

**WEST BEACH DRIVE IMPROVEMENTS  
TOWNSHIP OF IGNACE**

**CONTRACT No. 17-2034**

**ADDENDUM #2  
August 28, 2017**

This addendum shall form part of the Contract Documents. The Addendum issued shall be indicated in FT.05 ADDENDA of the FORM OF TENDER.

**2.01 FROST TAPERS**

The Contractor shall construct frost tapers as per OPSD 803.030M and OPSD 803.031M (attached) for all centreline culvert replacements. Excavation and Granular Bedding shall be included in the unit price bid for the culvert installation. Granular "B" and Granular "A" embedment and backfill within 5:1 tapers shall be paid for under the Granular "B" and Granular "A" items.

**2.02 ROCK BOULDERS**

Rock boulders greater than 1.0 cu.m. encountered within the excavation of ditching shall be removed and disposed of by the contractor. No extra payment shall be made for the unit price bid for the item Ditch Improvements.

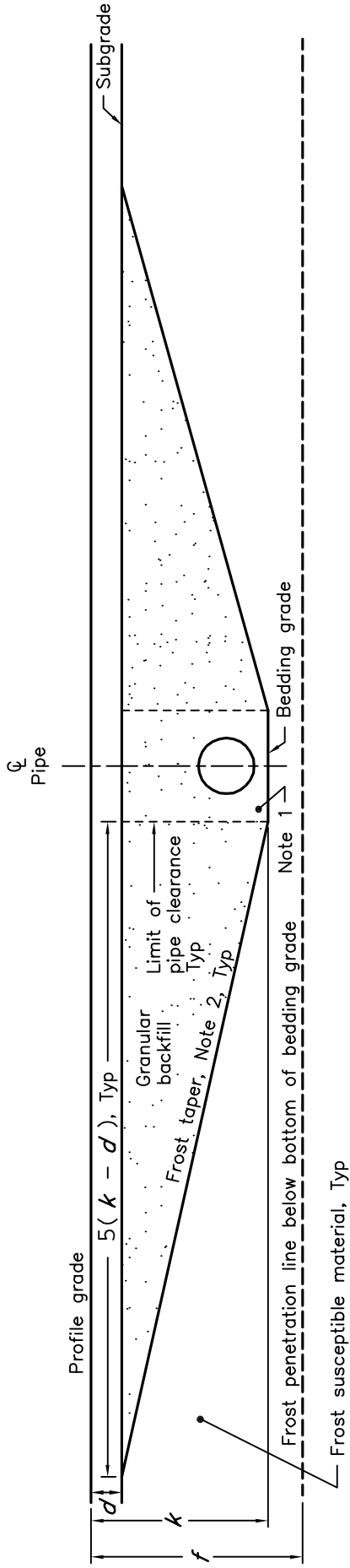
**2.03 GRADING TEMPLATES**

Grading Templates at 10m intervals will be provided to the successful bidder for ditch improvements and Granular "B" and Granular "A".

**2.04 UTILITY CONFLICTS**

The Owner is responsible for the cost of any pole or line relocations. Conflicts with ditching will be field adjusted to avoid excavation adjacent to a pole or anchor.

End of Addendum 2



### FROST TREATMENT RIGID AND FLEXIBLE PIPE

#### NOTES:

- 1 Pipe embedment or bedding, cover, and backfill shall be according to:
  - a) Flexible OPSD 802.010, 802.013, 802.014, 802.020, 802.023, and 802.024.
  - b) Rigid - OPSD 802.030, 802.031, 802.032, 802.033, 802.034, 802.050, 802.051, 802.052, 802.053, and 802.054.
- 2 Frost tapers shall start at bedding grade.

#### LEGEND:

- $d$  -depth of roadbed granular
- $k$  -depth of frost treatment below profile grade
- $f$  -depth of frost penetration below profile grade
- $d$  - 400 mm
- $f$  - 2.4 m

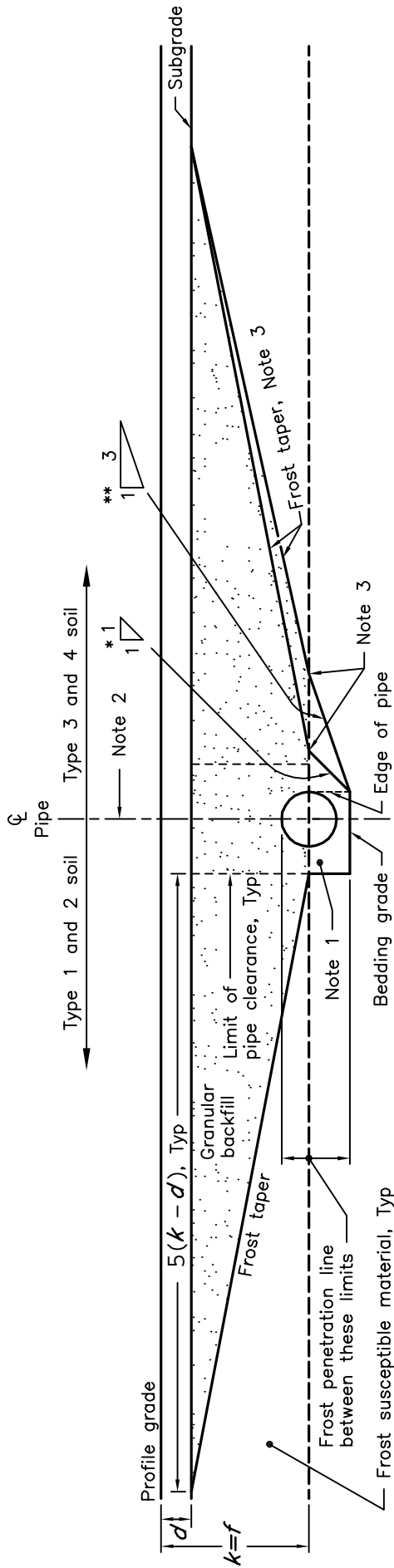
ONTARIO PROVINCIAL STANDARD DRAWING

Nov 2015 Rev 3



FROST TREATMENT - PIPE CULVERTS  
FROST PENETRATION LINE BELOW  
BEDDING GRADE

OPSD 803.030M



### FROST TREATMENT RIGID AND FLEXIBLE PIPE

**NOTES:**

- 1 Pipe embedment or bedding, cover, and backfill shall be according to:
  - a) Flexible OPSD 802.010, 802.013, 802.014, 802.020, 802.023, and 802.024.
  - b) Rigid - OPSD 802.030, 802.031, 802.032, 802.033, 802.034, 802.050, 802.051, 802.052, 802.053, and 802.054.
- 2 Condition of frost treatment symmetrical about centreline of pipe.
- 3 Frost tapers shall start at the intersection of the 1H:1V or 3H:1V slope and the frost penetration line.

A Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.

**LEGEND:**

- $d$  - depth of roadbed granular
- $k$  - depth of frost treatment below profile grade
- $f$  - depth of frost penetration below profile grade
- \* - Type 3 soil
- \*\* - Type 4 soil
- $d$  - 400 mm
- $f$  - 2.4 m

ONTARIO PROVINCIAL STANDARD DRAWING

FROST TREATMENT - PIPE CULVERTS  
FROST PENETRATION LINE BETWEEN  
TOP OF PIPE AND BEDDING GRADE

Nov 2015 Rev 4



OPSD 803.031M