

Drainage Approval Policy

Purpose

To ensure that any work conducted within the Municipal Right of Way for the purpose of drainage improvement:

1. Is designed to be safe for vehicular traffic
2. Is designed and constructed so as to not be nuisance for the municipality or adjacent landowners
3. Conforms to municipal bylaw and provincial legislation

Background

Periods of high rainfall have demonstrated how the cumulative effects of alterations to natural drainage patterns that have been made by agricultural, residential and municipal development have impacted where overland drainage water flows and even how fast it moves across both private and public lands.

Examples of alterations to drainage patterns include:

1. Additional farmland drainage work which have altered the timing and volume of water flow following high rainfall or melting events,
2. Installation by private parties of unapproved approach culverts that have insufficiently sized or no culvert installed,
3. The effect that issues such as soil drifting and the cultivation of road allowance back slopes are having with respect to their impact on the rate, timing and volume of drainage flow of drainage water,
4. Closure of irrigation ditches that were previously used for both water delivery and drainage,
5. Construction of public and private structures which have altered drainage patterns including roads, road approaches, dwellings etc.

Farmland Drainage

Alteration of farmland drainage that results in additional water flowing into the municipal borrow pits will not be permitted without consultation with the Municipal District of Taber and will be permitted only after consultation with Alberta Environment, the affected Irrigation District and all landowners who may be adversely affected by the drainage work.

The M.D. of Taber has established a process by which landowners can undertake drainage modifications to their property. In cases where the municipal borrow pits will be utilized to carry water from the farmland the landowner will be responsible for contacting the appropriate Irrigation District and affected landowners and will be responsible for all costs associated with grading the borrow pit, for installing as necessary correctly sized drainage culverts and if necessary to construct works that will regulate the flow of water off of the land to ensure that the drainage system is not overwhelmed and landowners flooded out as a result.

Council has determined that facilitating the drainage of private land is not a public responsibility and as such any necessary modifications to the public road allowance will be at the landowner's sole expense.

Private Field Approaches

Unauthorized field approaches located in the wrong location and with no or improperly sized culverts exacerbate overland flooding. The municipality will review culvert sizes and condition as well as the location of both approved and unapproved private field approaches beginning in areas that exhibited overland flooding.

Should the municipality identify private approaches that have not been approved by the municipality one of the following will occur:

1. If the privately installed field approach is located in a practical location with a suitable culvert size and with acceptable invert elevations the previously unapproved approach will be accepted by the municipality.
2. As the municipality typically approves only 1 field approach to be constructed off of a municipal road for any parcel the municipality will critically evaluate the necessity of all second and subsequent approaches and may, following notice and consultation with the landowner, remove them.
3. If a privately installed field approach is located within a practical location but does not contain either a culvert or a suitably sized culvert the landowner will be required to have a suitably sized culvert installed.

The M.D. of Taber requests that all landowners who require a field approach to contact the MD of Taber at 403-223-3541 and make application to do so prior to any construction being performed. Information will be provided on approach location, culvert size and construction standards.

Right of Way Encroachment

Council has established an Unauthorized Use of Municipal Land Bylaw to enforce the rights of the municipality upon land under its control and management. Enactment of provisions of the Bylaw are in accordance with the Unauthorized Use of Municipal Land Bylaw Policy.

Procedure for Drainage Work Approval

1. The Landowner contacts the M.D. of Taber with respect to drainage improvement plans that involve the movement of water onto, through or along a municipal right of way.
2. The municipality will review the potential impact of the proposed drainage improvements and determine the extent of consultations and approvals that will be necessary as well as the stakeholders that will be impacted. The landowner is responsible for contacting the affected parties and obtaining all consents and approvals from Alberta Environment and the M.D. of Taber and to provide notification to adjacent landowners as necessary before any construction begins.
3. The landowner will develop the detailed plan outlining where all works will be constructed and the extent of the works including any estimates for construction and surveying that may be required. The detailed plan will be provided to the M.D. of Taber. This plan will be attached to all permits issued.
4. The landowner must undertake the following actions with respect to their drainage proposal:
 - i. Contact adjacent landowners and all other affected parties that will or may be impacted by the drainage project that will increase the rate and volume of water or the timing of the water release. The landowner will be solely responsible for notifying all affected parties. No project will be approved without written notification of the adjacent affected landowners being provided.
 - ii. The M.D. of Taber may require the landowner to contact Alberta Environment who will evaluate the proposal and determine whether a water act approval would be required. No work may begin on any drainage work until required Alberta Environment approvals have been granted and the applicable correspondence provided to the M.D. of Taber.
 - iii. The affected party who will be accepting the drainage water (irrigation district, private landowner, the municipality) must grant their permission in writing. Obtaining their permission and following their requirements is mandatory. No project will be approved without the written consent of the party accepting the water.
5. The landowner will be responsible for all costs related to drainage improvements within the municipal right of way. Only recognized contractors, approved by the Municipal District of Taber will be permitted to work within the municipal right of way. These contractor must meet the following minimum requirements:
 - i. Possess at least 2 million dollars in liability insurance.
 - ii. Has WCB coverage.
 - iii. Has suitable equipment and suitably experienced employees.
 - iv. Has at least 5 years' experience installing culverts and performing grade work.
 - v. Has a proven track record of professional work.

MD of Taber Approved Contractor List – As of December 1, 2011

George Miller Sand And Gravel	Tim Miller	403-635-0129	
Porter Tanner Associates Incorporated	Logan Porter	403-634-0505	
G.Wiebe Excavating	Gord Wiebe	403-382-7563	
McNiven Excavating Ltd.	Joe McNiven	403-654-7777	
GroundTech Enterprises Inc.	Sam DeVleigar	403-634-3646	
F. Miller Excavating Ltd.	Bob Miller	403-654-2064	403-634-2353
Southern Excavating	Moe Just	403-634-3616	

This list will be amended through the inclusion of additional approved contractors.

6. Following the completion of all consultations and the receipt of all approvals the M.D. of Taber will issue a Municipal Right of Way Construction Permit. Landowners will be required to provide proof of all approvals and consents prior to a permit being issued by the Municipal District of Taber. A copy of all correspondence, approvals and permits will be deposited for permanent retention within Municipal District of Taber land files.

Cost Sharing

The M.D. of Taber may contribute centerline culvert pipe at its cost should it be determined that the drainage project will benefit the M.D. of Taber infrastructure.

Prior Work

Work conducted within the municipal right of way prior to the adoption of this policy is not exempt from this policy.

MUNICIPAL DISTRICT OF TABER

LANDOWNER REQUEST TO IMPROVE MUNICIPAL RIGHT OF WAY FOR DRAINAGE PURPOSES

I, _____ hereby make request to
conduct works within the municipal right of way for drainage purposes.

The drainage water is proposed to enter the municipal right of way at this location:

(Legal Description)

It is proposed that the drainage water will run adjacent to these lands on its course to an outlet:

(Legal Description)

(Legal Description)

(Legal Description)

(Legal Description)

(Legal Description)

The drainage waters will enter a (channel) (ditch) (canal) (water body) at this location:

_____ which is controlled and managed by:
(Legal Description)

(Name of Organization)

Attached to this application is:

1. A written plan, including drawings outlining the scope of work proposed for the drainage improvement by the applicant.

MAILING ADDRESS:

SIGNATURE

DATE

PHONE NO: _____

NOTE:

This application DOES NOT constitute a Permit or Approval from the Municipal District of Taber to construct drainage improvements within the Municipal Right of Way.

All Permit Approvals shall be in accordance with the Drainage Cost Sharing and Approval Policy.

PERMIT TO IMPROVE THE MUNICIPAL RIGHT OF WAY FOR DRAINAGE PURPOSES

PERMIT No. XXXXXXX

THE APPLICATION BY NAME OF APPLICANT FOR AN APPROVAL TO IMPROVE THE MUNICIPAL RIGHT OF WAY FOR DRAINAGE PURPOSES WITHIN MUNICIPAL RIGHT OF WAY LOCATED AT LAND LOCATION IS HEREBY APPROVED.

Therefore, permission is hereby granted to NAME OF APPLICANT to carry out construction drainage works in accordance with the plan and specifications and any amendments noted thereto and subject to the terms and conditions determined by the Municipal District of Taber.

The Municipal District of Taber requires as conditions of this permit the following:

1. Copies of all consents and approvals provided by adjacent landowners that may be affected by the drainage work undertaken through this Permit including the written approval of the NAME OF PARTY ACCEPTING THE DRAINAGE WATER who will be the recipient of the drainage water prior to any work being undertaken.
2. All work undertaken to re-open the borrow pit is to be paid by NAME OF APPLICANT.
3. All work is to be conducted by an MD of Taber approved contractor under MD of Taber supervision. The Contractor will prior to beginning any work:
 - a. Undertake all First Calls to locate buried utilities.
 - b. Provide to the M.D. of Taber proof of liability insurance and WCB coverage.
4. All work conducted will be in accordance with the attached Municipal District of Taber Road Approach Construction Standards document which is attached and forms a part of this Permit including specifications pertaining to: location and dimension of road approaches, sight distances, cross grade and approach culverts, seeding and reclamation of disturbances.
5. The MD of Taber has appointed Mr. Jack Dunsmore, Director of Planning and Infrastructure (634-7198) and Mr. Virgil Olson, Operations Assistant (634-2722) as MD of Taber supervisors of this project. The project supervisors are empowered to immediately cancel this permit and order cessation of any and all activities related to this permit that are deemed to be unsafe, outside the scope of work permitted by this permit or not in accordance with M.D. of Taber policy.

The Municipal District of Taber **must** be notified as to when construction will take place for inspection purposes.

The Applicant shall indemnify and hold harmless the Municipal District of Taber, its employees and agents from any and all claims, demands, actions and costs whatsoever that may arise, directly or indirectly from the operation.

If the construction intended under this permit has not been carried out within one year of the date of issuance, this permit lapses and the applicant must reapply for a new permit if they wish to proceed.

It is the responsibility of NAME OF APPLICANT to contact Alberta first call and check for the presence of any underground facilities running within the road allowance.

Issuance of this permit does not excuse violation of regulation, bylaw or act which may affect the proposed project.

SPECIAL CONDITIONS:

DATE _____

Municipal District of Taber

MUNICIPAL DISTRICT OF TABER ROAD APPROACH CONSTRUCTION STANDARDS

1.0 Road Approaches

1.1 Locations and Dimensions

The final location and construction of all approaches, whether as a condition of subdivision or not, must be approved by the Municipality. Road approaches shall be located and constructed to access the parcels' most desirable building location. All necessary approach details are shown in Figure 1 – Typical Road Approach as attached to this agreement.

Road approach restrictions may be seen in Figure 2 – Road Approach Locations.

An access to one lot shall have a finished traveling surface of 6.0 m, while approached accessing more than one lot require a finished traveling surface of 7.0m. Due to servicing constraints, the maximum culvert length is 20m. The maximum grade of an approach within the road right of way is 4%.

Where a mutual approach is required, an easement document must be placed on the titles defining the easement area(s), benefited and burdened parcels and the rights and responsibilities of the landowners.

1.2 Sight Distances

For design, or construction of new road approaches and intersections, the Developer in consultation with the Development Officer shall evaluate sight distances in accordance with Figure 2.

Minimum sight distances can be found in the following table:

Posted Speed on Main Road (km/h)	Single Unit Trucks / Buses
	40
50	
60	
70	
80	
90	
100	

For passenger cars, an eye height of 1.05m is used, and for single unit trucks/buses, an eye height of 1.80m is used.

2.0 Cross Grade and Approach Culverts

Drainage shall be maintained by using culverts. Approach culverts shall not be less than 450mm in diameter, while cross grade culverts may not be smaller than 600mm in diameter. The maximum culvert length is 20m. Any culvert greater than 1.5m in diameter will require approvals from the Municipality where required. Culvert material shall be corrugated steel pipe (CSP) and have a minimum wall thickness of 16mm. Culverts, granular base course backfill and riprap shall be supplied and installed by the developer.

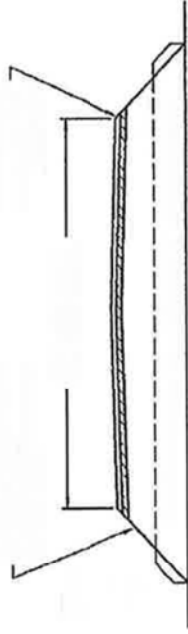
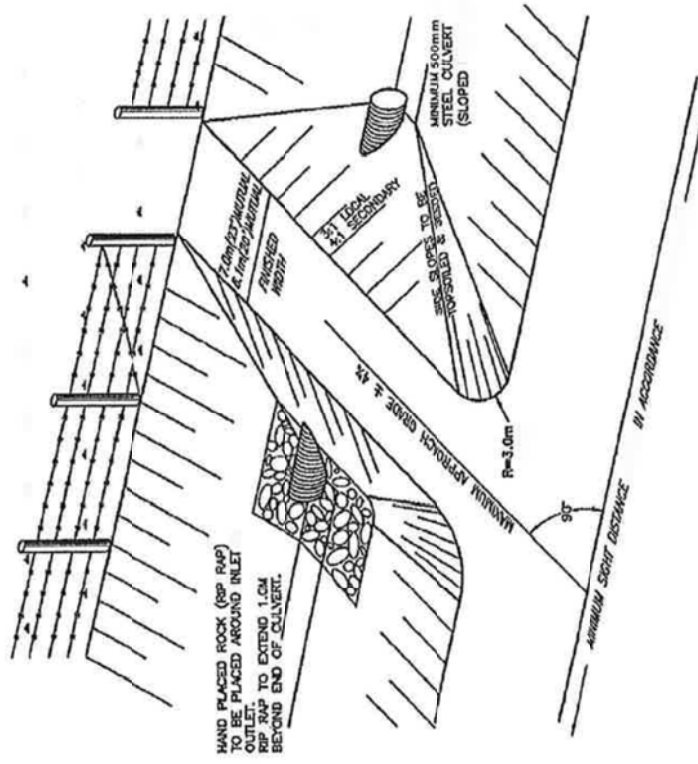
Approach culvert details are shown in Figure 5 – Typical Road Approach, which can be found attached to this document.

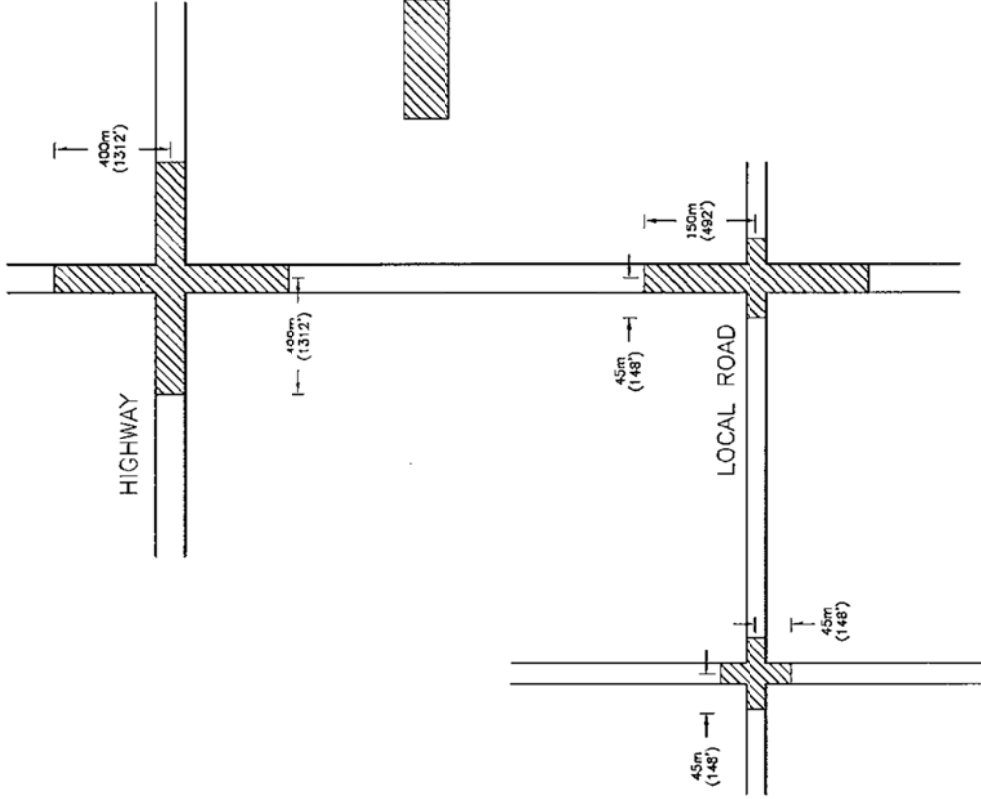
3.0 Seeding

All disturbed areas must be fertilized and seeded with a native seed mix. The following characteristics are necessary for the seed mix:

Seed Mix Zone	Native Seed Mix – Zone 4		Percentage by Dry Weight
	Common Name	Latin Name	
4 Mixedgrass And Dry Mixedgrass	Slender Wheat Grass	<i>Agropyron trachycaulum</i>	30%
	Canada Wildrye	<i>Elymus Canadensis</i>	15%
	Mountain Brome	<i>Bromus carinatus</i>	15%
	Northern Wheat Grass	<i>Agropyron dasystachyum</i>	10%
	Western Wheat Grass	<i>Agropyron smithii</i>	5%
	Indian Rice Grass	<i>Orzyopsis hymenoides</i>	5%
	Alkali Grass	<i>Puccinellia distans</i>	10%
	Needle and Thread Grass	<i>Stipa comata</i>	10%

The seed mixture shall be applied at a rate of 30 kg/ha for broadcast seeding.





INDICATES AREAS WHERE ROAD APPROACHES SHALL NOT BE CONSTRUCTED UNLESS NO REASONABLE ALTERNATIVE EXISTS ACCESS ON TO OR WITHIN 400m OF ALL HIGHWAYS REQUIRE A WAIVER FROM ALBERTA TRANSPORTATION

ROAD APPROACH LOCATIONS

Municipal District of Taber

DATE:	SCALE:	DRAWN BY:	FIGURE:
APRIL 2010	NTS	AMEC	6