

Status of Bridges in Southeast Michigan

April 2002

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Abstract

This report summarizes many characteristics and the condition of the 3,524 bridges in Southeast Michigan, which includes the counties of Livingston, Macomb, Monroe, Oakland, St. Clair, Washtenaw, and Wayne. The data used were obtained from the Michigan Department of Transportation's Michigan Structure Inventory and Appraisal (MSIA) database in September 2001. Ownership, maintenance responsibility, use, and age of the bridges are presented in the first section. Then, the condition of the region's bridges is summarized using a variety of measures, such as condition and appraisal ratings, bridge posting status, traffic safety feature deficiencies, and structurally deficient or functionally obsolete status.

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Executive Summary

Status of Bridges in Southeast Michigan inventories bridges in Livingston, Macomb, Monroe, Oakland, St. Clair, Washtenaw, and Wayne Counties using several criteria. There are 3,524 bridges in Southeast Michigan as of September 2001. The State of Michigan is the primary owner of nearly 54 percent of the region's bridges. Counties own 34 percent, cities and other local agencies own nearly eight percent, and over four percent of the region's bridges are owned by railroad companies.

Nearly 30 percent of the bridges in the seven-county region are in poor condition or worse and in need of some repair. Outside of Southeast Michigan, that proportion falls to nearly 20 percent. The condition of the bridges in Southeast Michigan were rated against several criteria including the condition of decks, deck wearing surfaces, superstructures, substructures, channel and channel protection (for bridges over water), and culverts. Seventy percent (2,484) of the bridges in Southeast Michigan are rated in fair to excellent condition. However, over 26 percent (922 bridges) are rated serious to poor; county percentages ranged from St. Clair County's 19.5 percent to Monroe County's 30.7 percent. Over three percent (120 bridges) of bridges in the region are rated critical or worse; county percentages ranged from 1.8 percent in Livingston County to 5.7 percent in Macomb County. A rating of serious or poor indicates that structural deterioration has reached an advanced stage. A rating of critical indicates that deterioration of primary structural elements has reached an advanced stage and that closing the bridge may be necessary.

A report will be issued annually for the purpose of tracking changes in the bridge population from year to year. Deficiencies identified may be used in project planning by local transportation agencies. A companion report, *Michigan's Critical Bridge Program*, will summarize sources of bridge funding, including the Michigan Critical Bridge Program. In future years, the annual report on the status of bridge may be combined with the report on sources of funding.

The data used in this report came from the Michigan Structure Inventory and Appraisal (MSIA) database in September 2001.

Introduction

Bridges are an essential component of our transportation infrastructure. They provide connections between roadways and allow roadways to traverse natural features of the landscape, and they enable people and goods to be transported. When a bridge no longer serves its purpose well, homes and businesses can become isolated and the smooth flow of people, goods, and services can be interrupted.

As Michigan bridges age, the issue of funding for repair and replacement of bridges becomes more urgent. An annual summary of the state of the region's bridges can be a useful tool for area officials. An annual summary could also be useful to track changes in the bridge population from year to year.

The Michigan Department of Transportation (MDOT) maintains the Michigan Structure Inventory and Appraisal (MSIA) database. Updated throughout the spring and summer months as bridge inspections are completed, this database describes in detail all bridges in Michigan. Using data from the MSIA database, this report was compiled with the intent of creating a simple summary of the region's bridges. Ownership, age, use, and condition are the main foci of this report.

For the purposes of the state inventory, a bridge is defined as:

“ . . . a structure including supports erected over a depression or an obstruction, such as water, highway, pedestrian passage, or railway and having a track or passageway for carrying traffic or other moving loads, and having an opening measured along the center of the roadway of more than 20 feet between undercopings of abutment or springlines of arches, or extreme ends of openings for multiple boxes; it may include multiple pipes, where the clear distances between openings is less than half of the smaller contiguous opening.” (MSIA Coding Manual)

This report focuses on issues of potential regional and county-level interest. Using the MSIA database obtained from MDOT in September 2001, a total of 3,524 bridges in the seven-county SEMCOG region were identified. The analysis summarizes bridge ownership, usage, and condition. The 3,524 bridges in Southeast Michigan are over 28 percent of the bridges in Michigan, and the status of Michigan bridges is briefly summarized for the purpose of comparison.

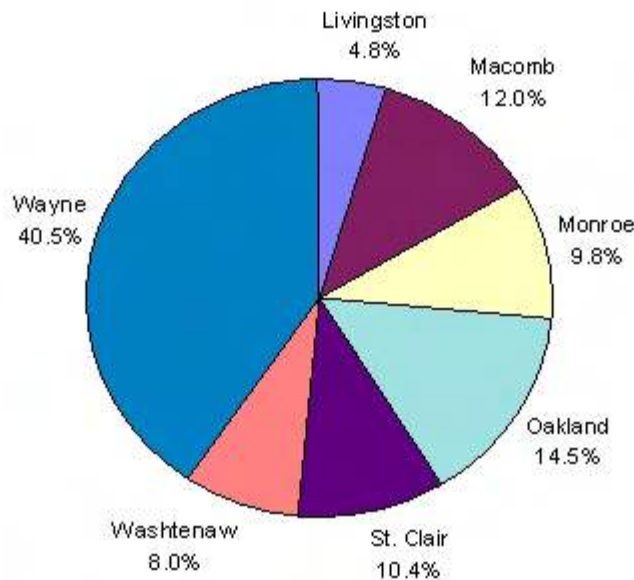
Bridges in Southeast Michigan

This section profiles the bridges in Southeast Michigan using the following bridge characteristics:

- primary ownership,
- maintenance responsibility,
- type of facility on or under bridge (e.g., highway over waterway, railway over highway, etc.),
- number of traffic lanes on bridge, and
- age of the region's bridges.

Figure 1 shows the percentage of bridges in each county. Livingston County has the smallest share of the region's 3,524 bridges with 4.8 percent (168 bridges), while Wayne county has the largest proportion at 40.5 percent (1,429 bridges). The tri-county area — Wayne, Oakland, and Macomb Counties — are first, second and third in the number of bridges in each county. Wayne County has more bridges than any other county— in fact, nearly 2.8 times as many as Oakland County, which has the next largest number of bridges.

Figure 1
Distribution of Bridges



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Primary Ownership

If ownership of a bridge is equally shared by more than one agency, the following hierarchy is used to determine what agency is considered the primary owner: state, federal, county, city, railroad, and other private.

In the following figures, the “state” category includes bridges owned by MDOT or any other state agency, such as a state park, state toll authority, or any other state agency. The “county” category includes bridges owned by a county highway agency. Included in the “local” category are bridges owned by city or municipal highway agencies, or any other local agency. There are two privately owned non-railroad bridges in Wayne County that are not included in Table 1. There are a total of 41 federally owned bridges and 16 privately owned non-railroad bridges in the state, and these are also not included in Table 1.

Table 1 shows the number of bridges owned by different agencies in each county. Oakland, Wayne, and Washtenaw Counties are the only counties in which more than half of the bridges are owned by the state. More than half of the bridges in the remaining counties of Livingston, Macomb, Monroe, and St. Clair are owned by county agencies. Wayne County is the only county with a significant portion of bridges owned by railroad companies, most likely due to the large amount of industrial development in Wayne County.

Table 1

Bridge Ownership by County

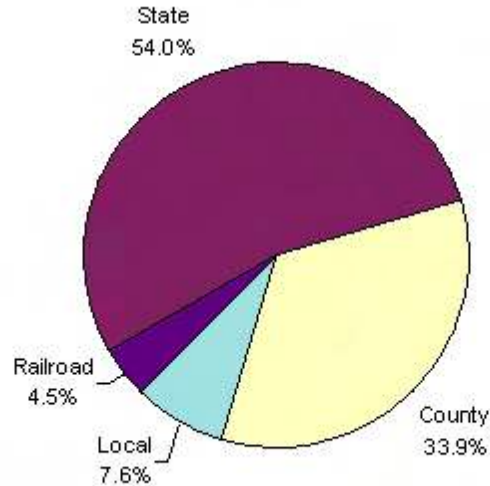
	State	County	Local	Railroad	Total bridges
Livingston	75 (44.6%)	92 (54.8%)	1 (0.6%)	0 (0.0%)	168
Macomb	175 (41.3%)	219 (51.7%)	30 (7.1%)	0 (0.0%)	424
Monroe	156 (45.2%)	181(52.5%)	7 (2.0%)	1 (0.3%)	345
Oakland	333 (65.2%)	79 (15.5%)	88 (16.8%)	13 (2.5%)	511
St. Clair	128 (35.0%)	222 (60.7%)	14 (3.8%)	2 (0.5%)	366
Washtenaw	151 (53.4%)	102 (36.0%)	24 (8.5%)	6 (2.1%)	283
Wayne	883 (61.8%)	302 (21.1%)	106 (7.4%)	136 (9.5%)	1,429
Southeast Michigan Total	1,901 (53.9%)	1,197 (34.0%)	268 (7.6%)	158 (4.5%)	3,524
Michigan Total	5,680 (45.7%)	5,683 (45.7%)	819 (6.6%)	196 (1.6%)	12,435

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure 2 represents the region’s bridges by ownership. In Southeast Michigan, the majority of the bridges (54 percent) are owned by the state. County-owned bridges account for 34 percent of Southeast Michigan’s bridges, and the remainder are owned by local agencies or railroads.

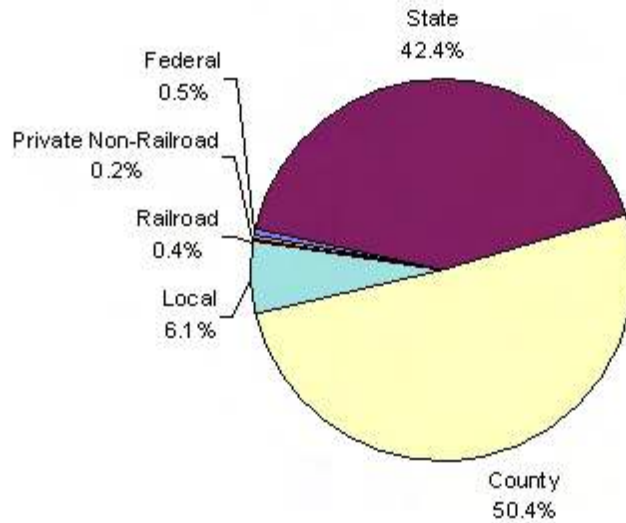
Figure 3 shows bridge ownership in Michigan excluding Southeast Michigan. Compared to Southeast Michigan, a larger proportion of bridges in the rest of the state are owned by county agencies and fewer are owned by the state. The proportion of railroad-owned bridges in the rest of the state is one-tenth the proportion of railroad-owned bridges in Southeast Michigan. The proportion of locally owned bridges is slightly less (6.2 percent) outside of the southeast region than inside (7.8 percent).

Figure 2
Bridge Ownership in Southeast Michigan



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure 3
Bridge Ownership Outside Southeast Michigan



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Maintenance Responsibility

In some cases, maintenance responsibility differs from ownership. For example, a railroad company may be responsible for maintaining a bridge owned by MDOT. In this summary of bridge maintenance responsibility, the same definitions for each category were used as in the ownership summary. There are 10 bridges in Wayne County not included in Table 2 that are maintained by private agencies. A total of 41 bridges in Michigan are maintained by federal agencies (such as U.S. Forest Service, National Park Service, and others) and another 24 are privately maintained; these bridges are also not included in Table 2. Table 2 shows the number of bridges in each Southeast Michigan county maintained by each type of agency. Figure 4 displays the proportions in which regional bridges are maintained by different agencies.

Table 2

Bridge Maintenance Responsibility by County

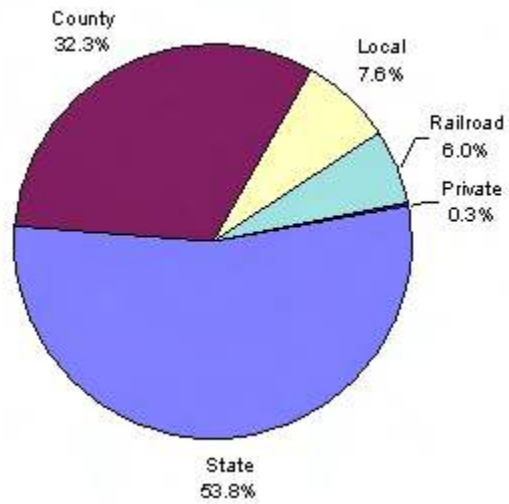
	State	County	Local	Railroad	Total bridges
Livingston	75 (44.6%)	92 (54.8%)	1 (0.6%)	0 (0.0%)	168
Macomb	175 (41.3%)	220 (51.9%)	29 (6.8%)	0 (0.0%)	424
Monroe	156 (45.2%)	181 (52.5%)	7 (2.0%)	1 (0.3%)	345
Oakland	333 (65.2%)	79 (15.5%)	86 (16.8%)	13 (2.5%)	511
St. Clair	128 (35.2%)	220 (60.4%)	14 (3.8%)	2 (0.5%)	364
Washtenaw	151 (53.3%)	102 (36.0%)	24 (8.4%)	6 (2.1%)	283
Wayne	879 (61.5%)	243 (17.0%)	106 (7.4%)	191 (13.4%)	1,429
Southeast Michigan Total	1,897 (53.8%)	1,137 (32.3%)	267 (7.6%)	213 (6.0%)	3,524
Michigan Total	5,675 (45.6%)	5,628 (45.3%)	815 (6.6%)	252 (2.0%)	12,435

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Comparing Table 1 and Table 2 shows that in Southeast Michigan, railroad companies are the only group to maintain more bridges than they collectively own. County agencies maintain 55 fewer bridges than they own, state agencies maintain four fewer bridges than they own, and local agencies own one more bridge than they maintain. In Wayne County, over 13 percent of bridges are maintained by railroad companies. This is a far greater proportion than in Oakland County, where 2.5 percent of bridges are maintained by railroad companies.

Figure 4

Distribution of Bridge Maintenance Responsibility in Southeast Michigan



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Legal Class

Michigan Public Act 51 of 1951 classifies roads as state trunkline, county primary, county local, city major, or city local. These categories are called legal classes, and they form a hierarchy with state trunkline roads at the highest level and city local roads at the lowest level.

Bridges can also be classified according to the highest legal class of road associated with the bridge. For example, a bridge which carries a county primary road over a city major road would be placed in the same classification as a bridge which carries a city major road over a county primary road, because the highest legal class of road involved in either case is a county primary road, regardless of whether it is carried by the bridge or overpassed by the bridge.

Table 3 shows the number of bridges in each Southeast Michigan county involving each class of road. Forty-four bridges statewide (including one in Wayne County) do not fall into any of the legal class categories. These bridges are not included in Table 3.

Fifty-four percent of the bridges in Southeast Michigan involve a state trunkline road, compared to over 45 percent of the bridges in all of Michigan. The Southeast Michigan county with the highest proportion of state trunkline bridges is Oakland County with over 65 percent, and Wayne County is a close second with over 61 percent. St. Clair County has the lowest proportion of state trunkline bridges (35.2%) and the highest proportion of county local bridges (36.5%).

Table 3

Legal Class of Bridges in Southeast Michigan

	State trunk	County primary	County local	City major	City local	Total bridges
Livingston	75 (44.6%)	41 (24.4%)	51 (30.4%)	1 (0.6%)	0 (0.0%)	168
Macomb	175 (41.3%)	99 (23.3%)	121 (28.5%)	22 (5.2%)	7 (1.7%)	424
Monroe	156 (45.2%)	83 (24.1%)	99 (28.7%)	6 (1.7%)	1 (0.3%)	345
Oakland	335 (65.6%)	52 (10.2%)	27 (5.3%)	63 (12.3%)	34 (6.7%)	511
St. Clair	128 (35.2%)	89 (24.5%)	133 (36.5%)	3 (0.8%)	11 (3.0%)	364
Washtenaw	152 (53.7%)	51 (18.0%)	53 (18.7%)	20 (7.1%)	7 (2.5%)	283
Wayne	882 (61.7%)	259 (18.1%)	56 (3.9%)	170 (11.9%)	61 (4.3%)	1,429
Southeast Michigan Total	1,903 (54.0%)	674 (19.1%)	540 (15.3%)	285 (8.1%)	121 (3.4%)	3,524
Michigan Total	5,683 (45.7%)	2,553 (20.5%)	3,158 (25.4%)	757 (6.1%)	240 (1.9%)	12,435

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Type of Facility On or Under Bridge

Each structure in the MSIA database is given an identification number. Included in this ID number is a letter indicating the facility type, as shown below.

- B Highway over waterway
- C Highway over waterway (culvert qualifying as a bridge)
- S Highway over highway
- R Highway over railway
- X Railway over highway
- P Pedestrian overpass
- Z Miscellaneous (plaza, building, etc.)
- N Nonmotorized traffic (e.g., bicycle)
- V Highway over nonmotorized

Table 4 shows the number of each county's bridges that fall into each category. In this table, both the "B" and the "C" category bridges have been combined into the "Highway over water" category. Category "Z," "N," and "V" bridges are combined in the "Other bridges" category in Table 4. Such bridges are only present in Monroe, Oakland, and Wayne Counties.

Regional proportions of bridges in each category can be seen in Figure 5. Nearly half of all bridges in the region are over waterways or culverts, and roughly one-third of all bridges carry highways over highways. All other types of bridges each comprise less than 10 percent of the region's bridges.

Table 4

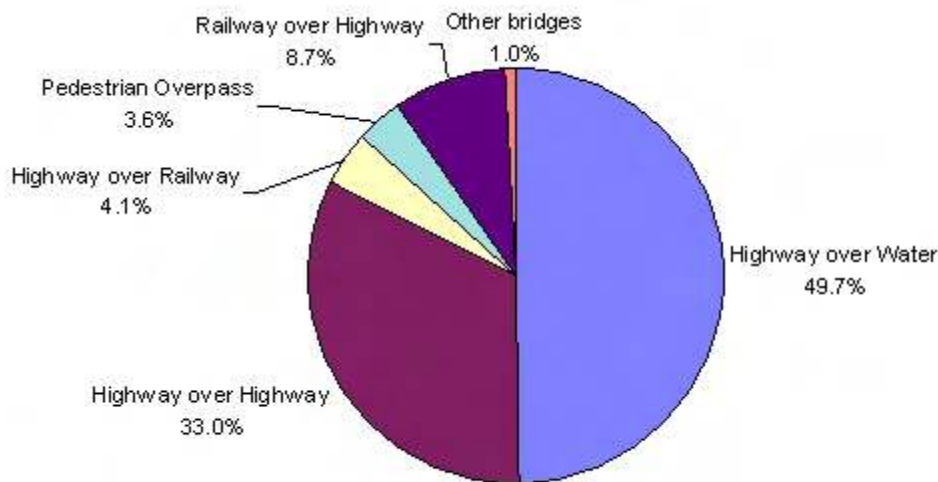
Bridge Types in Southeast Michigan

	Highway over water	Highway over highway	Highway over railway	Pedestrian overpass	Railway over highway	Other bridges	Total bridges
Livingston	119 (70.8%)	37 (22.0%)	9 (5.3%)	1 (0.6%)	2 (1.2%)	0 (0.0%)	168
Macomb	294 (69.3%)	116 (27.4%)	4 (0.9%)	7 (1.7%)	3 (0.7%)	0 (0.0%)	424
Monroe	277 (80.3%)	47 (13.6%)	16 (4.6%)	0 (0.0%)	3 (0.9%)	2 (0.6%)	345
Oakland	207 (40.5%)	232 (45.4%)	24 (4.7%)	18 (3.5%)	22 (4.3%)	8 (1.6%)	511
St. Clair	306 (84.1%)	44 (12.1%)	11 (3.0%)	1 (0.3%)	2 (0.5%)	0 (0.0%)	364
Washtenaw	156 (55.1%)	93 (32.9%)	20 (7.1%)	5 (1.8%)	9 (3.2%)	0 (0.0%)	283
Wayne	391 (27.4%)	593 (41.5%)	60 (4.2%)	96 (6.7%)	265 (18.5%)	24 (1.7%)	1,429
Southeast Michigan Total	1,750 (49.6%)	1,162 (33.0%)	144 (4.1%)	128 (3.6%)	306 (8.7%)	34 (1.0%)	3,524
Michigan Total	8,820 (71.0%)	2,480 (20.0%)	490 (3.9%)	205 (1.6%)	399 (3.2%)	41 (0.3%)	12,435

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure 5

Regional Distribution of Bridge Types



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Number of Traffic Lanes on Bridges

Table 5 shows the number of bridges by county and number of traffic lanes; Figure 6 shows the percentage distribution of regional bridges by number of traffic lanes. According to the MSIA coding manual, the lanes counted are “all lanes carrying highway traffic which are striped or otherwise operated as a full width traffic lane for the entire length of the structure . . . This shall include any full width merge lanes and ramp lanes, and shall be independent of directionality of usage . . .”

It is important to note that a bridge carrying two-way traffic is coded as a two-lane bridge even if its physical width will only allow one car at a time to pass over the bridge. Because of this definition, one- and two-lane bridges have been included in the same category in this data profile. Most zero-lane bridges carry railroad or pedestrian traffic. Seventeen bridges statewide were not coded for this item in the database; four of these bridges were in Southeast Michigan.

The highly urbanized counties of Wayne, Oakland, and Macomb have the highest numbers of bridges carrying three or more lanes of traffic. Wayne County has almost nine times as many zero lane bridges as Oakland County, which has the next highest number. This is because there are a large number of railroad and pedestrian bridges in Wayne County.

Table 5

Number of Lanes on Bridges

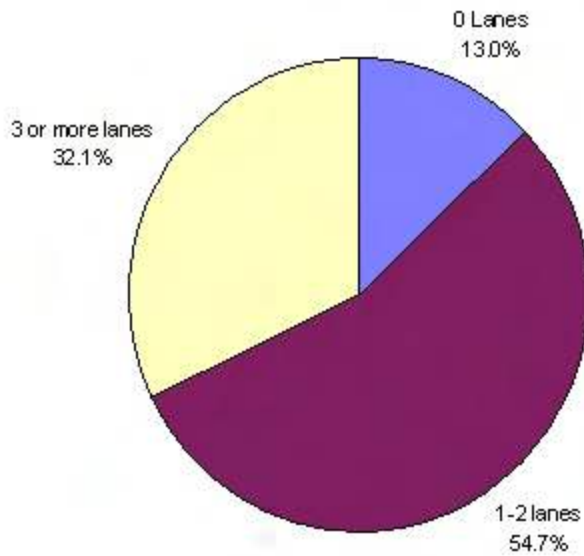
	0 lanes	1-2 lanes	3 or more lanes	Total bridges
Livingston	2 (1.2%)	142 (84.5%)	24 (14.3%)	168
Macomb	10 (2.4%)	291 (68.6%)	123 (29.0%)	424
Monroe	5 (1.4%)	261 (75.7%)	79 (22.9%)	345
Oakland	43 (8.4%)	240 (47.0%)	226 (44.2%)	511
St. Clair	3 (0.8%)	339 (93.1%)	22 (6.0%)	364
Washtenaw	14 (4.9%)	185 (65.4%)	83 (29.3%)	283
Wayne	381 (26.7%)	472 (33.0%)	575 (40.2%)	1,429
Southeast Michigan Total	458 (13.0%)	1,930 (54.7%)	1,132 (32.1%)	3,524
Michigan Total	625 (5.0%)	9,680 (77.8%)	2,113 (17.0%)	12,435

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figures 6 and 7 compare the numbers of lanes on bridges in Southeast Michigan with the numbers of lanes on bridges outside of Southeast Michigan. A vast majority (87.1 percent) of the bridges outside Southeast Michigan carry one or two lanes of traffic, whereas nearly 55 percent of the bridges in Southeast Michigan carry one or two lanes of traffic. Zero-lane bridges make up 13 percent of the bridges in Southeast Michigan, but less than two percent of the bridges outside Southeast Michigan. Because of the large traffic volume in Southeast Michigan, over 32 percent of bridges in the region carry three or more lanes of traffic. This is almost three times the percent of bridges outside of the region that carry three or more lanes.

Figure 6

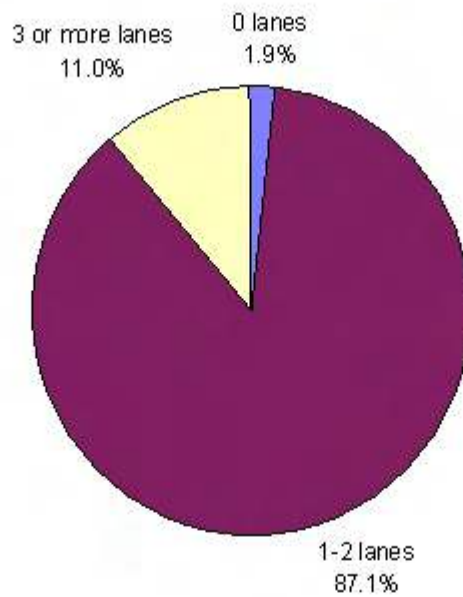
Number of Lanes on Bridges in Southeast Michigan



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure 7

Number of Lanes on Bridges Outside Southeast Michigan



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Age of the Region's Bridges

For each bridge in the MSIA database, the year construction was completed is coded as the year built. If a bridge has been reconstructed, the year of reconstruction is recorded in a separate field. Because of these two data items, it is possible to show the distribution of the ages of the area's bridges, as well as determine how many bridges have been reconstructed.

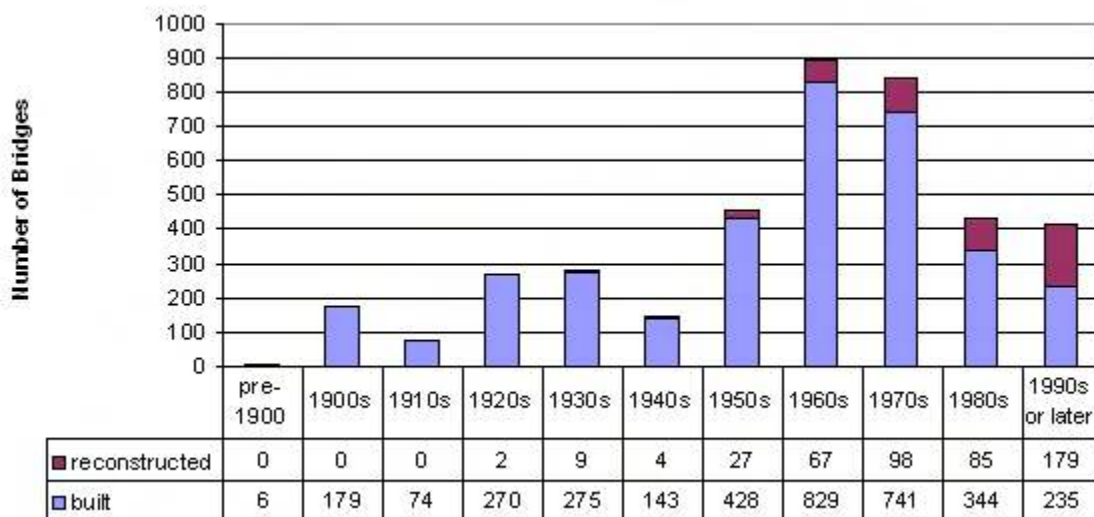
In order for bridge work to be considered reconstruction, the type of work must have been eligible for funding under any of the federal-aid categories. This remains true regardless of how the reconstruction project was funded. For example, safety-feature upgrading, painting, utility work, emergency repair after an accident, or temporary repairs in preparation for complete rehabilitation would not be considered reconstructive work.

Figure 8 shows the number of bridges constructed or reconstructed before 1900, in the 1990s or after, and in all of the decades between 1900 and 1990. The numbers in the data table underneath the chart will total more than 3,524 because a bridge that was built in the 1940s, for example, and then rebuilt in the 1980s would appear twice. The building of new bridges peaked in the 1960s, fell slightly in the 1970s, and then fell more sharply heading into the 1980s and 1990s. Bridge reconstruction, however, increased in the second half of the century as more and more bridges that were built earlier in the century fell into disrepair.

Because a reconstructed bridge is in a condition similar to a new bridge, bridges that have been reconstructed can be considered new bridges. For example, a bridge that was first built in 1941 and reconstructed in 1981 would be considered to be 20 years old in 2001, not 60. With this interpretation, it is possible to determine what proportion of Southeast Michigan's bridges have reached certain ages. Over 53 percent of the bridges are older than 30 years, and over 76 percent are older than 20 years.

Figure 8

Bridge Construction and Reconstruction in Southeast Michigan by Decade



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Bridge Condition

This section describes the condition of bridges in the region. Specific sections cover:

- lowest condition rating;
- appraisal ratings for
 - structural integrity,
 - deck geometry, and
 - approach alignment;
- bridges which must be posted with load restrictions;
- bridges with deficient safety features; and
- structurally deficient and functionally obsolete bridges.

Condition Ratings

The MSIA database contains mandatory ratings of conditions of the following bridge components or subsystems.

Deck

Concrete decks are inspected for deterioration such as cracking, scaling, spalling, and potholing. Steel grid decks are inspected for broken welds, broken grids, and corrosion. Timber decks are checked for splitting, crushing, fastener failure, and rotting.

Deck wearing surface

Concrete or bituminous surfaces are inspected for spalling, cracking, scaling, and delamination. Timber wearing surfaces are inspected for deterioration, splitting, and crushing.

Superstructure

Structural members are inspected for signs of distress, including cracking, deterioration, section loss, and malfunction and misalignment of bearings.

Substructure

All substructure elements such as piers, abutments, footings, and piles are inspected. Signs of distress include cracking, section loss, settlement, scour, collision damage, and corrosion.

Channel and channel protection

Bridges over waterways are inspected for damage due to excessive water velocity. This damage might include stream realignment, undermining of footings, and erosion of banks.

Culverts

Culverts meeting the formal definition of a bridge are inspected for structural condition, settlement, misalignment, poor joints, and scour.

The deck, deck wearing surface, superstructure, and substructure condition ratings use the following scale:

- N = Not Applicable
- 9 = Excellent Condition
- 8 = Very Good Condition - no problems noted.
- 7 = Good Condition - some minor problems.
- 6 = Satisfactory Condition - structural elements show some minor deterioration.
- 5 = Fair Condition - all primary structural elements are sound but may have minor section loss, cracking, spalling, or scour.
- 4 = Poor Condition - advanced section loss, deterioration, spalling, or scour.
- 3 = Serious Condition - primary structural components have seriously deteriorated, and local component failures are possible.
- 2 = Critical Condition - deterioration of primary structural elements has reached an advanced stage. Closing the bridge may be necessary until corrective action is taken.
- 1 = Imminent Failure Condition - major deterioration in critical structural components. Bridge is closed to traffic, but may be put back in light service if corrective action is taken.
- 0 = Failed Condition - out of service, beyond corrective action.

Condition ratings for bridges over water and for culverts follow two separate and unique scales. For bridges over water, a rating of 4 indicates that bank and embankment protection are severely undermined, and a rating of 2 indicates that the waterway has changed to such an extent that the bridge is in danger of collapsing. For culverts, a rating of 4 indicates considerable deterioration, erosion, settlement, misalignment, or distortion, and a rating of 2 indicates extensive perforations, complete undermining, extreme distortion, or collapse. The MSIA coding manual contains complete descriptions of these rating scales.

The overall condition rating of a bridge is the lowest rating among those given for the six individual subsystems listed above. Bridges with an overall rating of critical are typically discussed most often, since the closing of such bridges may be necessary until corrective action is taken. Bridges considered to be in imminent failure condition should already be closed.

Table 6 shows the number and corresponding percent of bridges in each county that are rated critical or worse, or poor or serious. The total number of bridges in each county is shown in the last column.

Across all seven counties, there are 120 bridges rated critical or worse, and 922 rated poor or serious. Together, these 1,042 bridges make up nearly 30 percent of the region's bridges. The county with the highest percentage of bridges rated critical or worse is Macomb, where nearly six percent of the bridges fall into this category. Livingston County has about two percent of its bridges falling into this category, making it the county with the smallest percentage of bridges rated critical or worse.

Monroe County has the greatest percentage of bridges rated poor or serious, with Wayne County not far behind. Almost 31 percent of Monroe County's bridges received this rating. St. Clair County has the lowest percentage of bridges in this category at just under 20 percent.

Table 6

Condition Ratings of Bridges in Southeast Michigan

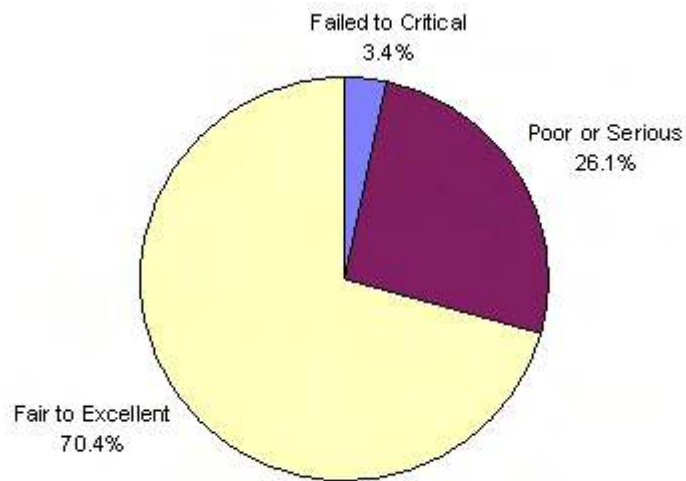
County	Bridge condition is rated critical or worse	Bridge condition is rated poor or serious	Total bridges
Livingston	3 (1.8%)	49 (29.2%)	168
Macomb	24 (5.7%)	88 (20.8%)	424
Monroe	12 (3.5%)	106 (30.7%)	345
Oakland	13 (2.5%)	104 (20.4%)	511
St. Clair	7 (1.9%)	71 (19.5%)	364
Washtenaw	12 (4.2%)	70 (24.7%)	283
Wayne	49 (3.4%)	433 (30.3%)	1,429
Southeast Michigan Total	120 (3.4%)	922 (26.1%)	3,524
Michigan Total	363 (2.9%)	2,424 (19.5%)	12,435

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure 9 shows the distribution of bridges in the seven-county region by rating. In the seven-county region, there are over seven times as many bridges rated poor or serious (26.1 percent) as there are rated critical or worse (3.4 percent). However, 70 percent of the region's bridges are in fair to excellent condition. A rating of fair indicates that all structural elements of the bridge are sound. A breakdown of this information by County and ownership can be found in Appendix A.

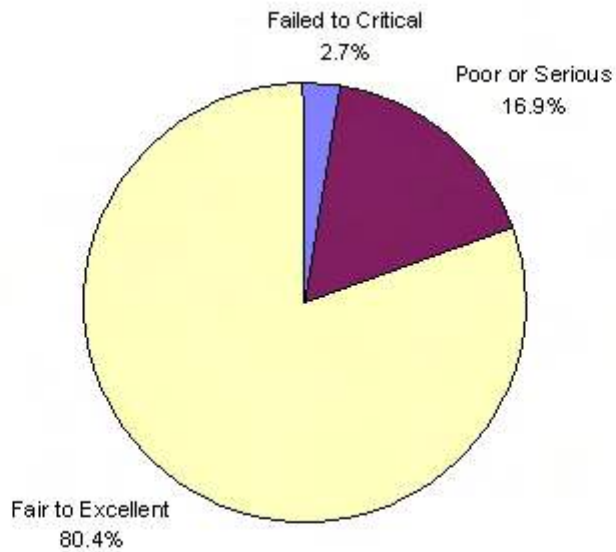
As shown in Figure 10, the area outside Southeast Michigan has a greater percentage of bridges in fair to excellent condition than Southeast Michigan. Over 80 percent of the bridges outside of Southeast Michigan are rated fair to excellent, compared to 70 percent of the bridges in Southeast Michigan.

Figure 9
Condition of Bridges in Southeast Michigan



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure 10
Condition of Bridges Outside Southeast Michigan



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Appraisal Ratings

The MSIA database contains a series of five appraisal ratings which evaluate a bridge in relation to the structural level of service it provides on the highway system of which it is a part. Each bridge is compared to a new bridge built to current standards for that particular type of road.

The five appraisal ratings cover structural integrity, deck geometry, underclearances, waterway adequacy, and approach alignment. Ratings for underclearances and waterway adequacy were found to have large numbers of missing values and are not summarized here. All ratings use the following scale:

- N = not applicable,
- 9 = superior to present desirable criteria,
- 8 = equal to present desirable criteria,
- 7 = better than present minimum criteria,
- 6 = equal to present minimum criteria,
- 5 = somewhat better than minimum adequacy to tolerate being left in place as is,
- 4 = meets minimum tolerable limits to be left in place as is,
- 3 = basically intolerable requiring high priority of (non-replacement) correction,
- 2 = basically intolerable requiring high priority of replacement, and
- 0 = bridge closed.

A rating code of “1” is not used for appraisal ratings.

Structural integrity

This rating evaluates the superstructure and substructure condition ratings, average daily traffic (ADT) and inventory rating (the load level that can safely use the bridge for an indefinite period of time). A look-up table is used to determine a candidate appraisal rating based on ADT and inventory rating. For structures other than culverts, the overall structural appraisal rating is the lowest value among this candidate rating, the superstructure condition rating, and the substructure condition rating. For culverts qualifying as bridges, the structural appraisal rating is the lower value of the candidate rating and the culvert condition rating. The MSIA coding manual contains a more complete discussion of the structural evaluation logic and the parameters used in that logic.

Table 7 shows the number and percentage of bridges in each county needing correction or replacement for structural reasons. Note that the percent of bridges in Livingston County needing correction is at least twice the percent of bridges needing correction in any other county, while the number of bridges in Wayne County is at least twice the number of bridges needing correction in any other county. Regionally, 71 bridges are in need of replacement for structural reasons and 207 are in need of correction for structural reasons. These numbers correspond to two percent and 5.9 percent of all bridges, respectively.

Table 7

Bridges Needing Attention for Structural Reasons

	Needing Correction	Needing replacement	Total bridges
Livingston	23 (13.7%)	1 (0.6%)	168
Macomb	25 (5.9%)	13 (3.1%)	424
Monroe	17 (4.9%)	8 (2.3%)	345
Oakland	32 (6.3%)	12 (2.3%)	511
St. Clair	13 (3.6%)	14 (3.8%)	364
Washtenaw	12 (4.2%)	13 (4.6%)	283
Wayne	85 (5.9%)	10 (0.7%)	1,429
Southeast Michigan Total	207 (5.9%)	71 (2.0%)	3,524
Michigan Total	551 (4.4%)	462 (3.7%)	12,435

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Deck geometry

This rating evaluates the bridge width, number of lanes, minimum vertical clearance over the deck, average daily traffic, and highway type. Various combinations of these parameters are considered in a series of five look-up tables, each table producing a different deck geometry rating. The lowest of these five ratings is adopted as the overall deck geometry rating. The MSIA coding manual contains a more thorough discussion of the logic used in this appraisal.

Table 8 shows the number and percentage of bridges in each county with deck geometry appraisal indicating high-priority action. Unlike structural evaluations, deck geometry appraisals show a greater need for replacement than for corrective action in all counties except Livingston. Also, while Wayne County has the highest percentage of bridges needing replacement, Macomb, Oakland, St. Clair, and Washtenaw Counties are not far behind on a percentage basis. A regional total of 168 bridges are in need of correction because of their deck geometry, and 519 are in need of replacement because of their deck geometry. These regional numbers correspond to 4.8 percent and 14.7 percent, respectively. The percent needing replacement is significantly higher than the percent in the entire state (8.9 percent).

Table 8

Bridges Needing Attention for Deck Geometry

	Needing correction	Needing replacement	Total bridges
Livingston	13 (7.7%)	11 (6.5%)	168
Macomb	18 (4.2%)	63 (14.9%)	424
Monroe	13 (3.8%)	18 (5.2%)	345
Oakland	22 (4.3%)	74 (14.5%)	511
St. Clair	25 (6.9%)	47 (12.9%)	364
Washtenaw	25 (8.8%)	37 (13.1%)	283
Wayne	52 (3.6%)	269 (18.8%)	1,429
Southeast Michigan Total	168 (4.8%)	519 (14.7%)	3,524
Michigan Total	607 (4.9%)	1,107 (8.9%)	12,435

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Approach alignment

This rating reflects the extent to which the alignment of the approach to the bridge is perceived to cause drivers to slow down sharply. Research has shown that sharp speed reductions are associated with higher crash rates. The following qualitative scale is used to rate the alignment:

- 8 = no speed reduction (a desirable standard),
- 6 = a very minor speed reduction is required (a minimum standard), and
- 3 = a substantial speed reduction is required (alignments rated 3 or less are considered intolerable).

Although the MSIA coding manual does not explicitly define an approach alignment rating of 2, it is reasonable to assume that such a rating is comparable to a value of 2 on the full 0-9 scale presented earlier, as are the values of 3, 6, and 8.

Relative to other appraisal ratings, there are few bridges in the region needing attention for approach alignment. Only nine bridges regionally have a high-priority need for replacement, and 32 have a high-priority need for correction. Wayne County has no bridges in either category. The county with the most bridges needing attention is Monroe, with 17 bridges needing correction and no bridges needing replacement. These 17 bridges are nearly five percent of all bridges in Monroe County. In the region as a whole, 98.8 percent of all bridges have acceptable approach alignments. Nearly one percent of bridges need corrective action, and 0.3 percent of bridges need replacement for reasons of approach alignment. Additional county-specific information can be found in Table 9.

Table 9

Bridges Needing Attention for Approach Alignment

	Needing correction	Needing replacement	Total bridges
Livingston	4 (2.4%)	0 (0.0%)	168
Macomb	2 (0.5%)	1 (0.2%)	424
Monroe	17 (4.9%)	0 (0.0%)	345
Oakland	6 (1.2%)	0 (0.0%)	511
St. Clair	2 (0.5%)	3 (0.8%)	364
Washtenaw	1 (0.3%)	5 (1.8%)	283
Wayne	0 (0.0%)	0 (0.0%)	1,429
Southeast Michigan Total	32 (0.9%)	9 (0.3%)	3,524
Michigan Total	142 (1.1%)	56 (0.5%)	12,435

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Posting Status of Bridges

To prevent heavy vehicles operating at the highway system's legal load limit from exerting stresses on a bridge that is weakened, some bridges must be posted with signs indicating load limits. Highway agencies may post a bridge at less than its operating rating. Because of this, the MSIA database includes two different data items related to bridge posting; one identifies bridges that must be posted to avoid exceeding their operating rating, and the other identifies bridges that are actually posted. Bridges that are required to be posted with load restrictions are categorized according to the required percent reduction below normal load limits.

Statewide, there were 56 structures in the MSIA database for which this item was not coded. These bridges are not included in Table 10 which shows a detailed breakdown of the required bridge posting by county. Ninety-two percent of the bridges in Southeast Michigan do not require posting. Of the counties in Southeast Michigan, Wayne County has the highest percentage (95.8 percent) of bridges that do not require posting. The county with the lowest percentage of such bridges is Livingston County, at 79.2 percent.

The most extreme posting category in the table is a load reduction of 40 percent or more. The county with the largest percentage of bridges in this category is Macomb County (10.6 percent), and the county with the lowest proportion of such bridges is Wayne County (1.5 percent).

There are many different codes in the database that indicate how a bridge is actually posted. One code designates those bridges that are required to be posted, but for which posting has not been fully implemented. According to the MSIA database, there are 157 of these bridges in Michigan, 18 of which are in Southeast Michigan. In Southeast Michigan, 277 bridges are required to be posted, as shown in Table 10. Of these bridges 213 are actually posted, and 18 are coded to indicate that posting has not been fully implemented, leaving 46 bridges not posted that should be posted, according to the database.

Closed bridges

According to the MSIA database, there are 42 bridges in Southeast Michigan and 115 bridges outside Southeast Michigan that are closed to all traffic. This figure does not include new bridges that are not yet open to traffic. Seventeen of these closed bridges are in Macomb County, and 11 are in Monroe County. Wayne County has seven closed bridges, and Washtenaw, Livingston, and Oakland counties have 4, 2, and 1 closed bridges respectively.

Table 10

Percent Load Reduction Required

	No posting required	0.1- 9.9%	10.0- 19.9%	20.0- 29.9%	30.0- 39.9%	40% or more	Total
Livingston	133 (79.2%)	5 (3.0%)	5 (3.0%)	2 (1.2%)	5 (3.0%)	16 (9.5%)	168
Macomb	367 (86.6%)	4 (1.0%)	1 (0.2%)	3 (0.7%)	3 (0.7%)	45 (10.6%)	424
Monroe	317 (91.9%)	0 (0.0%)	6 (1.7%)	2 (0.6%)	0 (0.0%)	20 (5.8%)	345
Oakland	468 (91.6%)	5 (1.0%)	9 (1.8%)	5 (1.0%)	1 (0.2%)	18 (3.5%)	511
St. Clair	321 (88.2%)	5 (1.4%)	8 (2.2%)	10 (2.7%)	3 (0.8%)	17 (4.7%)	364
Washtenaw	245 (86.6%)	3 (1.1%)	6 (2.1%)	9 (3.2%)	3 (1.1%)	15 (5.3%)	283
Wayne	1,369 (95.8%)	6 (0.4%)	9 (0.6%)	3 (0.2%)	3 (0.2%)	22 (1.5%)	1,429
Southeast Michigan Total	3,220 (91.3%)	28 (0.8%)	44 (1.2%)	34 (1.0%)	18 (0.5%)	153 (4.3%)	3,524
Michigan Total	10,800 (86.9%)	171 (1.4%)	176 (1.4%)	194 (1.6%)	135 (1.1%)	903 (7.3%)	12,435

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Traffic Safety Features

The adequacy of the following traffic safety features are inspected on bridges:

- Bridge railings — The design of a bridge’s railings is evaluated for its ability to smoothly redirect impacting vehicles. Important factors include material, strength, rail height, and other geometric features. Desirable standards for bridge railings are published by the American Association of State Highway and Transportation Officials (AASHTO).
- Transitions — To ensure that a vehicle striking a bridge’s approach guardrail is not directed into a head-on collision with the parapet, the approach rail must be firmly attached to the parapet or bridge railing. To minimize the potential for snagging and to provide more uniform deceleration, the approach guardrail also needs to be stiffened in the final few feet before reaching the bridge.
- Approach guardrail — An approach guardrail with adequate length and structural qualities to shield motorists from the hazards at a bridge site is an important safety feature. The guardrail must also provide for an appropriate transition to the bridge railing.
- Approach guardrail end treatment — As with guardrail ends in general, the leading ends of bridge approach guardrails should be flared, buried, made breakaway, or shielded.

Each of the above four safety features receives one of the following ratings:

- 1 = inspected feature meets currently acceptable standards;
- 0 = inspected feature does not meet currently acceptable standards, or a safety feature is required and none is provided;
- N = not applicable, or a safety feature is not required.

Table 11 shows the number of bridges in each county that have safety-feature deficiencies as described above. Thirty-seven bridges in Southeast Michigan and 770 bridges in Michigan were not coded for these items in the MSIA database, and these bridges are not included in Table 11. In all counties, as well as regionally and statewide, most of the bridges either exhibit no safety feature deficiencies or are deficient in all four features. Relatively few bridges in each county have one, two, or three safety-feature deficiencies. Regionally, over 54 percent of all bridges have no safety features missing compared with over 43 percent in Michigan.

Table 11

Bridges with Safety-Feature Deficiencies

	No deficiencies	One deficiency	Two deficiencies	Three deficiencies	Four deficiencies	Total bridges
Livingston	60 (35.7%)	23 (13.7%)	9 (5.4%)	3 (1.8%)	73 (43.5%)	168
Macomb	191 (45.0%)	54 (12.7%)	44 (10.4%)	28 (6.6%)	107 (25.2%)	424
Monroe	129 (37.4%)	32 (9.3%)	11 (3.2%)	12 (3.5%)	161 (46.7%)	345
Oakland	339 (66.3%)	48 (9.4%)	30 (5.9%)	34 (6.7%)	60 (11.7%)	511
St. Clair	165 (45.3%)	60 (16.5%)	12 (3.3%)	34 (9.3%)	93 (25.5%)	364
Washtenaw	157 (55.5%)	35 (12.4%)	11 (3.9%)	13 (4.6%)	67 (23.7%)	283
Wayne	905 (63.3%)	140 (9.8%)	71 (5.0%)	48 (3.4%)	265 (18.5%)	1,429
Southeast Michigan Total	1,909 (54.2%)	392 (11.1%)	188 (5.3%)	172 (4.9%)	826 (23.4%)	3,524
Michigan Total	5,399 (43.4%)	1,218 (9.8%)	695 (5.6%)	792 (6.4%)	3,561 (28.6%)	12,435

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Structurally Deficient or Functionally Obsolete Bridges

Condition and appraisal ratings are evaluated in order to identify bridges that are either *structurally deficient* or *functionally obsolete*. These terms are defined by the Federal Highway Administration, and apply only to bridges carrying highway traffic — not railroad or pedestrian traffic, for example. Structural deficiency is a more serious condition than functional obsolescence, so bridges qualifying for both classifications are declared structurally deficient.

- Structurally deficient bridges are those with a condition rating for deck, superstructure, substructure, or culverts (as applicable) of poor or worse, or those with a structural evaluation or waterway adequacy rating (as applicable) indicating a high-priority need for replacement.
- Functionally obsolete bridges are those with a structural evaluation or waterway adequacy rating (as applicable) indicating a high-priority need for correction, or those with an appraisal rating for deck geometry, grade-crossing underclearance (as applicable), or approach roadway alignment indicating a high-priority need for correction or replacement.

A bridge must be classified as structurally deficient or functionally obsolete in order to be eligible for funds from the federal Highway Bridge Replacement and Rehabilitation Program.

Table 12 shows the number and percent of structurally deficient or functionally obsolete bridges in each county. The total number of bridges in each county is shown in the last column. The county with the lowest percent of structurally deficient bridges is St. Clair, with 16.1 percent. Over 26 percent of bridges in Wayne County are structurally deficient, which is the highest percentage of any of the counties.

Monroe County has the lowest percentage of functionally obsolete bridges, with 7.9 percent. The county with the highest proportion of bridges falling into this category is Wayne County, with 24.7 percent. Regionally, 23.2 percent of all bridges are structurally deficient and 17.7 percent are functionally obsolete. Figure 11 shows that almost 58 percent of the bridges in the region that carry highway traffic are neither structurally deficient or functionally obsolete.

The tables in Appendix B list the bridges in each county that were classified as structurally deficient or functionally obsolete as September 2001. The maps in Appendix C show the location of the same bridges.

Table 12

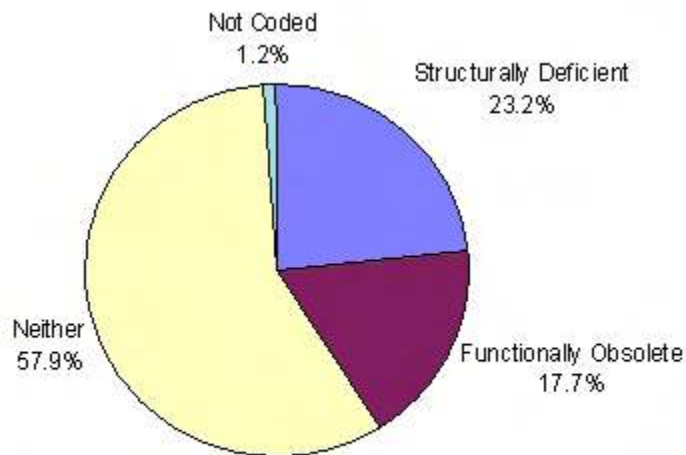
Number of Structurally Deficient and Functionally Obsolete Bridges in Southeast Michigan

	Structurally deficient bridges	Functionally obsolete bridges	Total bridges (highway traffic only)
Livingston	41 (24.8%)	21 (12.7%)	165
Macomb	95 (22.9%)	48 (11.6%)	414
Monroe	81 (23.8%)	27 (7.9%)	340
Oakland	90 (19.4%)	96 (20.7%)	463
St. Clair	58 (16.1%)	50 (13.9%)	361
Washtenaw	66 (24.5%)	42 (15.6%)	269
Wayne	278 (26.6%)	258 (24.7%)	1,044
Southeast Michigan Total	709 (23.2%)	542 (17.7%)	3,056
Michigan Total	2,085 (17.7%)	1,360 (11.5%)	11,792

Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure 11

Structurally Deficient or Functionally Obsolete Bridges in Southeast Michigan



Source: Michigan Structure Inventory & Appraisal database, September 2001.

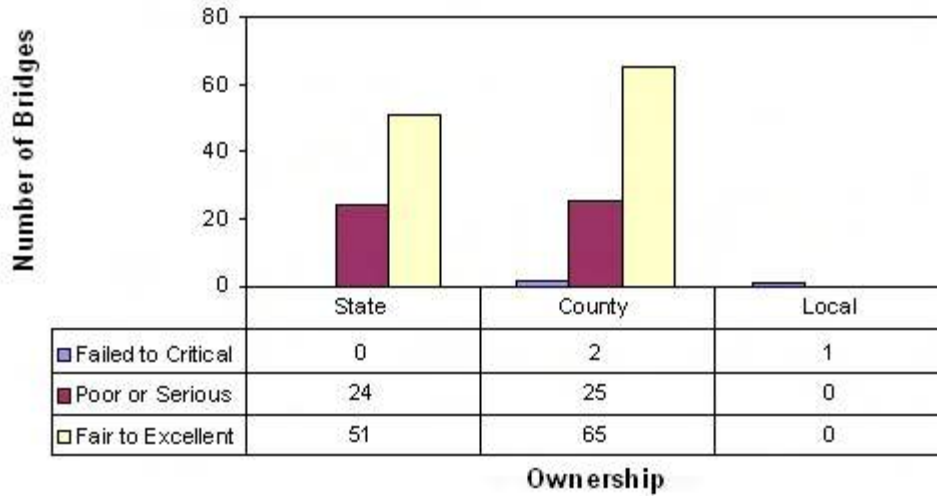
Future Reports

This report is intended to summarize the state of Southeast Michigan's bridge infrastructure. A report will be issued annually for the purpose of tracking changes in the bridge population from year to year. Deficiencies identified may be used in project planning by local transportation agencies. A companion report, *Michigan's Critical Bridge Program*, will summarize sources of bridge funding, including the Michigan Critical Bridge Program. In future years, the annual report on the status of bridge may be combined with the report on sources of funding.

Appendix A

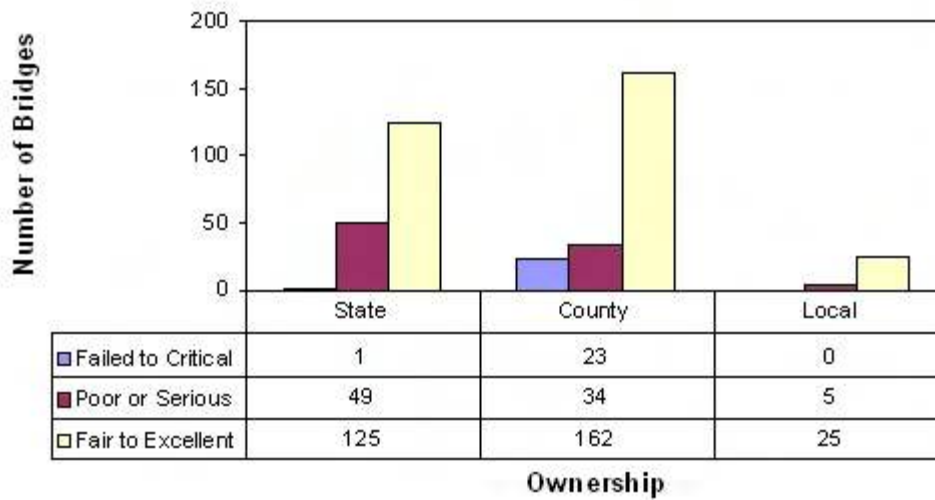
Bridge Condition by County and Ownership

Figure A-1
Livingston County Bridges by Condition and Ownership



Source: Michigan Structure Inventory & Appraisal database, September 2001.

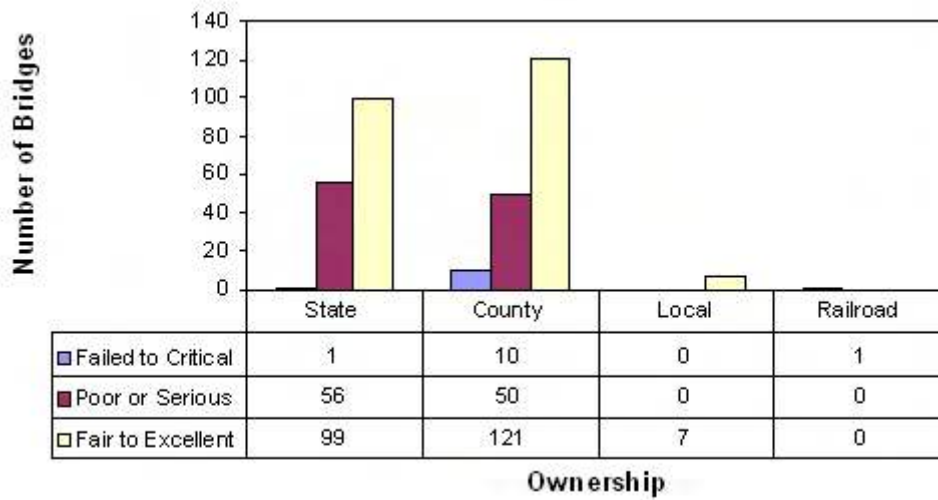
Figure A-2
Macomb County Bridges by Condition and Ownership



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure A-3

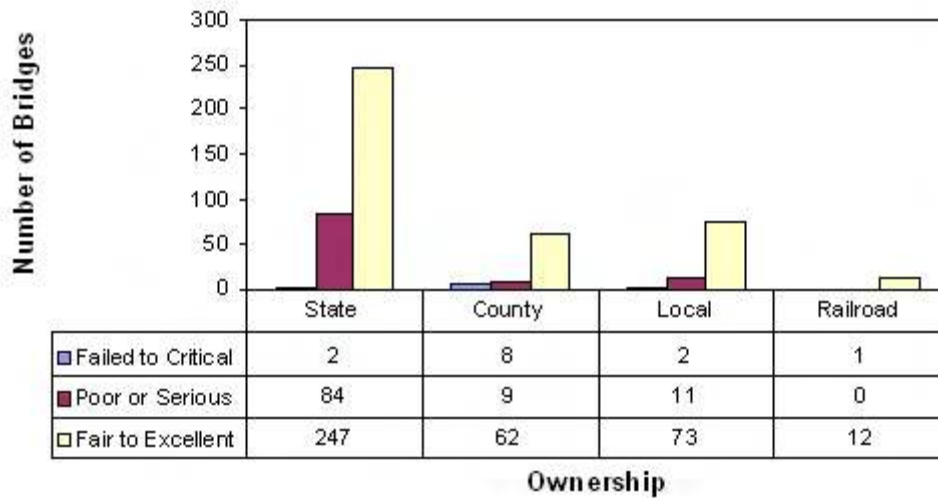
Monroe County Bridges by Condition and Ownership



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure A-4

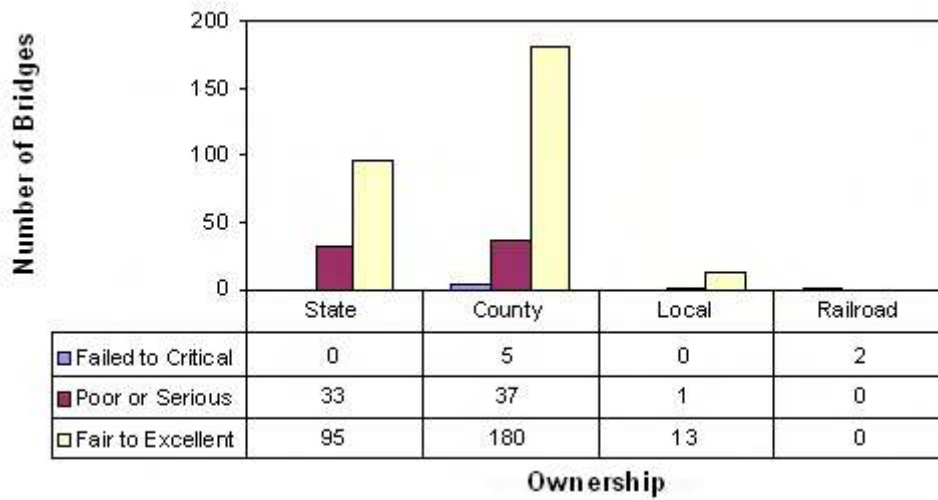
Oakland County Bridges by Condition and Ownership



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure A-5

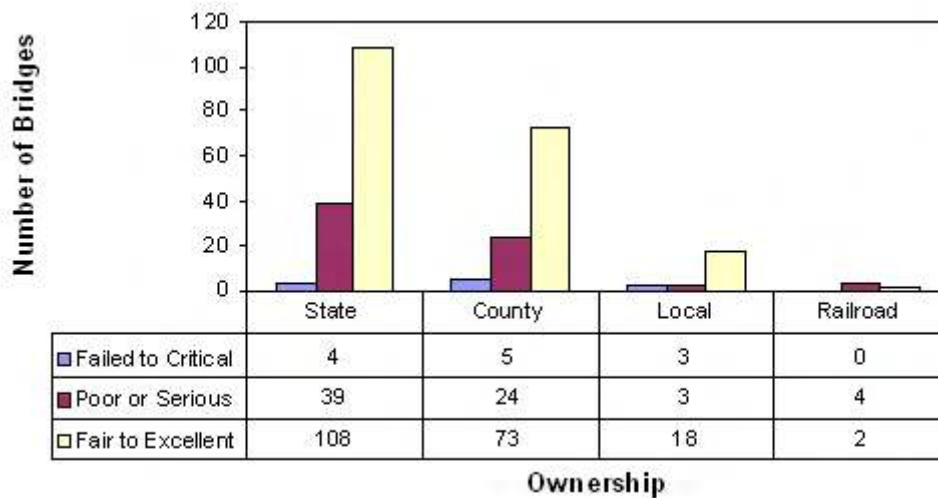
St. Clair County Bridges by Condition and Ownership



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure A-6

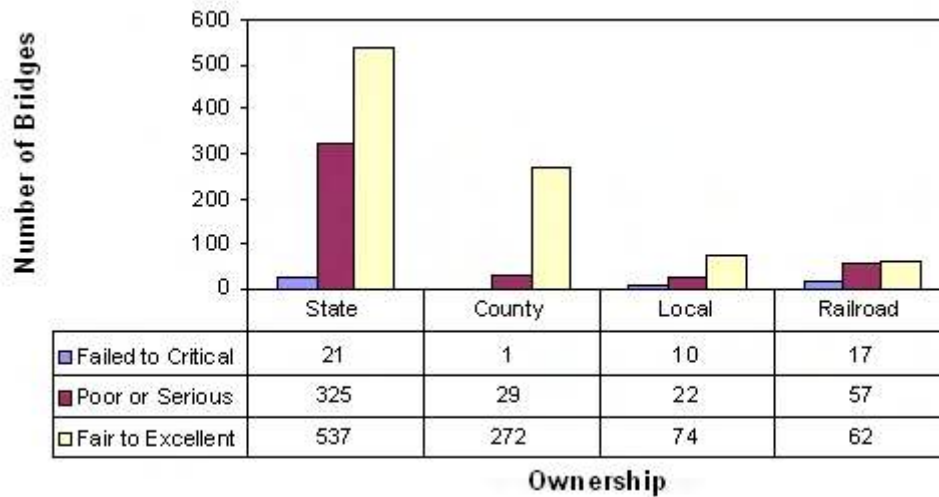
Washtenaw County Bridges by Condition and Ownership



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure A-7

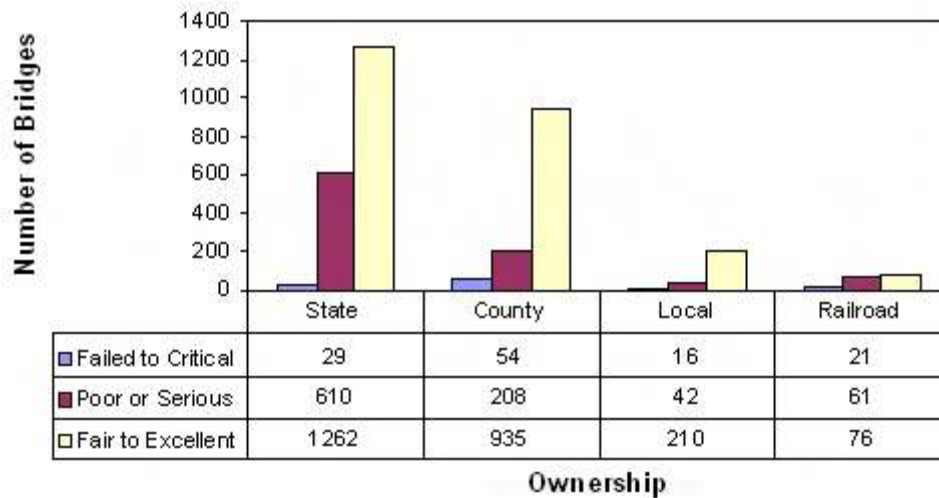
Wayne County Bridges by Condition and Ownership



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Figure A-8

Southeast Michigan Bridges by Condition and Ownership



Source: Michigan Structure Inventory & Appraisal database, September 2001.

Appendix B

Structurally Deficient or Functionally Obsolete Bridges by County

Table B-1

Livingston County Structurally Deficient or Functionally Obsolete Bridges

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
ANTCLIFF ROAD	STONER CREEK	SEC. 9 COHOCTAH TWP.	SD	Poor	Posted
BOWDISH ROAD	UNNAMED CREEK	SEC. 32 UNADILLA TWP.	SD	Serious	Open
CHILSON RD	I-96	3.0 MI SE OF M-155	SD	Poor	Open
CLYDE ROAD	N. ORE CREEK	SEC. 5-8 HARTLAND TWP.	FO	Satisfactory	Open
CROFOOT ROAD	MIDDLE BR. RED CEDAR RIV	SEC. 2 IOSCO TWP.	SD	Failed	Closed
CROUSE RD	US-23	1.6 MI N OF M-59	SD	Poor	Open
CROUSE ROAD	N. ORE CREEK	SEC. 16 HARTLAND TWP.	FO	Fair	Posted
DEAN ROAD	YELLOW RIVER DRAIN	SEC. 20-29 DEERFIELD TWP.	SD	Serious	Posted
DORR RD	I-96	1.6 MI SE OF I-96 BL	FO	Fair	Open
ELLIS ROAD	CONWAY-COHOCTAH UNION DN	SEC. 8 COHOCTAH TWP.	SD	Serious	Open
FAUSSETT ROAD	BOGUE CREEK	SEC. 36 COHOCTAH TWP.	SD	Serious	Posted
FAUSSETT ROAD	ORE CREEK	SEC. 30 TYRONE TWP.	FO	Fair	Posted
FAUSSETT ROAD	YELLOW RIVER DRAIN	SEC. 28-33 DEERFIELD TWP.	SD	Poor	Posted
FISHER ROAD	HOWELL-OSCEOLA DRAIN	SEC. 12 HOWELL TWP.	FO	Satisfactory	Open
FISK ROAD	UNNAMED CREEK	SEC. 1 MARION TWP.	FO	Fair	Open
FOWLERVILLE ROAD	CONWAY COHOCTAH DRAIN	SEC. 14-15 CONWAY TWP.	SD	Poor	Posted
GRAND RIVER AVE	US-23 SB	.5 MI S OF I-96	FO	Satisfactory	Open
GRAND RIVER ST	RED CEDAR RIVER	IN FOWLERVILLE	SD	Critical	Open
GREGORY ROAD	RED CEDAR RIVER IMP. DN.	SEC. 3-4 HANDY TWP.	SD	Serious	Posted
HAMBURG ROAD	UNNAMED CREEK	SEC. 12 HAMBURG TWP.	SD	Poor	Posted
I-96 BL	S BR SHIAWASSEE R	1.9 MI W OF HOWELL	SD	Serious	Open
I-96 BL (ON RMP)	I-96 WB	@ I-96 BL	SD	Serious	Open
I-96 EB	OLD US-23	@ US-23	SD	Serious	Open
I-96 EB	US-23NB	@ US-23	SD	Poor	Open
I-96 WB	OLD US-23	@ US-23	SD	Serious	Open
I-96 WB	GRAND RIVER AVE	2.4 MI NW OF US-23	SD	Poor	Open
I-96 WB	US-23SB	@ US-23	FO	Fair	Open
JEWELL ROAD	MARION DRAIN #2	SEC. 9-16 MARION TWP.	SD	Serious	Posted
KENSINGTON RD	I-96	3.4 MI E OF US-23	FO	Fair	Open
LANGE ROAD	MIDDLE BR. RED CEDAR RIV	SEC. 11 IOSCO TWP.	SD	Poor	Posted
LATSON ROAD	YELLOW RIVER DRAIN	SEC. 08 DEERFIELD TWP	SD	Serious	Posted
LAYTON ROAD	E BR RED CEDAR RIVER DRN	SEC. 19 HOWELL TWP.	SD	Poor	Posted
LEE RD	US-23	1.0 MI S OF I-96	FO	Fair	Open
M-155	S BR SHIAWASSEE R	2.0 MI SW OF HOWELL	SD	Poor	Open
M-155 (MASON RD)	I-96	@ M-155	SD	Serious	Open
M-59	BOGUE CR	0.1 MI E OF MICHIGAN ROAD	SD	Poor	Open
M-59,I-96 BL	CSX RR	.4 MI E OF I-96	SD	Poor	Open
M-59/I-96BL	I-96	@ M-59	SD	Poor	Open
MARR ROAD	S. BR. SHIAWASSEE RIVER	SEC. 10 HOWELL TWP.	FO	Fair	Posted
MASON ROAD	WEST BR. RED CEDAR RIVER	SEC31HANDY	SD	Serious	Posted
MASON ROAD	SOUTH BR. SHIAWASSEE RIV	SEC.3MARIONTWP.	FO	Excellent	Open
MCCABE ROAD	HURON RIVER	SEC. 16 GREEN OAK TWP.	FO	Satisfactory	Posted
MILLET ROAD	RED CEDAR RIVER	SEC. 30 HOWELL TWP.	FO	Fair	Open
NB US-23	I-96WB	@ US-23	FO	Fair	Open
NICHOLSON RD	I-96	2.0 MI E OF INGHAM CO LIN	FO	Satisfactory	Open
ODELL ROAD	WEST BR. RED CEDAR RIVER	SEC. 8 IOSCO TWP.	SD	Serious	Posted
OWOSSO ROAD	STONER CREEK	SEC. 7 COHOCTAH TWP.	FO	Fair	Open
PEAVY ROAD	MARION-GENOA DRAIN	SEC. 2 MARION TWP.	FO	Fair	Posted
PLEASANT VALLEY RD	I-96	2.0 MI E OF US-23	FO	Satisfactory	Open

**Livingston County Structurally Deficient or Functionally Obsolete Bridges,
continued**

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
ROEPKE ROAD	PORTAGE RIVER	SEC. 34 UNADILLA TWP.	SD	Serious	Posted
RUSHTON ROAD	DAVIS CREEK	SEC. 14 GREEN OAK TWP.	FO	Good	Posted
SPENCER RD	US-23	.9 MIN OF I-96	SD	Poor	Open
TIPLADY ROAD	PORTAGE CREEK	SEC. 34 PUTNAM TWP.	FO	Satisfactory	Posted
TOWNLEY ROAD	ORE CREEK	SEC. 08 HARTLAND TWP	SD	Failed	Closed
UNADILLA ROAD	PORTAGE RIVER	SEC. 35 UNADILLA TWP.	SD	Poor	Open
US-23	M-36	@ M-36	SD	Poor	Open
US-23 NB	M-59	@ M-59	SD	Poor	Open
US-23 NB	CENTER RD	3.4 MI S OF GENESEE CO LI	SD	Poor	Open
US-23 NB	ORE CREEK	1.7 MIN OF M-59	SD	Poor	Open
US-23 SB	CENTER RD	3.4 MI S OF GENESEE CO LI	SD	Serious	Open
US-23 SB	M-59	@ M-59	SD	Poor	Open
WHITMORE LAKE ROAD	CN-GTC-GTW R.R. CO.(ABN)	SEC. 32 GREEN OAK TWP.	SD	Poor	Open

Table B-2

Macomb County Structurally Deficient or Functionally Obsolete Bridges

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
10 MI RD	I-94	W LTS OF ST CLAIR SHORES	FO	Fair	Open
10 MI RD N INT	I-94	W LTS OF ST CLAIR SHORES	FO	Satisfactory	Open
10 MI RD S INT	I-94	W LTS OF ST CLAIR SHORES	FO	Poor	Open
11 MI.ROAD E.BD.	MND.RD.&RMPS C&D O I696	CITY OF WARREN	SD	Serious	Open
12 MI RD	I-94	W LTS OF ST CLAIR SHORES	SD	Poor	Open
12 MI RD N INTERCH	I-94	W LTS OF ST CLAIR SHORES	SD	Poor	Open
12 MI RD S INTERCH	I-94	W LTS OF ST CLAIR SHORES	FO	Satisfactory	Open
14 MILE RD	BIG BEAVER CREEK	0.3 MI W OF VAN DYKE	FO	Satisfactory	Open
14 MILE ROAD	RED RUN DRAIN	310 FT W OF HOOVER RD	SD	Serious	Open
18 MILE ROAD	PLUMBROOK DRAIN	0.3 MI EAST OF MOUND RD	SD	Poor	Open
18.5 MILE RD	PLUM BROOK DRAIN	EAST OF RYAN RD	FO	Fair	Posted
21 MI RD	M-53	1.0 MIN OF M-59	SD	Poor	Open
21 MI RD	I-94	1.1 MINE OF M-59	FO	Fair	Open
21 MILE ROAD	SALT SLANG GLOEDE DRAIN	418 FT WEST OF GARFIELD	SD	Poor	Open
21 MILE ROAD	MIDDLE BR CLINTON RIVER	0.2 MI E OF ROMEO PLANK	FO	Very Good	Open
22 MI RD	M-53	2.0 MIN OF M-59	SD	Poor	Open
22 MILE ROAD	SALT SLANG GLOEDE DRAIN	0.8 MI EAST OF HAYES ROAD	FO	Satisfactory	Open
23 MI RD	M-53	3.0 MIN OF M-59	SD	Poor	Open
23 MILE RD	MIDDLE BR CLINTON RIVER	0.1MI EAST OF ROMEO PLANK	FO	Fair	Open
23 MILE ROAD	NORTH BRANCH CLINTON R	0.2MI WEST OF NORTH AVE	FO	Fair	Open
25 MILE ROAD	NORTH BRANCH CLINTON R	0.6 MI WEST OF CARD ROAD	SD	Poor	Open
26 MI RD	I-94	1.5 MI SW OF ST CLAIR CO	SD	Poor	Open
26 MI RD	M-53	6.2 MIN OF M-59	SD	Serious	Open
26 MILE ROAD	BRANCH OF KIRKHAM DRAIN	1.7 MI E OF NEW HAVEN RD	FO	Satisfactory	Open
26 MILE ROAD	DEER CREEK	2.5MI W OF GRATIOT US-25	SD	Serious	Posted
26 MILE ROAD	NORTH BRANCH CLINTON R	1.2 MI WEST OF NORTH AVE	FO	Satisfactory	Open
26 MILE ROAD	KIRKHAM DRAIN	1.3MI E OF NEW HAVEN ROAD	FO	Fair	Open
27 MILE ROAD	N BRANCH CLINTON RIVER	0.3 MI WEST OF RAY CENTER	SD	Failed	Closed
27 MILE ROAD	TUPPER BROOK DRAIN	0.1 MI E OF INDIAN TRAIL	SD	Failed	Closed
28 MILE ROAD	OVERFLOW N B CLINTON	1.5 MI WEST OF NORTH AVE	SD	Failed	Closed
28 MILE ROAD	SALT RIVER	0.4 MI WEST OF GRATIOT	SD	Failed	Closed
28 MILE ROAD	N B CLINTON RIVER	1.3 MI WEST OF NORTH AVE	SD	Failed	Closed
28 MILE ROAD	OVERFLOW N B CLINTON R	1.4 MI WEST OF NORTH AVE	SD	Failed	Closed
29 MILE ROAD	NORTH BRANCH CLINTON RIV	0.5 MI W OF RAY CENTER RD	FO	Very Good	Open
29 MILE ROAD	EAST BRANCH COON CREEK	0.2 MI EAST OF OMO ROAD	SD	Critical	Posted
29 MILE ROAD	CAMP BROOK DRAIN	0.5MI E OF ROMEO PLANK RD	FO	Good	Open
30 MILE ROAD	HEALY BROOK DRAIN	1.3 MI EAST OF VAN DYKE	SD	Poor	Posted
30 MILE ROAD	NORTH BRANCH CLINTON R	0.2 MI WEST OF WOLCOTT RD	SD	Failed	Closed
31 MILE ROAD	EAST BRANCH COON CREEK	0.05 MI EAST OF OMO ROAD	SD	Satisfactory	Closed
31 MILE ROAD	N BRANCH CLINTON RIVER	0.4 MI E OF ROMEO PLANK	FO	Satisfactory	Open
32 MILE ROAD	N BR CLINTON RIVER	0.4 MI W OF ROMEO PLANK	FO	Satisfactory	Open
33 MILE ROAD	HIGHBANK CREEK	0.6 MI EAST OF OMO ROAD	SD	Serious	Posted
33 MILE ROAD	CEMETER Y CREEK	0.5 MI EAST OF OMO ROAD	SD	Serious	Posted
696 SERVICE RD.	I-696 RAMP N TO W	IN ROSEVILLE	FO	Satisfactory	Open
9 MI RD	I-94	W LTS OF ST CLAIR SHORES	FO	Fair	Open
9 MI RD NB TURN RD	I-94	W LTS OF ST CLAIR SHORES	SD	Poor	Open
9 MI RD SB TURN RD	I-94	IN ST CLAIR SHORES	FO	Satisfactory	Open
ARMADA CENTER RD	COON CREEK	0.1 MI WEST OF COON CREEK	FO	Fair	Open
ARMADA CENTER ROAD	EAST BRANCH COON CREEK	0.2 MI EAST OF NORTH AVE	SD	Serious	Posted
ARSENAL AVE	I-696	IN WARREN & CENTERLINE	FO	Fair	Open
AUBURN RD	CLINTON RIVER	WEST OF VAN DYKE	FO	Good	Open
BASE ST	CRAPEAU CREEK	WEST OF M-29	SD	Poor	Open
BEACH STREET	LAKE ST. CLAIR CANAL	0.1 MI. E. OF JEFFERSON	SD	Poor	Posted
BORDMAN ROAD	EAST BRANCH COON CREEK	0.4 MI WEST OF NORTH AVE	SD	Failed	Posted

Macomb County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
CAMPBELL RD	I-696	IN WARREN	SD	Serious	Open
CARD ROAD	NORTH BR CLINTON RIVER	0.5 MI NORTH OF 24 MILE	SD	Failed	Closed
CASS AVE	NORTH BRANCH CLINTON RIV	0.25 MI WEST OF MORAVIAN	FO	Very Good	Open
CO LINE RD	I-94	ST CLAIR CO LINE	SD	Serious	Open
CROCKER BLVD	CLINTON RIVER	E OF M3 NB	FO	Good	Open
DICKINSON ST	CLINTON RIVER	EAST OF GRATIOT	FO	Satisfactory	Open
DODGE PARK RD	PLUM BROOK DRAIN	N OF 16 MILE RD	FO	Good	Open
DUNHAM ROAD	MILLER DRAIN	0.1 MI W OF HEYDENREICH	FO	Fair	Open
EARL MEM HWY	M B CLINTON RIVER	0.3 MI SOUTH OF 25 MI RD	SD	Poor	Open
EAST ARCHER DRIVE	CHANNEL TO LAKE ST CLAIR	0.1 MI S OF S RIVER RD	SD	Serious	Posted
FAIRFIELD AVE	I-696	IN WARREN	FO	Fair	Open
FRAZHO RD	I-94	W LTS OF ST CLAIR SHORES	SD	Poor	Open
GARFIELD RD	CLINTON RIVER	0.1 MI S OF CLINTON R RD	SD	Poor	Open
HAGEN ROAD	DEER CREEK	1.0 MI EAST OF NORTH AVE	SD	Failed	Posted
HARPER AVE	CLINTON HARRISON DRAIN	BET 15 MILE RD AND I-94	SD	Serious	Open
HARPER AVE	CLINTON RIVER SPILLWAY	0.6 MI NORTH OF 16 MILE	FO	Satisfactory	Open
HAYES RD	I-696	IN WARREN & ROSEVILLE	SD	Poor	Open
HAYES ROAD	PRICE BROOK DRAIN	0.2 MI SOUTH OF 26 MILE	SD	Critical	Open
I-94	14 MILE RD	N LTS ST CLAIR SHORES	SD	Poor	Open
I-94	METRO BEACH PKWY RD	1.0 MI NE OF OLD M-29	SD	Serious	Open
I-94	MASONIC BLVD	E LTS OF ROSEVILLE	SD	Poor	Open
I-94	LITTLE MACK AVE	IN ROSEVILLE	SD	Serious	Open
I-94	QUINN RD	0.5 MI N OF ST CLAIR SHRS	SD	Serious	Open
I-94 CONN NB GRATI	13 MILE RD	IN ROSEVILLE , 13 MI RD	SD	Poor	Open
I-94 EB	HARPER RD	0.7 MI. S. OF M-29	FO	Fair	Open
I-94 RAMP(WB BEACH	CLINTON R SPILLWAY	2.0 MI SE OF MT CLEMENS	SD	Serious	Open
I-94 WB	HARPER RD	0.7 MI S OF M-29	SD	Serious	Open
IRWIN ROAD	EAST BRANCH COON CREEK	0.1 MI WEST OF NORTH AVE	SD	Serious	Posted
JEFFERSON AVE	MILK RIVER	S OF NINE MILE ROAD	SD	Serious	Posted
JEFFERSON AVE	VENTRE DE BEUF	0.5MI S OF METRO. PARKWAY	FO	Very Good	Open
JEFFERSON AVE	CLINTON RIVER SPILLWAY	0.4MI W OF CROCKER BLVD	FO	Satisfactory	Open
JEFFERSON AVE	SALT RIVER	0.3 MI N OF SUGARBUSH RD	SD	Poor	Open
KELLY ROAD	HARRINGTON DRAIN	0.5 MI NORTH OF 15 MILE	FO	Good	Open
LAKESHORE DRIVE	CHANNEL TO LAKE ST CLAIR	0.2 MI SOUTH OF HURON PT	SD	Serious	Posted
LAKESHORE DRIVE	CHANNEL TO LAKE ST CLAIR	0.1 MI NORTH OF RIVERDALE	SD	Serious	Posted
LANGE STREET	LAKE ST. CLAIR SHORES	0.1 MI. E. OF JEFFERSON	SD	Poor	Posted
LFT TRN LANE	I-696	IN WARREN E OF HOOVER	FO	Fair	Open
LFT TRN LANE	I-696	IN WARREN W OF HOOVER	FO	Satisfactory	Open
LITTLE ROAD	NORTH BRANCH CLINTON R	AT DUNHAM RD INTERSECTION	SD	Failed	Closed
M-19	ASHERY CR	1.0 MI S OF MEMPHIS	SD	Serious	Open
M-29	MARSAC CR	IN NEW BALTIMORE	FO	Satisfactory	Open
M-3 & M-29	I-94	@ M-3 & M-29	SD	Serious	Open
M-3 NB	CLINTON R	IN MT CLEMENS	SD	Poor	Open
M-3 SB	CLINTON R	IN MT CLEMENS	SD	Serious	Open
M-53	BEAR CR	IN WARREN	FO	Poor	Open
M-53 NB	PLUM CR	3.2 MI S OF M-59	FO	Good	Open
M-53 NB	19 MILE RD	1.0 MI S OF M-59	SD	Serious	Open
M-53 NB	25 MILE RD	5.0 MIN OF M-59	SD	Poor	Open
M-53 NB	24 MILE RD	4.0 MIN OF M-59	SD	Serious	Open
M-53 NB	MIDDLE BR CLINTON RIVER	5.6 MIN OF M-59	SD	Poor	Open
M-53 SB	25 MILE RD	5.0 MIN OF M-59	SD	Poor	Open
M-53 SB	19 MILE RD	1.0 MI S OF M-59	SD	Poor	Open
M-53 SB	MIDDLE BR CLINTON RIVER	5.6 MIN OF M-59	SD	Serious	Open
M-53 SB	24 MILE RD	4.0 MIN OF M-59	SD	Failed	Open
M-59 EB	N BR CLINTON R	0.7 MI W OF M-97	SD	Serious	Open

Macomb County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
M-59 WB	RYAN RD	1.5 MI W OF UTICA	FO	Good	Open
M-97	CLINTON R	IN MT CLEMENS	SD	Poor	Open
MCKAY ROAD	N B CLINTON RIVER	0.1 MI S OF SCOTCH SETTLE	SD	Serious	Posted
MCPHALL ROAD	EAST BRANCH COON CREEK	0.2 MI WEST OF NORTH AVE	SD	Serious	Posted
METZ ROAD	MIDDLE BRANCH CLINTON R	150 FT WEST OF EARL MEM	SD	Failed	Closed
MORAVIAN DR.	CLINTON RIVER	0.5 MI SOUTH OF CASS AVE.	SD	Poor	Posted
N.BD.SERVICE RD.	I-696	IN THE CITY OF WARREN	SD	Poor	Open
NB GRATIOT AVE M-3	I-696	IN ROSEVILLE	SD	Poor	Open
NEW HAVEN RD	SALT RIVER	0.1 MILE WEST OF BAKER RD	SD	Poor	Open
NEW HAVEN RD	E B COON CREEK	0.1 MILE WEST OF 28 MILE	SD	Poor	Open
NEW HAVEN RD	DEER CREEK	0.1 MILE EAST OF PLACE RD	SD	Poor	Open
NORTH AVE	E B COON CREEK	0.5MIN OF ARMADA CENTER	FO	Fair	Open
PARDEE ROAD	CHANNEL TO LAKE ST CLAIR	0.1 MI NORTH OF RIVERDALE	SD	Serious	Posted
QUINN ROAD	CLINTON HARRISON DRAIN	100 FT WEST OF I-94	SD	Poor	Open
RAMPS E&F	MOUND &SER.RDS OV I-696	CITY OF WARREN	SD	Poor	Open
ROMEO PLANK RD	GLOEDE DRAIN	0.5 MILES SOUTH OF M-59	SD	Serious	
RYAN ROAD	CLINTON RIVER	0.8 MI S OF 23 MILE ROAD	SD	Poor	Open
S.BD.SERVICE RD.	RAMPS A&F.OFF I-696	CITY OF WARREN	FO	Satisfactory	Open
S.BD.SERVICE RD.	RAMPS D&H OFF I-696	CITY OF WARREN	SD	Poor	Open
S.BD.SERVICE RD.	I-696	IN THE CITY OF WARREN	SD	Poor	Open
SB GRATIOT AVE M-3	I-696	IN ROSEVILLE	SD	Poor	Open
SCHOENHERR LFT TRN	I-696	IN WARREN @ SCHOENHERR	FO	Fair	Open
SCHOENHERR RD	RED RUN DRAIN	0.2 MI S OF 15 MILE RD	FO	Satisfactory	Open
SHOOK ROAD	CLINTON HARRISON DRAIN	200 FT WEST OF I-94	SD	Poor	Open
SO- SERVICE RD	I-696	IN ROSEVILLE	SD	Poor	Open
SOUTH RIVER RD	CHANNEL BETW LAKE & RIVR	0.3 MI E OF LAKE SHORE DR	FO	Satisfactory	Open
STEPHENS DR	I-94	W LTS OF ST CLAIR SHORES	SD	Serious	Open
U TURN @ AUGUSTINE	I-696	0.1 MILES E. OF DEQUINDRE	SD	Serious	Open
U TURN @ ELCAPITAN	I-696	IN WARREN W OF RYAN	FO	Satisfactory	Open
VAN DYKE AVE	CLINTON RIVER	0.3 MI SOUTH OF M-59	SD	Poor	Open
WAGNER DR	I-696	IN WARREN	SD	Serious	Open
WEBER ROAD	BELLE RIVER	1.3 MILES EAST OF M-19	SD	Failed	Closed
WEST MAIN STREET	E. BR. COON CREEK	SEC. 23 ARMADA TWP.	FO	Good	Open
WOLCOTT ROAD	N BRANCH CLINTON RIVER	0.4 MI NORTH OF 29 MILE	SD	Serious	Posted

Table B-3

Monroe County Structurally Deficient or Functionally Obsolete Bridges

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
ALLEN COVE ROAD	MUDDY CREEK	CITY OF LUNA PIER	FO	Good	Open
ALLISON ROAD	SALINE RIVER	0.2 MI W OF PLANK ROAD	FO	Satisfactory	Open
ANN ARBOR ROAD	BEAR SWAMP CREEK	3.95 MI N OF M 50	SD	Serious	Open
BRAGG ROAD	LITTLE RIVER RAISIN	0.3 MI S OF CAKE ROAD	SD	Poor	Open
BRAGG ROAD	SWAMP RAISIN CREEK	0.2 MI N OF CAKE ROAD	SD	Poor	Open
BREWER RD	SWAMP RAISIN CREEK	2.75 MI E OF COUNTY LINE	SD	Poor	Open
CAKE ROAD	LITTLE RIVER RAISIN	0.1 MI W OF DENNISON ROAD	SD	Serious	Posted
CARLETON ROCKWOOD	SWAN CREEK	1.3 MI E OF GRAFTON RD	SD	Poor	Open
CARLETON WEST RD	DISBROW DRAIN	0.35 MI N OF COLF ROAD	SD	Serious	Open
CONE RD	MILAN CENTER DRAIN	3.7 MI E OF LENAWEЕ CO LI	SD	Fair	Scheduled
CONE RD	WARREN LEWIS DRAIN	4.65 MI E OF LENAWEЕ CO	FO	Satisfactory	Posted
CONE RD	NORTH MACON CREEK	.25 MI W OF US 23	FO	Satisfactory	Posted
DEERFIELD RD	RIVER RAISIN	2.9 MI E OF COUNTY LINE	SD	Poor	Open
DENNISON RD	MIDDLE BRANCH MACON DRAI	.3 MI NO OF M 50	SD	Serious	Open
DENNISON ROAD	LITTLE RIVER RAISIN	50 FT N OF CAKE ROAD	SD	Serious	Open
DENNISON ROAD	SWAMP RAISIN CREEK	0.4 MI S OF BREWER ROAD	SD	Serious	Posted
DUNBAR RD	I-75	2.8 MI SW OF M-50	SD	Serious	Open
ERIE RD	I-75	4.7 MI NE OF OHIO STATE L	FO	Serious	Open
EXETER ROAD	SWAN CREEK	0.3 MI S OF NEWBURG ROAD	SD	Imminent Failure	Closed
FINZEL ROAD	STONY CREEK OVERFLOW	.1 MI N OF S STONY CRK RD	SD	Poor	Posted
GRAFTON ROAD	LITTLE SWAN CREEK	0.1 MI N OF SIGLER ROAD	SD	Serious	Open
GRUBER ROAD	SANDY CREEK	1 MI N OF BLUEBUSH ROAD	SD	Serious	Posted
HALF ROAD	NORTH MACON CREEK	0.1 MI S OF SHERMAN ROAD	SD	Failed	Closed
HEAD-O-LAKE RD	OTTAWA LAKE OUTLET	1.6 MI NO OF OLD US 223	SD	Poor	Open
HISER ROAD	NORTH MACON DRAIN	0.4 MI S OF DAY ROAD	SD	Very Good	Open
HISER ROAD	VANDERVENTER DRAIN	.36 MI N OF DAY ROAD	FO	Good	Open
HURD RD	I-75	1.4 MI NE OF M-50	FO	Serious	Open
I-275 NB	NEWBURG RD	1 MI NE OF CARLETON	SD	Poor	Open
I-275 SB	CONRAIL	1 MI NE OF CARLETON	SD	Poor	Open
I-75	GTW & CR RR	0.7 MI N OF M-50	SD	Poor	Open
I-75	HURON R	IN ROCKWOOD	SD	Serious	Open
I-75	INDUST TRACKS	IN MONROE	SD	Poor	Open
I-75 NB	POWER CO SPUR	3.5 MI NE OF OHIO STATE L	SD	Poor	Open
I-75 NB	BAY CREEK RD	3.6 MI NE OF OHIO STATE L	SD	Serious	Open
I-75 NB	PLUM CR	IN MONROE	FO	Fair	Open
I-75 NB	HALFWAY CR	.3 MI N OF OHIO STATE LIN	SD	Poor	Open
I-75 NB	BAY CR	4.2 MI NE OF OHIO STATE L	SD	Poor	Open
I-75 NB TO I-275 R	I-75	5 MI N OF MONROE	FO	Fair	Open
I-75 SB	STONY CR	3.2 MI NE OF M-50	SD	Serious	Open
I-75 SB	BAY CR	4.2 MI NE OF OHIO STATE L	SD	Poor	Open
I-75 SB	BAY CREEK RD	3.6 MI NE OF OHIO STATE L	SD	Serious	Open
I-75 SB	POWER CO SPUR	3.5 MI NE OF OHIO STATE L	SD	Poor	Open
I-75 SB	HALFWAY CR	.3 MI N OF OHIO STATE LIN	SD	Poor	Open
IDA CENTER RD	US-23	4.6 MI N OF US-223	SD	Poor	Open
IDA MAYBEE RD	RIVER RAISIN	4.15 MI N OF IDA WEST R	FO	Fair	Open
JAMES ROAD	STONY CREEK	.2 MI N OF S STONY CRK RD	SD	Failed	Closed
KIMPTON ROAD	SOUTH BRANCH MACON DRAIN	0.7 MI S OF M 50	SD	Critical	Closed
KRUSE ROAD	LOCKWOOD DRAIN	1.3 MI N OF RAUCH ROAD	SD	Poor	Open
LABO ROAD	COLBURN DRAIN	1.3 MI E OF US 24	SD	Serious	Posted
LAPLAISANCE RD	WOODCHUCK CREEK	4.2 MI E OF US 25	SD	Poor	Open
LAPLAISANCE RD	PLUM CREEK	1.85 MI N OF I 75	SD	Poor	Posted
LAPLAISANCE RD	I-75	3.9 MI SW OF M-50	FO	Fair	Open
LAVOY ROAD	INDIAN CREEK	0.1 MI E OF US 24	SD	Fair	Open
LENAWEЕ CO LINE RD	MILAN-MACON DRAIN	.3 MI N OF CONE ROAD	SD	Serious	Open

Monroe County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
LENAWEE ROAD	SWAMP RAISIN CREEK	0.2 MI N OF CAKE ROAD	SD	Poor	Open
LUNA PIER RD	I-75	5.8 MI NE OF OHIO STATE L	FO	Poor	Open
M-125	WOODCHUCK CREEK	1.2 M N OF LASALLE	FO	Satisfactory	Open
M-125	LITTLE SANDY CREEK	2.3 MIS OF US-24	SD	Poor	Open
M-125	LITTLE LAKE CREEK	1.2 M S OF ERIE	FO	Good	Open
M-125	MUDDY CREEK	2.6 M N OF ERIE	FO	Satisfactory	Open
M-125	BAY CREEK	IN ERIE	FO	Satisfactory	Open
M-125	BR SANDY CR	1.5 MIS OF US-24	SD	Poor	Open
M-125	OTTER CR	4.7 MI SW OF M-50	SD	Serious	Open
M-125	FLAT CREEK	1.8 M S OF ERIE	FO	Satisfactory	Open
M-125	SULPHUR CREEK	1.2 M S OF LASALLE	FO	Satisfactory	Open
M-50	RAISIN R	IN DUNDEE MONROE ST	SD	Serious	Open
MACOMB STREET	RIVER RAISIN	IN MONROE	FO	Fair	Open
MAXWELL ROAD	SWAN CREEK	0.4 MI. S. OF NEWBURG RD.	FO	Fair	Open
MINX ROAD	N BR OTTER CREEK	1.5 MI N OF YARGERVILLE	FO	Good	Open
MONK ROAD	SOUTH BRANCH MACON DRAIN	0.3 MI N OF M 50	SD	Failed	Closed
MONK ROAD	MIDDLE BRANCH MACON DR.	0.1 MI N OF KENT ROAD	SD	Failed	Closed
N COUNTY LINE ROAD	NORTH MACON CREEK	0.13 MI N OF RIDGE ROAD	SD	Serious	Posted
N STONY CREEK ROAD	STONY CREEK	0.3 MI E OF S STONY CR RD	SD	Imminent Failure	Closed
N STONY CREEK ROAD	STONY CREEK OVERFLOW	0.4 MI E OF S STONY CR RD	SD	Serious	Closed
NADEAUX RD	I-75	2.8 MINE OF M-50	FO	Serious	Open
NEWPORT RD	I-275	SE OF CARLETON	SD	Poor	Open
NEWPORT RD	I-75	6.2 MI NE OF M-50	SD	Poor	Open
NORTH DIXIE HWY	I-75	@ OLD M-50	SD	Serious	Open
NORTH DIXIE HWY.	SANDY CREEK	0.05 MI S OF HURD RD	FO	Serious	Open
NORTH DIXIE HWY.	STONY CREEK	3.0 MINE OF I 75	SD	Poor	Open
OAKVILLE WALTZ RD	STONY CREEK	6.7 MI E OF US 23	FO	Fair	Open
OAKVILLE WALTZ RD	STONY CREEK OVERFLOW	6.85 MI E OF US 23	SD	Poor	Open
OELKE ROAD	NORTH MACON CREEK	0.3 MI E OF ANN ARBOR RD	SD	Failed	Closed
OSTRANDER RD	SALINE RIVER	2.7 MI E OF ANN ARBOR RD	SD	Poor	Open
PETERSBURG RD	RIVER RAISIN	0.3 MI N OF IDA WEST RD	SD	Poor	Open
RAISINVILLE RD	RIVER RAISIN	.10 MI NORTH OF M 50	SD	Poor	Open
RAUCH RD	US-23	1.7 MI N OF US-223	SD	Serious	Open
READY RD	I-75	IN S ROCKWOOD	SD	Serious	Open
S HURON R DR	I-75	IN S ROCKWOOD	SD	Serious	Open
SHERMAN ROAD	NORTH MACON CREEK	0.3 MI E OF PETERSBURG RD	SD	Failed	Closed
STERNS RD	I-75	1.2 MI N OF OHIO STATE LI	SD	Serious	Open
SWEITZER ROAD	LITTLE SWAN CREEK	0.2 MI N OF INDIAN TRAIL	SD	Poor	Posted
SYLV PETERSBURG RD	OTTAWA LAKE OUTLET	0.9 MI N OF STERNS RD	SD	Poor	Open
TODD ROAD	LOCKWOOD DRAIN	0.6 MI E OF DOUGLAS ROAD	SD	Poor	Open
TURK ROAD	OTTAWA LAKE OUTLET	1.2 MI N OF STERNS ROAD	SD	Poor	Open
US TURNPIKE	MOUILLEE CREEK	1.25 MI SW OF COUNTY LINE	SD	Poor	Open
US-223	BELLE DRAIN	3.2 MI NW OF OHIO ST LINE	SD	Serious	Open
US-223	US-23	AT US-23, US-223 INTRCHNG	SD	Poor	Open
US-23 NB	RAISIN R	1.0 MIS OF M-50	SD	Poor	Open
US-23 SB	RAISIN R	1.0 MI S OF M 50	SD	Poor	Open
US-24	CSX RR	1.5 MI SW OF M-125	FO	Serious	Open
US-24	SANDY CR	1.1 MI SW OF M-125	SD	Serious	Open
US-24	PLUM CR	1.0 MI SW OF M-50	SD	Serious	Open
US-24	HURON R	@ WAYNE CO LINE	SD	Serious	Posted
US-24	INDIAN CR	.5 MI N OF OHIO STATE LIN	FO	Good	Open
VIVIAN RD	SANDY CREEK	0.2 MI S OF HURD RD	FO	Poor	Open
WADSWORTH ROAD	OTTAWA LAKE OUTLET	0.3 MI S OF CONSEAR RD	SD	Failed	Closed
WILCOX ROAD	SOUTH BRANCH MACON RIVER	1.1 MI N OF M 50	SD	Serious	Posted

Table B-4

Oakland County Structurally Deficient or Functionally Obsolete Bridges

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
10 MI RD	M-10	IN SOUTHFIELD	SD	Poor	Open
10 MI ROAD (GD.R.)	M-5	2MI W OF FARMINGTON	SD	Poor	Open
10 MILE RD	PEBBLE CREEK	BET INKSTER AND BEECH	FO	Very Good	Open
10.5 MI RD	M-10	IN SOUTHFIELD	FO	Good	Open
10.5 MI ROAD	I-75	@ CITY OF ROYAL OAK	SD	Serious	Open
11 MI RD	I-75	IN ROYAL OAK	SD	Serious	Open
12 MILE RD	PEBBLE CREEK	BET MIDDLEBELT AND INKSTE	FO	Very Good	Open
8 MILE RD	ROUGE RIVER	BET GRAND RIVER AND MIDDL	FO	Fair	Open
ADAMS RD	M-59	2.0 MIE OF PONTIAC	SD	Serious	Open
ADAMS RD	GRAND TRUNK RR	1 MI N OF M-1 (WOODWARD)	FO	Satisfactory	Posted
ADAMS ROAD	CLINTON RIVER	BET HAMLIN AND AVON RDS	FO	Good	Open
AUBURN RD	M-59	1.0 MI W OF M-150	FO	Fair	Open
AVON ROAD	CLINTON RIVER	BET LIVERNOS AND ROCHEST	FO	Fair	Open
AVON ROAD	CLINTON RIVER	BET JOHN R AND DEQUINDRE	FO	Satisfactory	Open
BECK RD	I-96	IN NOVI	SD	Serious	Open
BEECH RD	ROUGE RIVER	IN SOUTHFIELD	FO	Fair	Posted
BEECH RD	ROUGE RIVER	IN SOUTHFIELD	FO	Good	Open
BELFORD RD	I-75	1.1 MI SE OF GENESEE CO L	FO	Satisfactory	Open
BENSTEIN	HURON RIVER	NORTH OF OAKLEY PARK	FO	Failed	Open
BRIDGE ST	RIVER ROUGE	N OF 8MILE RD	SD	Serious	Posted
CAMPBELL AVE	I-696	IN ROYAL OAK	FO	Good	Open
CASS LAKE ROAD	CLINTON RIVER	BET ORCHARD LK AND CASS-E	FO	Fair	Posted
CHICAGO ROAD	BARNARD DRAIN	0.2 MI S OF MAPLE ROAD	FO	Satisfactory	Open
CLARKSTON RD	PAINT CREEK	AT KERN RD	FO	Satisfactory	Open
COOLIDGE ROAD	ROUGE RIVER	0.1 MI N OF LONG LAKE RD	FO	Satisfactory	Open
CORNELL RD	M-39	IN SOUTHFIELD	SD	Serious	Open
CROOKS RD	M-59	3.4 MIE OF I-75	SD	Poor	Open
DEQUINDRE LFT TRN	I-696	IN MADISON HEIGHTS	SD	Serious	Open
DEQUINDRE ROAD	GIBSON DRAIN	BET WATTLES AND LONG LK R	SD	Serious	Posted
DRAKE RD	M-5	4.0 MI NW OF WAYNE CO LIN	SD	Poor	Open
ELEVEN MILE RD	RIVER ROUGE	E OF TELEGRAPH RD	SD	Serious	Posted
ELEVEN MILE RD	PEBBLE CREEK	IN SOUTHFIELD	FO	Very Good	Open
EVERGREEN RD	ROUGE RIVER	0.6 MI N OF 13 MILE RD	FO	Good	Open
EVERGREEN RD	ROUGE RIVER	0.7 MI N OF 13 MILE RD	SD	Serious	Open
FOURTEEN MILE	FRANKLIN RIVER	EAST OF FRANKLIN	FO	Failed	Open
FRANKLIN	ROUGE RIVER	NORTH OF FOURTEEN MILE	FO	Failed	Open
FRANKLIN RD	I-696	IN SOUTHFIELD	SD	Serious	Open
GENERAL MOTORS RD	HURON RIVER	BET MARTINDALE AND GARNER	FO	Good	Open
GIDDINGS RD	I-75	0.8 MI NW OF M-24	FO	Satisfactory	Open
GRAND RIVER AVE	CSX RR	BET NOVI AND TAFT RDS	SD	Serious	Posted
GRAND RIVER AVE	KENT LAKE	BET DIXBORO AND KENT LK R	FO	Fair	Posted
HAGGERTY RD	I-696	0.5 MINE OF I-96	SD	Serious	Open
HAGGERTY RD	M-5	E LTS OF NOVI	SD	Poor	Open
HAGGERTY RD	I-96 WB	E LTS OF NOVI	SD	Serious	Open
HALSTEAD RD	I-696	1.7 MINE OF I-96	FO	Fair	Open
HAMLIN ROAD E BD	CLINTON RIVER	BET SQUIRREL AND ADAMS	FO	Very Good	Open
HAMLIN ROAD WBOUND	CLINTON RIVER	BET SQUIRREL AND ADAMS	FO	Very Good	Open
HATCHERY ROAD	CLINTON RIVER	BET FREMBES AND DIXIE	SD	Poor	Open

Oakland County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
HOLCOMB RD	I-75	0.7 MI W OF M-15	FO	Fair	Open
HURON RD	HURON RIVER	EAST OF MILFORD RD	FO	Satisfactory	Open
I-696	DRAKE RD	2.7 MI E OF I-96 OVER DRAK	FO	Good	Open
I-696	M-10	IN SOUTHFIELD	FO	Satisfactory	Open
I-696 & 4 RAMPS	I-75 & 4 RAMPS	IN ROYAL OAK	SD	Serious	Posted
I-696 RAMP WB	I-75 & RAMPS TO I-75 SB	I-75 / I-696 INTRCHG	FO	Satisfactory	Open
I-696 RAMPS AF&EF	N SERVICE RD	IN MADISON HTS	SD	Serious	Open
I-696 TURN RDWY AF	I-696&RAMPS FROM I-75 SB	@ I-75	FO	Satisfactory	Open
I-696 TURN RDWY EB	I-696&RAMPS FROM I-75NB	@ I-75	FO	Good	Open
I-75 BL NB	OPDYKE ROAD	S LTS OF PONTIAC	SD	Serious	Open
I-75 BL RMP EN TOP	I-75 SB & I-75BL	9.5 MIE OF PONTIAC	SD	Poor	Open
I-75 BL SB	OPDYKE RD	S LTS OF PONTIAC	SD	Serious	Open
I-75 CONN EB	M-24	@ M-24(I-75 CONN TO M-24)	FO	Good	Open
I-75 CONN WB	M-24	@ M-24(I-75 CONN TO I-75)	FO	Satisfactory	Open
I-75 NB	BIG BEAVER RD	IN TROY	FO	Satisfactory	Open
I-75 NB	OLD M-59 (AUBURN RD)	0.5 MIS OF M-59	FO	Fair	Open
I-75 NB	SQUARE LAKE RD	IN TROY	SD	Serious	Open
I-75 NB	M-150 (ROCHESTER RD)	IN TROY	FO	Fair	Open
I-75 NB	LIVERNOIS RD	IN TROY	FO	Fair	Open
I-75 NB	12 MILE RD	IN MADISON HTS	SD	Serious	Open
I-75 NB	MAPLE RD, 15 MILE RD	IN TROY (OVER MAPLE RD)	FO	Fair	Open
I-75 NB	13 MILE RD	IN MADISON HTS	SD	Serious	Open
I-75 NB	CLARKSTON RD	1.1 MI SE OF M-15	FO	Satisfactory	Open
I-75 NB	14 MILE RD	N LTS OF MADISON HTS	SD	Poor	Open
I-75 NB	ADAMS RD	IN TROY (OVER ADAMS RD)	SD	Poor	Open
I-75 NB	RED RUN DRAIN	IN MADISON HTS	SD	Serious	Open
I-75 NB CD	BIG BEAVER ROAD	IN TROY	FO	Fair	Open
I-75 SB	SQUARE LAKE RD	IN TROY	SD	Serious	Open
I-75 SB	RED RUN DRAIN	IN MADISON HTS	SD	Poor	Open
I-75 SB	CLARKSTON RD	1.1 MI SE OF M-15	FO	Fair	Open
I-75 SB	BIG BEAVER RD	IN TROY	FO	Satisfactory	Open
I-75 SB	CLINTONVILLE RD	4.1 MI SE OF M-15	FO	Satisfactory	Open
I-75 SB	14 MILE RD	N LTS OF MADISON HTS	SD	Poor	Open
I-75 SB	13 MILE RD	IN MADISON HTS	SD	Poor	Open
I-75 SB	ADAMS RD	IN TROY (OVER ADAMS RD)	SD	Poor	Open
I-75 SB	GTW RR	5.7 MI NW OF M-59	FO	Good	Open
I-75 SB	MAPLE RD, 15 MILE RD	IN TROY (OVER MAPLE RD)	FO	Fair	Open
I-75 SB	M-150 (ROCHESTER RD.)	IN TROY	SD	Poor	Open
I-75 SB CD	BIG BEAVER ROAD	IN TROY	FO	Satisfactory	Open
I-75 SB O RMP (MID	I-75BL RAMPS-OVER & UNDE	0.5 MI E PONTIAC @I 75 BL	FO	Fair	Open
I-75BL NB	GTW RR	S LTS OF PONTIAC	SD	Serious	Open
I-75BL SB	GTW RR	S LTS OF PONTIAC	SD	Serious	Open
I-96	KENT LAKE RD	.7 MI E OF LIVINGSTON CO	SD	Poor	Open
I-96 BL	ROUGE R	IN FARMINGTON (E GRAND RI	FO	Fair	Open
JOHN R NB TURN RAM	I-75	IN HAZEL PARK	FO	Satisfactory	Open
JOHN R SB TURN RAM	I-75	IN HAZEL PARK	SD	Poor	Open
KENNETT RD	GRANDTRUNKWESTERNRR	1/4 MI SE TELEGR & OAKLAN	SD	Critical	Posted
KENSINGTON	ROUGE RIVER	NORTH OF BIG BEAVER	FO	Satisfactory	Open
KIRKWAY RD	LOWER LONG LAKE	0.2 MI N OF LONG LAKE RD	FO	Fair	Posted
LAKE GROVE DR	WHITE LAKE CANAL	NORTH OF JACKSON RD	SD	Fair	Posted
LANSDOWNE	WILLIAMS LAKE CANAL	N OF HATCHERY RD	FO	Very Good	Open
LEFT TURN STRUCT	M-10	IN SOUTHFIELD	SD	Poor	Open
LINCOLN DRIVE	ROUGE RIVER	0.2 MI W OF SOUTHFIELD RD	FO	Fair	Posted
LIVERNOIS RD	M-59	4.4 MIE OF I-75	FO	Fair	Open
LIVERNOIS ROAD	CLINTON RIVER	BET AVON AND HAMLIN	FO	Satisfactory	Open

Oakland County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
LONG LAKE RD	ROUGE RIVER	BET ADAMS AND COOLIDGE RD	FO	Fair	Open
LONG LAKE RD	GIBSON DRAIN	BET JOHN R AND DEQUINDRE	FO	Fair	Open
LONG LK SHORES DR	LONG LAKE CANAL	BLOOMFIELD TWP SEC 7	SD	Good	Open
LUDLOW ST	PAINT CREEK	WEST OF ROCHESTER RD	FO	Fair	Open
M-1 NB RAMP	M-102 8 MILE RD	@ N LTS OF DETROIT	SD	Poor	Open
M-1 OVER 8 MI RD	M-102 8 MI RD & RAMPS	@ N LTS OF DETROIT	SD	Poor	Open
M-1 SB RAMP	M-102 8 MILE RD	AT N LTS OF DETROIT	SD	Poor	Open
M-10	I-75 SB	@ M-10	SD	Poor	Open
M-10 (RAMP B)	M-10 RAMP	IN SOUTHFIELD (RAMP A)	FO	Fair	Open
M-10 BR	CLINTON RIVER	IN PONTIAC	FO	Good	Open
M-10 NB	US-24	IN SOUTHFIELD	SD	Poor	Open
M-10 NB	ROUGE R	IN SOUTHFIELD	SD	Poor	Open
M-10 RAMP H	M-39	IN SOUTHFIELD RAMP H	SD	Serious	Open
M-102	I-696 EB	@I-96 (I-696 EB)	SD	Poor	Open
M-15	I-75	@ M-15	SD	Poor	Open
M-150	M-59	@ M-150	SD	Serious	Open
M-150	GTW RR,CLIN R,1ST&2ST	IN ROCHESTER (S MAIN ST)	FO	Satisfactory	Open
M-24 CONN EB	I-75	@ M-24 (I-75 SB TO M-24)	SD	Serious	Open
M-24 CONN WB	I-75	@ M-24 (M-24 CONN TO I-75)	SD	Poor	Open
M-39 NB	M-10	IN SOUTHFIELD	SD	Serious	Open
M-39SB OVER RAMP C	M-10 RAMP C	IN SOUTHFIELD (RAMP C)	SD	Serious	Open
M-59 EB	CLINTON R	E LTS OF PONTIAC	SD	Serious	Open
M-59WB @ CLINTON R	UNIVERSITY DR CONNECTOR	IN PONTIAC	FO	Satisfactory	Open
MAIN ST	HURON RIVER	IN MILFORD S OF CANAL ST	FO	Good	Open
MANOR ROAD	ROUGE RIVER	E OF HUNTER BLOOMFIELD TS	FO	Good	Open
MARTINDALE	NOVI-LYON DRAIN	SOUTH OF TRAVIS	SD	Poor	Open
MEADOWBROOK RD	COURTER DITCH	0.4 MI N OF NINE MILE RD	FO	Fair	Open
MOHAWK AVENUE(UTN)	I-696	IN ROYAL OAK	FO	Good	Open
MYERS RD	I-75	IN HAZEL PARK	SD	Poor	Open
NAKOMIS	INDIANWOOD LAKE CANAL	1.0 MI N OF INDIANWOOD RD	SD	Serious	Posted
NAVARRA CT	WHITE LAKE CANAL	EAST OF LAKE GROVE DR	SD	Satisfactory	Posted
NB SERV RD	I-75	IN ROYAL OAK	SD	Serious	Open
NB WOODWARD SERV	I-696	AT I-696 & WOODWARD	FO	Satisfactory	Open
NINE MI RD	I-75	IN HAZEL PARK	SD	Poor	Open
NINE MI RD TURN RA	I-75	IN HAZEL PARK	FO	Fair	Open
NINE MILE RD	RIVER ROUGE	W OF BEECH RD	SD	Serious	Posted
NORTHLAND DR EB	M-10	IN SOUTHFIELD	SD	Serious	Open
NORTHLAND DR WB	M-10	IN SOUTHFIELD	SD	Serious	Open
NOVI	ROUGE RIVER	N OF BASE LINE RELOCATION	FO	Satisfactory	Open
NOVI RD	I-96	IN NOVI	FO	Fair	Open
NOVI RD	ROUGE RIVER	BET 8 AND 9 MILE RDS	FO	Satisfactory	Open
OAK ST	ROUGE RIVER	0.5 MI W OF WOODWARD AVE	FO	Very Good	Open
OAKWOOD	KEARSLEY DRAIN	EAST OF ORTONVILLE	FO	Fair	Open
OLD M-59(AUBURN R)	CLINTON RIVER	IN AUBURN HTS.	SD	Poor	Open
OLD PLANK RD	I-96	5.1 MIE E OF LIVINGSTON CO	FO	Fair	Open
OPDYKE RD	M-59	E LTS OF PONTIAC	FO	Fair	Open
OPDYKE RD	CLINTON RIVER	BET AUBURN AND M59FREEWAY	SD	Fair	Open
ORCHARD LAKE RD	US-24	IN PONTIAC	SD	Serious	Open
PARKDALE RD	STONY CREEK	BET ROCHESTER AND DEQUIND	SD	Fair	Posted
PETERS ST	HURON RIVER (MILL POND)	W OF MILFORD RD	SD	Imminent Failure	Closed

Oakland County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
RED RIVER AVE U-T	I-696	E OF EVERGREEN	FO	Satisfactory	Open
ROANOKE U-TURN	I-696	0.7 MI W WOODWARD	FO	Good	Open
ROCHDALE ROAD	SARGENT CREEK	0.4 MILE N OF WALTON BLVD	FO	Poor	Posted
ROMEO RD	STONEY CREEK	SOUTHWEST OF RUNYON	SD	Poor	Open
S.B. WOODWARD SERV	I-696	AT I-696 & WOODWARD	FO	Satisfactory	Open
SANTA BARBARA U EA	I-696	IN LATHRUP VILLAGE	FO	Good	Open
SASHABAW RD	I-75	2.2 MI SE OF M-15	SD	Poor	Open
SECOND ST	PAINT CREEK	EAST OF ROCHESTER RD	SD	Serious	Posted
SEYMOUR LAKE RD	PAINT CREEK	BET COATS AND GRANGER RDS	SD	Poor	Posted
SHEVLIN DBL U TURN	I-75	IN HAZEL PARK	SD	Serious	Open
SILVER BELL	GTW RR	EAST OF GIDDINGS	FO	Fair	Open
SILVER BELL	PAINT CREEK	WEST OF ORION RD	SD	Poor	Open
SOUTH BLVD	I-75	1.5 MI S OF M-59	SD	Serious	Open
SOUTH STREET	KEARSLEY CREEK	IN ORTONVILLE	SD	Serious	Posted
SOUTHFIELD U TURN	I-696	IN LATHRUP VILLAGE	FO	Good	Open
SQUIRREL RD	I-75	2.7 MI SE OF M-59	FO	Fair	Open
STEPHENSON HWY	BARNARD DRAIN	0.2 MI S OF MAPLE ROAD	FO	Satisfactory	Open
THIRTEEN MILE	ROUGE RIVER	BET TELEGRAPH AND LAHSER	SD	Serious	Open
TIENKEN RD	STONY CREEK	EAST OF SHELDON	SD	Satisfactory	Posted
TIENKEN ROAD	PAINT CREEK	BET LIVERNOIS AND ROCHEST	FO	Fair	Open
TRN RDWY C (I-696)	I-96 & M-275	I-96 & I-696 INTERCHANGE	FO	Satisfactory	Open
TROWBRIDGE RD	GTW RR	CITY OF BLOOMFIELD HILLS	SD	Poor	Open
UNIVERSITY DRIVE	I-75	1.6 MI N OF M-59	SD	Poor	Open
UNIVERSITY ST	PAINT CREEK	EAST OF ROCHESTER RD	SD	Serious	Posted
US-24	M-10 SB	IN SOUTHFIELD	FO	Serious	Open
US-24 & US-10	FRANKLIN R	IN BINGHAM FARMS	FO	Good	Open
US-24 NB TO 696 WB	M-10 E.B	IN SOUTHFIELD	FO	Good	Open
W MAPLE RD	ROUGE RIVER	0.5 MI W OF WOODWARD AVE	FO	Good	Open
WALDON RD	I-75	2.5 MI SE OF M-15	SD	Serious	Open
WALTON BLVD	I-75	2.5 MI N OF M-59	SD	Poor	Open
WARNER STREET	GREEN LAKE CANAL	NORTH OF COMMERCE	FO	Fair	Posted
WIXOM ROAD	HURON RIVER	NORTH OF GARDEN	FO	Failed	Open
WOODWARD HTS BLVD	I-75	@ CITY OF HAZEL PARK	SD	Poor	Open

Table B-5

St. Clair County Structurally Deficient or Functionally Obsolete Bridges

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
10TH STREET	BLACK RIVER	IN PORT HURON	SD	Serious	Posted
ALLEN RD	I-69	2.1 MI NW OF I-94	SD	Poor	Not yet open (new)
ANCHOR BAY DRIVE	UNNAMED CANAL	SEC. 3 CLAY TWP.	FO	Very Good	Open
ARENDT ROAD	S. BR. MILL CREEK DRAIN	SEC. 8-9 BROCKWAY TWP.	SD	Poor	Posted
ARNOLD ROAD	UNNAMED CREEK	SEC. 3-10 IRA TWP.	FO	Fair	Open
ARNOLD ROAD	SWAN CREEK	SEC. 3-10 IRA TWP.	FO	Fair	Open
BILES ROAD	S. BR. MILL CREEK DRAIN	SEC. 5 MUSSEY TWP.	FO	Fair	Open
BRAIDWOOD ROAD	SHARRARD-BURGESS DRAIN	SEC. 33-34 RILEY TWP.	FO	Poor	Open
BRICKER ROAD	SULLIVAN DRAIN	SEC. 19-20 KENOCKEE TWP.	SD	Critical	Posted
BRYCE ROAD	PINE RIVER	SEC. 24-25 KENOCKEE TWP.	SD	Fair	Open
CAPAC ROAD	N. BR. MILL CREEK DRAIN	SEC. 15-16 LYNN TWP.	SD	Poor	Posted
CAPAC ROAD	S. BR. MILL CREEK DRAIN	SEC.33-34 LYNN TWP.	FO	Satisfactory	Posted
CASTOR ROAD	NEATON DRAIN	SEC. 1-2 WALES TWP.	SD	Poor	Posted
CHARTIER ROAD	MARINE CITY DREDGE CUT	SEC. 10 COTTRELLVILLE TWP	FO	Fair	Posted
CHURCH RD	I-94	3.2 MI NE OF MACOMB CO L	SD	Poor	Open
CHURCH ROAD	JEROME CREEK	SEC. 4-5 CASCO TWP.	SD	Poor	Open
COVE ROAD	UNNAMED CREEK	SEC. 17 WALES TWP.	FO	Good	Open
CRAWFORD ROAD	SCHRIBER DRAIN	SEC. 15-22 COLUMBUS TWP.	SD	Serious	Posted
CRIBBINS ROAD	UNNAMED CREEK	SEC. 30 CLYDE TWP.	FO	Satisfactory	Open
DIVISION ROAD	BELLE RIVER	SEC.35 COLUMBUS TWP.	FO	Fair	Open
DUNNING ROAD	S. BR. PINE RIVER	SEC. 3 WALES TWP.	SD	Poor	Posted
EDGEWATER DRIVE	BATTEAUX CANAL	N OF RUSKIN INTERSECTION	FO	Fair	Posted
FARGO ROAD	OLOUGHLIN DRAIN	SEC. 35-36 KENOCKEE TWP.	SD	Poor	Posted
FRED MOORE HWY	I-94	7.8 MI NE OF MACOMB CO L	SD	Serious	Open
FRED MOORE HWY	PINE RIVER	PVT CLM 306 ST CLAIR TWP.	FO	Poor	Open
FRITH ROAD	SMITHS CREEK	SEC. 5-8 ST. CLAIR TWP	FO	Poor	Open
FRITH ROAD	PINE RIVER	SEC. 4-9 ST CLAIR TWP.	SD	Poor	Posted
GOODELLS ROAD	UNNAMED CREEK	SEC. 14-15 WALES TWP.	FO	Satisfactory	Posted
GOODELLS ROAD	MOORE CREEK	SEC. 10-11 WALES TWP.	FO	Satisfactory	Posted
GREEN ROAD	UNNAMED CREEK	SEC. 16 WALES TWP.	FO	Satisfactory	Open
GRISWOLD ROAD	PINE RIVER	SEC. 8-17 KIMBALL TWP.	FO	Fair	Open
HESSEN ROAD	RATTLE RUN CREEK	SEC. 14-15 COLUMBUS TWP.	FO	Satisfactory	Open
HESSEN ROAD	MELDRUM DRAIN	SEC. 34-35 CASCO TWP.	FO	Satisfactory	Open
HESSEN ROAD	SWAN CREEK	SEC. 2-3 IRA TWP.	FO	Fair	Open
I-69 EB.	GTW RR	.7 MI E OF I-94	SD	Poor	Open
I-69 EB.	CSX RR	1.5 MI W OF I-94	SD	Poor	Open
I-69 EB.	I-94	@ I-69	SD	Poor	Open
I-69 WB.	CSX RR	1.5 MI W OF I-94	SD	Poor	Open
I-69 WB.	GTW RR	.7 MI E OF I-94	SD	Poor	Open
I-94	STOCKS CREEK DRAIN	1.1 MI. N. OF LAPEER RD	FO	Good	Open
I-94	BLACK R	I-94	SD	Poor	Open
I-94 EB	M-25	@ M-25 (GRATIOT AVE)	FO	Fair	Open
I-94 EB	CSX & GTW RRS	.4 MI W OF M-21 (GRISWOLD	SD	Poor	Open
I-94 EB	LAPEER RD	.2 MI NE OF I-69	SD	Poor	Open
I-94 EB	GTW RR	.6 MI W OF M-21	SD	Poor	Open
I-94 WB	CSX & GTW RRS	.4 MI W OF M-21 (GRISWOLD	SD	Poor	Open
I-94 WB	GTW RR	.6 MI W OF M-21	SD	Serious	Open
I-94 WB	M-25 CONN	IN PORT HURON OVER M-25	FO	Satisfactory	Open
I-94 WB	M-25	@ M-25 (GRATIOT AVE)	FO	Fair	Open
I-94,BLUE WATER BR	GTW RR & FOREST ST	PORT HURON MICH TO SARNIA	SD	Poor	Posted
INDIAN TRAIL ROAD	BELLE RIVER	SEC. 15 CHINA TWP.	SD	Fair	Posted
ISLAND COURT	BATTEAUX CANAL LOOP	S OF PTE TREMBLE RD	FO	Very Good	Posted
JEDDO ROAD	BURTCH CREEK	SEC. 6-7 BURCTHVILLE TWP.	FO	Fair	Open

St. Clair County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
JEDDO ROAD	SILVER CREEK	SEC. 6-7 GRANT TWP.	SD	Fair	Posted
KENDALL ROAD	RATTLE RUN CREEK	SEC. 14 COLUMBUS TWP.	SD	Poor	Open
KENDALL ROAD	RATTLE RUN CREEK	SEC. 14 COLUMBUS TWP.	SD	Poor	Open
KILBURN ROAD	PLUM CREEK	SEC. 30 GRANT TWP	SD	Poor	Posted
KLETTNER ROAD	UNNAMED CREEK	SEC. 10 ST. CLAIR TWP.	FO	Good	Open
KOEHN ROAD	COX-DOTY DRAIN	SEC. 36 MUSSEY TWP.	FO	Satisfactory	Open
KRAFFT ROAD	HOWE DRAIN	SEC. 22-27 FT GRATIOT TWP	FO	Fair	Open
LAMBS ROAD	SPENCER DRAIN	SEC. 22 WALES TWP.	SD	Poor	Posted
LAMBS ROAD	SPENCER DRAIN	SEC. 20 WALES TWP.	SD	Critical	Posted
LINDSEY ROAD	CASCO DRAIN	SEC 14-23 CASCO TWP	FO	Satisfactory	Open
LONG ISLAND COURT	UNNAMED CANAL	SEC. 22 IRA TWP	FO	Satisfactory	Open
M-136	BLACK R SPILLWAY	IN PORT HURON	SD	Serious	Open
M-19	BELLE R	.3 MI N OF MACOMB CO LINE	SD	Serious	Open
M-19	NO NAME	2.0 MI S OF S LMTS EMMETT	SD	Poor	Open
M-19 (KINNEY ROAD)	I-69	1 MI S OF EMMETT	FO	Satisfactory	Open
M-21	COWHEY CR	1.3 MI E OF M-19	SD	Serious	Open
M-25	BURTCR	.4 MI S OF SANILAC CO L	SD	Serious	Open
M-25	CSX & GTW RR:S	IN PORT HURON (MILITARY A	SD	Serious	Open
M-29	BELLE RV	IN MARINE CITY	FO	Fair	Open
M-29	SWAN CR	3.9 MI SE OF MACOMB CO L	FO	Fair	Open
MAIN STREET	SMITHS CREEK	SEC. 31 KIMBALL TWP.	FO	Fair	Posted
MARINE CITY HWY	BEAUBIEN CREEK DRAIN	SEC. 32 CHINA TWP.	FO	Good	Open
MARINE CITY HWY	UNNAMED CREEK	SEC. 34 CASCO TWP.	SD	Poor	Open
MASTERS ROAD	BELLE RIVER	SEC. 17-20 RILEY TWP.	SD	Poor	Open
MEISNER RD	I-94	1.6 MI NE OF MACOMB CO L	SD	Poor	Open
MELDRUM RD	I-94	4.3 MI NE OF MACOMB CO L	SD	Poor	Open
MERRILL DRIVE	UNNAMED CANAL	SEC. 1 CLAY TWP.	FO	Poor	Open
MESKILL ROAD	TINSMAN DRAIN	SEC. 9-16 COLUMBUS TWP.	FO	Fair	Open
MESKILL ROAD	TINSMAN DRAIN	SEC. 8-17 COLUMBUS TWP.	FO	Fair	Open
MICHIGAN RD	I-69	@ I-94, M-21EB	FO	Fair	Open
MICHIGAN RD	I-69WB	@ I-94, M-21 WB	FO	Fair	Open
MILLER STREET	UNNAMED CANAL	SEC. 22 IRA TWP.	SD	Poor	Posted
ONEIL ROAD	S. BR. PINE RIVER	SEC. 5 WALES TWP.	SD	Fair	Posted
PALMS RD	I-94	7.0 MI NE OF MACOMB CO L	SD	Poor	Open
RANGE RD	I-69	1.0 MI W OF I-94	FO	Satisfactory	Open
RANGE RD	I-94	3.3 MI NE OF M-25	SD	Serious	Open
RATTLE RUN ROAD	PINE RIVER	PVT CLM #307 ST CLAIR TWP	SD	Poor	Posted
RILEY CENTER ROAD	BELLE RIVER	SEC. 17-18 RILEY TWP.	FO	Poor	Open
RYNN ROAD	OLOUGHLIN DRAIN	SEC. 25-36 KENOCKEE TWP.	SD	Poor	Posted
SHORT CUT ROAD	UNNAMED CREEK	SEC. 10-15 IRA TWP.	FO	Fair	Open
SHORT CUT ROAD	SWAN CREEK	SEC. 11-14 IRA TWP.	SD	Poor	Posted
SMITH CREEK RD	I-94	.8 MI NE OF M-25	SD	Poor	Open
SMITHS CREEK ROAD	SMITHS CREEK	SEC. 30-31 KIMBALL TWP.	SD	Poor	Posted
SPEAKER ROAD	S. BR. MILL CREEK DRAIN	SEC. 13-24 LYNN TWP.	SD	Poor	Posted
ST CLAIR HWY	I-94	5.9 MI NE OF MACOMB CO L	SD	Poor	Open
VERNIER STREET	SWAN CREEK	SEC. 15 IRA TWP.	SD	Poor	Posted
VIRGINIA AVENUE	CANAL NORTH CITY LIMITS	.2MI W OF ST CLAIR RIV DR	FO	Very Good	Posted
WADHAMS RD	I-94	4.0 MI SW OF M-25	SD	Poor	Open
WADHAMS ROAD	BLACK RIVER	SEC. 2 KIMBALL TWP.	FO	Satisfactory	Open
WADHAMS ROAD	PINE RIVER	SEC. 15-16 ST. CLAIR TWP.	FO	Serious	Open
WALES CENTER ROAD	APPLY DRAIN	SEC. 15 WALES TWP.	FO	Good	Open
WATER ST	I-94	.3 MI W OF PORT HURON	SD	Poor	Open
WEBB ROAD	RILEY-WALES DRAIN	SEC. 6 WALES TWP.	SD	Failed	Posted
WEBB ROAD	SOUTH BR. PINE RIVER	SEC. 4 WALES TWP.	FO	Satisfactory	Open
YALE ROAD	EVES DRAIN	SEC. 11-14 GREENWOOD TWP.	FO	Satisfactory	Open

Table B-6

Washtenaw County Structurally Deficient or Functionally Obsolete Bridges

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
23 BR N TO US-23 N	US-23 SB(RAMP C)	@ W JCT US-23 (TOP LEVL)	FO	Fair	Open
8 MI RD	US-23	AT LIVINGSTON CO LINE	SD	Critical	Open
ARKONA RD	STONYCREEK	AUGUSTA TWP SEC 28 33	SD	Poor	Open
AUSTIN ROAD	SALINE RIVER	SALINE TWP SEC 4	SD	Poor	Open
AUSTIN ROAD	BAVER DRAIN	SALINE TWP SEC 4	SD	Poor	Posted
BELL ROAD	HURON RIVER	DEXTER TWP SEC 12	SD	Failed	Closed
BROADWAY STREET	DEPOT ST & PCRR	0.5 MI E OF MAIN ST	SD	Critical	Posted
BROADWAY STREET	HURON RIVER	0.5 MI E. MAIN ST	SD	Critical	Posted
CARPENTER RD	US-23	1.2 MI N OF MONROE CO LIN	SD	Poor	Open
DANCER ROAD	MILL CREEK	LIMA TWP SEC 26 & 27	FO	Fair	Posted
DEXTER MAIN STREET	MILL CREEK	SCIO TWP SECTION 6	SD	Serious	Posted
DEXTER RD	M-14	0.6 MINE OF I-94	SD	Poor	Open
DEXTER-PINCKNEY RD	PORTAGE LK CANAL	DEXTER TWP SECTION 2	SD	Poor	Posted
DIXBORO ROAD	HURON RIVER	ANN ARBOR TWP SEC 36	SD	Fair	Posted
DIXBORO ROAD	HURON RIVER	ANN ARBOR TWP SEC 36	FO	Fair	Posted
DUNCAN ST	RIVER RAISIN	IN VILLAGE OF MANCHESTER	FO	Fair	Open
E.MEDICALCENTER	NORFOLK SOUTHERN RAILWAY	0.9 MI. E. OF US 23 BR.	FO	Good	Open
EARHART RD	US-23	3.0 MIN OF M-17 & US-23	SD	Serious	Open
EAST DELHI ROAD	HURON RIVER	SCIO TWP SEC 2	SD	Serious	Posted
FELDKAMP ROAD	SALINE RIVER	SALINE TWP SEC 17	SD	Serious	Posted
FORD BLVD.	US-12 BR	1.2 MI E OF YPSILANTI	FO	Satisfactory	Open
FORD BOULEVARD	NYCRR	YPSILANTI TWP SEC 11	FO	Fair	Open
FOREST AVENUE	HURON RIVER	IN CITY OF YPSILANTI	FO	Fair	Open
FULLER STREET	NORFOLKSOUTHERNRAILWAY	0.75 MI. E. OF US 23 BR.	FO	Good	Open
FURNACE ST	RIVER RAISIN	IN VILLAGE OF MANCHESTER	SD	Imminent Failure	Closed
GEDDES RD	US-23	1.6 MIN OF M-17 & US-23	SD	Poor	Open
GEDDES ROAD	FOWLER CREEK	SUPERIOR TWP SECTION 25	FO	Fair	Open
GOTFREDSON ROAD	M-14	4.0 MI.W.OF PLYMOUTH	SD	Poor	Open
GRASS RD	BAUERDRAIN	SALINE TWP SEC 4 & 5	FO	Fair	Open
HARRIS RD	I-94	1.0 MI E OF YPSILANTI	SD	Serious	Open
HITCHINGHAM ROAD	BUCKCREEK	AUGUSTA TWP SEC 28 & 29	SD	Critical	Open
HURON PARKWAY	HURON R&GEDDES RD & PCRR	1.0 M. W. U. S. 23	SD	Poor	Open
I-94	I-94 BL	IN ANN ARBOR	SD	Poor	Open
I-94	HURON R	IN YPSILANTI	SD	Poor	Open
I-94 EB	WIARD RD	2.0MI SE OF YPSILANTI	FO	Good	Open
I-94 EB	CONRAIL	2.3 MI E OF JACKSON CO LI	FO	Fair	Open
I-94 WB	WIARD RD	2.0MI SE OF YPSILANTI	FO	Satisfactory	Open
JACKSON AV WB,94BR	I-94 RAMP	0.5 MI W OF I-94 BL	SD	Poor	Open
JACKSON AVE	MILL CREEK	LIMA TWP SECTION 21	FO	Good	Open
JERUSALEM ROAD	MILL CREEK	LIMA TWP SECTION 23 & 26	SD	Poor	Open
JUDD ROAD	ANN ARBOR RAILROAD	YORK TWP SEC 10 & 15	SD	Poor	Posted
KLINGER RD	MILL CREEK	LIMA TWP SEC 31	SD	Serious	Posted
LIBERTY RD	I-94	0.7 MI S OF I-94 BL	SD	Poor	Open
LIBERTY ROAD	MILL CREEK	LIMA TWP SEC 27 & 34	SD	Poor	Posted
LIMA CENTER ROAD	MILL CREEK	LIMA TWP SECT 33 & 34	SD	Poor	Posted
M-14	US-23 BR HURON RIVER DR	IN ANN ARBOR	SD	Serious	Open
M-14 & US-23 BR	CONRAIL & HURON R	1.4 MIS OF US-23	SD	Poor	Open
M-14 EB	RAMP B US-23	E JCT US-23 (OVER RAMP B)	FO	Satisfactory	Open
M-14 EB	MAPLE RD	1.6 MI NE OF I-94 (MAPLE	SD	Serious	Open
M-14 EB	BEECHWOOD DR	IN ANN ARBOR	SD	Poor	Open
MAIDEN LANE	HURON RIVER	200 FT. W. OF FULLER ST.	FO	Satisfactory	Open
MAIN ST-WHITMORE	HORSESHOE LK OUTLET	NORTHFIELD TWP SEC 5	FO	Fair	Open
MAPLE ROAD	HURON RIVER	ANN ARBOR TWP SEC 7	SD	Poor	Posted
MARTZ RD	PAINT CREEK	YPSI TWP SEC 34	FO	Satisfactory	Open

Washtenaw County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
MAST ROAD	HURON RIVER	WEBSTER TWP SEC 31	FO	Satisfactory	Open
MILLER RD	M-14	1.3 MINE OF I-94	SD	Poor	Open
MOHART	NORTH MACON CREEK	SALINE TWP. SEC. 35 & 36	FO	Fair	Open
NEWPORT RD	M-14	IN ANN ARBOR	FO	Satisfactory	Open
PARKER RD.	MILL CREEK	SC10 TWP SEC 18	SD	Serious	Posted
PLYMOUTH ROAD	FLEMING CREEK	SUPERIOR TWP SECTION 8	SD	Poor	Open
PLYMOUTH-ANNARBOR	US-23	IN ANN ARBOR	SD	Poor	Open
PONTIAC TRAIL	US-23 WB, M-14 EB	0.5 MIE OF W JCT M-14	SD	Poor	Open
PONTIAC TRAIL	US-23 EB, M-14 EB	0.5 MIE OF W JCT M-14	SD	Poor	Open
PROSPECT STREET	CONRAIL RAILROAD	IN CITY OF YPSILANTI	FO	Fair	Open
RIDGE ROAD	MACON CREEK	YORK TWP SEC 31	FO	Fair	Open
ROSBOLT RD	PAINT CREEK	AUGUSTA TWP SEC 15	SD	Serious	Posted
SAGER RD	MILL CREEK	LIMA TWP SECT 30 & 31	FO	Fair	Open
SALINE WATERWORKS	WOOD OUTLET DRAIN	CITY OF SALINE	FO	Very Good	Open
SALINE-MILAN ROAD	KOCH DRAIN	YORK TWP SEC 6	FO	Fair	Open
SCIO CHURCH RD	I-94	1.9 MI SW OF I-94 BL	SD	Poor	Open
SEITZ DRIVE	LUICK CREEK	LIMA TWP SEC 16	SD	Good	Open
SHARON VALLEY RD	RAISIN RIVER	SHARON TWP SEC. 33	FO	Fair	Posted
STADIUM BOULEVARD	ANN ARBOR RAILROAD	0.5 MI E OF MAIN ST	FO	Fair	Posted
STADIUM BOULEVARD	SOUTH STATE STREET	0.5 MI E OF MAIN ST	SD	Poor	Posted
STONE SCHOOL RD	I-94	IN ANN ARBOR	SD	Poor	Open
TALLADAY ROAD	PAINT CREEK	AUGUSTA TWP SEC 15 & 22	SD	Serious	Posted
TREATMENT PLANT DR	HURON R.	0.5 MI. E. US 23	FO	Fair	Open
TYLER ROAD	WILLOW RUN	YPSILANTI TWP. SEC 12	FO	Fair	Open
US-12	US-23	@ US-12	SD	Poor	Open
US-12 (LOWER/LEVEL	WIARD RD SB	1.4MI W OF CO LINE/WIARD	FO	Fair	Open
US-12 BR	CONRAIL	IN YPSILANTI (E MICH AVE)	SD	Serious	Open
US-12BR, M-17	HURON R	IN YPSILANTI (E MICH AVE)	SD	Poor	Open
US-23 BR	FUTURE RAMP	.8 MI S OF US-23	SD	Serious	Open
US-23 ENT RAMP B	UNDER M-14(OV US-23 NB)	E JCT M-14 (OVER US 23 NB	FO	Satisfactory	Open
US-23 N TO M-14 S	US-23 SB	@ W JCT US-23 (LOWER)	SD	Poor	Open
US-23 NB	MDOT RR	.5 MI S OF LIVINGSTON CO	SD	Poor	Open
US-23 NB	I-94	@ US-23	FO	Fair	Open
US-23 SB	CONRAIL & HURON R	1.2 MIN OF M-17 & US-23	SD	Poor	Open
US-23 SB	MDOT RR	.5 MI S OF LIVINGSTON CO	SD	Poor	Open
US-23 SB RAMP	I-94	@ US-23	FO	Fair	Open
US-23 WB, M-14 WB	MDOT RR	.9 MIE OF W JCT M-14	SD	Serious	Open
US-23NB, I-94BL	PACKARD RD	IN ANN ARBOR (PACKARD RD)	FO	Fair	Open
US-23SB, I-94BL	PACKARD RD	IN ANN ARBOR (PACKARD RD)	FO	Fair	Open
VORHIES RD	M-14	2.5 MIE OF E JCT US-23	FO	Satisfactory	Open
WAGNER RD	M-14	0.4 MINE OF I-94	SD	Poor	Open
WAGNER RD	I-94	0.5 MIE OF M-14	FO	Fair	Open
WALDO RD	MILL CREEK	SHARON TWP. SEC. 1	SD	Poor	Posted
WALLACE ROAD	RIVER RAISIN	BRIDGEWATER TWP SEC 17&20	SD	Critical	Closed
WARREN RD	US-23	0.5 MIN OF M-14	SD	Poor	Open
WHITTAKER ROAD	PAINT CREEK	YPSILANTI TWP SEC 28	SD	Serious	Open
WHITTAKER ROAD	PAINT CREEK	AUGUSTA TWP SEC 9 & 10	SD	Serious	Open
WIARD ROAD	AIRPORT DRIVE	YPSILANTI TWP SEC 11	FO	Fair	Open
WILBUR ROAD	RIVER RAISIN	BRIDGWATER TWP SEC 20	SD	Critical	Closed
WILLIS RD	US-23	3.5 MIS OF US-12	SD	Poor	Open
WILLIS ROAD	PAINT CREEK	AUGUSTA TWP SEC 3 & 10	FO	Good	Open
WILLIS ROAD	WESTBRANCHPAINTCREEK	AUGUSTA TWP SEC 4 & 9	SD	Serious	Open
ZEEB RD	I-94	1.5 MI W OF M-14	SD	Critical	Open
ZEEB ROAD	HURON RIVER	SC10 TWP SEC 9 & 10	FO	Satisfactory	Open

Table B-7

Wayne County Structurally Deficient or Functionally Obsolete Bridges

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
12TH ST	I-94	IN DETROIT	SD	Critical	Open
12TH ST ENT RAMP	I-75 S.BD COLLECTOR	IN DETROIT	SD	Poor	Open
12TH ST EXIT RAMP	I-75 N.BD COLLECTOR	IN DETROIT	SD	Serious	Open
14TH ST	I-75	IN DETROIT	FO	Fair	Open
6 MI RD	M-39	IN DETROIT	FO	Fair	Open
7 MI RD	I-75	IN DETROIT	SD	Serious	Open
7 MI RD	M-10	IN DETROIT	SD	Serious	Open
7 MI RD	M-39	IN DETROIT	SD	Poor	Open
8 MI RD	I-94	AT MACOMB CO LINE	SD	Poor	Open
ADELAIDE	GRAND TRUNK RR	BETW. ORLEANS-ST. AUBIN	SD	Poor	Open
ALFRED	GRAND TRUNK RR	BETW. ORLEANS-ST. AUBIN	SD	Poor	Open
ALLARD AVE	I-94	IN HARPER WOODS	FO	Fair	Open
ALLEN ROAD	BLAKELY DRAIN	BROWNSTOWN N/SIBLEY	FO	Good	Open
ALLEN ROAD	ECORSE CREEK	ALLEN PARK S/OUTER DR.	FO	Poor	Open
ANN ARBOR RD (M14)	I-275	.5 MI W OF LIVONIA	SD	Poor	Open
ANTIETAM	GRAND TRUNK RR	BETW. ORLEANS-ST. AUBIN	SD	Critical	Closed
ASHLAND AVE	FOX CREEK	SOUTH OF JEFFERSON	SD	Serious	Posted
AUSTIN ST	N BR ECORSE RIVER	IN LINCOLN PARK	FO	Fair	Posted
BEAUBIEN ST	I-94	IN DETROIT	SD	Serious	Open
BEECH DALY RD	I-96	IN REDFORD TWP	SD	Poor	Open
BEECH-DALY ROAD	MIDDLE ROUGE RIVER	DBN HTS N/WARREN	FO	Good	Open
BEECH-DALY ROAD	ROUGE RIVER	REDFORD N/FIVE MILE	FO	Satisfactory	Open
BEECH-DALY ROAD	BELL CREEK	REDFORD T S/FIVE MILE	FO	Fair	Open
BEECH-DALY ROAD	WESTERN GOLF CLUB PATH	REDFORDS/FIVEMILE	FO	Good	Open
BERWICK RD LFT TRN	I-96	IN LIVONIA	SD	Poor	Open
BERWYN STREET	I-96	IN REDFORD TWP.	SD	Poor	Open
BREAKFAST U-TRN LN	I-96	IN REDFORD TWP	FO	Fair	Open
BROOKFIELD AVE	I-96	IN LIVONIA	FO	Fair	Open
BRUSH ST	I-75	IN DETROIT	SD	Poor	Open
BRUSH ST	I-94	IN DETROIT	SD	Serious	Open
BRUSH ST EXIT RAMP	I-75 SB TO WB.TURN.RDWY	IN DETROIT OVER I75	SD	Poor	Open
BRUSH STREET	M-8, DAVISON FWY	HIGHLAND PARK W/OAKLAND	FO	Very Good	Open
BUCHANAN ST	I-96	IN DETROIT	FO	Good	Open
BURNS AVE	I-94	IN DETROIT	FO	Good	Open
BURT RD	I-96	IN DETROIT	FO	Fair	Open
CADIEUX AVE	I-94	IN DETROIT	SD	Poor	Open
CADILLAC AVE	I-94	IN DETROIT	SD	Serious	Open
CALVERT AVE	M-10	IN DETROIT	FO	Satisfactory	Open
CAMPAIGN RD	I-75	IN LINCOLN PARK	FO	Satisfactory	Open
CANFIELD AVE	I-75	IN DETROIT	FO	Poor	Open
CANTON CENTER ROAD	LOWER ROUGE RIVER	CANTON S/PALMER	SD	Poor	Open
CARDWELL RD	I-96	IN LIVONIA	FO	Satisfactory	Open
CASINO WAY	CANOE STREAM	BELLE ISLE	SD	Critical	Posted
CASS AVE	I-75	IN DETROIT	SD	Poor	Open
CASS AVE	I-94	IN DETROIT	SD	Serious	Open
CENTRAL	CANOE STREAM	BELLE ISLE	SD	Poor	Posted
CENTRAL	CANOE STREAM	BELLE ISLE	FO	Fair	Posted
CENTRAL AVE	I-94	IN DETROIT	FO	Fair	Open
CHALMERS AVE	I-94	IN DETROIT	SD	Serious	Open
CHENE ST	I-94	IN DETROIT	SD	Serious	Open
CHESTNUT	GRAND TRUNK RR	BETW. ORLEANS-ST. AUBIN	SD	Poor	Open
CHICAGO BLVD	M-10	IN DETROIT	FO	Good	Open
CHURCH ROAD	THOROFARE CANAL	GROSSE ILE E/MERIDIAN	FO	Fair	Posted
CLAIRMOUNT AVENUE	M-10	IN DETROIT	FO	Good	Open

Wayne County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
CLAY AVE	I-75	IN DETROIT	SD	Serious	Open
COMMER AVE	I-75	IN HAMTRAMCK	FO	Satisfactory	Open
CONCORD AVE	I-94	IN DETROIT	FO	Fair	Open
CONTINENTAL DRIVE	SEXTON KILFOIL DRAIN	IN TAYLOR	FO	Poor	Open
CURTIS AVE	M-39	IN DETROIT	FO	Fair	Open
DAVISON RAMP(M-14)	I-75	IN DETROIT OVER I-75 RAMP	SD	Poor	Open
DAVISON RMP TO 75	DEQUINDRE AVE	IN DETROIT OVER DEQUINDRE	SD	Poor	Open
DAVISON TO I-75 RP	GTWRR,I-75&DAVISON(M-14)	IN DETROIT	FO	Fair	Open
DENTON ROAD	BELLEVILLE LK HURON RIVR	BELLEVILLE W/BELLEVILL RD	FO	Fair	Open
DEQUINDRE	I-75 RAMP TO DAVISON	IN DETROIT OVER RAMP C TO	FO	Fair	Open
DEQUINDRE AVE	DAVISON	IN DETROIT	SD	Poor	Open
DEQUINDRE U-TURN	I-75	IN DETROIT	FO	Satisfactory	Open
DEXTER-BELDEN AVE.	M-10 JOHN LODGE(EXPWY)	IN DETROIT	SD	Poor	Open
DICKERSON AVE	I-94	IN DETROIT	SD	Poor	Open
DIVISION	GRAND TRUNK RR	BETW. ORLEANS-ST. AUBIN	FO	Fair	Open
DRAGOON AVE	I-75	IN DETROIT	FO	Good	Open
E GRAND BOULEVARD	GTW RR & RIVARD ST	W OF ST AUBIN	SD	Critical	Open
E. N. HINES DRIVE	MIDDLE ROUGE RIVER	WESTLAND W/MERRIMAN	FO	Fair	Posted
E. N. HINES DRIVE	MIDDLE ROUGE RIVER	NORTHVILLE E/SHELDON	FO	Good	Open
E.N.HINES DR/AA TR	BEECH-DALY ROAD	DBN HTS N/WARREN	FO	Good	Open
EAST RIVER ROAD	N. HICKORY CANAL	GROSSE ILE T S/GROH	FO	Fair	Open
EB DAVISON (M-8)	I-96 WYOMING EXIT RAMP	IN DETROIT	FO	Fair	Open
EB E GRAND BLVD	I-94	IN DETROIT	FO	Satisfactory	Open
ECORSE RD	US-24	IN TAYLOR	SD	Poor	Open
ECORSE RD WB	US-12EB	4.8 MI E OF YPSILANTI	SD	Serious	Open
ECORSE RD.	I-275	1 MI SW OF WAYNE	SD	Serious	Open
ELBA DRIVE	ELBA CANAL	GROSSE ILE E/E. RIVER RD.	FO	Satisfactory	Open
ELIZABETH PK DRIVE	ELIZABETH PK CANAL	TRENTON S/WEST RD.	FO	Good	Open
ELM CIRCLE DRIVE	LOWER ROUGE RIVER	INKSTER W/JOHN DALY	SD	Poor	Posted
ELMHURST AVE	I-96	IN DETROIT	SD	Poor	Open
EUCLID AVENUE	M-10	IN DETROIT	SD	Serious	Open
EUREKA ROAD	FRANK & POET DRAIN	TAYLOR W/I-75	FO	Satisfactory	Open
EVERGREEN RD	I-96 & CSX RR	IN DETROIT	FO	Satisfactory	Open
EVERGREEN RD NB	M-153	IN DEARBORN	SD	Poor	Open
EVERGREEN RD SB	M-153	IN DEARBORN	SD	Serious	Open
EVERGREEN ROAD	ROUGE RIVER	DEARBORN N/MICHIGAN	FO	Good	Open
FARMINGTON LFT TRN	I-96	IN LIVONIA	FO	Good	Open
FARMINGTON LFT TRN	I-96	IN LIVONIA	FO	Satisfactory	Open
FARMINGTON RD	I-96	IN LIVONIA	SD	Serious	Open
FARMINGTON ROAD	BELL CREEK	LIVONIA N/FIVE MILE	FO	Poor	Open
FARMINGTON ROAD	TARABUSI DRAIN	LIVONIA N/SEVEN MILE	FO	Satisfactory	Open
FENKELL AVE	M-39	IN DETROIT	FO	Poor	Open
FENTON ST	I-96	IN REDFORD TWP	FO	Fair	Open
FERN AVE	M-39	IN ALLEN PARK	SD	Serious	Open
FERRY AVE	I-75 & TURN.RDWY	IN DETROIT	SD	Serious	Open
FERRY AVE	I-75 W TO S.TURN.RDWY	IN DETROIT	SD	Serious	Open
FITZPATRICK AVE	M-39	IN DETROIT	SD	Poor	Open
FIVE MI RD	I-96	LIVONIA	SD	Poor	Open
FIVE MILE ROAD	UPPER ROUGE RIVER	DETROIT E/TELEGRAPH	FO	Fair	Open
FIVE MILE ROAD	BELL CREEK	REDFORD E/INKSTER	FO	Fair	Open
FOREST AVE	M-10	IN DETROIT	FO	Good	Open
FORT ST	SANDERS ST	FORT ST	SD	Critical	Posted
FORT ST	PLEASANT ST	FORT ST	SD	Critical	Posted
FORT ST	N.&W.R.R.	FORT ST	SD	Critical	Posted
FRANK ST	N BR ECORSE RIVER	IN LINCOLN PARK	SD	Poor	Open

Wayne County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
FRENCH ROAD	I-94	IN DETROIT	SD	Serious	Open
FRONTENAC AVE	I-94	IN DETROIT	FO	Satisfactory	Open
FULLERTON AVE	I-96 (JEFFRIES FRWY)	IN DETROIT	SD	Poor	Open
FULLERTON AVE	I-96 (JEFFRIES FRWY)	IN DETROIT	FO	Satisfactory	Open
GARFIELD ST U-TRN	I-96	IN REDFORD TWP	FO	Fair	Open
GD RIV ENT TO I94W	RAMP TO I-94	IN DETROIT OVER I94WB TO	SD	Serious	Open
GEDDES ROAD	FOWLER DRAIN	CANTON W/BARR	SD	Poor	Open
GIBRALTAR ROAD	FRANK & POET DRAIN	GIBRALTAR E/JEFFERSON	FO	Fair	Open
GIBRALTAR ROAD	SILVER CREEK	FLATROCKE/TELEGRAPH	FO	Satisfactory	Open
GLENDALE AVE	M-10	IN DETROIT	SD	Serious	Open
GODDARD AVENUE	M-8	IN DETROIT	FO	Fair	Open
GODDARD ROAD EXT.	MERRIMAN ROAD	ROMULUS S/I-94	FO	Fair	Open
GR RIV LT TRN(M-5)	I-96 (JEFFRIES FRWY)	IN DETROIT	SD	Serious	Open
GRAND RIVER AVE	I-96	IN DETROIT	FO	Satisfactory	Open
GRAND RIVER AVE	I-96 (JEFFRIES FRWY)	IN DETROIT	SD	Serious	Open
GRD RIV AVE EXIT R	I-96 RAMP	IN DETROIT	SD	Poor	Open
GREEN AVE	I-75	IN DETROIT	FO	Good	Open
GREENFIELD RD	M-10	IN DETROIT	FO	Satisfactory	Open
GREENFIELD RD	I-96 & CSX RR	IN DETROIT	FO	Fair	Open
GREENFIELD RD LT T	M-10	IN DETROIT	SD	Serious	Open
GREENFIELD RD TURN	M-10	IN DETROIT	FO	Good	Open
GREENFIELD ROAD	ROUGE RIVER	DEARBORN/MELVINDAL S/I-94	FO	Serious	Open
GREENFIELD ROAD	ROTUNDA DRIVE	DEARBORN N/I-94	FO	Satisfactory	Open
GREENLAWN AVE	M-10	IN DETROIT	FO	Fair	Open
GRISWOLD STREET	MIDDLE ROUGE RIVER	NORTHVILLE N/MAIN ST.	FO	Good	Open
GRISWOLD STREET	CSXR.R.	NORTHVILLE S/BASE LINE	SD	Serious	Posted
GROSSE ILE PARKWAY	ELIZABETH PARK CANAL	TRENTON E/JEFFERSON	FO	Good	Open
GROSSE ILE PKWY	TRENTON CHANNEL	GROSSE ILE	FO	Satisfactory	Open
HAGGERTY ROAD	SWAN CREEK	SUMPTER S/JUDD	SD	Poor	Open
HAGGERTY ROAD	MIDDLE ROUGE RIVER	PLYMOUTH T S/PLYMOUTH RD.	SD	Poor	Posted
HAMILTON AVENUE	M-10	0.1 MILES E. OF CHICAGO B	FO	Good	Open
HANNAN RD.	I-275	IN ROMULUS	SD	Poor	Open
HANOVER RD	ECORSE CREEK	DBN HGT BET HURON-MAYFAIR	FO	Satisfactory	Open
HANOVER RD	ECORSE CREEK	DBN HGTs HARDING-MERRICK	FO	Satisfactory	Open
HANOVER RD	ECORSE CREEK	DBN HGT CLIPPERT-CAMPBELL	FO	Satisfactory	Open
HARPER AVE	I-94	IN DETROIT	FO	Fair	Open
HARPER AVE	I-94	IN DETROIT	SD	Poor	Open
HARRISON ST	S BR ECORSE RIVER	IN LINCOLN PARK	SD	Poor	Open
HARRISON ST	S BR ECORSE RIVER	IN LINCOLN PARK	SD	Poor	Posted
HASTINGS	I-375	IN DETROIT	FO	Poor	Open
HAWTHORNE DRIVE	MIDDLE ROUGE RIVER	WESTLAND W/FARMINGTON	SD	Satisfactory	Closed
HAWTHORNE DRIVE	MIDDLE ROUGE RIVER	WESTLAND W/MERRIMAN	SD	Serious	Closed
HAZEL STREET	SEXTON KILFOIL DRAIN	IN LINCOLN PARK	SD	Serious	Posted
HINES DRIVE	OLD M-14 (ANN ARBOR RD)	IN LIVONIA	SD	Poor	Open
HORSE ISLAND DRIVE	HORSE IS. -ADAMS DR BYU.	EAST OF ADAMS	SD	Serious	Open
HORSE MILL ROAD	THOROFARE CANAL	GROSSE ILE E/MERIDIAN	SD	Serious	Posted
HOWARD ST	M-10	IN DETROIT	FO	Fair	Open
HUBBELL AVE	I-96 (JEFFRIES FRWY)	IN DETROIT	SD	Poor	Open

Wayne County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
I-275 NB	E HINES DR	.3 MI W OF LIVONIA LTS	SD	Poor	Open
I-275 NB	SCHOOLCRAFT RD	.2 MI W OF LIVONIA	SD	Serious	Open
I-275 NB	CSX RR	IN LIVONIA	SD	Poor	Open
I-275 NB	RELOC M-14	.3 MI W OF LIVONIA	SD	Serious	Open
I-275 NB	HURON R & METRO PARKWAY	NEW BOSTON VILLAGE	FO	Satisfactory	Open
I-275 NB	M-153 (FORD RD)	5 MI W OF GARDEN CITY	SD	Poor	Open
I-275 NB COLLECTOR	RELOC M-14	.3 MI W OF LIVONIA	SD	Serious	Open
I-275 NB COLLECTOR	SCHOOLCRAFT RD	.2 MI W OF LIVONIA	SD	Poor	Open
I-275 RAMP N	CSX RR	IN LIVONIA	SD	Poor	Open
I-275 SB	RELOC M-14	.3 MI W OF LIVONIA	SD	Poor	Open
I-275 SB	E HINES DR	.3 MI W OF LIVONIA LTS	SD	Poor	Open
I-275 SB	MIDDLE ROUGE RIV	.3 MI W OF LIVONIA LTS	SD	Poor	Open
I-275 SB	MICHIGAN AVE(US-12)	3/4 MI W OF W OF LI WAYNE	SD	Serious	Open
I-275 SB	M-153 (FORD RD)	5 MI W OF GARDEN CITY	SD	Critical	Open
I-275 SB	SCHOOLCRAFT RD	.3 MI W OF LIVONIA	SD	Serious	Open
I-275NB TO I-96EB	SCHOOLCRAFT RD	.3 MI W OF LIVONIA	SD	Serious	Open
I-75	RAMP TO DAVISON	IN DETROIT OVER RAMP C TO	FO	Fair	Open
I-75	MCNICHOLS RD	IN DETROIT OVER MCNICHOLS	SD	Serious	Open
I-75	RAMP TO DAVISON	IN DETROIT OVER N-W RAMPT	FO	Fair	Open
I-75	CONRAIL RR	IN DETROIT	SD	Poor	Open
I-75	ROUGE R,DEARBORN ST & RR	IN DETROIT	SD	Serious	Open
I-75	NORTH HURON RIVER DR	IN ROCKWOOD	FO	Fair	Open
I-75 & RAMPS C&D	DAVISON & SERV.RDS.	IN DETROIT	SD	Serious	Open
I-75 & US-24 CONN	ROUGE R	IN DETROIT 10400 FORT ST	SD	Poor	Open
I-75 CONN SB	I-75	@US-25 N OF WOODHAVEN	SD	Poor	Open
I-75 CONN.	BROWNSTOWN CREEK	4.1 MI NE OF FLAT ROCK	SD	Poor	Open
I-75 E N TURN RD	I-375	IN DETROIT OVER I-375	SD	Poor	Open
I-75 E-N RAMP	M-10	IN DETROIT	FO	Fair	Open
I-75 NB	TOLEDO-DIX HWY & RAMP C&	IN LINCOLN PARK	SD	Serious	Open
I-75 NB	OUTER DRIVE	IN MELVINDALE	SD	Poor	Open
I-75 NB	M-10	IN DETROIT OVER US-10	SD	Poor	Open
I-75 NB	GTW RR	IN WOODHAVEN	SD	Poor	Open
I-75 NB	VAN HORN RD	IN WOODHAVEN	SD	Poor	Open
I-75 NB	M-39	IN LINCOLN PARK	SD	Poor	Open
I-75 RAMP C NB	TOLEDO DIX HWY RAMP D	IN LINCOLN PARK	SD	Serious	Open
I-75 RAMP D SB	TOLEDO DIX HWY & RAMP C	IN LINCOLN PARK	SD	Serious	Open
I-75 RAMP WB TO SB	RAMP TO WB I-96	IN DETROIT	FO	Fair	Open
I-75 SB	VAN HORN RD	IN WOODHAVEN	SD	Poor	Open
I-75 SB	M-39	IN LINCOLN PARK	SD	Poor	Open
I-75 SB	I-96WB	IN DETROIT	FO	Poor	Open
I-75 SB	TOLEDO-DIX HWY & RAMP C&	IN LINCOLN PARK	SD	Serious	Open
I-75 SB	M-10	IN DETROIT	SD	Poor	Open
I-75 SB	OUTER DRIVE	IN MELVINDALE	SD	Poor	Open
I-75 SB	GTW RR	IN WOODHAVEN	SD	Poor	Open
I-75 SB	US-24 CONN	IN TAYLOR OVER US-24 CONN	SD	Poor	Open
I-75 SB EXIT RAMP	I-75 E&W TO SB.TUR.RDWY	IN DETROIT	FO	Fair	Open
I-75 S-W RAMP	NORTH SERVICE RD	IN DETROIT	FO	Fair	Open
I-75 W S RAMP	M-10	IN DETROIT	SD	Poor	Open
I-75N RMP WINCHEST	I-75	IN DETROIT	SD	Poor	Open

Wayne County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
I-75N-I94E RAMP	RUSSELL ST CONN	IN DETROIT	SD	Serious	Open
I-75N-I94W RAMP	I-75 & RAMP	IN DETROIT	SD	Serious	Open
I-75S-I94E RAMP	I-94	IN DETROIT	SD	Poor	Open
I-94	GTW,NS,CR RR & RUSSEL	IN DETROIT	SD	Serious	Open
I-94	GREENFIELD RD	IN DEARBORN	SD	Poor	Open
I-94 EB	M-39	IN ALLEN PARK	FO	Good	Open
I-94 EB	MONROE BLVD.	IN TAYLOR OVER MONROE BLV	FO	Fair	Open
I-94 EB	CSX RR & SHOOK RD	4.0MI W OF TAYLOR	SD	Serious	Open
I-94 EB	INKSTER RD	W LTS OF TAYLOR	SD	Serious	Open
I-94 EB	BEECH-DALY RD	IN TAYLOR,OVER BEECH-DALY	SD	Serious	Open
I-94 EB	WAYNE RD	4.3MI W OF TAYLOR	SD	Serious	Open
I-94 EB ENT RAMP	I-75 RAMP TO I-94	IN DETROIT	FO	Satisfactory	Open
I-94 EB RMP	M-39	IN ALLEN PARK	FO	Good	Open
I-94 TO W GR BLV R	OPEN AREA	IN DETROIT	SD	Poor	Open
I-94 WB	US-24(TELEGRAPH RD)	IN TAYLOR,US-24	SD	Serious	Open
I-94 WB	WAYNE RD	4.3MI W OF TAYLOR	SD	Serious	Open
I-94 WB	I-94 RAMP FROM M-10	IN DETROIT,OVER RAMP HE,S	FO	Satisfactory	Open
I-94 WB	INKSTER RD	W LTS OF TAYLOR	SD	Serious	Open
I-94 WB	CSX RR & SHOOK RD	4.0MI W OF TAYLOR	SD	Serious	Open
I-94 WB COLLECTOR	I-275 SB TO I-94 EB RAMP	IN ROMULUS	FO	Satisfactory	Open
I-94 W-S RAMP	I-94	IN DETROIT	SD	Serious	Open
I-94 W-S RAMP	I-94EB TO I-75NB RAMP	IN DETROIT	SD	Serious	Open
I-94 W-S RAMP	I-75 & RAMP	IN DETROIT	SD	Serious	Open
I-94EB RAMP	GREENFIELD RD	IN DEARBORN	SD	Poor	Open
I94EB RAMP TO I96W	I-94	IN DETROIT	FO	Satisfactory	Open
I-94EB RAMP TO M10	M-10SB &I-94WB	IN DETROIT RAMP B-G	SD	Poor	Open
I-96	ROUGE RIVER	IN DETROIT	SD	Serious	Open
I-96	RAMP TO I-94	IN DETROIT	FO	Satisfactory	Open
I-96	RAMP FROM I-94	IN DETROIT	FO	Fair	Open
I-96 EB MAIN RDWY	M-39(SOUTHFIELD EXPR)	IN DETROIT	FO	Satisfactory	Open
I-96 EB SERV RD	ROUGE RIVER	IN DETROIT	FO	Fair	Open
I-96 RAMP	W B SERVICE RD	IN DETROIT	SD	Poor	Open
I-96 RAMP	E B SERVICE RD	IN DETROIT	SD	Poor	Open
I-96 RAMP NB TO EB	M-39 RAMP & E SERVICE RD	IN DETROIT	FO	Fair	Open
I-96 WB	EIGHT MILE RD	IN LIVONIA	SD	Serious	Open
I-96 WB COLLECTOR	M-39 (SOUTHFIELD EXPR)	IN DETROIT	FO	Satisfactory	Open
I-96 WB MAIN RDWY	M-39 (SOUTHFIELD EXPR)	IN DETROIT	FO	Fair	Open
I-96 WB SERV RD	ROUGE RIVER	IN DETROIT	FO	Fair	Open
I96WB TO I94WB RAM	I-96 & RAMP	IN DETROIT	SD	Critical	Open
INDUSTRIAL AVE	I-96	IN DETROIT	FO	Satisfactory	Open
INDUSTRIAL ROAD	DIX ROAD	DEARBORN N/MILLER	FO	Satisfactory	Open
INKSTER RD	I-96	E LTS OF LIVONIA	SD	Poor	Open
INKSTER ROAD	LOWER ROUGE RIVER	INKSTER N/MICHIGAN	FO	Poor	Open
INKSTER ROAD	MIDDLE ROUGE RIVER	DBN HTS/WESTLAND S/AA TR.	FO	Good	Open
INKSTER ROAD	E. N. HINES DRIVE	DBN HTS/WESTLDS/JOY	FO	Good	Open
JEFFERSON AVE	I-375	IN DETROIT	FO	Poor	Open
JEFFERSON AVE	GRAND TRUNK RR	JEFFERSON W OF ST AUBIN	SD	Critical	Posted

Wayne County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
JEFFERSON AVENUE	ROUGE RIVER	DET&RIVRRGEN/SCHAEFER	FO	Fair	Open
JEFFERSON AVENUE	MONGUAGON CREEK	RIVERVIEW N/SIBLEY	FO	Satisfactory	Open
JEFFERSON AVENUE	CONRAIL	E OF BEAUFIT	SD	Serious	Open
JOHN DALY	ROUGE RIVER	N. OF MICHIGAN AVE. US12	SD	Imminent Failure	Closed
JOSEPH CAMPAU	M-8	IN DETROIT	SD	Poor	Open
JOY RD	I-96	IN DETROIT	FO	Satisfactory	Open
JOY RD	M-39	IN DETROIT	FO	Fair	Open
JOY RD	I-275	.5 MI W OF LIVONIA LTS	SD	Poor	Open
JOY ROAD	UPPER ROUGE RIVER	DETROIT E/TELEGRAPH	FO	Satisfactory	Open
JUNCTION AVE	I-75	IN DETROIT	FO	Good	Open
KING RD	I-75	N LTS OF WOODHAVEN	FO	Satisfactory	Open
KING ROAD	BLAKELY DRAIN	RVRVW/TRENTONE/ALLEN	FO	Satisfactory	Open
KORTE AVE	FOX CREEK	BETWEEN ALTER AND ASHLAND	SD	Serious	Posted
LAFAYETTE AVE	I-375	IN DETROIT	FO	Good	Open
LAFAYETTE BLVD	I-75	IN DETROIT	FO	Fair	Open
LARNED ST	I-375	IN DETROIT	SD	Serious	Open
LARNED ST RAMP	M-10 NB	IN DETROIT	FO	Satisfactory	Open
LARNED STREET	GRAND TRUNK W RR	W OF ST AUBIN	SD	Serious	Open
LELAND DRIVE	SILVERCREEK	BRNTWNW/JEFFERSON	SD	Poor	Open
LEVAN RD	I-96	IN LIVONIA	SD	Poor	Open
LFT TRN E BEECH DL	I-96	IN REDFORD TWP	FO	Satisfactory	Open
LFT TRN E INKSTER	I-96	@ E LTS OF LIVONIA	SD	Poor	Open
LFT TRN E MIDLBELT	I-96	IN LIVONIA	SD	Poor	Open
LFT TRN E OF LEVAN	I-96	IN LIVONIA	FO	Fair	Open
LFT TRN W BEECH DL	I-96	IN REDFORD TWP	FO	Fair	Open
LFT TRN W INKSTER	I-96	@ E LTS OF LIVONIA	SD	Poor	Open
LFT TRN W MIDLBELT	I-96	IN LIVONIA	SD	Poor	Open
LFT TRN W OF LEVAN	I-96	IN LIVONIA	FO	Satisfactory	Open
LILLEY ROAD	LOWER ROUGE RIVER	CANTON N/MICHIGAN	FO	Satisfactory	Open
LINWOOD AVE	M-10 JOHN LODGE (EXPWY)	IN DETROIT	FO	Fair	Open
LIVERNOIS AVE	M-10	IN DETROIT	FO	Good	Open
LIVERNOIS AVE	I-96	IN DETROIT	FO	Satisfactory	Open
LIVERNOIS AVE	I-75	IN DETROIT	FO	Good	Open
LIVERNOIS AVE	M-10	IN DETROIT	SD	Serious	Open
LIVERNOIS LEFT TUR	I-96	IN DETROIT	SD	Poor	Open
LOCHMORE AVE	I-94	IN HARPER WOODS	SD	Poor	Open
LONDON MOORE RD	I-75	IN LINCOLN PARK	FO	Poor	Open
LONYO AVE	I-94	IN DETROIT	SD	Poor	Open
LOTZ ROAD	LOWER ROUGE RIVER	CANTON N/MICHIGAN	FO	Very Good	Posted
LYNDON AVE	M-39	IN DETROIT	FO	Satisfactory	Open
M L KING (STIMSON)	M-10	IN DETROIT	SD	Serious	Open
M-1 WOODWARD AV	I-75	IN DETROIT	FO	Fair	Open
M-1 WOODWARD AVE	I-94	IN DETROIT	SD	Serious	Open
M-10 NB	DAVISON (M-8)	IN DETROIT	FO	Fair	Open
M-10 NB	I-94	IN DETROIT	SD	Serious	Open
M-10 NB	I-94 RAMP FROM M-10	IN DETROIT,OVER RAMP HE	SD	Serious	Open
M-10 SB	I-94	IN DETROIT	SD	Serious	Open
M-10 SB	W.B.JEFFERSON AVE	IN CITY OF DETROIT	FO	Satisfactory	Open

Wayne County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
M-10 SB TO EB RAMP	I-75 & RAMP TO S.BD	IN DETROIT	SD	Serious	Open
M-102	M-10 & RAMPS	IN DETROIT	FO	Satisfactory	Open
M-102 (8 MI RD)	I-75	IN DETROIT OVER I-75 SERV	SD	Poor	Open
M-102 EB	I-94	IN HARPER WOODS	SD	Poor	Open
M-102 EB	M-39	N LTS OF DETROIT	FO	Fair	Open
M-102 EB SERV RD	M-10	N LTS OF DETROIT	SD	Serious	Open
M-102 LEFT TURN RA	M-39	N. LIMITS OF DETROIT	SD	Poor	Open
M-102 RAMP	M-10 RAMP	N LTS OF DETROIT	SD	Poor	Open
M-102 WB	M-39	N LTS OF DETROIT	FO	Fair	Open
M-102 WB	I-94	IN HARPER WOODS	SD	Poor	Open
M-102 WB	US-24	@ US-24, TELEGRAPH RD	SD	Serious	Open
M-102 WB SERV RD	M-10	N LTS OF DETROIT	SD	Poor	Open
M-14 E-S RAMP	GTW RR	IN DETROIT	SD	Poor	Open
M-14EB	CSX RR	1.5 MI W OF PLYMOUTH	FO	Satisfactory	Open
M-153 WB	HINES DR	IN DEARBORN OVER HINES DR	SD	Serious	Open
M-153, WYOMING AVE	I-94	W LTS OF DETROIT	FO	Satisfactory	Open
M-3	CONRAIL	IN DETROIT	SD	Poor	Open
M-3 (FORT ST,)	M-10	IN DETROIT	FO	Satisfactory	Open
M-3 (GRATIOT AVE)	GTW RR	IN DETROIT	SD	Poor	Open
M-3 (GRATIOT)	I-94	IN DETROIT	SD	Serious	Open
M-39 SB RAMP L	I-94	IN ALLEN PARK	FO	Good	Open
M-39 SERV RD NB	ECORSE CR	IN ALLEN PARK	FO	Satisfactory	Open
M-39 SERV RD SB	ECORSE CR	IN ALLEN PARK	FO	Satisfactory	Open
M-5 EB	ROUGE R	IN DETROIT	SD	Poor	Open
M-5 WB	ROUGE R	IN DETROIT	SD	Poor	Open
M-5(GRAND RIVER)	M-39 (SOUTHFIELD EXP)	IN DETROIT	SD	Poor	Open
M-53(VANDYKE ST)	I-94	IN DETROIT	SD	Serious	Open
M-8	WILLOW CR	2.7 MI E OF WASHTENAW CO	FO	Fair	Open
M-85 NB	SEXTON-KILFOIL DRAIN	IN LINCOLN PARK	FO	Satisfactory	Open
M-85 SB	SEXTON-KILFOIL DRAIN	IN LINCOLN PARK	FO	Fair	Open
M-85 SB	I-75 NB	@ M-85	SD	Poor	Open
MACK AVE	I-75	IN DETROIT	SD	Poor	Open
MACK AVE	CONRAIL	BETWEEN CONNER AND ST.JEA	FO	Good	Open
MADISON AVE RAMPS	I-375	IN DETROIT	SD	Serious	Open
MAPLEWOOD AVE	I-96	IN DETROIT	FO	Fair	Open
MARLEY DRIVE	CANAL (EAST)	BROWNSTOWNE/MARCUS	SD	Poor	Open
MARLEY DRIVE	CANAL (WEST)	BROWNSTOWN E/MILLEVILLE	SD	Poor	Open
MARTIN AVE	I-94	IN DETROIT	FO	Fair	Open
MC GRAW AVE	I-96	IN DETROIT	FO	Fair	Open
MCCLELLAN AVE	I-94	IN DETROIT	SD	Serious	Open
MCNICHOLS RD	M-10	IN DETROIT	SD	Serious	Open
MEADE ST	I-75	IN DETROIT	FO	Satisfactory	Open
MELVIN	I-96	IN LIVONIA	FO	Satisfactory	Open
MERRIMAN RD	I-96	IN LIVONIA	SD	Serious	Open
MERRIMAN ROAD	LOWER ROUGE RIVER	WAYNE/WESTLANDN/MICHIGAN	FO	Good	Open
MERRIMAN ROAD	E. N. HINES DRIVE	WESTLAND N/WARREN	FO	Good	Open

Wayne County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
MERRIMAN ROAD	MIDDLE ROUGE RIVER	WESTLAND N/WARREN	FO	Satisfactory	Open
MERRIMAN ROAD LT T	I-96	IN LIVONIA	SD	Poor	Open
MERRIMAN ROAD LT T	I-96	IN LIVONIA	FO	Fair	Open
MEYERS RD	I-96 (JEFFRIES FRWY)	IN DETROIT	SD	Poor	Open
MIDDLE BELT ROAD	E.N.HINES & MID.ROUGE RV	WESTLAND S/A.A. TRAIL	FO	Good	Open
MIDDLE BELT ROAD	LOWER ROUGE RIVER	INKSTER N/MICHIGAN	FO	Good	Open
MILLER RD	M-153	IN DEARBORN	FO	Fair	Open
MILLER RD	I-94	IN DEARBORN	SD	Serious	Open
MILLER ROAD	FORD ROAD	DEARBORN N/MICHIGAN	FO	Good	Open
MILLER ROAD	CONRAIL	DEARBORN S/MICHIGAN	FO	Satisfactory	Open
MILWAUKEE AVE	I-75	IN DETROIT	SD	Serious	Open
MILWAUKEE AVE	M-10	IN DETROIT	FO	Satisfactory	Open
MORANG AVE	I-94	IN DETROIT	SD	Serious	Open
MOROSS RD NB	I-94	IN DETROIT	SD	Poor	Open
MOROSS RD SB	I-94	IN DETROIT	SD	Serious	Open
MT ELLIOT ST	I-94	IN DETROIT	SD	Serious	Open
MYERS RD	M-10	IN DETROIT	FO	Fair	Open
MYERS RD TURNAROUN	M-10	IN DETROIT	FO	Fair	Open
MYRTLE ST	I-96	IN DETROIT	FO	Good	Open
N SERVICE RD	M-8 WB RAMP	IN DETROIT M-8 WB RAMP	FO	Fair	Open
NB CONNER AVE	I-94	IN DETROIT	SD	Serious	Open
NB OAKLAND AVENUE	M-8 (DAVISON FWY)	IN HIGHLAND PARK	FO	Poor	Open
NB W GRAND BLVD	I-94	IN DETROIT	SD	Serious	Open
NEVADA AVE	I-75	IN DETROIT	SD	Serious	Open
NEWBURGH E LFT TRN	I-96	IN LIVONIA	FO	Good	Open
NEWBURGH RD	I-96	IN LIVONIA	SD	Poor	Open
NEWJERSEY TRN(M10)	M-10	IN DETROIT AT FORRER AV	SD	Serious	Open
NORTHVILLE RD.	M-8	0.2 MI W OF PLYMOUTH	SD	Serious	Open
NORTHVILLE ROAD	MIDDLE ROUGE RIVER	NORTHVILLE T N/FIVE MILE	FO	Satisfactory	Open
NORTHVILLE ROAD	MIDDLE ROUGE RIVER	PLYMOUTH T S/NORTHVILLE	SD	Poor	Open
NORTHVILLE ROAD	MIDDLE ROUGE RIVER	NORTHVILLE N/SEVEN MILE	FO	Failed	Open
NORTHVILLE ROAD	MIDDLE ROUGE RIVER	PLYMOUTH T S/E.N.HINES DR	FO	Satisfactory	Open
NOTTINGHAM RD	I-94	IN DETROIT	SD	Serious	Open
OAKLAND AVE	I-75	IN DETROIT	FO	Satisfactory	Open
OAKMAN BLVD	M-10	IN DETROIT	SD	Serious	Open
OAKMAN BLVD WB	I-96 (JEFFRIES FRWY)	IN DETROIT	FO	Fair	Open
OAKVILLE-WALTZ RD.	SWAN CREEK	HURON/MONROE CO. W/1-275	FO	Satisfactory	Open
OAKWOOD BLVD	M-39	IN ALLEN PARK	SD	Serious	Open
OLD M-14	MIDDLE ROUGE RIVER	IN LIVONIA	FO	Satisfactory	Open
OUTER DRIVE	I-96	IN DETROIT	FO	Fair	Open
OUTER DRIVE	MT OLIVET CEMETERY DR	DETROIT N/SIX MILE	FO	Satisfactory	Open
OUTER DRIVE	M-39	IN DETROIT	FO	Satisfactory	Open
OUTER DRIVE	MIDDLE ROUGE RIVER	DBN HTS S/E. N. HINES DR.	FO	Satisfactory	Open
OUTER DRIVE	JOY ROAD	DETROIT E/TELEGRAPH	SD	Poor	Open
OUTER DRIVE	LOWER RIVER ROUGE	DEARBORN N/MICHIGAN	FO	Satisfactory	Open
OUTER DRIVE EB	M-10	IN DETROIT	SD	Serious	Open
OUTER DRIVE NB	I-94	IN DETROIT	SD	Serious	Open
OUTER DRIVE S EB	M-39	IN ALLEN PARK	FO	Poor	Open

Wayne County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
OUTER DRIVE S WB	M-39	IN ALLEN PARK	SD	Poor	Open
OUTER DRIVE SB	I-94	IN DETROIT	SD	Serious	Open
OUTER DRIVE WB	M-10	IN DETROIT	SD	Serious	Open
PACIFIC AVE	I-96	IN DETROIT	SD	Poor	Open
PALLISTER AVENUE	M-10	IN DETROIT	SD	Serious	Open
PALMER RD	I-275	1 MI NW OF WAYNE	SD	Poor	Open
PARDEE ROAD	ECORSE CREEK	IN DEARBORN HEIGHTS	FO	Satisfactory	Open
PAUL AVE	M-39	IN DETROIT	SD	Serious	Open
PEMBROKE AVE	M-39	IN DETROIT	FO	Poor	Open
PEMBROKE AVE	M-10	IN DETROIT	SD	Serious	Open
PENNSYLVANIA RD	I-75	S LTS OF TAYLOR	FO	Satisfactory	Open
PIQUETTE	I-75	IN DETROIT	FO	Poor	Open
PLYMOUTH ROAD	MIDDLE ROUGE RIVER	PLYMOUTH T W/HAGGERTY	FO	Satisfactory	Open
PLYMOUTH ROAD	E.N.HINESDRIVE	PLYMOUTH T W/HAGGERTY	FO	Satisfactory	Open
PLYMOUTH ROAD	M-39 (SOUTHFIELD)	IN DETROIT	FO	Fair	Open
PORTER ST	N BR ECORSE RIVER	IN LINCOLN PARK	SD	Poor	Posted
PORTER ST	I-75	IN DETROIT	SD	Poor	Open
PURITAN AVE	M-10	IN DETROIT	SD	Poor	Open
PURITAN AVE	M-39	IN DETROIT	FO	Fair	Open
RACHO ROAD	BLAKELY DRAIN	BRNTWNS/PENNSYLVANIA	SD	Poor	Open
RAMP A (WB)	M-8	0.9 MI W OF PLYMOUTH	FO	Satisfactory	Open
RAMP FROM US-12EB	I-94	IN DEARBORN	SD	Poor	Open
RAMP TO US-12	I-94	IN DEARBORN	SD	Poor	Open
RIDGE RD	ROUGE RIVER	RIDGE S OF MCNICHOLS	SD	Poor	Posted
RIVERSIDE AVE	CANAL	CANAL AT RIVERSIDE AVE	SD	Critical	Posted
RMP I-96E TO I-75N	I-75 SB	IN DETROIT	SD	Poor	Open
ROSA PARKS BLVD.	M-10	IN DETROIT	FO	Satisfactory	Open
ROTUNDA DRIVE	SCHAEFER ROAD	DEARBORN N/I-94	FO	Good	Open
ROTUNDA DRIVE	ROUGE RIVER (RE-LOCATED)	DEARBORN E/SOUTHFIELD	FO	Good	Open
ROTUNDA DRIVE	I-94	IN DEARBORN	SD	Poor	Open
ROTUNDA DRIVE	M-39	IN DEARBORN	SD	Serious	Open
RUSSELL ST	I-75 CONN TO M-3	IN DETROIT	SD	Poor	Open
S BD TERMINAL DR	LOWER ACCESS ROADWAY	DETROIT METRO AIRPORT	FO	Satisfactory	Open
S BD TERMINAL DR	PARKING AREA	DETROIT METRO AIRPORT	FO	Satisfactory	Open
S. POINTE DRIVE	SWAN ISLAND CANAL	GROSSE ILE S/GROH	FO	Fair	Open
SB OAKLAND AVENUE	M-8(DAVISON FWY)	IN HIGHLAND PARK	FO	Fair	Open
SB SERV RD	I-96	IN DETROIT	SD	Poor	Open
SB TO EB I-96	I-275 NB	.3 MI W OF LIVONIA	FO	Fair	Open
SB W GRAND BLVD	I-94	IN DETROIT	SD	Serious	Open
SCHAEFER	M-10	IN DETROIT	SD	Serious	Open
SCHAEFER HWY	I-94	IN DEARBORN	FO	Satisfactory	Open
SCHAEFER NW TURN	M-10	IN DETROIT	SD	Serious	Open
SCHAEFER RD	I-96 (JEFFRIES FRWY)	IN DETROIT	FO	Satisfactory	Open
SCHAEFER SE TURN	M-10	IN DETROIT	SD	Serious	Open
SCHOOLCRAFT AVE	M-39	IN DETROIT	SD	Poor	Open
SCHOOLCRAFT CONN.	M-8	1.0MI W OF W CTY LTS LIVO	FO	Satisfactory	Open
SCHOOLCRAFT RD	I-96	IN LIVONIA	SD	Poor	Open
SCHOOLCRAFT X-OVER	I-96	IN DETROIT	SD	Serious	Open
SCOTTEN AVE	I-96	IN DETROIT	FO	Satisfactory	Open

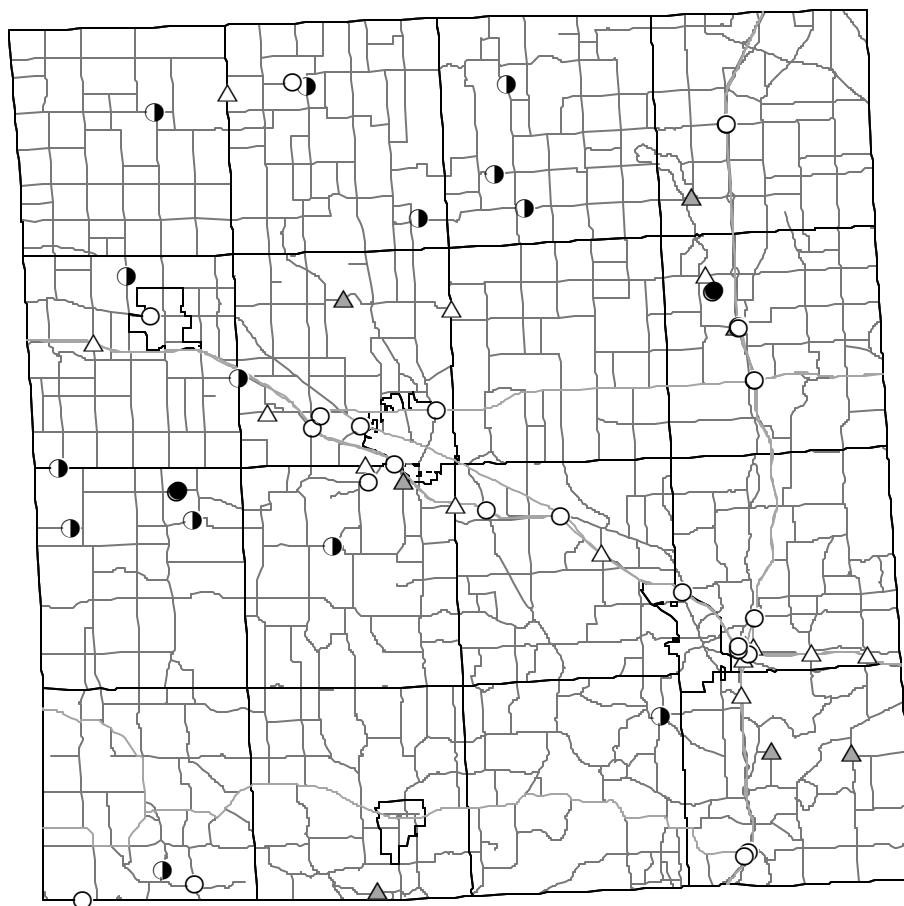
Wayne County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
SCOTTEN AVE	US-12	IN DETROIT	SD	Poor	Open
SECOND BLVD	I-94	IN DETROIT	SD	Serious	Open
SEVEN MILE ROAD	UPPER ROUGE RIVER	LIVONIA W/INKSTER	FO	Fair	Open
SEVEN MILE ROAD	UPPER ROUGE RIVER	DETROIT E/TELEGRAPH	FO	Good	Open
SEWARD AVENUE	M-10	IN DETROIT	SD	Serious	Open
SHELDON ROAD	LOWER ROUGE RIVER	CANTON S/PALMER	FO	Good	Open
SIBLEY RD	I-275	0.7 MI. E OF NEW BOSTON	SD	Poor	Open
SIBLEY RD	I-75	.8 M I S OF TAYLOR	FO	Poor	Open
SIX MILE ROAD	MIDDLE ROUGE RIVER	NORTHVILLE T W/NORTHV RD.	FO	Satisfactory	Open
SIX MILE ROAD	UPPER ROUGE RIVER	REDFORD E/INKSTER	SD	Poor	Open
SIX MILE ROAD	E.N.HINESDRIVE	NORTHVILLE T W/NORTHV. RD	FO	Satisfactory	Open
SIX MILE ROAD	TARABUSI DRAIN	LIVONIA E/MIDDLE BELT	FO	Good	Open
SOUTH HURON	I-275	1.9 MI SE OF NEW BOSTON	SD	Poor	Open
SOUTHERN AVENUE	WYOMING AVENUE	DEARBORN S/MICHIGAN	FO	Satisfactory	Open
STARK RD	I-96	IN LIVONIA	FO	Satisfactory	Open
TIREMAN AVE	M-39	IN DETROIT	SD	Serious	Open
TOLEDO ROAD	PENNSYLVANIA ROAD	BRNTWN/STHGTEE/ALLEN	FO	Satisfactory	Open
TOLEDO ROAD	BLAKELY DRAIN	BROWNSTOWN N/SIBLEY	FO	Good	Open
TOLEDO ROAD	ALLEN ROAD	BRWNTWNS/PENNSYLVANIA	FO	Fair	Open
TRUMBULL AVE	I-94	IN DETROIT	SD	Serious	Open
TRUMBULL AVE	I-75	IN DETROIT	FO	Satisfactory	Open
TURN RDWY EB TO SB	WB&U-TURN SERVICE ROADS	IN DETROIT	FO	Satisfactory	Open
TURN.RDWY 3RD LEVL	I-96 ROADWAYS	IN DETROIT	SD	Poor	Open
TURN.RDWY.3RD.LEVL	CSX RR & I-96 RDWYS.	IN DETROIT	SD	Poor	Open
TURN.RDWY.4TH.LEVL	CSX RR & 3RD.LEVEL T.RD	DETROIT	SD	Serious	Open
UNDERWOOD AVE	I-96	IN DETROIT	FO	Fair	Open
US-12	I-96	IN DETROIT	SD	Serious	Open
US-12 (MICHIGAN AV	I-94 RAMP	IN DEARBORN	SD	Poor	Open
US-12 EB	M-39	IN DEARBORN OVER M-39	SD	Poor	Open
US-12 EB	US-24	IN DEARBORN OVER US-24	FO	Fair	Open
US-12 EB	APPLE RUN DRAIN	2.3 MI E OF WASHTENAW COL	SD	Poor	Open
US-12 EB CONN	I-96 NB	IN DETROIT	FO	Fair	Open
US-12 EB CONN	I-75 NB	IN DETROIT	SD	Poor	Open
US-12 WB	US-24	IN DEARBORN OVER US-24	FO	Fair	Open
US-12 WB	M-39	IN DEARBORN OVER M-39	SD	Poor	Open
US-12BR EB	US-12 WB	.7 MI E OF CO LINE	FO	Satisfactory	Open
US-24	SILVER CREEK	1.3 MI NE OF MONROE CO LI	SD	Serious	Open
US-24 I-75 CONN NB	RACHO RD	IN TAYLOR OVER RACHO RD	SD	Poor	Open
US-24 SB	MIDDLE ROUGE R	IN DEARBORN HTS	SD	Poor	Open
US-24 TELEGRAPH RD	I-96	W LTS OF DETROIT	SD	Serious	Open
US-24-I-75 CONN NB	CONRAIL	IN TAYLOR	SD	Serious	Open
US-24-I-75 CONN SB	RACHO RD	IN TAYLOR OVER RACHO RD	SD	Poor	Open
US-24-I-75 CONN SB	CONRAIL	IN TAYLOR	SD	Serious	Open
U-TRN SERV RD	M-39(SOUTHFIELD EXPR)	IN DETROIT	FO	Fair	Open
U-TURN N OF G RIV	I-96	IN DETROIT	FO	Fair	Open
VAN BORN	I-94 EB RAMP	IN ALLEN PARK	FO	Good	Open
VAN BORN RD	M-39	AT I-94 & M-39 INTRCHG	FO	Satisfactory	Open
VAN HORN ROAD	SMITH CREEK	BROWNSTOWN E/ARSENAL	FO	Good	Open

Wayne County Structurally Deficient or Functionally Obsolete Bridges, continued

Facility Carried	Feature Intersected	Structure Location	SD/FO Rating	Condition Rating	Open/Posted/Closed
VASSAR DRIVE	M-10	IN DETROIT	SD	Serious	Open
VERNOR AVE	I-75	IN DETROIT	FO	Fair	Open
VETERANS MEMORIAL	CIVIC CENTER DRIVE	EAST OF COBO HALL	FO	Good	Open
VILLAGE RD	M-39	0.25 MILES S. OF RIVER RO	SD	Serious	Open
VIRGIL ST	I-96	IN DETROIT	FO	Satisfactory	Open
VREELAND RD	I-75	S LTS OF WOODHAVEN	SD	Serious	Open
W CHICAGO AVE	M-39	IN DETROIT	SD	Poor	Open
W GRAND BLVD NB	I-75	IN DETROIT	FO	Satisfactory	Open
W GRAND BLVD SB	I-75	IN DETROIT	FO	Fair	Open
W GRAND BOULEVARD	M-10	IN DETROIT	FO	Good	Open
WALTZ ROAD	HURON RIVER	HURON T S/HINES RIVER DR.	FO	Fair	Open
WARNER COURT	I-96	IN LIVONIA	FO	Fair	Open
WARREN AV ENT RAMP	I-96 RAMP	IN DETROIT	FO	Fair	Open
WARREN AV EXIT RMP	I-96 RAMP	IN DETROIT	FO	Fair	Open
WARREN AVE	I-96	IN DETROIT	SD	Serious	Open
WARREN AVE	I-75	IN DETROIT	SD	Serious	Open
WARREN AVE	M-39	IN DETROIT	FO	Serious	Open
WARREN AVENUE	E. N. HINES DRIVE	DBN HTS W/ANN ARBOR TRAIL	FO	Good	Open
WARREN ENT TO I-75	I-75 NB TO E&W TUR.RDWY.	IN DETROIT	FO	Fair	Open
WARREN RD	I-275	3 MI SE OF PLYMOUTH	SD	Poor	Open
WARREN ROAD	MIDDLE ROUGE RIVER	DBN HTS W/A.A. TRAIL	FO	Fair	Open
WASHINGTON ST	M-10	IN DETROIT	SD	Serious	Open
WATERMAN AVE	I-75	IN DETROIT	FO	Good	Open
WAYNE RD	I-96	IN LIVONIA	FO	Satisfactory	Open
WAYNE ROAD	TONQUISH CREEK	WESTLAND S/JOY	FO	Fair	Open
WAYNE ROAD	LOWER ROUGE RIVER	WAYNE N/MICHIGAN	FO	Very Good	Open
WAYNE ROAD	E. N. HINES DRIVE	LIVONIA N/A.A. TRAIL	FO	Good	Open
WB E GRAND BLVD	I-94	IN DETROIT	FO	Satisfactory	Open
WB FULLERTON AVE	M-39	IN DETROIT	FO	Fair	Open
WB TO SB TURN RDWY	3RD LEVEL TURN.RDWY	IN DETROIT	SD	Poor	Open
WEBB AVE	M-10	IN DETROIT	FO	Satisfactory	Open
WEST CHICAGO AVE	I-96	IN DETROIT	SD	Critical	Open
WEST RD	I-75	IN WOODHAVEN	FO	Satisfactory	Open
WEST ROAD	CONRAIL>WR.R.'S	TRENTON E/FORT	FO	Good	Open
WEST ROAD	SILVER CREEK	HURON W/INKSTER	SD	Poor	Open
WEST SER DR SOFLD	ECORSE CREEK	IN DEARBORN HEIGHTS	FO	Good	Open
WHITTIER RD	I-94	IN DETROIT	SD	Critical	Open
WILKINS	GRAND TRUNK RR	BETW. ORLEANS-ST. AUBIN	SD	Poor	Open
WILKINS ST & RAMP	I-75	IN DETROIT	FO	Poor	Open
WOODRUFF RD	I-75	.8 MI N OF MONROE CO LINE	FO	Fair	Open
WOODS DRIVE	MIDDLE ROUGE RIVER	PLYMOUTH T S/PLYMOUTH RD.	FO	Satisfactory	Open
WOODSIDE	CANOE STREAM	BELLE ISLE	FO	Fair	Posted
WOODSIDE AVE	I-94	IN HARPER WOODS	SD	Poor	Open
WYOMING AVE	M-10	IN DETROIT	FO	Satisfactory	Open
YALE AVE	I-96	IN LIVONIA	FO	Satisfactory	Open

Structurally Deficient or Functionally Obsolete Bridges Livingston County

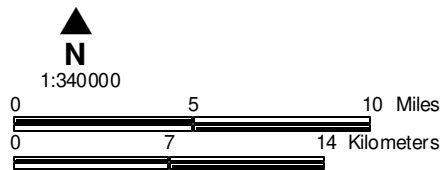


Structurally Deficient Bridges

- Closed
- Open
- ◐ Posted

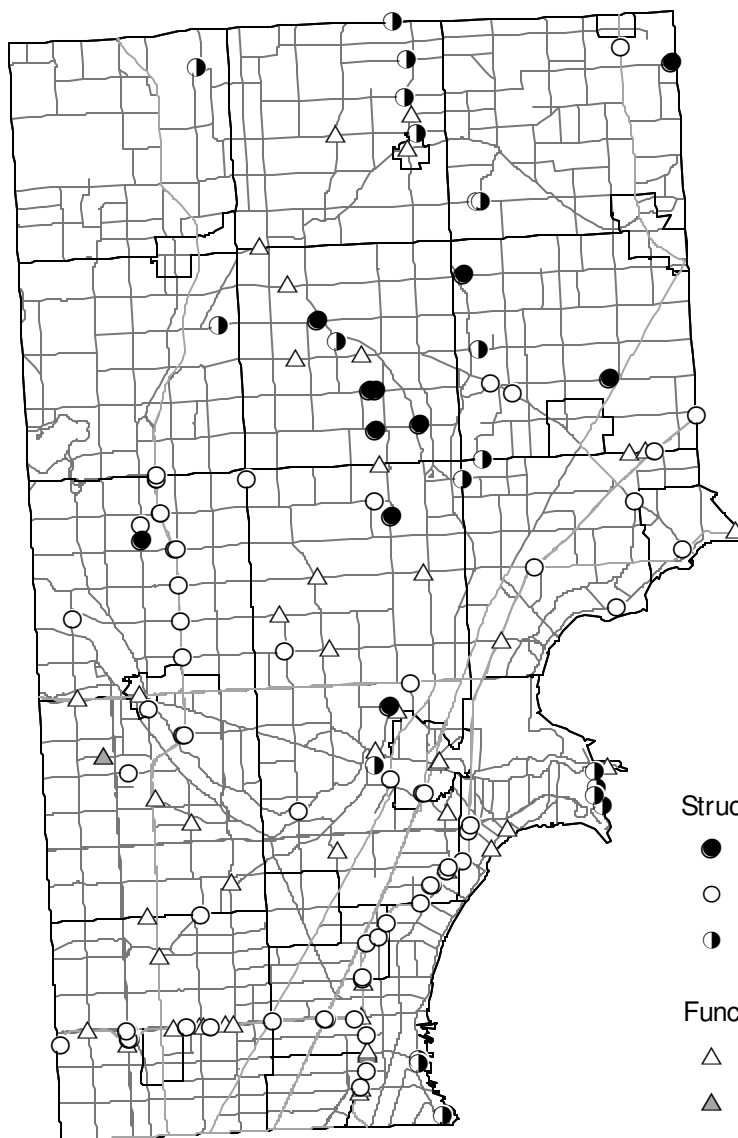
Functionally Obsolete Bridges

- △ Open
- ▲ Posted
- Highway
- Local Road



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Structurally Deficient or Functionally Obsolete Bridges Macomb County



Structurally Deficient Bridges

- Closed
- Open
- ◐ Posted

Functionally Obsolete Bridges

- △ Open
- ▲ Posted

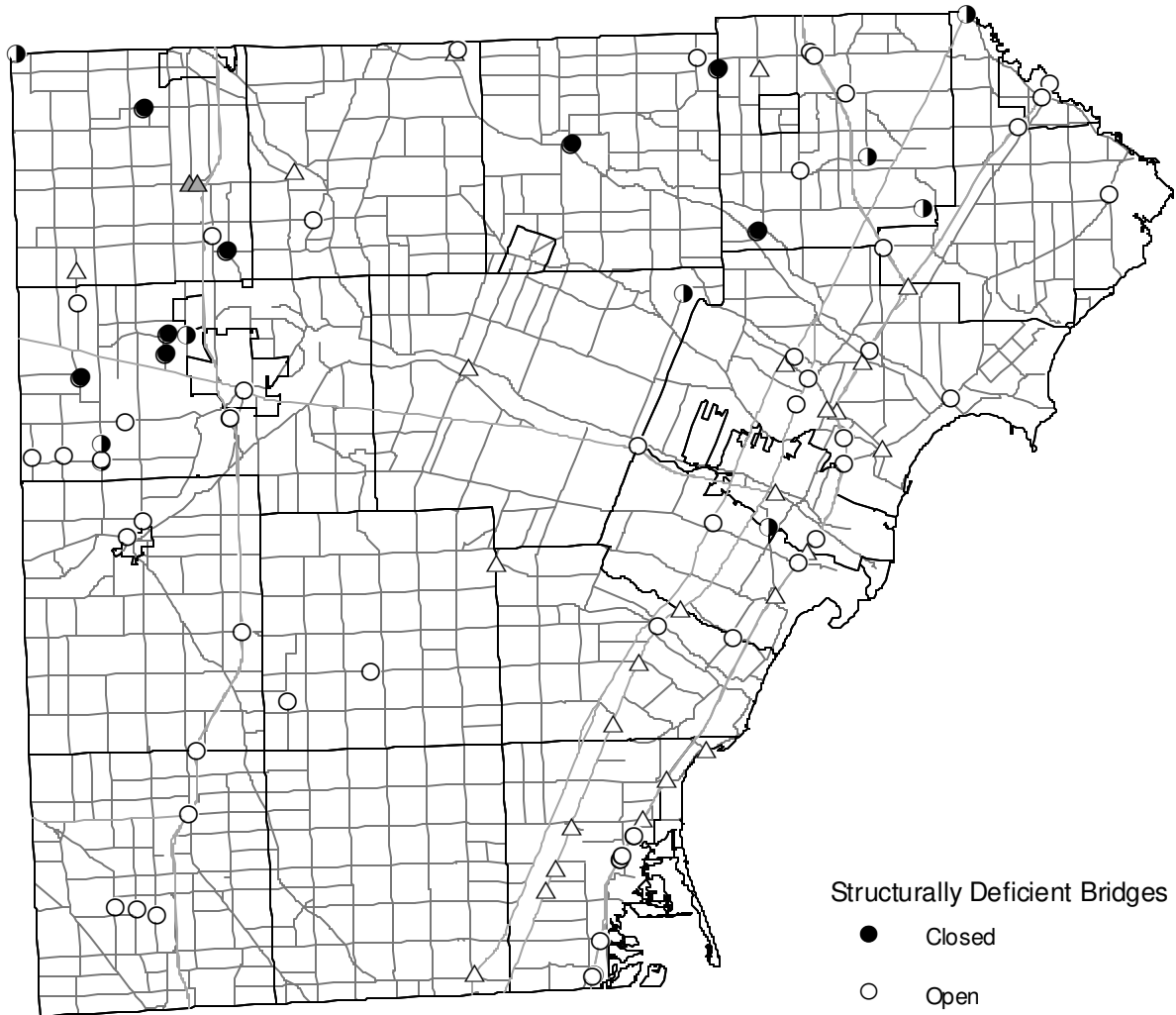
— Highway

— Local Road



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February 2002

Structurally Deficient or Functionally Obsolete Bridges Monroe County



Structurally Deficient Bridges

- Closed
- Open
- ◐ Posted

Functionally Obsolete Bridges

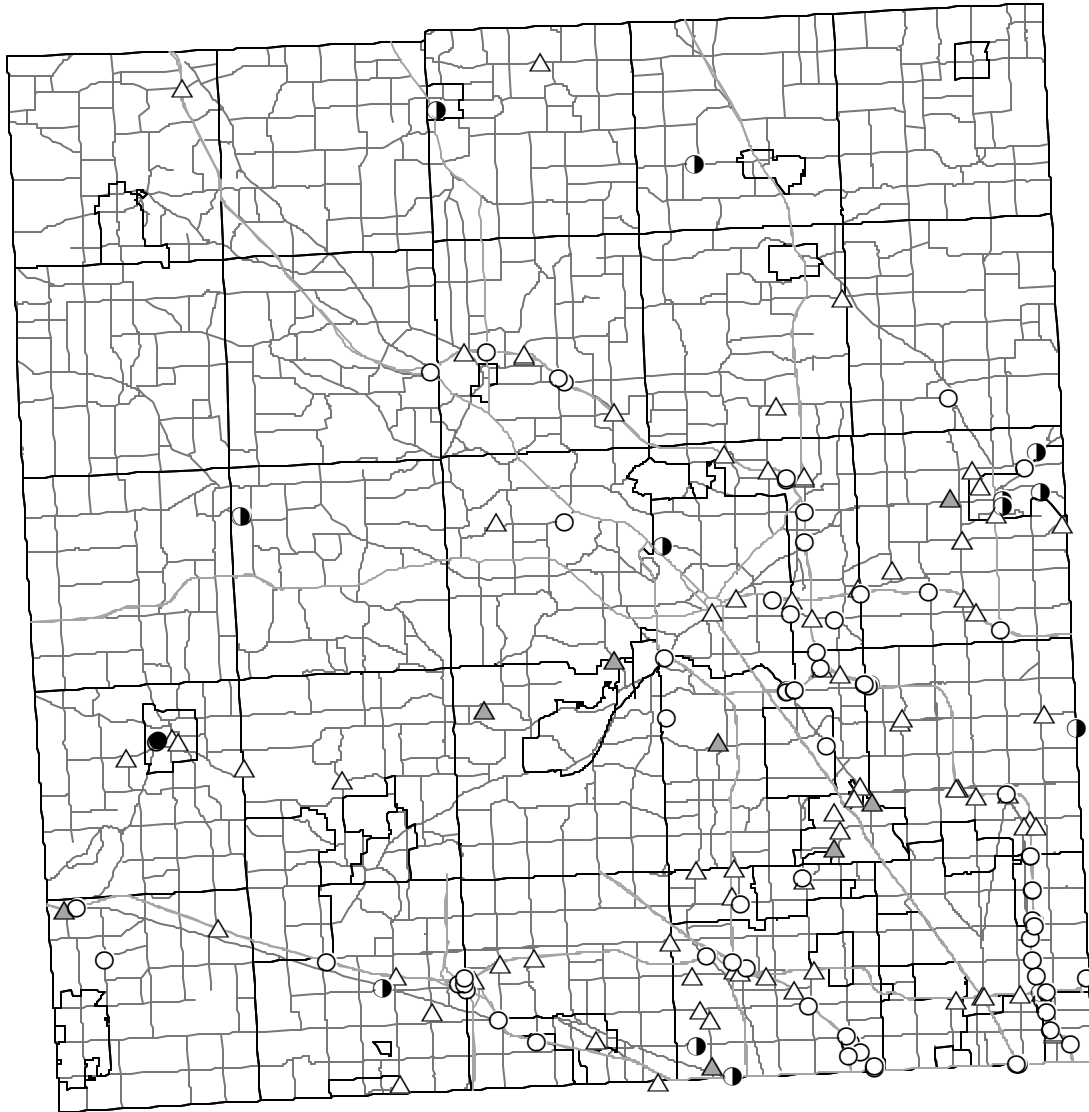
- △ Open
- ▲ Posted

- Highway
- Local Road



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Structurally Deficient or Functionally Obsolete Bridges Oakland County



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Structurally Deficient Bridges

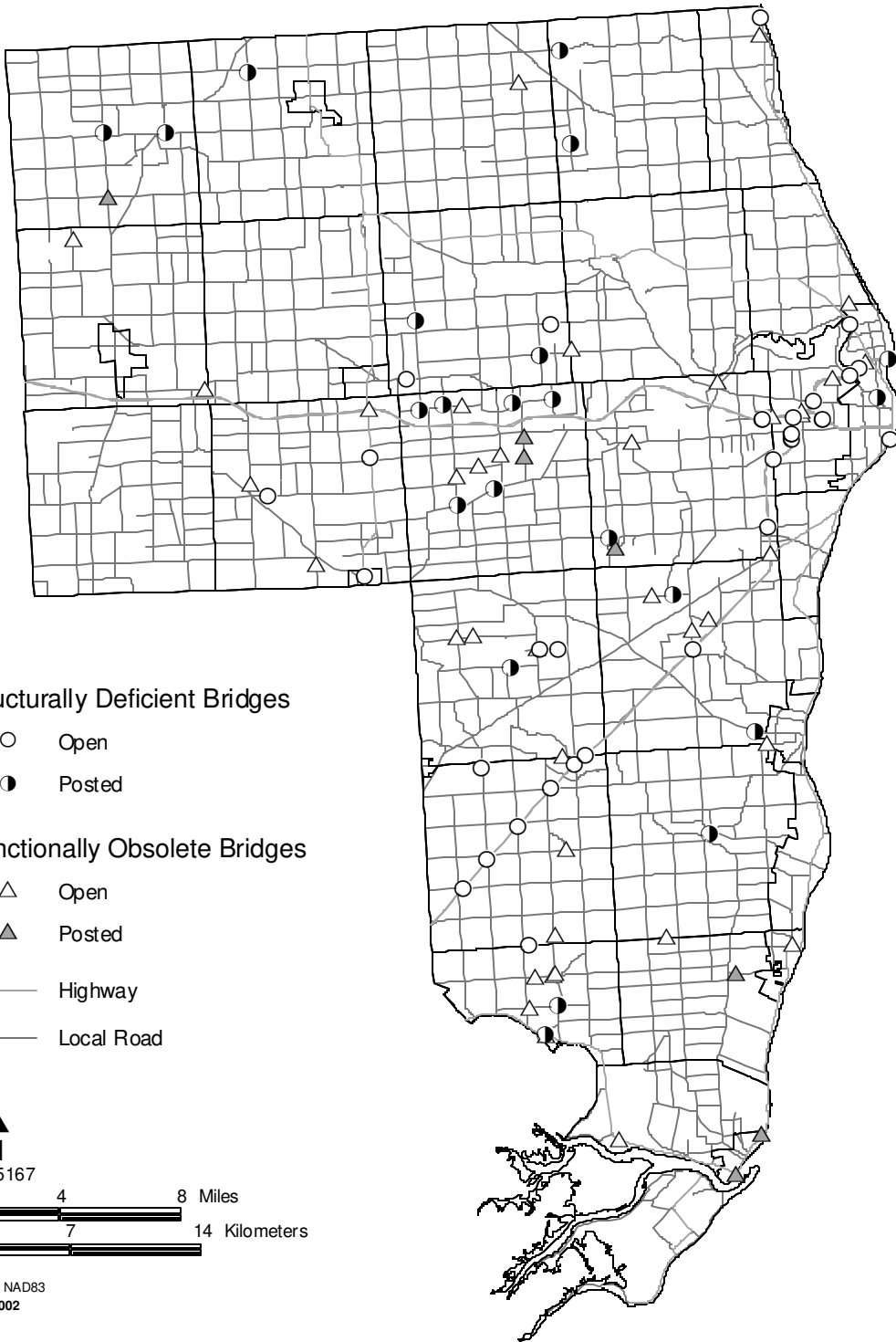
- Closed
- Open
- ◐ Posted

Functionally Obsolete Bridges

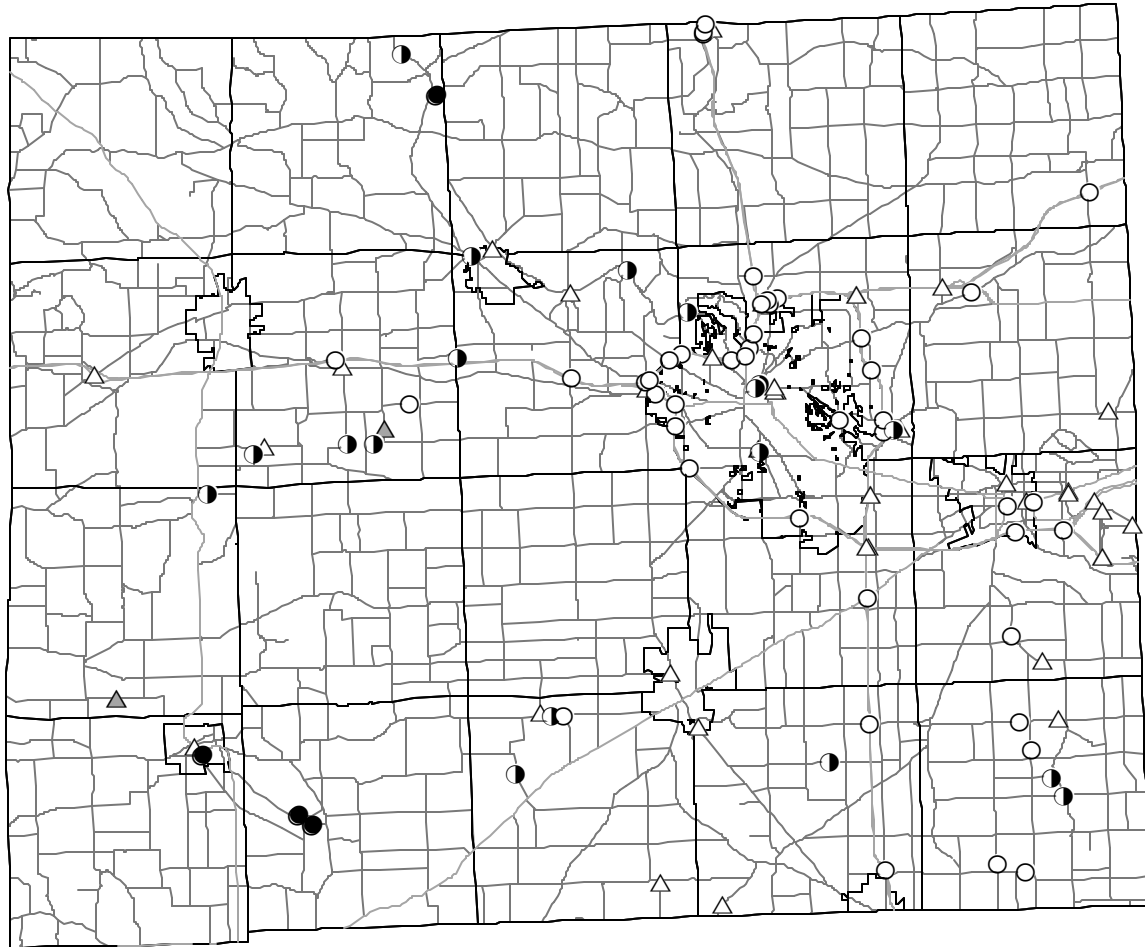
- △ Open
- ▲ Posted

- Highway
- Local Road

Structurally Deficient or Functionally Obsolete Bridges St. Clair County



Structurally Deficient or Functionally Obsolete Bridges Washtenaw County



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Structurally Deficient Bridges

- Closed
- Open
- ◐ Posted

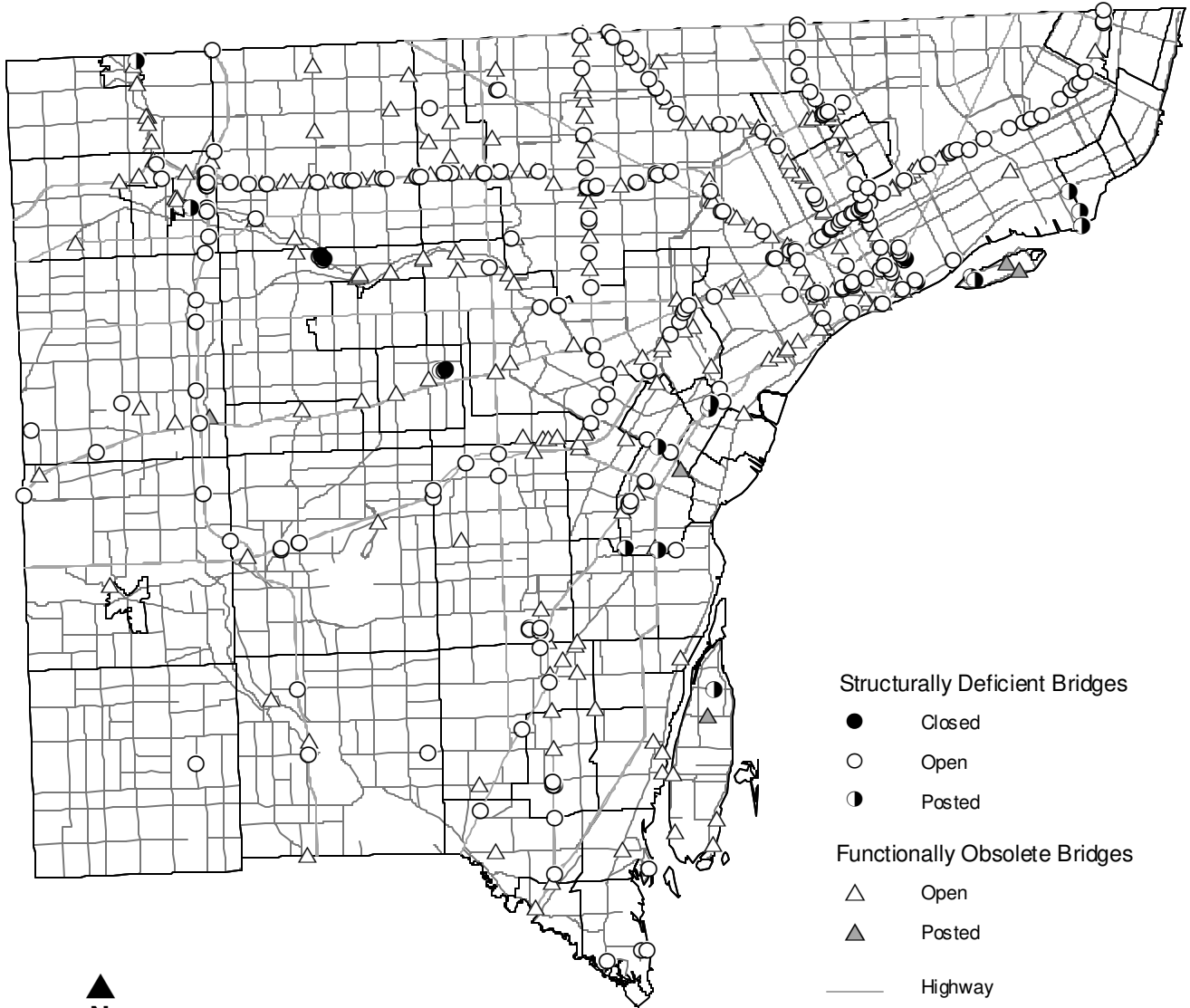
Functionally Obsolete Bridges

- △ Open
- ▲ Posted

— Highway

— Local Road

Structurally Deficient or Functionally Obsolete Bridges Wayne County



Structurally Deficient Bridges

- Closed
- Open
- ◐ Posted

Functionally Obsolete Bridges

- △ Open
- ▲ Posted
- ══ Highway
- Local Road



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