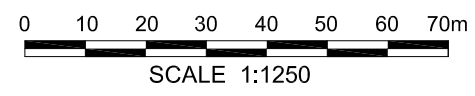
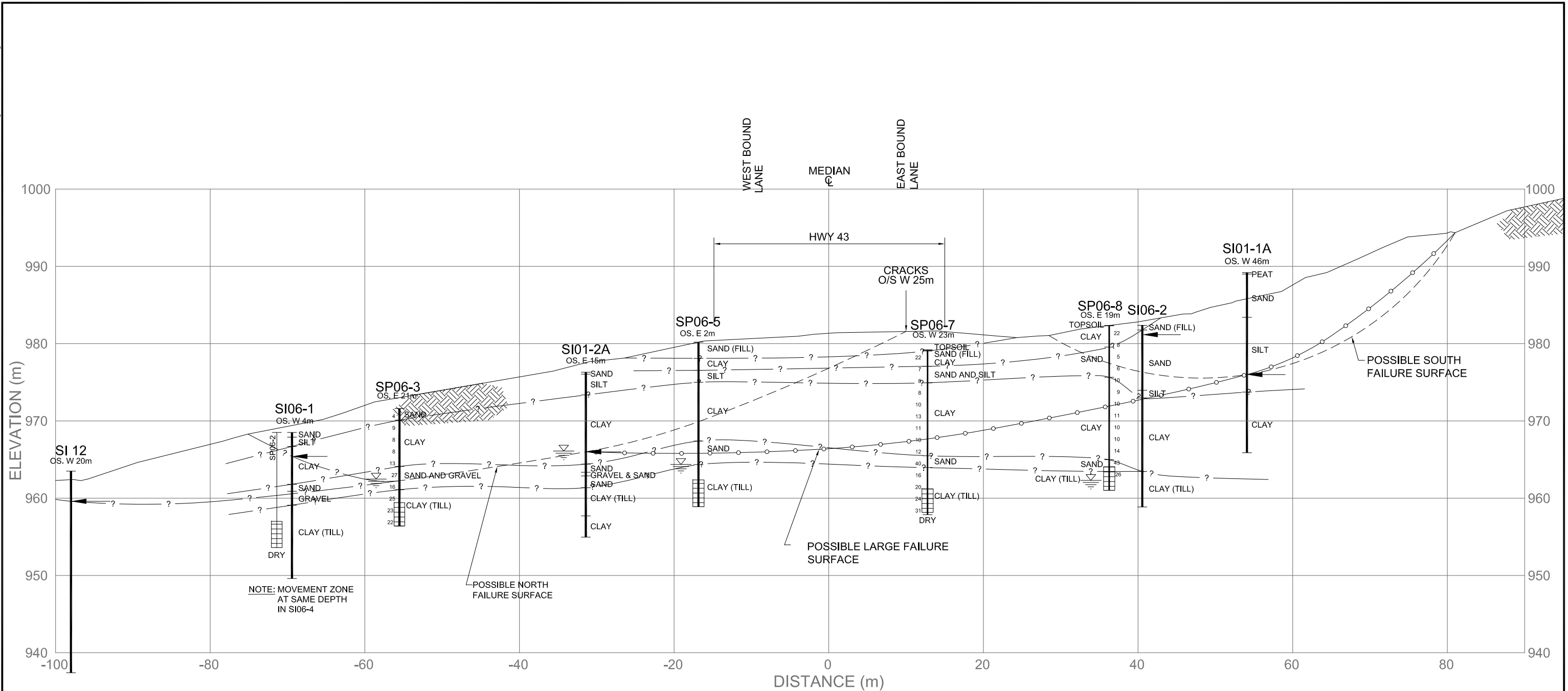


- LEGEND**
- ⊗ SI 01-2A ACTIVE SLOPE INCLINOMETERS
 - ⊗ SI 14 INOPERABLE INSTRUMENTS
 - ⊙ NEW STANDPIPE PIEZOMETER LOCATIONS
 - NEW SLOPE INCLINOMETER LOCATIONS
 - (15m) INSTALLATION DEPTH OF NEW INSTRUMENT

- NOTES:**
1. FEATURE LOCATIONS ARE APPROXIMATE.
 2. PREVIOUS OBSERVATIONS SHOWN IN BLACK
 3. 2011 OBSERVATIONS SHOWN IN RED



ALBERTA TRANSPORTATION		
NC1 WHITECOURT SITE PLAN		
NW 26-59-12-W5M HWY 43:16 km 1.9 (NC1) WHITECOURT EAST HILL, AB	THURBER ENGINEERING LTD. GEOTECHNICAL • ENVIRONMENTAL • MATERIALS	THURBER PROJECT #15-16-258
ENGINEER: KEF	DRAWN: KLW	APPROVED: DJL
DATE: AUGUST 2011	SCALE: 1:1250	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 MAY 25, 2011
-  SI RECORDED DEPTH OF MOVEMENT
-  STANDPIPE PIEZOMETER SLOTTED SECTION
-  SPT N VALUE

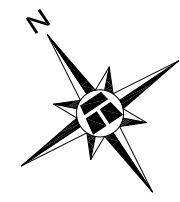
NOTE

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.

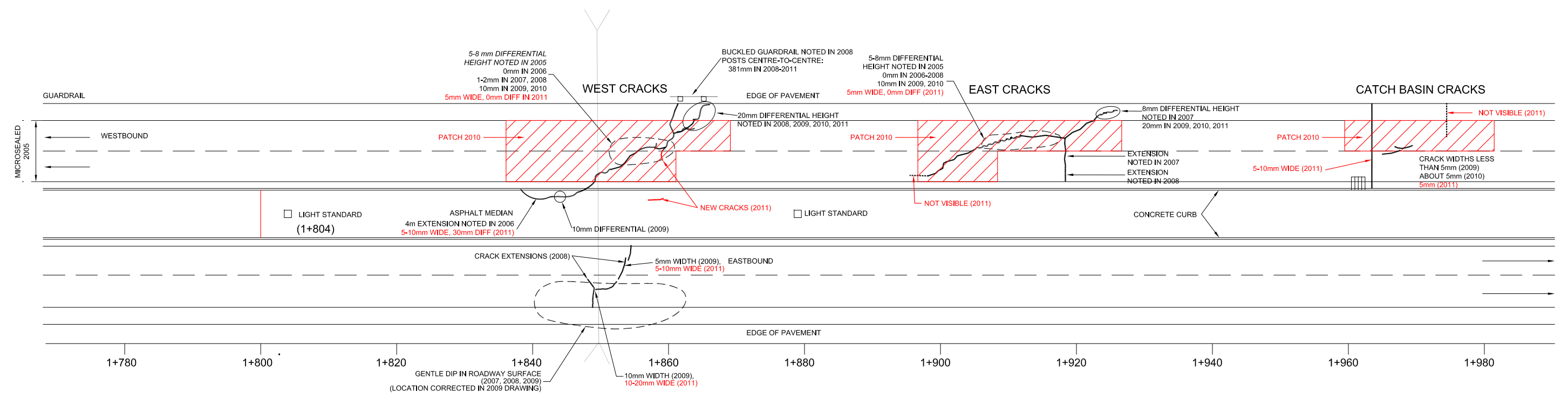
THURBER PROJECT #15-16-258

ALBERTA TRANSPORTATION		 THURBER ENGINEERING LTD. GEO TECHNICAL • ENVIRONMENTAL • MATERIALS	
STRATIGRAPHIC CROSS SECTION A-A' STATION 1+829.6			
NORTH CENTRAL 2011 GEOHAZARDS ASSESSMENT		NW 26-59-12-W5M HWY 43:16 km 1.9 (NC1) WHITECOURT EAST HILL, AB	
ENGINEER:	KEF	DRAWN:	KLW
DATE:	AUGUST 2011	APPROVED:	DJL
SCALE:	1:500	DRAWING No.:	FIGURE NC1-1B

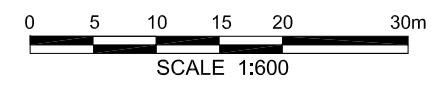


SI01-2A (LOCATION APPROX.)

GRAVEL ACCESS ROAD



- NOTES :**
1. FEATURE LOCATIONS ARE APPROXIMATE.
 2. PREVIOUS OBSERVATIONS SHOWN IN BLACK
 3. 2011 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 #15-16-258

ALBERTA TRANSPORTATION

DETAIL PLAN
 STATIONS 1+800 TO 1+980

NORTH CENTRAL 2010
 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 2011	SCALE: 1:600	DRAWING No. FIGURE NC1-2

Z:\15-16-258\15-16-258-FIGURE NC1-2.dwg - NC1-2 - Aug. 26, 2011 1:39pm