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November 28, 2007

Jan Burgess, AIA
Project Manager
Treanor Architects, P.A.
110 McDonald Dr., Ste. 192
Lawrence, KS 66044
jburgess@treanorarchitects.com

RE: KU Boathouse – Water Supply Adequacy for Fire Protection
HEI No. 0750000287

Dear Mr. Burgess:

We have reviewed the contract documents and water supply information provided to us by C.L. Maurer, Landplan Engineering, P.A. and have determined that the proposed water supply configuration will provide adequate water pressure and flow to serve the fire sprinkler system and for manual firefighting operations (fire flow). This conclusion is based on the following information and design assumptions:

1. Water supply information taken at the existing fire hydrant approximately 650 ft south of the proposed building of 855.36 gpm at 77 psi (static pressure unknown) and 2655 gpm available at 20 psi;
2. A combined sprinkler demand including outside hose allowance of approximately 525 gpm at 40 psi required at the base of the sprinkler riser;
3. The required fire flow for the building will not exceed 1000 gpm at 20 psi. The fire flow does not, and is not required to include the combined sprinkler and outside hose demand.

The size and configuration of the existing and proposed water mains is adequate for the fire sprinkler system and meets the fire flow requirements for this project.

Please contact me if you have any questions.

Sincerely,
HENDERSON ENGINEERS, INC.

A handwritten signature in black ink, appearing to read 'Darrell E. Stein II', is written over a light yellow rectangular background.

Darrell E. Stein II, P.E.
Fire Protection Engineer

cc: C.L. Maurer, Landplan Engineering
Courtney Wassom, HEI
Mike Haramia, HEI
Angie Grant, HEI
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