

ORDINANCE FOR MINIMUM HIGHWAY DESIGN STANDARDS

WHEREAS, It is in the public interest for the Town of Belvidere, Buffalo County to establish minimum highway design standards for highways being constructed in the town to accommodate anticipated traffic and afford satisfactory access to police, firefighting, snow removal, sanitation, and road maintenance equipment;

NOW THEREFORE IT IS ORDAINED BY THE TOWN BOARD OF SUPERVISORS OF THE TOWN OF BELVIDERE, BUFFALO COUNTY as follows:

SECTION 1. Definitions.

In order to clarify this ordinance the following definitions are applicable:

- A. Approach ♦ that portion of road extending 100 feet on each side of a culvert or bridge.
- B. Base Course ♦ the supporting base material of the roadway, including shoulder.
- C. Drainage ♦ the gradual drying of highway by system of ditches, trenches, channels, etc.
- D. Grade ♦ the rate of ascent or descent of roadway.
- E. Highway ♦ the road or way over which the public generally has a right to pass, to include the complete right-of-way.
- F. Road Bed ♦ the whole material laid in place and ready for travel.
- G. Roadway ♦ the traveled portion of the highway.
- H. Surface ♦ -- the top of the roadway, or traveled surface.

SECTION 2. Applicability.

This ordinance shall be applicable to all highways laid out by the Town Board after adoption of this ordinance, including and highways dedicated in plats for proposed subdivisions submitted for review pursuant to Chapter 236 of Wisconsin Statutes, any private highways being donated to the town, and any other highways being accepted by the town as public highways in the town.

SECTION 3. Minimum Road Design Standards.

The following minimum design standard shall apply under this ordinance: All Town highways shall be classified as local roads unless designated by the town board as collector or arterial. The classification of all roads under this ordinance shall be within the complete discretion of the town board considering such factors as traffic count, character of anticipated traffic, and relation of highway to traffic patterns within the town and other highway systems. It is intended that local be the lowest traffic count, with access to private property as principal function. Collector highways are intended to be highways acting as collectors from local roads to higher priority roads or developed areas. Arterials are intended to serve as corridors through the town serving intra-regional and inter-area traffic movement.

Residential Commercial/Industrial
With C/G* Without C/G* With C/G* Without C/G*

Minimum R.O.W. 66♦ 66♦ 66♦ 66♦

Minimum width of Base Course (including curb, gutter or shoulders)

Local 30♦ 28♦ 32♦ 32♦
Collector 32♦ 32♦ 40♦ 50♦
Arterial 40♦ 34♦ 40♦ 50♦

Residential Commercial/Industrial
Improvement With C/G* Without C/G* With C/G* Without C/G*

Minimum Width of Surfacing
Local 30♦ 20♦ 32♦ 24♦
Collector 32♦ 22♦ 40♦ 30♦
Arterial 40♦ 24♦ 48♦ 48♦

* With C/G means with curb/gutter
* Without C/G means without curb/gutter

Maximum Grade (percent)
Local** 10 10 8 8
Collector** 8 8 6 6
Arterial** 6 6 6 **Minimum Grade .5

Minimum Radius of Horizontal Curve (in feet)
Local 100 100 200 200
Collector 100 100 200 200

Arterial 300 300 400 400

Corner Radius at Intersections
15 30 15 30

Minimum Length of Vertical Curve

Local 100, but not less than 20 for each algebraic difference in grade
Collector 200, but not less than 50 for each one percent
Arterial -- 300, but not less than 50 for each algebraic difference in grade

Minimum Length of Tangents Between Reverse Curves

Local 100 100 200 200
Collector 100 100 200 200
Arterial 200 200 300 300

Minimum Sight Distance (in feet)

Local 200 200 200 200
Collector 250 250 250 250
Arterial 300 300 300 300

Residential Commercial/Industrial

Improvement With C/G* Without C/G* With C/G* Without C/G*

Design Speed (miles per hour)

Local 30 30 30 30
Collector 35 35 40 40
Arterial 40 40 40 40

CUL-DE-SACS (permanent)

Maximum Length

Maximum desirable length of roads with Cul-de-sacs is 1000 feet. Through roads are most desirable.

Minimum R.O.W. Radius at Cul-de-sacs

Local 60 60 60 60

Minimum Base Course Radius

Local 40 42 40 42

Minimum Pavement Radius

Local 40 40 40 40

Base Course

Base Course must be of a quality, thickness, and composition suitable for the location.

Surface Course

Surface Course must consist of bituminous concrete composition suitable for anticipated traffic loads. The minimum amount of pavement necessary for acceptance must be at least 2 in thickness.

Ditching and Culverts

The ditching of the roadways must be complete and have proper elevation to provide for adequate drainage. Any culverts necessary for proper drainage shall be installed after elevation and location is obtained from the Town Board. The minimum length of any culvert installed in a road bed shall be at least two feet greater than the base course width. Apron end walls shall be used. The diameter and length will be subject to the approval of the Town Board, after the amount of the flowage is determined. In no case shall the culvert be less than 18 in diameter.

Bridges

All bridges shall meet the minimum requirements of state and federal law. In the event it is decided by the Town Board, that the construction of a bridge would be of a size and cost; that it would create a hardship to the owner of the land, required to build said bridge, then the Town Board may proceed to accept the road, complete as required above, except that part extending 100 feet on each side of said bridge. This portion of the road shall be known as the approach. The approach will be accepted uncompleted, with the reservation that the town will bill back to the owner a portion of the cost of construction of such bridge. The Town will proceed to build said bridge and approach with the help of bridge aid if available, and billing the balance not covered by the aid or portion to be billed back to the owner.

SECTION 4. Authority for Higher Standards.

The road design standards in Section 3 as stated above are intended to be minimum design standards. The Town Board shall have the discretion to impose higher design standards where in the opinion of the Town Board local conditions require higher standards or anticipated traffic in quantity or quality will require higher standards.

SECTION 5. Application for Determination of Applicable Standards

Any person may apply to the Town Board to determine what design standards should apply in a particular location, giving the description of the proposed design standards being requested to be approved for any proposed highway being proposed to be built. No person shall commence construction of any highway anticipated to be turned over to the town without having written approval of the proposed highway design signed by the Town Board.

SECTION 6. Final Inspection and Acceptance by the Town Board.

Upon completion of the proposed highway, the Town Board will proceed to make final inspection, accepting or rejecting the highway as the case may be in the discretion of the Town Board. If the highway is rejected, then corrections must be made as stated by the Town Board before final inspection will be made again. If final acceptance is made by the Town Board, the owner or owners will turn over to the Town, a warranty deed free and clear of any liens necessary to convey free and clear title to the Town for the highway.

Adopted by the Town Board this _8th_ day of February, 2010

Filed in the Office of Town Clerk ___/s/ David Danzinger____
This 8th day of February, 2010 Town Chairman

___/s/ Deborah M Ruff_
___/s/ Warren Rivette____
Town Clerk Town Supervisor

___/s/ Robert Tuxen____
Town Supervisor