62	SHE	IR-75	0.00	8.94	5	808							808					MIAMI COUNTY LINE TO CSX RAILROAD UNDERPAS
62	SHE	IR-75	5.06	8.84	2,3	150									57	93		FAIR RD, SR-47, SR-29 INTERCHANGES
62	SHE	IR-75	17.78	20.55	5	244							244					SR-274 TO AUGLAIZE COUNTY LINE
62	SHE	IR-75	19.54		2,3	138									96	42		SR-219 INTERCHANGE
63	SHE	SR-29	0.00	2.97	GAP,6				213				16		197			AUGLAIZE COUNTY LINE TO SR-274
64	SHE	SR-29	18.55	20.04	GAP,15				96	20					116			SIDNEY ECL TO SR-706
65	SHE	SR-47	20.95	23.38	GAP,15				156						156			PORT JEFFERSON ECL TO 0.15 W SR-65
66	SHE	SR-48	0.00	5.03	GAP,6				350				16		334			MIAMI COUNTY LINE TO SR-66
67	SHE	SR-119	4.53	7.75	GAP				251						251			0.2 E SR-29 TO ANNA WCL
68	SHE	SR-219	0.00	0.60	GAP				40						40			AUGLAIZE COUNTY LINE TO BOTKINS NCL
69	SHE	SR-363	0.00	0.42	GAP,15						35				35			ROUTE BEGINS TO AUGLAIZE COUNTY LINE
70	SHE	SR-705	4.48	12.33	6 GAP				543				16		527			FT LORAMIE ECL TO SR-29
TOTAL FOR SHELBY COUNTY						1340			1649	20	35	1100		1656	153	135		

LOCATION SUB-SUMMARY

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LOCATION SUB-SUMMARY

CALCULATED
CHECKED

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

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

DETAIL	DESCRIPTION
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							65		1316	6	84	32		1439				
TOTAL FOR CHAMPAIGN COUNTY							500		2112		232	112		2711	21			
TOTAL FOR CLARK COUNTY							387		882	735		202		1393	404	5		
TOTAL FOR DARKE COUNTY							609		5478	832	309	214	51	6383	539	41		
TOTAL FOR LOGAN COUNTY							1617		1095	588	308	933	23	2267	252	133		
TOTAL FOR MERCER COUNTY							890		3162	115		160		3961	46			
TOTAL FOR MIAMI COUNTY							2152	49	229	3037	65		1475		3136	447	474	
TOTAL FOR MONTGOMERY COUNTY							3974	165	101			2524		266	741	709		
TOTAL FOR SHELBY COUNTY							1340		1649	20	35	1100		1656	153	135		
TOTAL FOR DISTRICT 7						7466	4282	330	18731	2361	968	6752	74	23212	2603	1497		
CARRY TO GENERAL SUMMARY									34138									

LOCATION SUB-SUMMARY

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1/13/2011

GENERAL SUMMARY

CALCULATED
CHECKED

SEE SHEET 12	SEE SHEET 21				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	
39	34138				7466	4282	330	18731	2361	968	621	00101	39	EACH	RPM, AS PER PLAN	12
											621	00300	34138	EACH	RPM REFLECTOR	
					LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	614	11001	LUMP		MAINTAINING TRAFFIC, AS PER PLAN	11 & 12
					LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	624	10000	LUMP		MOBILIZATION	

GENERAL SUMMARY

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