

ORDINANCE NUMBER FOURTEEN REVISED

CRITERIA FOR CONSTRUCTING AND ACCEPTING ROADS AND APPROACHES ONTO THE COUNTY HIGHWAY SYSTEM, THE COUNTY SECONDARY HIGHWAYS AND LOCAL SECONDARY ROADS, HEREINAFTER REFERRED TO AS "COUNTY ROADS"

BE IT ORDAINED by Pennington County:

Section 101 - Purpose:

- A. To establish the minimum criteria under which roads may be retained as part of or considered for placement on, the "County Highway System", "County Secondary Highway", "Local Secondary Roads", or "Special Use Roads" as defined in Section 400.
- B. To insure that County Roads serve the greatest number of people in the most equitable way within the County's resources.
- C. To provide minimum specifications for the construction of County Roads and approaches.
- D. To reserve with the Board of Commissioners the full authority and discretion to exercise its best judgment to resolve problems that are unforeseeable in this Ordinance.

Section 102 - Policy:

- A. Consistent with the purposes stated above, the criteria set forth in Section 201 and 202 will qualify a road for consideration for acceptance as a County Road but does not guarantee acceptance. The Board of Commissioners may waive elements of the stated specifications for roads and approaches in unusual circumstances to avoid absurdity or hardship, but shall exercise its discretion in every case by an action of the majority of the Board, recorded in its minutes.
- B. The Board of Commissioners will only consider adding roads as County Roads based on the following priorities with recommendations of the County Highway Department:
 - Priority 1. Asphalt roads with curb and gutter that meet or exceed Ordinance 14 Standards and Specifications that serve a Suburban Residential District (SRD).
 - Priority 2. Asphalt roads that meet or exceed Ordinance 14 Standards and Specifications that serve General Commercial, Highway Service, and Low Density Residential Districts (LDR).
 - Priority 3. Asphalt or Gravel roads that meet or exceed Ordinance 14 Standards and Specifications and serve General or Limited Agriculture Districts.
 - Priority 4. All other roads that are in good to fair condition and meet a minimum twenty-four (24) foot roadway width.

- C. The Board of Commissioners, with recommendations of the County Highway Department reserves unto itself the determination of whether to add a road as a County Road or not, the appropriate classification of the road, and the priority level of maintenance on the road.
- D. The developer(s) may petition the Board of Commissioners to commit County funds to help offset the costs to the developer(s) for improvements to meet the construction standards, and specifications. It is the responsibility of the developer(s) to provide the Commission with the information/documentation necessary for the Commission to consider the petition. The Commission will consider any petition including reference to SDCL 31-13-51. Nothing herein shall be construed to require the Commission to commit County funds to any given project.

Section 103 - Procedure for Requesting Roads to be Designated as County Roads:

- A. A written request shall be submitted to the Board of Commissioners. Requests shall be complete and include such information as location, length of road, map or plat. Requests shall state that the road meets or exceeds the specifications as stated in Sections 201 and 202. The request will be forwarded to the Highway Department for their review. The Highway Department may request additional information including certification from contractors, engineers, and suppliers that Section 201 and 202 requirements have been met.
- B. The Highway Department shall make all necessary inspections and request additional information as necessary. The Department's recommendation shall then be forwarded to the Board of Commissioners for its consideration, along with an appreciation of current and reasonably foreseeable recurrent costs involved. The Highway Department shall notify the applicant, in writing, of the Board's decision.

Section 201 Minimum Construction Standards and Specifications:

- A. Commencing with the effective date of this Ordinance, any road to be considered for acceptance as a County Road shall meet the minimum construction standards and Specifications as stated below and as shown on Exhibit A attached hereto. The owner(s) and or developer(s) are responsible for all costs associated with the construction or improvement as required.
- B. In the event the road is also subject to the provisions of the County Subdivision Ordinance, or lies within the extraterritorial area of a municipality, the road shall also comply with any and all additional County/City standards and specifications as applicable.
- C. Road design shall be consistent with the published standards of the "America Association of State Highway Transportation Officials". Road construction materials and construction methods shall conform to the current published edition of the "Standard Specifications for Roads and Bridges", South Dakota Department of Transportation.
 - 1. The minimum dedicated right-of-way width shall be sixty-six feet (66'). Sixteen feet (16') may be perpetual easement in General and Limited Agriculture, LDR and SRD Districts.

2. Maximum grade of any road or portion of road shall not exceed twelve percent (12%).
3. Maximum degree of curvature shall not exceed twenty-one degrees (21°).
4. Crown rates shall be between 0.02 ft/ft to 0.06 ft/ft. Maximum super elevation rate in curves shall be 0.07 ft/ft.
5. Maximum in slope shall be 4 to 1, back slope may vary but under no condition shall it be greater than 1.1 to 1.
6. Ditches shall have a minimum depth of two feet (2’).
7. Culverts shall be sized to assure proper drainage. The minimum size of culvert shall be eighteen inches (18”).
8. Dead end roads shall have a cul-de-sac with a minimum constructed radius of fifty feet (50’).
9. Gravel surfacing shall meet the requirements of “Part B. Granular Bases and Surfacing” of the “Standard Specification for Roads and Bridges”, South Dakota Department of Transportation.
10. Roads that have or will have 250 ADT (average daily traffic) or more should be paved.

Section 202 Standards and Specifications for Asphalt Pavement/Concrete Pavement Roads:

1. The design of pavement shall be in compliance with Section 201 and the “AASHTO Guide for Design of Pavement Structures” (Current Edition).
2. Pavement structure shall be designed for the predicted traffic loading over a twenty (20) year performance period (minimum). Traffic can be represented by a number of eighteen thousand pound (18-kip) equivalent single axle loads (ESAL). The ESALs for the performance period represents the cumulative number from the time the roadway is opened to traffic to the time when the serviceability is reduced to a terminal value.
3. The pavement structure shall have a minimum of six inches (6”) of granular base. The granular base shall meet the requirements of “Part B. Granular Bases and Surfacing” of the “Standard Specification for Roads and Bridges”, South Dakota Department of Transportation.

Section 300 – Specifications for Approaches:

- A. Typical Approach Detail as shown on Exhibit “B” and listed below shall be followed in the construction of approaches within public right-of-ways under the jurisdiction of Pennington County. Road construction materials and methods shall conform to the

current published edition of the "Standard Specifications for Roads and Bridges", South Dakota Department of Transportation.

1. Maximum grade on an approach shall not exceed five percent (5%) within the right-of-way.
 2. Culverts shall be sized to assure proper drainage. The minimum size of culvert will be eighteen inches (18") in diameter. Fifteen inches (15") may be allowed for roads constructed prior to this Ordinance.
 3. The minimum culvert length shall be thirty-two feet (32') with a minimum roadway width of twenty feet (20').
 4. Approaches shall be constructed perpendicular as practical to the road.
 5. Only one (1) approach per residence will be allowed. Approaches to General Commercial, Highway Service, General or Limited Agriculture Districts, large tracts or parcels of land will be per South Dakota Codified Law (SDCL) 31-24-3 through 31-24-7.
 6. Sight distance of approaches shall meet published Standards of the American Association of State Highway Transportation Officials (AASHTO).
- B. Property owner(s) must obtain a written permit and approval from the County Highway Department for each approach. Property owner(s) must construct approach according to County specification and current policy, and is responsible for all cost of construction and maintenance.

Section 400 - Road Classifications and Designated Maintenance:

A. COUNTY HIGHWAY SYSTEM

Definition:

The County Highway System shall be the principal or primary highway system of roads in Pennington County. This system of roads provides access to the major geographical areas in the County. Roads included in this definition must be designated by resolution or official motion of the Board of Commissioners and approved by the State Department of Transportation.

Maintenance Level: Full maintenance and snow removal service.

B. COUNTY SECONDARY HIGHWAYS

Definition:

County Secondary Highways are those roads that connect to County Highway System roads, or in some cases connect to roads on the State Trunk Highway System. Generally, County Secondary Roads provide access to large land areas not served by County Highway System Roads.

County Secondary Roads may provide access to, but not into, cities, towns, developments and unincorporated residential areas. All roads defined, as County Secondary Roads shall be designated by resolution or official motion by the Board of Commissioners and recorded in its minutes.

Maintenance Level: Full maintenance and snow removal service.

C. LOCAL SECONDARY ROADS

Definition:

Local Secondary Roads are those roads that generally provide access to residential areas or farm/ranch communities, but not into cities, towns, and road districts or incorporated residential areas. Local Secondary Roads generally connect to County Highway System Roads, County Secondary Roads, or roads on the State Trunk Highway System. Local Secondary Roads shall be designated by resolution or official motion of the Board of County Commissioners, and recorded in its minutes.

Maintenance Level: Minimum maintenance and snow removal. Maintenance and snow removal will be as determined by the Highway Department, but generally aggregate surfaces will be maintained once or twice a year. Asphalt surfaces will be maintained as necessary. Mowing will be conducted only as required for efficient maintenance and proper drainage. Signing will be provided as deemed necessary.

D. SPECIAL USE ROADS

Definition:

Special Use Roads are a substandard system of lanes, trails and roads.

Criteria:

This system of roads will not be required to meet the standards of Sections 201 and 202, but the roads shall provide reasonable access and travel for normal highway equipment. In addition, this system of roads must connect to a State or County road. Roads on this system must be located on legally established public right-of-way, or acceptable and recorded road use easements.

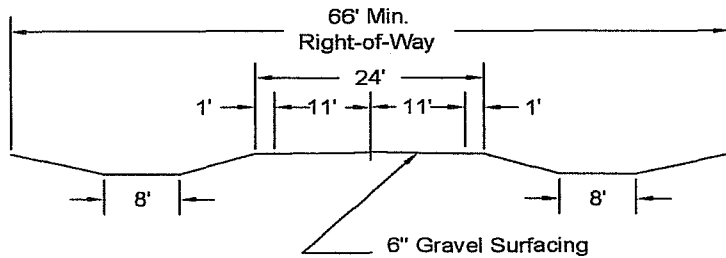
Maintenance Level: Lanes, trails, and other roads will not receive regular maintenance or snow removal. Maintenance and snow removal service will be provided only under emergency situations as determined by the County Highway Superintendent, or as directed by the Board of Commissioners.

Section 500 - Amendments:

- A. The Amendment of this Ordinance may be initiated by the Board of Commissioners under the provisions of South Dakota Codified Laws, Chapter 7-18A-2, or by individual citizens, or groups of citizens under the provisions of South Dakota Codified Laws 7-18A-9.

EXHIBIT A

PENNINGTON COUNTY HIGHWAY DEPARTMENT SPECIFICATIONS FOR COUNTY ROADS



* Maximum slope is 4 to 1 (current standard of the South Dakota Department of Transportation). Steeper slopes are subject to the approval of Pennington County.

The above Typical Road Section shall be followed in the construction of roads to be placed on the County Road System. Road design shall be consistent with published Standards of the American Association of State Highway Transportation Officials. Road construction materials and methods shall conform to the current published edition of the "Standard Specifications for Roads and Bridges" of the South Dakota Department of Transportation, when referenced in the standards below. A copy of these Specifications is on file at the County Highway Department Office.

The following are standards, which shall be met:

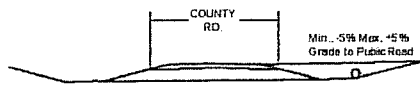
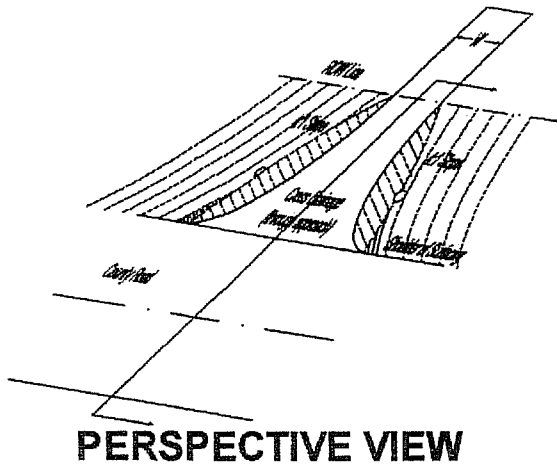
1. The minimum dedicated right-of-way width shall be sixty-six feet (66').
2. Maximum Grade of any road or portion of road shall not exceed twelve percent (12 %).
3. Maximum Degree of curvature shall not exceed twenty-one degrees (21°).
4. Crown rates shall be between 0.02 ft/ft to 0.06 ft/ft. Maximum super elevation rate in curves shall be 0.07 ft/ft.
5. Maximum in slope shall be 4 to 1. Back slope may vary, but under no condition shall it be greater than 1.1 to 1.
6. Ditches shall have a minimum depth of two feet (2).
7. Culverts shall be sized to assure proper drainage. The minimum size of culvert shall be eighteen inches (18").
8. Dead end roads shall have a cul-de-sac with a minimum constructed radius of fifty feet (50').
9. Gravel Surfacing shall meet the requirements of "Part B. Granular Bases and Surfacing" of the "Standard Specifications for Roads and Bridges".
10. Roads that have or will have 250 ADT (average daily traffic) or more should be paved.

STANDARDS and SPECIFICATIONS FOR ASPHALT PAVEMENT/CONCRETE PAVEMENT ROADS

1. The design of pavement shall be in compliance with all of the above and the "AASHTO GUIDE FOR DESIGN OF PAVEMENT STRUCTURES (Current Edition)".
2. Pavement structures shall be designed for the predicted traffic loading over a twenty-year performance period (minimum). Traffic can be represented by a number of 18-kip equivalent single axle loads (ESAL). The ESALs for the performance period represents the cumulative number from the time the roadway is opened to traffic to the time when the serviceability is reduced to a terminal value.
3. The Pavement structures shall have a minimum of six inches (6") of granular base. The Granular Base shall meet the requirements of "Part B. Granular Bases and Surfacing" of the "Standard Specifications for Roads and Bridges".

EXHIBIT B

PENNINGTON COUNTY HIGHWAY DEPARTMENT SPECIFICATION FOR COUNTY APPROACHES

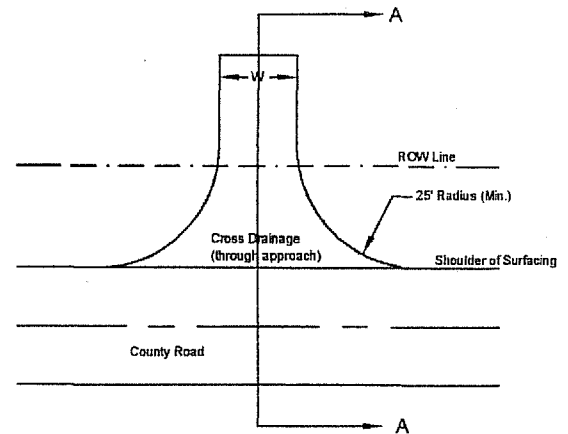


** W is surface Width at Right-of-Way line

W – 20' Min. for Residences

W – 28' Min. for Commercial

Maximum W – 50'



The above Typical Approach Detail shall be followed in the construction of roads within Public right-of-ways under the jurisdiction of Pennington County. Road construction materials and methods shall conform to the current published edition of the "Standard Specifications for Roads and Bridges" of the South Dakota Department of Transportation, when referenced in the standards below. A copy of these Specifications is on file at the County Highway Department Office.

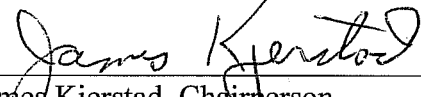
The following are standards, which shall be met:

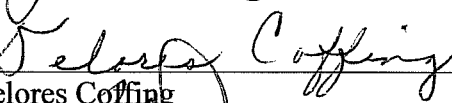
1. Maximum grade on an approach shall not exceed five percent (5%) within the right-of-way.
2. Culverts shall be sized to assure proper drainage. The minimum size of culvert will be eighteen inches (18") in diameter Fifteen inches (15") may be allowed under certain conditions. The minimum length of culvert shall be thirty-two feet (32').
3. Gravel surfacing shall meet the requirements of the "Standards Specification for Base or Surfacing". Minimum depth of gravel surfacing shall be four inches (4").
4. Approaches shall be constructed perpendicular as practical to the County Road.
5. Only one (1) approach per residence will be allowed. Approaches to General Commercial, Highway Service, General or Limited Agriculture Districts, large tracts or parcels of land will be per South Dakota Codified Law (SDCL) 31-24-3 through 31-24-7.
6. Sight distance of approaches shall meet published Standards of the "American Association of State Highway Transportation Officials".


APPROVED THIS 10th day of May 2005.

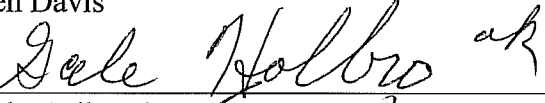
First Reading: April 5, 2005
Second Reading: May 10, 2005

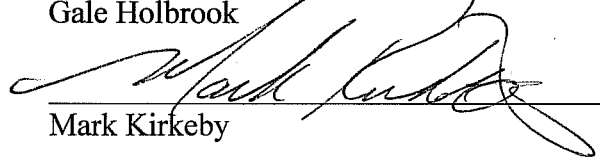
BOARD OF COUNTY COMMISSIONERS OF
PENNINGTON COUNTY


James Kjerstad, Chairperson

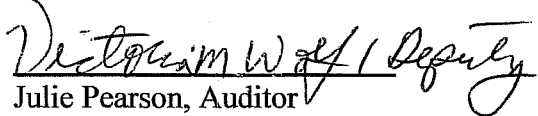

Delores Coffing


Ken Davis


Gale Holbrook


Mark Kirkeby

ATTEST:


Julie Pearson, Auditor