

August 9, 2018

Mr. Allen Crisanaz, PE
MKE and Associates
6915 SE Macadam Ave, Suite 200
Portland, OR 97219

Ref.: The Ainsworth School
2350 SW Vista Ave, Portland, OR 97201
Foundation Undermine – Observation Report
AAI Project No. A18142

Dear Allen,

At your request, and the request of Portland Public Schools, Chris Lowry of AAI Engineering made three site visits to the Ainsworth School to, in part, investigate existing foundations that were said to have been undermined. Chris was onsite May 14, May 21 and August 1. Rajiv Ali of Rhino One Geotechnical was also present on May 21 and August 1, and Jerad Lillegard of PPS was present on August 1.

The foundation area in question is beneath an entryway for an exterior stair, just off the north-east corner of the gymnasium. The area was accessed through a crawl space hatch in the foyer area next to the gymnasium entrance. Once inside the crawl space, ladders were required to descend approximately five feet and six feet, respectively, in order to gain an appropriate view of the foundation.

The conditions observed included undermining of concrete pilasters on both the north and south faces of the crawl space. The pilasters are approximately 15 inches wide, and are cast integrally with foundation walls on the north and south sides. The north pilaster widens to approximately 30 inches at its base. The bottom edges of the foundation walls could not be seen and would appear to be in bearing on deeper soil. According to original construction drawings, the foundation walls are no less than 15 inches thick. The soil directly under the pilasters was undermined to approximately one foot below the bottom of concrete, and no soil was in contact with the base of either pilaster.



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According to original construction drawings, these pilasters appear to support only the exterior stairs and entryway slab. However, since the pilasters are cast integrally with the north and south foundation walls, they appear to be adequately supported by the walls.

From the appearance of the soil in the area around the pilasters, the undermining looks to have been caused by intentional excavation. Jarod Lillegard had knowledge that such excavation had occurred during previous PPS maintenance work, and confirmed this with Chris and Rajiv during the August 1 visit.

It is AAI's assessment that the condition be restored to its original condition. The area should be filled and compacted to specifications determined by a geotechnical engineer.

Sincerely,

Chris Lowry, PE, SE
Sr. Project Manager



EXPIRES: 12-31-2018