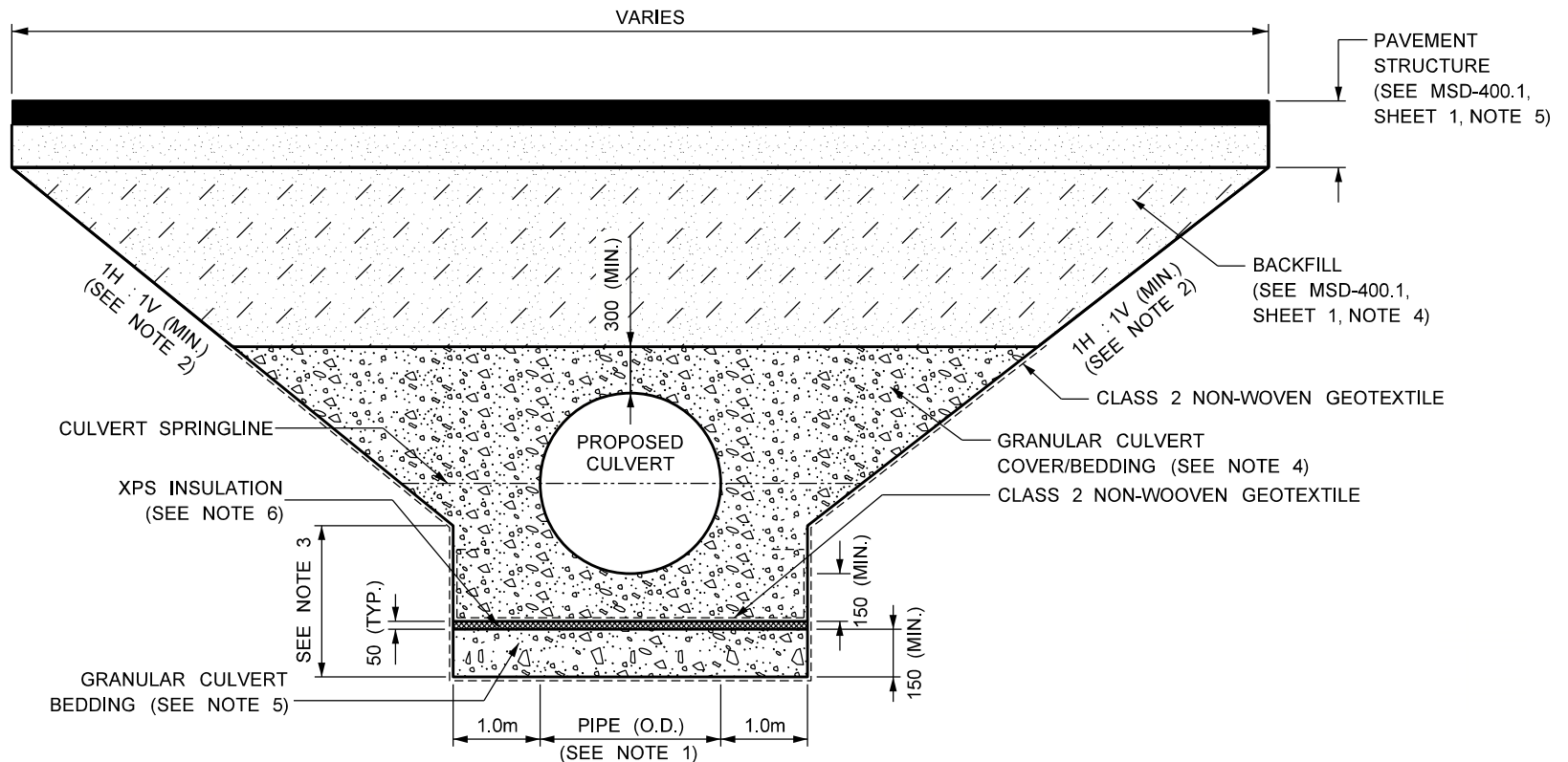




DETAIL OF SINGLE CULVERT INSTALLATION WITH INSULATION

(SEE NOTES 7 AND 8)

NOTES:

GENERAL: ALL TRENCHING AND EXCAVATION SHALL COMPLY WITH MANITOBA'S WORKPLACE HEALTH AND SAFETY REGULATIONS

1. CULVERT DIAMETER AND TYPE AS SPECIFIED IN CONTRACT
2. FOR FROST SUSCEPTIBLE SOILS, REFER TO MSD-400.5
3. DEPTH OF VERTICAL CUT SHALL NOT EXCEED 1.0m
4. GBC-I, GBC-II, GBC-M OR CULVERT GRAVEL
5. GBC-I, GBC-II, GBC-M OR CULVERT GRAVEL WITH 100% PASSING 19mm SIEVE
6. EXTRUDED POLYSTYRENE (XPS) INSULATION - ASTM C578, TYPE IV, UNLESS SPECIFIED OTHERWISE IN THE CONTRACT
7. REFER TO MSD-400.1 FOR OTHER DETAILS NOTING THAT CULVERT FOUNDATION SHALL MEET THE REQUIREMENTS OF THIS STANDARD
8. SIMILAR DETAILS APPLY TO MULTIPLE CULVERTS INSTALLATION. REFER TO MSD-400.2 FOR OTHER DETAILS.
9. DRAWINGS ARE FOR USE ON MTI'S PROJECTS ONLY, AS NOTED ON MANITOBA'S WEBSITE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE

SEAL

COPY
ORIGINAL SEALED BY:

BRENT P.D. SELLERS, P.Eng.

MAY 19, 2026

APPROVALS

ORIGINAL SIGNED BY:

DUSTIN BOOY

EXECUTIVE DIRECTOR OF
HIGHWAY ENGINEERING SERVICES

ORIGINAL SIGNED BY:

TARA LISKE

EXECUTIVE DIRECTOR OF
REGIONAL OPERATIONS

REVISIONS

No.	DESCRIPTION	BY	DATE
1			
2			
3			

MANITOBA STANDARD DRAWING

DATE	
MAY 2026	
SCALE	SHEET
N.T.S.	1 OF 1
MSD - 400.7	

INSTALLATION DETAILS
WITH INSULATION
FOR SINGLE CSC, PCC, AND HDPE
CULVERTS, ≤1800 DIA.

Manitoba 
Transportation and Infrastructure