

December 19, 2012

City of Los Angeles  
Bureau of Engineering  
1149 South Broadway Street, Suite 120  
Los Angeles, California 90015

Attn: Mr. Mark Osborne

**RE: CONSTRUCTION AS-BUILT REPORT FOR 11/1/12 THROUGH 12/18/12  
WHITE POINT LANDSLIDE – INTERIM GRADING  
CITY OF LOS ANGELES W.O. E1907483, TOS 11-087  
SHANNON & WILSON PROJECT NO. 51-1-10052-042**

This letter provides an As-Built summary report of the Interim Grading work completed at the White Point Landslide for the period between November 1, 2012 and December 18, 2012. Additional work will need to be completed at the site to finish the work in accordance with the approved grading plans issued by Wagner Engineering (Wagner) dated October 10, 2012. Wagner will complete the As-Built Plans upon contractor completion of the work.

J.S. Meek Construction and their subcontractor J.V. Land Clearing mobilized to the site on November 1, 2012 and began the site interim grading work. The contractor temporarily halted the site work due to rains and anticipated weather conditions from November 29, 2012 to December 3, 2012, December 13 to 14, 2012, and on December 18, 2012. Representatives with both the City of Los Angeles and Shannon & Wilson (S&W) were on-site during grading and construction to observe the site activities.

#### **CONSTRUCTION EQUIPMENT ON-SITE**

The following equipment was used at the site to perform the grading work:

- CAT 430E Backhoe
- CAT 259B Skid-steer Loader
- CAT 973 Front Loader
- GMK 5420 Crane
- Kobelco 290 Track Excavator

- CAT 321D Track Excavator
- CAT 330C Long-reach Track Excavator
- CAT D8T Dozer
- John Deere 240 Skid-steer Loader
- CAT 220 Skid-steer Loader

### **CONSTRUCTION WORK COMPLETED FOR THIS PERIOD**

Grading and construction for the project consisted of primarily removing debris from the landslide graben and areas along the beach related to previously installed utilities. Minor grading or shaping of the landslide graben and scarp areas were completed to provide safer surface conditions, improve local slope stability, and improve surface water flow within the landslide graben. In addition, a drainage pipe was installed along the western boundary of the lower portion of the landslide to convey surface water from the graben down to the ocean. For the above referenced work period, the contractor completed the following work elements:

- Constructed a temporary access path into graben.
- Cleared and established an access path around the top of the headscarp.
- Removed asphalt paving from the existing Paseo Del Mar roadway above the headscarp.
- Regraded crest area of headscarp.
- Removed asphalt paving, metal, concrete pipe sections and concrete debris from the site.
- Performed site grading and shaping in the graben area.
- Installed a stormwater inlet structure, piping and energy dissipator.
- Plugged ends of existing concrete stormdrain piping exposed in the headscarp.

Field activities were observed by Shannon & Wilson field representatives were documented in our daily Field Activity Reports, copies of which are included in Appendix A, and summarized in Table 1.

### **GEOLOGICAL SITE RECONNAISSANCE**

Shannon & Wilson (S&W) performed a reconnaissance of geologic units exposed in the landslide headscarp area and along the beach below the landslide during construction, and our observations are presented on the attached As-Built Geotechnical Map. The topographic data of the map is based on a site survey completed on November 26, 2012 and supplied by J.S. Meek

Construction. The topographic base is incomplete and we anticipate that an additional or final survey will be required.

Our observations indicate that the geologic units of the Altamira Shale exposed in the headscarp are highly deformed in the western part of the site and relatively undisturbed in the remainder of the site. The deformation zone appeared to generally dip down from approximately the northern side of the Paseo Del Mar roadway towards the beach. The deformation appears to be related to regional tectonic forces and unrelated to the current landslide activity. We also observed the toe of the landslide along the beach and it is our opinion that the slide plane is likely buried below the gravel and boulder beach deposits in some locations.

### **GEOHERMAL ACTIVITY**

During the site grading work, vapor began emanating from localized areas at the site within the landslide graben. S&W observed and analyzed the vapor using a combination four-gas/PID meter. The results of our observations and testing were provided in our Field Activity Reports. The locations of the geothermal vents are shown on the As-Built Geotechnical Map.

### **SUMMARY OF PROJECT STATUS**

As of December 18, 2012, the following are the anticipated work elements remaining to be completed by the contractor for the project:

- Removal of asbestos-wrapped piping from the site.
- Removal of concrete stormdrain pipe sections exposed during final grading.
- Installation of filter fence at inlet structure.
- Final grading of the graben area.
- Plugging of existing concrete stormdrain piping in the temporary access path.
- Final as-built survey of site.

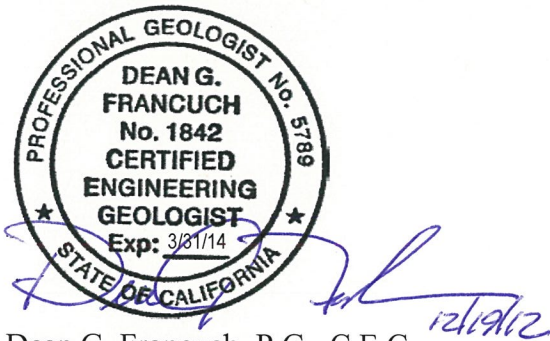
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SHANNON & WILSON, INC.

We anticipate that S&W will continue to provide construction observation through completion of site work.

Respectfully,

SHANNON & WILSON, INC.



Dean G. Francuch, P.G., C.E.G.  
Associate



R. Travis Deane, P.E., G.E.  
Senior Associate

DPO:DGF/dpo  
(6 copies submitted)

cc: Mr. Christopher Johnson, City of Los Angeles (electronic copy only)

Enclosures:

- Plate 1 - As-Built Geotechnical Map
- Figure 1 - Cross Section B-B'
- Figure 2 - Cross Section C-C'
- Table 1 - Summary of Field Activity Reports
- Appendix A - Field Activity Reports
- Appendix B - Important Information About Your Geotechnical/Environmental Report.