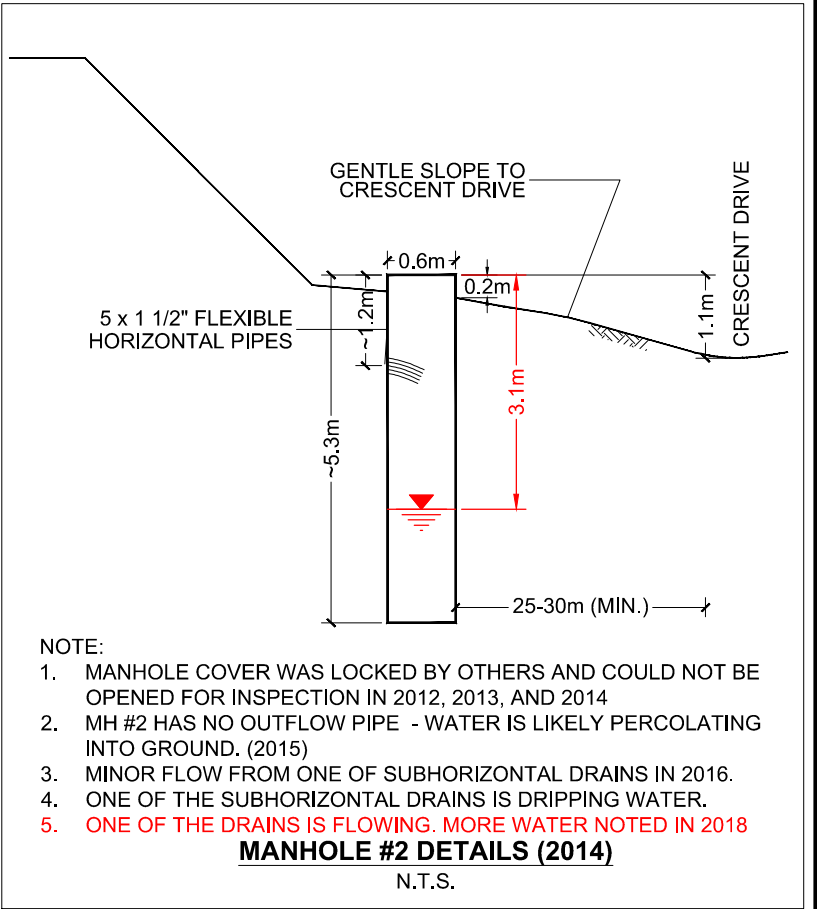


- NOTES :**
1. FEATURE LOCATIONS ARE APPROXIMATE.
 2. PREVIOUS OBSERVATIONS SHOWN IN BLACK
 3. PREVIOUS CRACK PATTERN WAS COVERED BY NEW (2004) ASPHALT PATCH
 4. **MAY 7, 2018 OBSERVATIONS ARE SHOWN IN RED**
 5. PHOTOGRAPH NUMBER, AND APPROXIMATE DIRECTION AND LOCATION



- NOTE:**
1. MANHOLE COVER WAS LOCKED BY OTHERS AND COULD NOT BE OPENED FOR INSPECTION IN 2012, 2013, AND 2014
 2. MH #2 HAS NO OUTFLOW PIPE - WATER IS LIKELY PERCOLATING INTO GROUND. (2015)
 3. MINOR FLOW FROM ONE OF SUBHORIZONTAL DRAINS IN 2016.
 4. ONE OF THE SUBHORIZONTAL DRAINS IS DRIPPING WATER.
 5. **ONE OF THE DRAINS IS FLOWING. MORE WATER NOTED IN 2018**

DIFFERENTIAL HEIGHT ACROSS CRACK: 3-5mm IN 2000
3-8mm IN 2003
JUST A FAINT CRACK RE-APPEARING ON THE NEW PATCH (2004)
CRACK IS 10mm OPEN (2005)
CRACK IS 25mm OPEN (2009)
(SAME IN 2010, 2011)
25mm WIDE - 10mm DIFF. (2012)
25mm WIDE - 15mm DIFF. (2013)
SAME IN 2014
SAME IN 2015

EXISTING COLLECTION WELL (CSP) #2
LESS WATER DRIPPING THAN IN 2002
4m DEEP 2m OF WATER WATER DRIPPING (2004)
FIVE 38mm Ø PLASTIC DRAINS WERE OBSERVED PROTRUDING FROM THE MANHOLE WALL MANHOLE Ø = 600mm AND 5m DEEP WATER WAS AT 2.35m FROM THE BOTTOM WATER DRIPPING (2006)
WATER AT BOTTOM OF WELL (2008)
WATER AT BOTTOM OF WELL (2009)
DRY (2010, 2011)

LEGEND
SI - SLOPE INCLINOMETER
SP - STANDPIPE PIEZOMETER

MANHOLE NUMBER	GPS COORDINATES (UTM-NAD83)	
	NORTHING	EASTING
MH #1	6023351	644914
MH #2	6023367	644730
METAL COVER	6023374	644771

Alberta

**NORTH CENTRAL REGION (ATHABASCA AREA)
- 2018 GEOHAZARD ASSESSMENT**

**NC014-1: HWY 661: 02 FORT ASSINIBOINE (km 1.8)
SITE PLAN SHOWING MID-HILL SLIDE AREA**

DWG NO. NC014-1-2

DRAWN BY	ML
DESIGNED BY	JGP
APPROVED BY	TSA
SCALE	N. T. S.
DATE	JUNE 2018
FILE No.	13357

THURBER ENGINEERING LTD.