

TOWN OF SPRINGDALE

DRIVEWAY CONSTRUCTION GUIDE

DRIVEWAY SPECIFICATIONS FOR NEW DRIVEWAYS

- (1) **Slope**. The maximum final slope of a driveway or any portion of a driveway driving surface shall be no more than 10%.

- (2) **Width**.
 - (a) A single use driveway shall be constructed with a minimum fourteen (14) foot road bed width and minimum twelve (12) foot road surface width. There shall be a minimum of 22 feet clear width, within which the driveway roadbed shall be centered.

 - (b) A shared driveway or any shared segment of a driveway shall be constructed with a minimum eighteen (18) foot road bed width and a minimum sixteen (16) foot road surface width. There shall be a minimum of 22 feet clear width, within which the driveway roadbed shall be centered.

- (3) **Radius of Curves**. All curves in a driveway shall have an inside radius of no less than 36 feet when measured at the edge of roadbed. This requirement may be relaxed by the Town Board when the applicant demonstrates that the overall pavement width and a smaller radius is sufficient to accommodate the largest public safety equipment such as fire engines and ambulances or if all structures can receive public safety services without entry of the largest vehicles.

- (4) **Drainage**.
 - (a) For acceptable drainage, ditches along the right-of-way, roadway crowning, and culverts shall be provided by the property owner when needed. A driveway shall be planned, constructed, and maintained in a manner that prevents diversion of surface water onto the traveled portion of a public highway.

 - (b) When a ditch is necessary to prevent surface water from flowing across the driveway surface, the depth of that ditch shall be at least fourteen (14) inches deep at four (4) feet from the driveway surface. Side banks beyond the ditch bottom shall be constructed of earthen materials and shall extend for a minimum of 4 feet from the ditch bottom. The side banks shall be graded to a slope of not less than 1 foot of vertical rise for each 6 feet of horizontal distance (16.7% slope) and not more than 1 foot of vertical rise for each 3 feet of horizontal distance (33% slope). Excluded from this ditch requirement is a driveway for which retaining walls and/or other erosion control measures are installed as specified in any driveway layout plan approved by the Town Board.

 - (c) Any culvert(s) required beyond the right-of-way access point shall be designed to handle storm water drainage of the upstream land area without flooding or eroding the road surface and adjacent property.

(5) **Bridges and Dams.**

(a) Any bridge(s) or dams that may be built between the public road right-of-way and the driveway termination point shall be designed to handle storm water drainage of the upstream land area without flooding or eroding the road surface and adjacent property.

(b) Any bridge(s) or dams that may be built between the public road right-of-way and the driveway termination point requires the submission of an engineered plan certifying the load bearing capacity of the structure at a minimum of 80,000 pounds to accommodate public safety vehicles, and shall be constructed according to the engineered plan for that specific bridge.

(6) **Culverts.** If construction of a driveway would block the natural flow of water along the right-of-way of a town street or road, it shall have a culvert at least 18 inch diameter equivalency or larger as necessary to provide unobstructed storm water flow at the ditch line where the driveway meets the town street or road. The Town Board may require engineering data to support the sizing of any proposed culvert. The minimum length of culvert and depth of fill is calculated in the Town of Springdale Culvert Selection section of this guide. When the governing body controlling the right-of-way is not the Town, that controlling governing body will determine culvert requirements.

(7) **Juncture with Public Road.**

(a) All junctures with a public road shall be perpendicular and shall have a maximum slope of 5% from the point where the driveway intersects the public road surface for a minimum of 20 feet from the public road surface. This requirement may be relaxed by the Town Board when oblique entry poses minimal safety hazard (e.g. in a cul-de-sac.)

(b) Driveways descending to the intersecting roadway shall have a slight dip placed across the driveway just before the culvert at the access point to the public roadway to prevent debris from washing onto the public road. When a culvert is not required at the access point, the dip shall occur a minimum of 8 feet back from the public road surface. The Town Board may make an exception to this requirement when the applicant demonstrates that the driveway can be constructed to prevent the deposit of substantial debris, runoff or ice onto the public road and/or neighboring properties.

(8) **Substrate.** A driveway shall have at least 4 inches of 2-inch rock on the roadbed, covered with at least 2 inches of ¾-inch gravel, or other equivalent weight bearing surface (e.g. asphalt or concrete) sufficient to accommodate safe access of public safety vehicles and equipment.

(9) **Surface Paving.** Concrete driveways and/or decorative paving shall not be any closer than fifteen (15) feet from the edge of a town street or road surface unless the road surface begins with concrete curb and gutter. Non-decorative asphalt paving may abut the edge of a town street or road surface. When a driveway intersects a state highway or a county road, contact that agency for their requirements.

(10) **Sight Distance (Vision triangle).** The sight distance at the access point where a driveway enters onto a public street, road or highway shall provide an unobstructed view (line of sight) equal to or greater than the standard stopping distance applicable to whichever is lower, the design speed or posted

speed limit at that location. The site distance shall be measured forty four [44] inches up from the driveway surface, that being the operator position of a typical passenger vehicle, and a minimum distance of ten (10) feet back from the road driving surface, thereby not allowing any portion of the vehicle to extend over the road driving surface. The standard stopping distances are established by the State of Wisconsin, Department of Transportation.

(11) **Public Safety Vehicle and Equipment Access and Egress.**

(a) An area not less than 22 feet in width and 20 feet in height shall be cleared of all vegetation along the entire length of a driveway right-of-way in order to permit the safe passage of public safety vehicles and equipment to structures served by the driveway. Where such clearing would be environmentally damaging, the Town Board may modify this requirement only after determining that failure to clear will not interfere with public safety vehicles and equipment or will not create a safety hazard. A field road is exempt from this requirement.

(b) Any permanent or fixed structures along the entire length of the driveway shall be a minimum inside width of fourteen (14) feet and a minimum overhead clearance of fourteen (14) feet.

(c) All driveways over one hundred fifty (150) feet in length shall provide adequate area for a vehicle of up to twenty five (25) feet in length to quickly and safely reverse direction at the driveway termination point thereby allowing a forward direction of egress.

(d) All driveways over four hundred fifty (450) feet in length shall additionally demonstrate that a vehicle of up to thirty eight (38) feet in length can safely reverse direction within one hundred (100) feet of the driveway termination point.

(12) **Costs.** All costs of driveway design, including an engineered plan if required, construction, modification and maintenance, including the cost of culverts, erosion control measures, and relocation of any existing utilities shall be paid by the property owner. The property owner shall be responsible for costs of required review(s) or inspection(s) by the town engineer.

(13) **Erosion Control.** Erosion control requirements are established and administered by Dane County. More specific details are found in the Dane County Code of Ordinances, Chapter 11.05(3).