

SPRINGVALE TOWNSHIP POLICY #102-01
ROADWAY STANDARDS

I. INTRODUCTION

This policy is established by the Springvale Township Board to set and maintain the standards of design, materials, construction, and inspection for public improvements under the jurisdiction of the Township. These standards include the process for petitioning for improvement to pave existing gravel roadways, development standards for new roadway construction, and driveway connections to Township roadways.

II. SPECIAL ASSESSMENT PROCESS

Under Minnesota Statutes Chapter 429, the initiation of road and street improvements in Springvale Township may be commenced by either of the following:

1. By the Town Board; or
2. By petition of affected property owners per Minnesota Statutes Chapter 429. A handout explaining the process is available upon request.
3. The Township of Springvale will consider the total cost of each project as it relates to the overall traffic of the Township, the relative change in real estate value of the benefitted properties, the current real estate market conditions, and the current construction market conditions. With this consideration; the township will offset a portion of the project costs as a general benefit to the Township as a whole and assess the remaining portion. The Township will assess a minimum of 60% of the total project cost. The actual amount of the project assessed will be determined on a case by case basis.
4. The Township of Springvale will view properties for the purpose of said assessed costs as the number of possible residential unit lots. Properties that may support more than one assessed property will need to be considered by the Township Board for multiple assessment units. The items that need to be considered are the total area, the total roadway frontage, and other factors such as wetland impacts or road rights of way necessary for future development of the property. The Township Board will generally defer assessments on unimproved properties.
5. The Township of Springvale will typically finance the proposed project for a period of Ten years (10).
6. The Township of Springvale will charge the assessed property the actual rate of financing per bank loan or bond sale plus a cost of one and one half percent (1 ½%) over such rate in order to recoup upfront administrative costs.
7. The Township of Springvale has a Hardship Deferment policy for assessed costs.
8. The Township of Springvale will ask for and allow a constant principal payment, which allows the payment to decrease over time as the amount of interest accrued declines.
9. The Township of Springvale will allow for early payment of assessments.

III. DESIGN STANDARDS

The State of Minnesota Statutes Chapter 169 lists statutory speed limits for various conditions. Rural Residential Districts are defined and a statutory speed limit is given for that district. Any development that will meet the definition of a Rural Residential District when all of the lots are built upon, may use the statutory speed limit as the design speed. All roadways that do not meet the definition of a Rural Residential District shall use a design speed of 55 miles per hour.

Cul-de-sacs shall have a minimum paved radius of 50 feet and a right-of-way radius of 60 feet.

Street rights-of-way shall be a minimum of sixty-six (66) feet wide. Culverts under streets shall not be less than 15 inches in diameter.

Intersection radii shall be 30 feet at the bituminous pavement.

Streets shall have a maximum slope of 7%. Ditches shall have a minimum slope of 0.5%.

Maximum grades through intersections shall not exceed 1% measured 50 feet each direction from the intersection point, nor 3% measured 100 feet each direction from the intersection point.

Intersections shall meet not less than 90 degree angles. Exceptions may only be made for extreme hardships in the Townships determination.

IV. MATERIALS

Culverts - Culverts under paved streets in wetlands shall be reinforced concrete pipe. Culverts under paved streets without wetlands shall be riveted steel pipe.

Road Base - Aggregate Base shall be Class 5.

Gravel Shouldering - Aggregate Shouldering shall be Class 5. The shoulder shall have 2 inches of select topsoil placed over the aggregate and shall be seeded.

Bituminous Surface -Plant Mixed Bituminous Surface shall be MnDOT, SP 12.5 Wearing Course Mixture B for both the bituminous base course and for the bituminous wear course. SP 12.5 Wearing Course Mixture B for both the wear course and the base course. The Super Pave mixes require any mix in the top 3 inches to be wear course mixture.

Turf Establishment - All maintained lawn areas shall be restored with sod, all other disturbed areas shall be revegetated with seed mixture 240.

All road construction plans and specifications shall be reviewed by the Township Engineer. Upon recommendation for approval by the Township Engineer, the Town Board shall take action on the approval of the roadway final plans and specifications.

V. CONSTRUCTION

Embankment compaction will be 2105.3 F2 Quality Compaction (visual inspection) Method where embankment sections are less than two (2) feet vertical. For embankment sections greater than two feet, the quality control shall be by specified density method. All embankments are subject to test rolling immediately prior to placement of the aggregate base course. The minimum grading width is 30 feet.

Aggregate Base compaction will be 2211.3 C1 Specified Density Method. Aggregate base shall be placed on all driveways, 4 inches thick or equal to the existing depth, whichever is greater, and full width, from the edge of bituminous to road Right of Way. Aggregate base course for streets shall be 5 inches unless the street pavement section is designed by a qualified geotechnical engineer. The minimum aggregate base course shall be no less than 4 inches.

Bituminous Pavement will be placed per specifications 2360 Plant Mixed Bituminous Pavement. The minimum paving width is 24 feet. For new roadways, the minimum pavement thickness shall be 3 inches placed in two lifts. When a project involves paving an existing gravel roadway, the Township Engineering Firm will observe the conditions of the roadway, consult with the Township Grading contractor and Township Board and then make a recommendation to the Township Board on the necessary shaping and minimum bituminous pavement thickness. In no case will the pavement thickness be less than 2 inches in a single lift.

The bituminous pavement shall be widened by two feet along all driveway entrances and mail box locations.

All driveway entrances will be a minimum of six inches (6") below the edge of the pavement at a distance of 15 feet from the edge of the pavement. Culverts are required in most cases, with determination to be at the discretion of the Springvale Township Board. Head walls shall not be permitted. Slope paving is acceptable, but no boulders greater than 12 inches in their greatest dimension shall be used and no boulders shall extend higher than the surface of the driveway. Driveway in-slope in the ditch at the road shall be no greater than 3:1. Driveway access on Springvale Township roads shall meet the minimum spacing requirement of 100 feet from center to center. If conditions are present that cause a hardship in this spacing requirement, the Board will consider the hardship presented by the applicant and make a determination whether a reduced spacing may be allowed.

Mailboxes shall be swing-away type, mounted at a height in accordance with the local postmaster's direction (typically 42 to 45 inches above the road surface).

All streets and avenue signs, posts, road information signs channel posts, center lines, no passing and shoulder lines, as designated by the Board of Supervisors are to be installed and paid for by the Developer as defined in subdivision ordinance #4-2006. (Per Retro-Reflectivity Federal Requirements)

VI. INSPECTIONS

It will be the responsibility of the contractor to notify the Springvale Township Board and/or its agents so that adequate tests and inspections can be accomplished. The costs of these tests will be borne by the contractor.

Each phase of construction will be inspected and approved before subsequent layers are constructed. Required inspections are:

- 1) Before grading - mark R/W and 30' road width with lath at 100' intervals.
- 2) Inspect stripping or subcutting prior to embankment placement
- 3) Before back filling- 1 ½' sub cuts.
- 4) The roadway will be roll tested before placing gravel base - after grading is completed.
- 5) The gravel placement will be observed part-time and the density and gravel depths will be checked as needed in the opinion of the Springvale Township Board or their agent before placing bituminous surfaces.
- 6) Placement of the bituminous pavement will be observed full-time by the Township Engineering Firm.
- 7) Before final acceptance - after completing all road construction, utility placement and housing development.

The Springvale Township Engineering Firm will be notified at least 48 hours prior to the needed inspections, not including weekends or legal holidays. Failure to notify the Springvale Township Engineering Firm in time to perform inspections will result in one or more of the following:

1. The right of the Springvale Township Board and/or its agents to refuse acceptance of the proposed road.
2. The right of the Springvale Township Board and/or its agents to require test core borings periodically as requested by the Springvale Township Board and/or its agents to determine if proper gravel and bituminous depths meet the specifications herein provided. Test core borings for the entire project to average one (1) boring every five thousand square feet (5,000 sq. feet) with a minimum of 3 borings total, at the developer/ contractors expense. All borings are to be repaired at the developer/ contractors expense.
3. Forfeiture of performance bond/ escrow funds.

VII. EFFECTIVE DATE

This Policy shall be in full force and effect from and after its passage according to law.

- Approved Policy #102-01 July 16, 2012

Burt Coleman
Springvale Town Board Chair

Attest:

Michelle Kleven
Township Clerk