Chapter Trans 205
COUNTY TRUNK HIGHWAY STANDARDS

Trans 205.01 Purpose.

Trans 205.03 County trunk highway standards.

Trans 205.05 Project review.

Trans 205.035 Use of alternative “3R” standards.

Trans 205.04 Exceptions to design standards.

Note: Chapter Hy 34 as it existed on December 31, 1986 was repealed and a new chapter Trans 205 was created effective January 1, 1987.

Trans 205.01 Purpose. (1) Pursuant to s. 84.01 (9) (b), Stats., the department of transportation adopts these rules relating to projects for constructing or reconstructing and relating to processes incidental to building, fabricating or bettering a county trunk highway, but not relating to maintenance of a county trunk highway. Maintenance includes all those measures and activities necessary to preserve a highway, as nearly as possible, in the condition of its construction. Maintenance generally involves no change in horizontal alignment, roadway widths or grade.

(2) Any county trunk highway improvement project, on which construction is started after January 1, 1987, shall follow this chapter.

History: Cr. Register, December, 1986, No. 372, eff. 1−1−87.

Trans 205.02 Definitions. As used in this chapter:

(1) “Average daily traffic” or “ADT” means the average 24-hour traffic volume during a stated period divided by the number of days in that stated period; unless otherwise specified, the stated period is one year.

(2) “Bridge design load” means the maximum vehicle loading that a bridge is designed to accommodate without exceeding the allowable working capacity of any structural member or group or system of structural members.

(3) “Design speed” means the maximum safe speed that can be maintained over a specified section of highway when conditions are so favorable that the design features of the highway govern.

(5) “Functional classification” has the meaning set forth in ch. Trans 76.


(10) “Maintenance” generally involves no change in horizontal alignment, roadway widths or grade.

(11) “Roadway” means the portion of a highway, including shoulders, for vehicular use.

(12) “Shoulder” means that portion of a roadway that is contiguous to the traveled way and is used primarily for vehicle stopping in an emergency.

(13) “Traveled way” means the portion of the roadway designed for movement of vehicles, exclusive of the shoulders.

(7) “Regional engineer” means a Wisconsin department of transportation division of highways central office design chief road design engineer.

(8) “Rehabilitation” means replacing a major structural element of an existing highway to extend its service life for a substantial period of years and to enhance safety.

(9) “Restoration” means returning an existing highway to an acceptable condition to extend its service life for a substantial period of years and to enhance safety.

(10) “Resurfacing” means installing new or additional layers of surfacing on existing highway pavement to extend its service life for a substantial period of years and to enhance safety.

(11) “Roadway” means the portion of a highway, including shoulders, for vehicular use.

Note: Under this definition, a divided highway has 2 or more roadways.

(12) “Shoulder” means that portion of a roadway that is contiguous to the traveled way and is used primarily for vehicle stopping in an emergency.

(13) “Traveled way” means the portion of the roadway designed for movement of vehicles, exclusive of the shoulders.

History: Cr. Register, December, 1986, No. 372, eff. 1−1−87; rem. (7) to (9) to be (11) to (13), cr. (7) to (10), Register, February, 1992, No. 434, eff. 3−1−92; correction in (4) made under s. 1392 (4) (b) 6., Stats., and remun. (4) to (6m) under s. 1392 (4) (b) 1., Stats., Register February 2013 No. 686.

Trans 205.03 County trunk highway standards.

(1) The design standards for urban county trunk highway improvement projects shall conform with the applicable department of transportation criteria, and, if applicable, with the federal criteria for the class of highway involved. The minimum design standards for rural county trunk highway improvement projects shall be as set forth below for each of the rural county trunk highway functional classifications. The functional classification for a particular rural county trunk highway segment shall be that shown for the segment on the most current department of transportation rural functional system map prepared under ch. Trans 76 for local transportation aids purposes or, if applicable, on the most current federal aid system map.

Note: Chapter Trans 76 was repealed.

(2) The rural county trunk highway minimum design standards for each of the rural county trunk highway functional classifications are as shown in the following tables:
Trans 205.035 Use of alternative “3R” standards.

(1) The standards in s. Trans 205.03 shall be used for all county trunk highway improvement projects, unless a region director expressly authorizes, in writing, the use of the department’s “Design Criteria for Resurfacing, Restoration, and Rehabilitation Projects,” also known as “3R” standards, for a resurfacing, restoration, or rehabilitation project on an existing highway located in his or her region.

Note: Examples of improvement projects which may be appropriate for “3R” standards include resurfacing highway pavement; grinding and repairing pavement joints; replacing or recycling pavement; widening lanes and shoulders; replacing bridge elements to correct structural deficiencies; bridge deck overlays; and other related improvements such as minor incidental subgrade work and correction of minor drainage problems.

(2) A region director may not authorize or approve the use of the department’s “3R” standards for the construction of a new highway or for the complete reconstruction of an existing highway.

(3) A request to use the department’s “3R” standards in lieu of the standards in s. Trans 205.03 may be submitted to a region director only by a county highway commissioner, or by a county highway commissioner’s designee.

(4) A region director shall grant or deny a request to use the department’s “3R” standards within 90 days after receiving a request.

(5) In determining whether to grant or deny a request to use the department’s “3R” standards in lieu of the standards in s. Trans 205.03, a region director shall consider all of the following:

(a) Adequacy of design.
(b) Cost effectiveness.
(c) Safety improvement.
(d) Environmental impact.
(e) Social and economic impact, including dislocation or relocation of property owners.

(6) The rural county trunk highway minimum “3R” standards for roadway dimensions, by functional classification, and usable bridge widths are as shown in the following tables:
### TABLE (A) – ARTERIALS*

<table>
<thead>
<tr>
<th>TRAFFIC VOLUME</th>
<th>ROADWAY WIDTH DIMENSIONS IN FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Class</td>
<td>Design ADT</td>
</tr>
<tr>
<td>3RA1</td>
<td>Under 750</td>
</tr>
<tr>
<td>3RA2</td>
<td>750–2000</td>
</tr>
<tr>
<td>3RA3</td>
<td>Over 2000</td>
</tr>
</tbody>
</table>

*Minimum design standards for sight distance, horizontal alignment and vertical alignment shall conform with applicable department of transportation criteria.

**A traveled way width of 24 feet is required on federally designated long truck routes and is desirable on state designated truck routes and non-designated routes where the current heavy vehicle (six or more tires) traffic volume is more than 10 percent of design ADT.

### TABLE (B) – COLLECTORS AND LOCALS*

<table>
<thead>
<tr>
<th>TRAFFIC VOLUME</th>
<th>ROADWAY WIDTH DIMENSIONS IN FEET</th>
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</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

*Minimum design standards for sight distance, horizontal alignment and vertical alignment shall conform with applicable department of transportation criteria.

**A traveled way width of 24 feet is required on federally designated long truck routes and is desirable on state designated truck routes and non-designated routes where the current heavy vehicle (six or more tires) traffic volume is more than 10 percent of design ADT.

### TABLE (C) – BRIDGE WIDTH*

<table>
<thead>
<tr>
<th>DESIGN ADT</th>
<th>USABLE BRIDGE WIDTH IN FEET**</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–750</td>
<td>Traveled way</td>
</tr>
<tr>
<td>751–2000</td>
<td>Traveled way plus 2 feet</td>
</tr>
<tr>
<td>2001 – 4000</td>
<td>Traveled way plus 4 feet</td>
</tr>
</tbody>
</table>

*Bridge replacement or widening should be evaluated if the bridge is less than 100 feet long and the usable width is less than the values in the table.

**If lane widening is planned as part of the “3R” project, the usable bridge width should be compared with the planned width of the approaches after they are widened.

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### Trans 205.04 Exceptions to design standards.

1. After a region director has decided whether to use either the design standards in Trans 205.03 or the alternative “3R” standards in Trans 205.035, he or she may expressly authorize, in writing, exceptions to either of these standards, if federal or state funds are not used for the improvement project.

2. Exceptions to either the design standards in ss. Trans 205.03 or 205.035 for improvement projects using federal or state funds must be approved in writing by a regional engineer and, when federal funds are used, by the division administrator of the federal highway administration.

3. In determining whether to authorize exceptions to the construction standards in s. Trans 205.03 or the alternative “3R” standards in Trans 205.035, a region director shall consider all of the following:

   a. Adequacy of design.
   b. Cost effectiveness.
   c. Safety improvement.
   d. Environmental impact.
   e. Social and economic impact, including dislocation or relocation of property owners.

Note: “Exceptions to Standards” is located at the department’s offices, in the Facilities Development Manual, procedure number 11–1–2.

### Trans 205.05 Project review.

1. On or before December 1 of each year, each county highway commissioner shall file with the appropriate region director a report for the county certifying that any and all county trunk highway improvement projects for which funds were expended or obligated during that year conformed to the minimum standards established under s. 84.01 (9) (b), Stats., the certification shall be on forms prescribed by the department of transportation. All county trunk highway improvement projects shall be reviewed by the region director for compliance with the standards stated in s. Trans 205.03.

2. If any county has not complied with the standards, the region director shall notify the county in writing stating the items which are noncomplying. When the noncomplying projects have subsequently been made to comply with the standards, the region director shall certify compliance on forms designated for this purpose by the department of transportation. Project review.

**History: Cr. Register, December, 1986, No. 372, eff. 1–1–87; r and recr. Register, February, 1992, No. 434, eff. 3–1–92; correction in (1), (3) intro.) made under s. 13.92 (4) (b) 6., Stats., Register February 2013 No. 686.