

GEOCRES No. \_\_\_\_\_

DIST. 31 REGION \_\_\_\_\_

W.P. No. \_\_\_\_\_

CONT. No. \_\_\_\_\_

W. O. No. 97-11005

STR. SITE No. \_\_\_\_\_

HWY. No. 4LOCATION Crack / Slope Slippage  
on Hwy 4, St. ThomasNo of PAGES -       

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OVERSIZE DRAWINGS TO BE INCLUDED WITH THIS REPORT. \_\_\_\_\_REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# CITY OF ST THOMAS

METRIC

DIMENSIONS ARE IN METRES  
AND/OR MILLIMETRES  
UNLESS OTHERWISE SHOWN

PLATE No 120-4/38-0

CONT No  
WP No

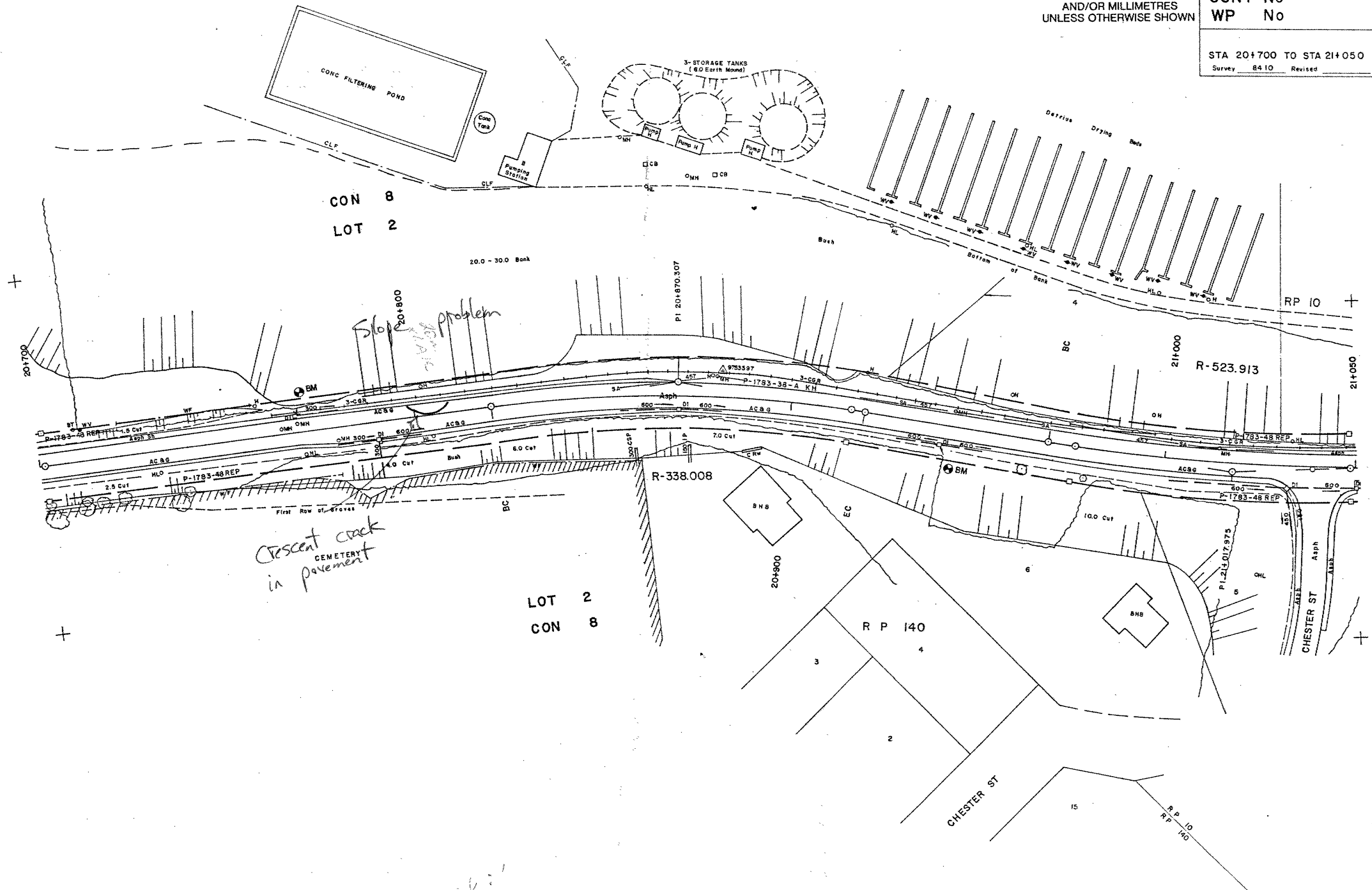
STA 20+700 TO STA 21+050

Survey 84 10 Revised



SHEET

SURVEY UPDATE  
93 07

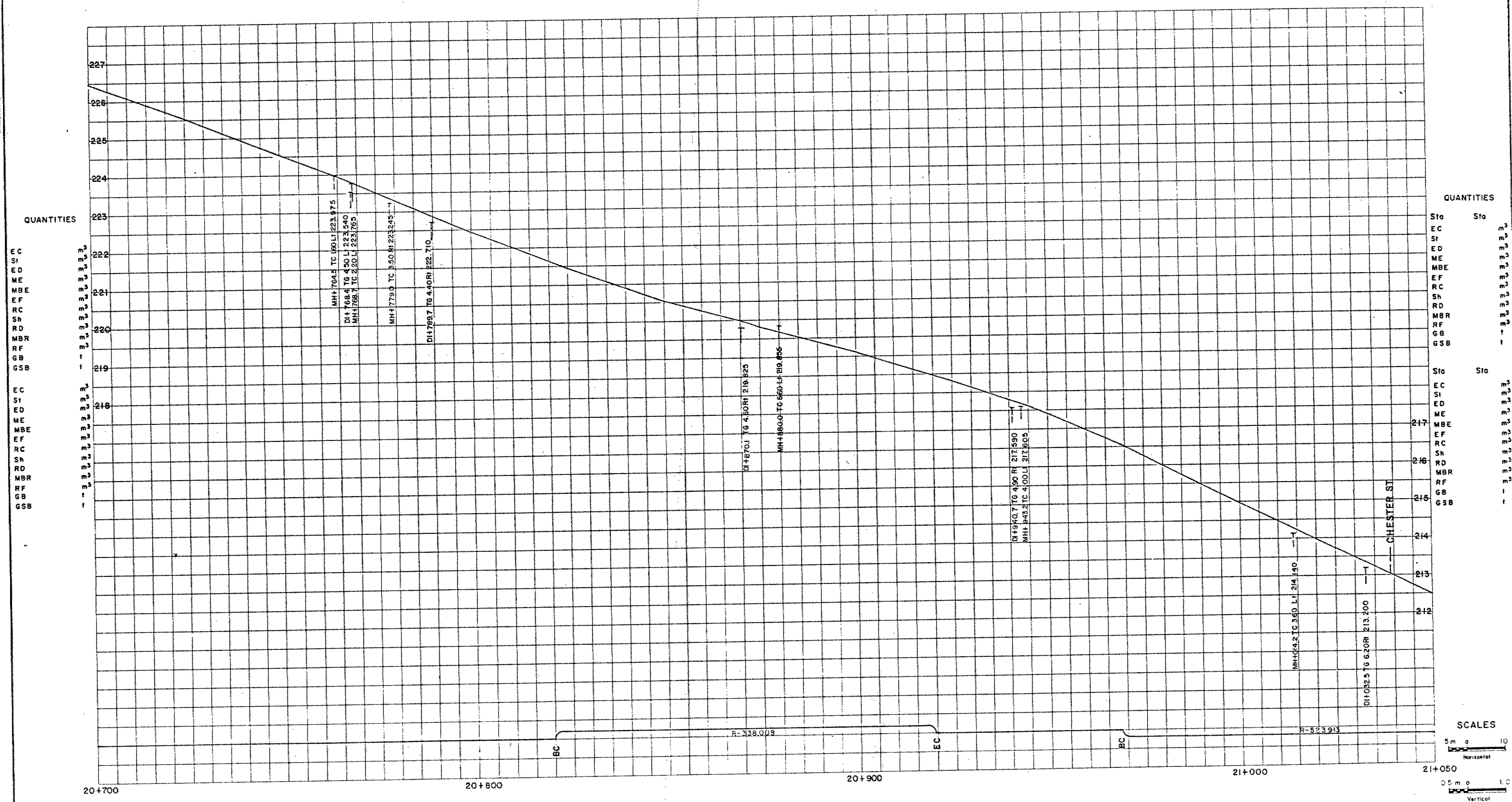


SCALE

5 m 0 10 m

CONT	No
WP	No

SHEET





# MEMORANDUM

## Engineering Materials Office

Room 233, Central Building, Downsview

Tel. (416) 235-3732 Fax. (416) 235-5240

To: Eric Magni, P. Eng.  
Head, Geotechnical Section  
Southwestern Region, London

Date: May 4, 1998

From: Pavements and Foundations Section  
Room 223, Central Building

Re: Embankment Instability Around Sta. 20 + 800, St. Thomas  
W. O - 97 - 11005, Highway 4, District 31, London

The above site was inspected on April 30, 1998 with Mr. Nick Gilbert of Geotechnical Section, Southwestern Region. The concerns at the site are crack on the road and associated stability of the slope.

The information provided to us reveals that the crack was repaired in early 1990's and has since reappeared. At the time of repair, an asphalt curb and gutter were placed to direct the water to the catch-basin.

It appears that the existing road was constructed by a combination of cutting and filling through the slope area. This created a fill slope on the west side and a cut slope on the east side. The height of the fill at this location appears to be about 2.4 to 3.0 metres. In addition, there is evidence of water from the runoff infiltrating into the fill and seeping out of the slope. This may lead to loss of fines from the fill and cause temporary slippage or instability problems.

The slippage or instability at this location is relatively shallow in nature and confined to the fill only. This problem may have been caused by the seepage of water through the fill. In order to prevent repeated occurrence of the slippage, the runoff should be redirected away from this location by providing an asphalt curb and gutter.

cc.: N. Gilbert

*M. Vasavithasan*

M. Vasavithasan, P. Eng.  
Foundation Engineer

For

Tae C. Kim, P.Eng.  
Sr. Foundation Engineer