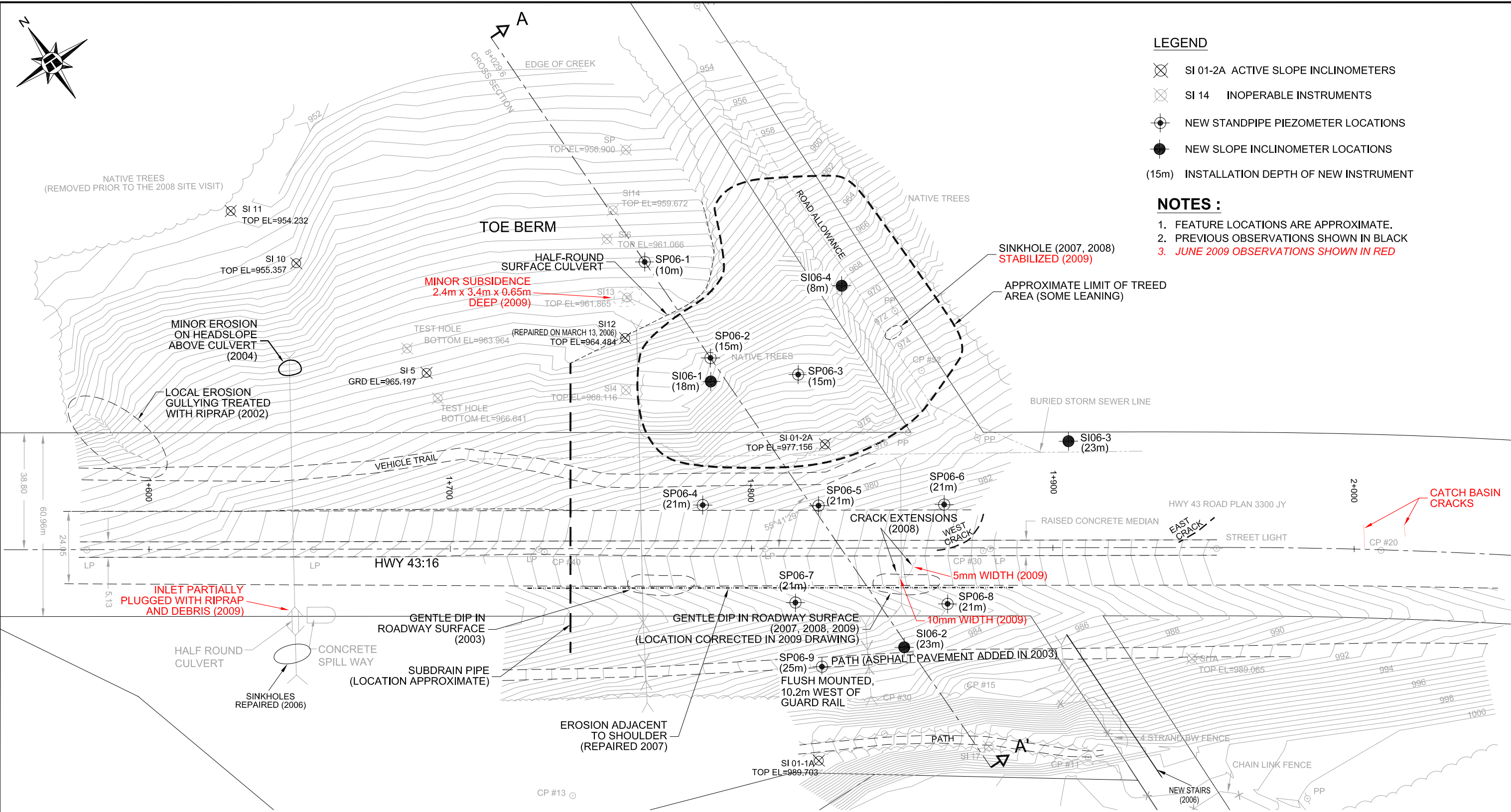
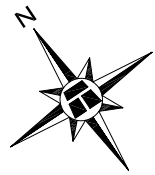


Z:\15115-16-226\15-16-226 FIGURE NC1-1A.dwg - NC1-1 - Aug. 28, 2009

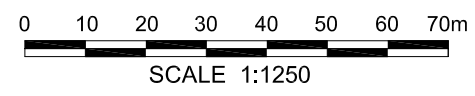


LEGEND

- ⊗ SI 01-2A ACTIVE SLOPE INCLINOMETERS
- ⊗ SI 14 INOPERABLE INSTRUMENTS
- ⊕ NEW STANDPIPE PIEZOMETER LOCATIONS
- NEW SLOPE INCLINOMETER LOCATIONS
- (15m) INSTALLATION DEPTH OF NEW INSTRUMENT

NOTES :

1. FEATURE LOCATIONS ARE APPROXIMATE.
2. PREVIOUS OBSERVATIONS SHOWN IN BLACK
3. JUNE 2009 OBSERVATIONS SHOWN IN RED



BASE PLAN PROVIDED BY EXH ENGINEERING SERVICES LTD.

THURBER PROJECT #15-16-226

ENGINEER	KEF
DRAWN	HH
DATE	AUGUST, 2009
APPROVED	DJL
SCALE	1:1250

ALBERTA TRANSPORTATION

**NC1 WHITECOURT
SITE PLAN**

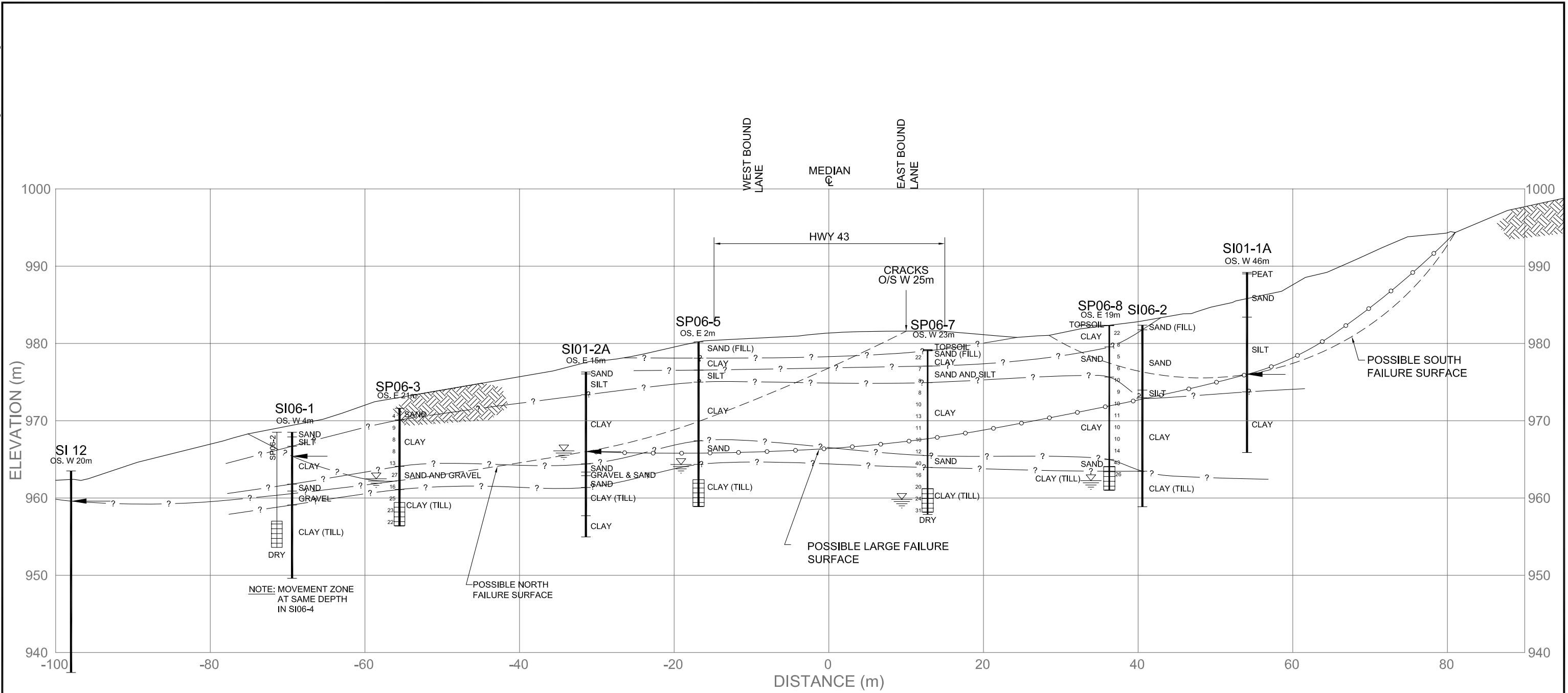
NORTH CENTRAL 2009
GEOHAZARDS ASSESSMENT

NW 26-59-12-W5M
HWY 43:16 km 1.9 (NC1)
WHITECOURT EAST HILL, AB



THURBER

DRAWING No.
FIGURE NC1-1A







NOTE: MOVEMENT ZONE AT SAME DEPTH IN SI06-4

POSSIBLE NORTH FAILURE SURFACE

POSSIBLE LARGE FAILURE SURFACE

POSSIBLE SOUTH FAILURE SURFACE

LEGEND

-  PIEZOMETRIC LEVEL JUNE 4, 2009
-  SI RECORDED DEPTH OF MOVEMENT
-  STANDPIPE PIEZOMETER SLOTTED SECTION
-  SPT N VALUE


NOTE

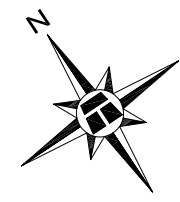
DATA CONCERNING THE VARIOUS STRATA HAVE BEEN OBTAINED AT THE TEST HOLE LOCATIONS ONLY. THE SOIL STRATIGRAPHY BETWEEN TEST HOLES HAS BEEN INFERRED FROM GEOLOGICAL EVIDENCE AND SO MAY VARY FROM THAT SHOWN.

GROUND SURFACE PROFILE PREPARED BY EXH ENGINEERING SERVICES LTD.

THURBER PROJECT #15-16-226

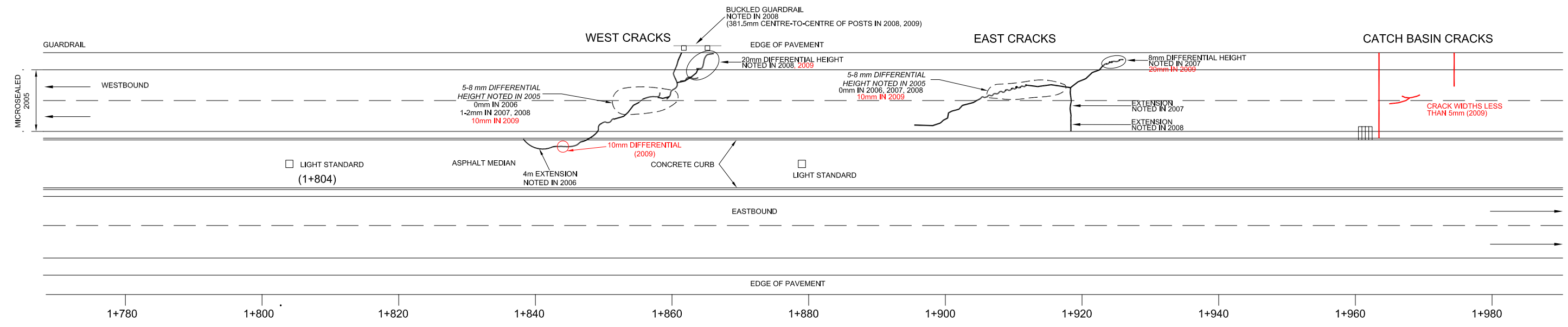
ALBERTA TRANSPORTATION	
STRATIGRAPHIC CROSS SECTION A-A'	
STATION 1+829.6	
NORTH CENTRAL 2009 GEOHAZARDS ASSESSMENT	
NW 26-59-12-W5M HWY 43:16 km 1.9 (NC1) WHITECOURT EAST HILL, AB	

		THURBER ENGINEERING LTD.	
GEO TECHNICAL ■ ENVIRONMENTAL ■ MATERIALS			
ENGINEER:	DRAWN:	APPROVED:	
KEF	HH	DJL	
DATE:	SCALE:	DRAWING No.	
AUGUST 2009	1:500	FIGURE NC1-1B	

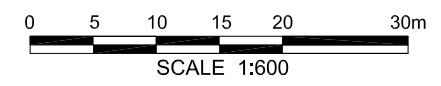


SI01-2A (LOCATION APPROX.)



GRAVEL ACCESS ROAD



- NOTES :**
1. FEATURE LOCATIONS ARE APPROXIMATE.
 2. PREVIOUS OBSERVATIONS SHOWN IN BLACK
 3. *JUNE 2009 OBSERVATIONS SHOWN IN RED*



LEGEND

 SLOPE INCLINOMETER

LOCATIONS OF FEATURES ARE APPROXIMATE
 WIDTH OF ROADWAY EXAGGERATED
 SCALE 1:600 ALONG ROADWAY ALIGNMENT

THIS DRAWING WAS TAKEN FROM THURBER PROJECT #15-16-192

THURBER PROJECT #15-16-226

ALBERTA TRANSPORTATION

**CRACK PATTERN IN PAVEMENT
 STATIONS 1+800 TO 1+980**

NORTH CENTRAL 2009
 GEOHAZARDS ASSESSMENT

NW 26-59-12-W5M
 HWY 43:16 (NC1)
 WHITECOURT EAST HILL, AB



THURBER ENGINEERING LTD.
 GEOTECHNICAL • ENVIRONMENTAL • MATERIALS

ENGINEER: KEF	DRAWN: KLW	APPROVED: DJL
DATE: AUGUST 2009	SCALE: 1:600	DRAWING No. FIGURE NC1-2

Z:\15-16-226\15-16-226 FIGURE NC1-2.dwg - NC1-2 - Aug. 28, 2009 11:41am