

September 6, 2012

Mr. Todd Hileman  
Village Manager  
Village of Glenview  
1225 Waukegan Rd.  
Glenview IL 60025

Mr. Richard A. Nahrstadt  
Village Manager  
Village of Northbrook  
1225 Cedar Lane  
Northbrook, IL 60062

Subject: Union Pacific Railroad  
UPRR Restoration at Shermer Road

Dear Messrs. Hileman and Nahrstadt:

Union Pacific Railroad has retained Alfred Benesch & Company (Benesch) to provide the following information regarding the derailment restoration at Shermer Road:

- Task 1: Monitor the top of rail profile and alignment daily (This frequency was reduced to two days per week, Tuesday and Friday, effective July 30, 2012) to determine if the track is moving more than would typically be expected.
- Task 2 Prepare calculations to determine if utilities in the corridor are subject to additional load stresses due to the placement of temporary fill and railroad live load.
- Task 3 Prepare slope stability analysis to estimate the factor of safety of the temporary embankment.

### **Summary of Benesch Activities and Findings – August 11 through September 5**

#### **Task 1 - Track Survey**

Benesch initiated work for this assignment on July 6, and collected topographic field survey that included locating existing Shermer Road, the temporary stone embankment, and the top of rail for both main tracks. This information was used to develop our “Situation Plan”, and the engineering model of the site.

The tops of rail of both main tracks were surveyed on August 14, 17, 21, 24, 28, 31, and September 4. Review of the survey data and plots that were prepared from that data supports our assertion (from the August 17 report) that the ballast section (aggregate between the cross ties and top of temporary fill) has consolidated and the track profiles have stabilized significantly.

UPRR advises that they have completed their final surfacing of the track at this time. After discussions with UPRR, Benesch was directed to suspend regular track survey unless there is reason to believe that additional data is required.

**Task 2 – Utility Stress Calculations**

There has not been any change to the utility stress calculation issue since the report of July 20.

**Task 3 - Slope Stability & Settlement Calculations**

There has not been any change to the slope stability and consolidation issue since the report of July 20.

Please let me know if you have any questions or if we can be of further assistance.



Richard D. Conrath, P.E.  
Vice President

RDC:r

