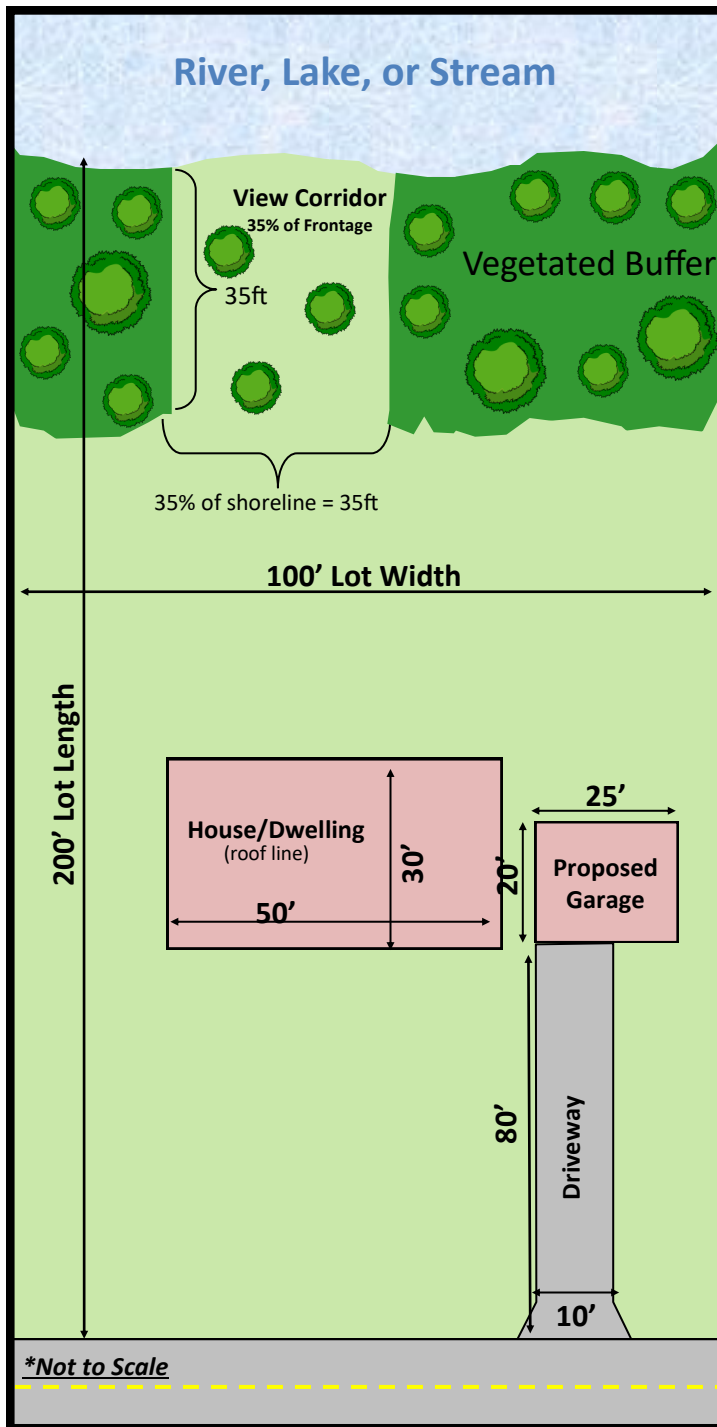


Shoreland Impervious Surface Calculations

Riparian lots or properties entirely within 300' of the Ordinary High Water Mark



How do I calculate total impervious surfaces?

Impervious surfaces are all those surfaces that do not allow rain to absorb into the soil. This includes: roofs, decks, retaining walls, paved areas such as driveways, sidewalks and patios and compacted areas such as gravelled driveways, walkways, and play areas.

To calculate the percent of impervious surfaces on your lot: divide the total square footage of impervious surfaces by the total square footage area of your lot then multiply by 100. See the example below as a reference.

Impervious and treated surfaces are determined by a licensed professional, *i.e.* surveyor, engineer, architect or other contractor acceptable by the Planning and Zoning Department.

| Impervious Surface Items | Dimensions | Surface Area |
|------------------------------|------------------------|----------------------|
| House/Dwelling | Length 30' x Width 50' | 1,500 sq/ft |
| Proposed Garage | Length 20' x Width 25' | 500 sq/ft |
| Driveway | Length 80' x Width 10' | 800 sq/ft |
| Total Impervious Area | | = 2,800 sq/ft |

♦ building dimensions (must use roof line)

Total Impervious Area : = 2,800 sq/ft

Total Lot Area : = 20,000 sq/ft

$(2,800 \text{ sq/ft}) \div (20,000 \text{ sq/ft}) \times 100 = 14\% \text{ Impervious}$

Total Impervious Area ÷ Total Lot Area x 100 = Impervious Surface Calculation

Formula for converting acres to square feet.

(Property Acreage) x (43,560) = Total Lot Area (sq/ft)

Manitowoc County Planning and Zoning Department

4319 Expo Drive | P.O. Box 935 | Manitowoc, WI 54221-0935

Tel. (920) 683-4185 | www.co.manitowoc.wi.us

Shoreland Impervious Surface Calculations

Riparian lots or properties entirely within 300' of the Ordinary High Water Mark



PARCEL PIN# _____

(From Tax Bill - Include All Zeros and Decimal Points)

Permit# _____

(FOR OFFICE USE ONLY)

Name of Owner _____

Address of Project Site _____

Parcels Impervious Surface Percentage \leq 15% = No Mitigation Required

Parcels Impervious Surface Percentage $>$ 15% and \leq 30% = Requires Mitigation or Treatment

Parcels Impervious Surface Percentage $>$ 30% = Requires Treatment (rain garden)

Calculating the percent of impervious surfaces on lots within 300 feet of OHWM:

Impervious surfaces are those surfaces/areas that releases all or a majority of the precipitation that falls on it. "Impervious surface" excludes frozen soil but includes rooftops, sidewalks, driveways, parking lots and private roads unless specifically designed, constructed and maintained to be pervious. Please fill in the applicable information for the project and calculate the percent of impervious areas within the lot.

House/Dwelling (square footage of roof) _____ Ft²

Driveway(s), Paved or Unpaved _____ Ft²

Parking pads(s) Paved or Unpaved _____ Ft²

Walkway(s), concrete, pavers, or gravel _____ Ft²

Patio(s), (including wood slatted decks) _____ Ft²

Outbuilding 1 (square footage of roof and slabs) _____ Ft²

Outbuilding 2 (square footage of roof and slabs) _____ Ft²

Private road(s) _____ Ft²

Retaining wall(s) _____ Ft²

Other Impervious Areas (_____) _____ Ft²

Total sq/ft of Impervious Surfaces **Total** _____ Ft²

(_____) \div (_____) \times (100) = _____ %

Total sq/ft of Impervious Surfaces
(within 300' of the OHWM)

Total sq/ft of Shoreland Lot
(Total parcel area)

Surveyor's Stamp

Here

Surveyor's Signature

Date