

**APPANOOSE COUNTY
ORDINANCE NO. ~~56~~ 57**

**AN ORDINANCE TO ESTABLISH A POLICY FOR THE CONSTRUCTION AND
RECONSTRUCTION OF ROADWAYS AND BRIDGES ON THE APPANOOSE
COUNTY SECONDARY ROAD SYSTEM.**

BE IT ORDAINED BY THE BOARD OF SUPERVISORS APPANOOSE COUNTY:

SECTION 1 -- PURPOSE

The purpose of this ordinance is to establish Appanoose County's policy for the construction of roads, reconstruction of roads, construction of bridges, reconstruction of bridges and other roadway and drainage features associated with road and bridge construction.

SECTION 2 -- LEVEL OF SERVICE

The level of service shall be based on traffic counts, pavement type, roadway geometrics and other data used in accepted engineering design as established by the County Engineer, Iowa Department of Transportation and the Federal Highway Administration.

SECTION 3 -- DESIGN CRITERIA

In implementation, this policy shall set the minimum design standards that Appanoose County will follow in the construction or reconstruction of roads and bridges. These criteria shall be based on accepted engineering practices and standards established by the Iowa Department of Transportation and the Federal Highway Administration.

The County Engineer shall assure the minimum design standards established herein are adhered to in a uniform manner unless, in his or her professional judgment, a deviation from standards is warranted. Minimum design standards are not subject to discretionary enforcement. Any deviations must be documented and the County Engineer and/or the County Board of Supervisors must justify the adopted standard as unreasonable and/or impossible to implement in the specific application.

PAVED ROADS

A) New Pavement

- 1) New pavement shall be constructed with a minimum 22' wide pavement surface and granular shoulders.
- 2) Paved shoulders and/or edge line rumble stripes shall be constructed if crash data warrants based on accepted HSIP and TSIP cost/benefit analysis.
- 3) Rumble strips shall be installed on all approach stop situations.
- 4) Pavement type shall be determined by a calculation of 50-year life cycle cost including construction, maintenance and replacement of pavement features, assuming current clear zone and shoulder width requirements.

B) Reconstruction of Pavement

- 1) Paved roads shall be reconstructed with a 22' wide pavement top or to the previous pavement width, whichever is greater, with granular shoulders.
- 2) Rumble strips shall be installed on all approach stop situations.
- 3) Pavement type shall be determined by cost and consideration of efficiency in pavement maintenance activities with adjacent pavements. Costs are defined as calculation of 50-year life cycle cost including construction, maintenance and replacement of pavement features, assuming current clear zone and shoulder width requirements.

UNPAVED ROADS

A) Aggregate Roads

- 1) New construction of an aggregate surfaced road with projected ADT greater than or equal to 50 VPD shall have a total maximum 28-foot finished top, including shoulders. (Two 11-foot lanes, two 3-foot shoulders.)
- 2) New construction of an aggregate surfaced road with projected ADT less than 50 VPD is recommended at the standard shown in A-1, but may be constructed at a finished top width of not less than twenty feet at the discretion of the County Engineer.
- 3) Reconstruction of an aggregate surfaced road shall be to the width prior to reconstruction, not to exceed 28 feet in width.

B) Class B & C Roads

- 1) Class B and C roads will be built to the minimums as outlined by Iowa Code.

BRIDGES & DRAINAGE STRUCTURES

A) Paved Routes

- 1) Bridges on paved routes shall be built with a minimum width of 30'. Wider structures will be installed when there are issues relating to oversized vehicles, pedestrian facilities, bicycle usage or other issues

where the additional width is felt to be warranted.

- 2) Culverts under paved roads shall be concrete.
- 3) Pipe culverts larger than 54" in diameter may be substituted with reinforced concrete box culverts.
- 4) Design for drainage structures will be governed by accepted hydraulic design standards. Input from IDNR, Corp of Engineers, Iowa DOT, NRCS, or USGS may impact the size and type of structure choice.
- 5) Water and livestock or other animal crossings will use separate structures whenever possible.

B) Unpaved Routes

- 1) Bridges will normally be a minimum of
 - a. 24' on an aggregate surfaced local roads. Dead end roads (< 20 AADT and Level B) may be narrower at the discretion of the County Engineer and the Board of Supervisors.
 - b. 24' width on Farm-to-Market designated routes having ADT of less than 100 VPD,
 - c. 30' width on Farm-to-Market designated or paved routes having ADT greater than or equal to 100 VPD.
- 2) Culverts may be metal or concrete. Pipe culverts larger than 54" in diameter may be substituted with reinforced box culverts.
- 3) Design for drainage structures will be governed by accepted hydraulic design standards. Input from IDNR, Corp of Engineers, Iowa DOT, NRCS, or USGS may impact the size and type of the structure to be placed.
- 4) Water and livestock or other animal crossings will use separate structures whenever possible.

C) Class B & C Roads

Class B and C roads will be built to the minimums as outlined by Iowa Code.

D) Entrance Bridges

Any and all bridges/drainage structures that are fully or partially in the road right-of-way that serve as entrances to private property from the public roadway shall be considered the jurisdiction and responsibility of the County. Replacement of any such structure with a drainage culvert will cause such structure to become subject to the Appanoose County Entrance Policy. If a structure does not sit fully or partially in the road right-of-way it will be considered a private structure and not under the jurisdiction of the county.

SECTION 4 -- REPEALER

All ordinances and resolutions, or parts thereof, in conflict herewith are hereby repealed.

SECTION 5 -- SEVERABILITY CLAUSE

If any section, provision, or part of this ordinance shall be adjudged invalid or


unconstitutional, such adjudication shall not affect the validity of the ordinance as a whole or any section, provision, or part thereof not adjudged invalid or unconstitutional.

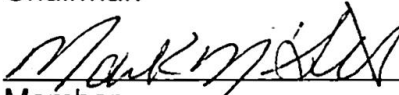
SECTION 6 -- WHEN EFFECTIVE

This ordinance shall be in effect immediately after its final passage and publication as provided by law. In addition, this ordinance shall remain in effect until such time the Board of Supervisors passes a future ordinance repealing this ordinance.

Passed and approved this 17th day of April, 2023.


Appanoose County Board of Supervisors


Chairman


Member


Member

ATTEST:


Kelly Howard
Appanoose County Auditor

First Reading: 4/17/2023

Second Reading: Waived 4/17/2023

Third Reading: Waived 4/17/2023

Approved: 4/17/2023

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