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BECKER COUNTY HIGHWAY DEPARTMENT

1771 North Tower Road
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BECKER COUNTY

GENERAL REQUIREMENTS FOR CONSTRUCTION

OF PUBLIC ROAD IN SUB-DIVISIONS

SCOPE: The purpose of these requirements is to establish minimum uniform improvements for construction of roads in subdivisions.

GENERAL: Roads and streets must be located within limits of dedicated public right of way as shown on plats.

ROADWAY WIDTH: Driving surface, shoulder to shoulder, shall be at least 28 feet and be of uniform width with defined shoulder line with a minimum 22 feet of gravel surfacing.

DEPTH OF DITCHES: Separation of shoulder and ditch bottom shall be a minimum of two feet. A minimum ditch width of six feet is desirable and should be maintained.

SHOULDER SLOPES: Shall be approximately 4:1 or flatter.

BACKSLOPES: Shall be approximately 3:1 or flatter.

RIGHT-OF-WAY: 66 feet minimum.

EMBANKMENTS: Shall be selected material at least two feet higher than adjacent grounds and shall be stable and uniform.

CUL-DE-SACS: 75 feet radius minimum for right of way; 55 feet radius for outside shoulder.

DRAINAGE: Culverts shall be furnished and installed as is necessary to facilitate surface and ditch drainage.

HORIZONTAL ALIGNMENT: Shall not have sharp curvature as to impede sight distance. Radii to be noted on preliminary plat. A minimum radius of 100 feet is required and a minimum tangent between reversed curves equal to the radii of the reversed curves.

VERTICAL ALIGNMENT: Shall not have sharp crest vertical curvature that would present hazardous driving conditions or grades in excess of 8% or less than 0.5%. A minimum parabolic vertical curve of 50 feet is required.

SURFACING: Shall have a minimum gravel surfacing inplace to provide adequate stability for normal use in wet periods or to provide a gravel-wearing course. Estimated rate of application 700 cubic yards per mile of roadway.

FINISHING: All construction debris shall be removed from right of way. Construction areas shall be left in a neat and presentable condition. Topsoil should be salvaged and spread uniformly over slopes and ditches. These areas shall be dragged. All washouts must be repaired. Road authority may ask for seeding.

SIGNING: Signs shall be installed in strict conformance with the Minnesota Manual of Traffic Control Devices.

PROCESS FOR APPROVAL:

1. Preliminary plan (24" x 36" maximum) received from County Zoning Administrator.

2. County Engineer reviews plan and conducts on-site viewing of area.

3. County Engineer submits comments of preliminary plat to County Zoning Administrator, with copy to developer. If more information is required, developer or his agent shall submit in a timely manner (see Section 4.1C).

4. The contractor shall review the requirements of the road construction prior to commencing work. It is suggested that the contractor arrange a pre-construction site review with the County Engineer. Prior to removal of the construction equipment from project site, the contractor shall contact township supervisors and County Engineer for highway preliminary inspection. Developer or his representative requests County Engineer to review final construction of roads and appurtenances a <u>minimum</u> of two weeks in advance of signing plat. A paper copy of final plat shall accompany inspection request.

5. Comparison between preliminary and final plats and review final plat for conformance to Section 4.2.

6. Engineer submits report to County Board. The County Board shall not approve a final plat without first receiving a report from the County Engineer certifying that the improvements meet the minimum requirements (Section 5.1.3).

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SUB-DIVISION ROAD CLASSIFICATIONS

Class “A” Road

This roadway is applicable for through township / local roads or when a roadway has high potential to be bituminous surfaced
28 foot graded top width
4:1 inslopes
3 foot ditch separation
6 foot ditch bottom
4:1 backslopes
4 inch aggregate surface @ 1,825 cubic yards per mile

Class “B” Road

This roadway is applicable for recreational or general development lakes or larger sub-divisions.
24 foot graded top width
3:1 inslopes
2 foot ditch separation
4 foot ditch bottom
3:1 backslopes
3 inch aggregate surface @ 1,170 cubic yards per mile

Class “C” Road

This roadway is applicable for access to Natural Environmental Lakes or small sub-divisions that are not immediately adjacent to other sub-divisions or are connected by another roadway
20 foot graded top width
3:1 inslopes
2 foot ditch separation
4 foot ditch bottom
2:1 backslopes
3 inch aggregate surface @ 980cubic yards per mile

Following pages contain Typical Sections of roadways.