

September 17, 2007

Mr. Bill Beaumont
City of Portsmouth
728 Second Street
Portsmouth, Ohio 45662

Re: Spartan Stadium

Dear Mr. Beaumont:

On Monday September 10, 2007 I conducted a cursory, visual inspection of Spartan Stadium. Prior to visiting the Stadium, I reviewed reports prepared by Lewis Engineering (dated January 19, 2007) and Lauro Engineering (dated 8/31/07).

My observations for the Visitors "side" are as follows:

1. The metal bleachers are not properly attached to the concrete "posts" and /or the concrete frame at all locations.
2. It is our belief that the vertical cracks observed at three of the four stairs (Lewis Engineering Report Photo #9 and #10), are a control / construction joint, not shear failure.
3. Deflection of the stairs was observed and the stairs had flexural cracks at the midpoints (between supports).
4. Spalling and cracks consistent with Lewis Photo #7,#8 and #11 (please note that photo #7 and #8 are on the home side) were observed at various locations throughout the structure. Exposed rebar and cracking were also observed at the top parapet wall.

It is our professional belief that many of the issues noted above are consistent with a structure the age of Spartan Stadium. With maintenance and monitoring the above issues can be addressed.

An issue related to any structural inspection, is "when did the crack occur" ? Because this was our first observation of the stadium, it is impossible for us to know with a degree of certainty whether the conditions observed developed a week ago, a year ago, when the structure was built or somewhere in between. As such, some of our recommendations will be for continued observation, with potential maintenance to follow.

Our recommendations for the Visitor's bleachers are as follows:

1. Re-attach the metal bleachers to the concrete substructure.
2. Prepare a photo documentation of cracks and spalls to critical features, such as the stairs, walls and frame. The photo documentation should include the exact location the photo was taken, so the photos can be compared between inspections and should utilize a tape measure or other device to provide a reference for size of the defect.
3. Monitor the cracks / sag in the stair regularly, especially during the football season or periods of regular use. If there is evidence of continued movement, the stairs can be repaired by constructing a mid-span support.
4. The life of the stadium will be extended if the cracks, spalls and construction joints are properly repaired and maintained.

Should you have any further questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Koehn', with a large, sweeping flourish extending to the right.

Jeffrey B. Koehn, P.E.
Senior Vice President

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