

TOWN OF BERWICK
ROAD CONSTRUCTION STANDARDS
ROAD OPENING STANDARDS

General Information

For a private road to be upgraded for submission to the voters for acceptance as a Town Way or for a new road to be constructed for submission to the voters for acceptance as a Town Way, the following Minimum Standards listed below must be met. The person building the road or conveying it to the Town will be responsible for paying the Town's costs for engineering inspection(s) to ensure compliance with the Standards.

In addition, authorization from the Board of Selectmen or the Road Commissioner must be obtained before any work is performed in any Town Way by anyone other than the Municipality. (See 35A MRSA 2501 et seq.) Prior to the start of any such work, an application must be submitted to the Road Commissioner who is deemed to be the Designee of the Board of Selectmen. A certificate of insurance showing liability coverage of at least \$400,000 and listing the Town of Berwick as a named insured for the subject work must be provided. In addition, a deposit in the amount of one hundred percent of the estimated cost of the work must be provided via a certified check or other acceptable instrument to be held by the Town to ensure satisfactory repair/restoration of the work. In the event such repair/restoration is deemed by the Road Commissioner to be unsatisfactory, the Road Commissioner is authorized to use funds from the deposit to complete the work. The Road Commissioner may seek the advice of an engineer when necessary and any cost associated with obtaining such advice shall also be deducted from the deposit. The deposit or balance thereof will be returned to the person, firm or corporation providing it when the Road Commissioner has determined that the repair/restoration is satisfactory. The Road Commissioner is authorized to require alternative assurances from utilities. (2/19/02)

Minimum Standards

1. The subject road must be surveyed and monumented and a fifty foot right-of-way must be clearly delineated on the survey. The survey must bear the seal of a registered Maine surveyor.
2. The subject road must be conveyed to the Town via a warranty deed.
3. The Road Commissioner is authorized to seek the advice of an engineer in any phase of the road construction. If the Town's engineer recommends a variance in any of these Standards or additional requirements due to topography or other features of the land, the Road Commissioner is authorized to approve or require the necessary changes.
4. There must be a 50' right of way (that is, 25' from the center of the traveled way).
5. The road alignment must be as straight as possible avoiding unnecessary curves and angles.
6. Before grading is started, the entire area within the right-of-way necessary for the traveled way, (shoulders, sidewalks, drainage-ways, and utilities) must be cleared of all stumps, roots, brush, and other objectionable material. All shallow ledge, large boulders and tree stumps shall be removed from the cleared area.
7. All organic materials or other deleterious material, rocks, boulders and ledge shall be removed to the subgrade. If organic materials or other deleterious material are observed at the subgrade level, these materials shall be removed to a depth where they are no longer observed or to a depth of two feet below the subgrade of the roadway, whichever is less (see notes). If rocks or boulders are observed in the subgrade, the rocks or boulders observed shall be removed (see notes). If ledge is observed or obvious at the subgrade, ledge shall be removed to a depth of two feet below the subgrade of the roadway. NOTE:1) On soils which have been identified by the Town engineer as not being suitable for roadways, either the subsoil shall be removed from

the street site to a depth of two feet below the subgrade and replaced with material meeting the specifications for gravel aggregate subbase below or a Maine Department of Transportation approved stabilization geotextile may be used. 2) The term rocks or boulders refers to single pieces that are greater than 12" in any direction. (11/20/01)

8. Except in a ledge cut or in an area that the Town's engineer agrees is impossible, side slopes shall be no steeper than a slope of three feet horizontal to one foot vertical, and shall be graded, loamed, limed, fertilized, and seeded according to the specifications of the erosion and sedimentation control plan. Where a cut results in exposed ledge, a side slope no steeper than one foot horizontal to four feet vertical is permitted.

9. The road must have centerline grades of 0.50% minimum to 8.0% maximum.

10. Proper drainage, which shall include cross-culverts, if necessary, and driveway entrance culverts (minimum 24') must be installed. Additional drainage requirements may be added by the Town's engineer.

11. The work must provide a proper crown for drainage of road surface 1/4" per ft.

12. The road base must contain 28' wide base gravel 18" thick placed and compacted, with a maximum 4" cobble, part of which will be used in the side slopes.

13. Completed road surface of 26' with a 20' paved travel lane and 3' shoulders.

14. The base gravel is to be covered with 2" thick of 3/4" crushed gravel.

15. Pavement - Base: 2" bituminous concrete MDOT plant mix grade B. Surface: 1" plant mix grade C or D. Base pavement may be placed if air temperature is 35 degrees F or higher in the shade and the surface to be paved is not frozen or unreasonably wet. Surface layer may be placed if air temperature is 50 degrees F or higher in shade at the location.

16. If a road dead-ends, an acceptable turn around or cul-de-sac must be included as part of the roadway.

17. For other kinds of roads, such as Collector or Arterial Roads, follow the Street Design & Construction Standards in the Town's Subdivision Regulations.

Wayne Lemay
Eleanor Murphy
Don P. Stone

BOARD OF SELECTMEN

Adopted: 1/23/86
Revised: 9/10/96
Revised: 9/4/01
Revised: 11/20/01
Revised: 02/19/02

TOWN OF BERWICK

ROAD CULVERT POLICY

Pursuant to the provisions of 23 MRSA 705, any abutter on a Town Way or on a State or State Aid Highway within the compact area of Berwick (currently not applicable) who wishes to install a culvert within the public right-of-way, must obtain a permit from the Board of Selectmen to do so. The abutter shall provide, at the abutter's expense, a culvert satisfactory to the Board of Selectmen and the culvert shall be installed, and thereafter maintained, by the Town.

Pursuant to the provisions of 23 MRSA 3251 through 3253, it is a violation of law for anyone to place anything in the public way that interferes with, changes or obstructs the drainage thereof.

Pursuant to the provisions of 30A MRSA 3409, it is a violation of law for anyone to dig up the ground in a highway or Street to lay or repair drains or sewers without the written approval of the Municipal Officers.

For the purpose of this Policy, the Road Commissioner and/or the Department Head of the Public Works Department are deemed to be the designee's of the Board of Selectmen for administering this Policy.

This was reviewed and readopted by the Board of Selectmen this 5th day of November, 2008.

Thomas Fournier Sr.

Bruce W. Plante

Marcia E. Elton

Town of Berwick
Board of Selectmen

CONSTRUCTION MANUAL

MAINE DEPARTMENT of TRANSPORTATION

Bureau of Project Development

1, 2003

Section 304 ASC-Gravel -- 5 Pages

AGGREGATE BASE AND SUBBASE COURSE

304-1 GENERAL

References:

- (1) Construction Manual
Section 106
- (2) Standard Specifications
Sections 105, 106, 304, and 700
- (3) Special Provisions & Supplemental Specifications
- (4) Standard Details Highways and Bridges
- (5) Project Plans, Particularly the Typical Sections

This work consists of placing Aggregate Base and/or Aggregate Subbase material above subgrade and below the pavement grade. The material used is granular, screened or crushed material and must conform to the specification requirements.

304-2 LAYOUT AND CONTROL

Layout for line and grade, break points, and other control points is done by the Contractor.

304-3 TESTING REQUIREMENTS

Aggregate Base and Aggregate Subbase

- (1) Gradations: As per list of Minimum Testing Requirements; sampled in roadway as it is being placed.
- (2) Compaction: As per List of Minimum Testing Requirements, each layer

DESIRABLE MINIMUM DIMENSIONS OF A LOW-VOLUME PAVED ROAD

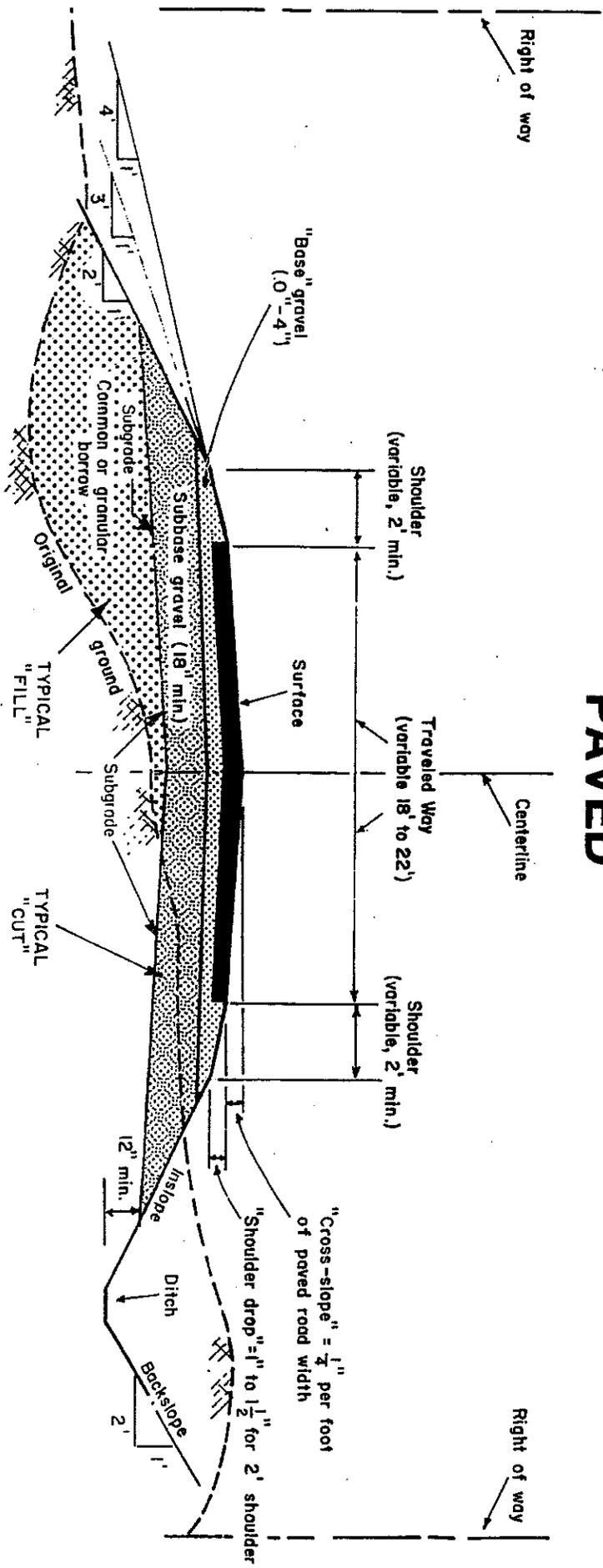


Figure 2 - 2

CULVERT RECORD FORM

Customer's Name: _____

Mailing Address: _____

Telephone Number: _____

Location of Culvert (Address): _____

Map _____ Lot _____

Will culvert be installed in a public right-of-way? Yes _____ No _____

Size and Length of Culverts used: Length _____ Size _____

Total Amount Due \$ _____

Date Culvert Installed by Town: Month _____ Day _____ Year _____

This form must be turned into the Town Office when payment is made, prior to installation of culvert, and then turned into the Code Enforcement Office for filing.

Signature/ Public Works Employee

Date