

June 30, 2015

Mr. Matthew Harris 700 Penn, LLC c/o EastBanc, Inc. 3307 M Street, NW, Suite 400 Washington, DC 20007

Subject: Project 15614002.00, Vibration Monitoring Summary Report #4, Hine Jr High

Project, Washington, DC

Dear Mr. Harris:

SCHNABEL ENGINEERING CONSULTANTS, INC. (Schnabel) is pleased to present the results of vibration monitoring during construction from June 13 through 26, 2015. These services are provided according to our agreement signed January 15, 2015.

PROJECT DESCRIPTION

This project consists of the demolition of the existing structure by conventional methods and construction of a new multi-use development up to 9-stories high, with 2 levels of below grade parking. The excavation support piers will be pre-drilled and grouted in-place. The proposed structure will be supported on a spread-footing foundation. We understand that rock excavation is not anticipated.

VIBRATION MONITORING

The purpose of the vibration monitoring is to record the vibration levels generated from the demolition and construction activities, so as to minimize excessive vibrations that might damage the adjacent structures, and/or annoy the residents. Five (5) seismic stations were originally installed on three sides (East, North and West) of the project in mid-April. Three of those stations (Stations 1, 4 and 5) have been removed at your request. A plan showing the seismograph equipment locations is attached. Table 1 summarizes the seismograph locations, with recommended trigger levels. The recommended trigger level is lower on the north side of the site, because this station is next to residential properties. The station on the west side is adjacent to commercial properties.

Table 1 - Seismograph Locations

Station	Location Description	Vibration Trigger Level (mms)
2	West – 301 7 th Street, Basement	12.5
3	North – 239 8 th Street, Back Yard	6.4

The stations are equipped with a cellular modem for communications with our computer network. The seismographs are recording vibrations in three perpendicular planes of movement: longitudinal, vertical, and transverse. They are set to monitor the vibrations from 5:00 AM to 7:30 PM daily. The station on the North side of the project will generate an event report with the vibration waveform, if the peak particle velocity exceeds 6.4 millimeters per second (mms). The seismograph on the West side (on 7th Street) will record an event report when the vibration level exceeds 12.5 mms. When vibrations exceed these criteria, the seismographs are also programmed to "Call Home" to Schnabel's server to download the vibration data. The "Call Home" feature allows automatic notification to anyone on the distribution list that vibration levels exceeding the allowable criterion have been recorded.

CONSTRUCTION MONITORING ANALYSIS

The table below summarizes the daily peak vibration levels if the vibrations exceeded the respective trigger levels of 6.4 and 12.5 mms. There were no vibrations recorded during this monitoring period that exceeded these trigger levels.

Table 2 - Recorded Vibration Data

Date	Daily Peak Vibrations (mms/Hz)	
	Station 2 (West)	Station 3 (North)
6/13	No Triggers	No Triggers
6/14	No Triggers	No Triggers
6/15	No Triggers	No Triggers
6/16	No Triggers	No Triggers
6/17	No Triggers	No Triggers
6/18	No Triggers	No Triggers
6/19	No Triggers	No Triggers
6/20	No Triggers	No Triggers
6/21	No Triggers	No Triggers
6/22	No Triggers	No Triggers
6/23	No Triggers	No Triggers
6/24	No Triggers	No Triggers
6/25	No Triggers	No Triggers
6/26	No Triggers	No Triggers

CONCLUSIONS

The seismograph records indicate that there were no trigger events where the vibrations generated by the construction activities exceeded the trigger levels of 6.4 or 12.5 mms at their respective monitoring locations from June 13 to 26, 2015.

We have endeavored to provide the professional services as reported herein in accordance with generally accepted geosciences practices, and make no other warranties, either expressed or implied, as to the services provided under the terms of this agreement and included in this report.

We appreciate the opportunity to be of service. Please feel free to contact us if you have questions concerning this report.

Sincerely,

SCHNABEL ENGINEERING CONSULTANTS, INC.

Benjamin R. Like

Associate

Kenneth E. Derrenbacher

Principal

GEW/BRL

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Enclosure

Figure 1 – Seismograph Location Plan