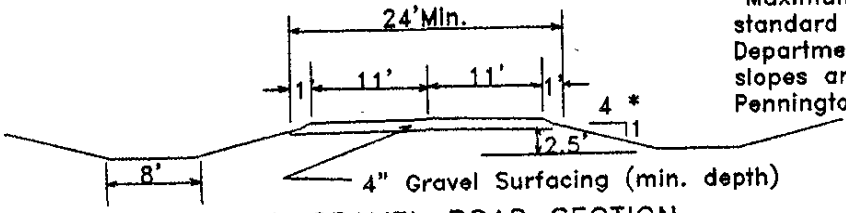


*Section line road to these Specs*

# PENNINGTON COUNTY HIGHWAY DEPARTMENT SPECIFICATIONS FOR COUNTY ROADS AND APPROACHES

\*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.

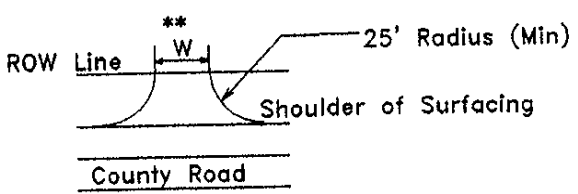


TYPICAL GRAVEL ROAD SECTION

The above Typical Road Section and Typical Approach Detail 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 the "Standard Specifications for Roads and Bridges" of the South Dakota Department of Transportation, when referenced in the Standards below. Copy of these Specifications is on file at the County Highway Department Office.

The Following are Standards which shall be met:

1. Maximum Grade of any road or portion of road shall not exceed ten percent (10%).
2. Maximum Degree of Curvature shall not exceed twenty one degrees (21°).
3. 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.
4. Culverts shall be sized to assure proper drainage. The minimum size of culvert shall be eighteen inches (18") in diameter, although fifteen inch (15") diameter will be allowed under certain conditions.
5. Gravel Surfacing shall meet the requirements of Part B of the "Standard Specifications".
6. Asphalt and Concrete construction methods and materials shall meet the requirements of Part C and Part D of the "Standard Specifications".
7. All Dead-End Roads shall have Cut-De-Sacs with a minimum constructed radius of fifty feet (50').
8. Approaches shall be constructed perpendicular as practical to the County Road.
9. The Minimum dedicated Right-of-Way width shall be sixty six feet (66').



\*\* W is Surface Width at Right-of-Way line  
 W -- 16' Min. for Single Residences  
 W -- 20' Min. for Multiple Residences  
 W -- 28' Min. for Commercial  
 Maximum W -- 50'

TYPICAL APPROACH DETAIL

1. Only one approach shall be allowed to each tract or parcel of land.
2. Existing roadway drainage will be maintained. Culverts shall be sized to assure proper drainage. The minimum size of culvert shall be eighteen inches (18") in diameter, although fifteen inch (15") diameter will be allowed under certain conditions. The minimum length of approach culvert shall be thirty-two feet (32').
3. Sight distance of approaches shall meet published Standards of the American Association of State Highway Transportation Officials.

Recommended By: William D. [Signature]  
County Engineer

Sept 4, 1997  
Date

Approved By: Therese H. [Signature]  
Pennington County Highway Supt.

Sept 4<sup>th</sup>, 1997  
Date