

Site Visit Notes – Water Testing observations

Date/Time: July 28, 2017
Prepared by: Scott Klingsick, KWA
Project Title: Webster University – Interdisciplinary Science Building
KWA Project No.: 2014-0119
Cannon Project No.: 004561.00
Project Location: 470 East Lockwood Avenue
 Webster Groves, MO 63119

ATTENDANCE RECORD:

Official sign-in sheet was recorded by Paric/Mid America. Not all attendees are recorded below

<u>NAME</u>	<u>COMPANY</u>	<u>EMAIL</u>	<u>TELEPHONE</u>
George Crow	Heitmann & Associates, Inc	gcrow@hietmannassoc.com	314-439-1944
Scott Klingsick	KWA	scott@kwastl.com	314-962-2560
Rick Heitmann	Mid America Testing	rickh@midamtlab.com	636-257-4722
Jason Szachnieski	Paric Corporation	jrszchnieski@paric.com	636-561-9608
Steve Ray	Paric Corporation	sray@paric.com	
Craig Miller	Webster University	craigmiller29@webster.edu	

MEETING MINUTES:

1. Arrived on site at 9:00 a.m. The following are KWA's field observations. The official testing report will be issued by Mid America Testing Laboratory, Inc.
 - North side lower level strip curtain wall (Room 111 & 109):
 - 30 min hose test was performed by Mid America on 2 lights and 1 spandrel area of the curtain wall at this location. Interior build out was finished, observation for water testing was only visual. No destructive investigation was performed. No water was noted on the interior.
 - North side projected curtain wall (Commons C280A):
 - 30 min hose test was performed by Mid America on first floor. 2 inch section of exterior sealant was removed on the second level. Mid America covered area with tape to perform testing. Interior build out was finished, observation for water testing was only visual. No destructive investigation was performed. No water was noted on the interior.
 - East side projected curtain wall (Room 284):
 - 30 min spray rack test was performed by Mid America on second level. Interior build out was finished, observation for water testing was only visual. No destructive investigation was performed. No water was noted on the interior.
 - East side projected curtain wall (Room 388):
 - 30 min spray rack test was performed by Mid America on second level. Interior build out was finished, observation for water testing was only visual. No destructive investigation was performed. No water was noted on the interior.
 - East side projected curtain wall (Room 488):
 - 30 min spray rack test was performed by Mid America on second level. Interior build out was finished, observation for water testing was only visual. No destructive investigation was performed. No water was noted on the interior.

- East side projected curtain wall (Room 276): retest area of previous leak
 - 30 min spray rack test was performed by Mid America on second level mullion that had previously failed testing. Interior build out was finished, observation for water testing was only visual. No destructive investigation was performed. No water was noted on the interior.
- South side curtain wall (Room 140 & C151): Head not tested previously due to incomplete installation.
 - 30 min hose test was performed by Mid America on the corner section of the two curtain wall sections at the head. Interior build out was finished, observation for water testing was only visual. No destructive investigation was performed. KWA was not on site at completion of this area. No leaks were noted prior to KWA leaving the site.
- KWA left the site at 3:00p.m. Additional testing was to be performed by Mid America Testing. Mid America Testing will issue final testing results/notes for all areas.

Water infiltration at the EAB Connector (Room C270A & 105) not related to water testing.

- KWA arrived on site and checked in at Paric's job trailer. Jason Szachnieski discussed an issue with leaking between the ISB and the EAB. Jason informed KWA that they have been investigating a leak in this area for some time. Jason stated that they have reviewed the movement joints (roof and walls) between the two buildings and made some modifications but the leak was still present. Leaking was noted at the head on door C170 between the ISB and EAB. Demolition had been performed to locate the source of the water infiltration at the door head. When on site water was noted coming from on top of the waterproofing that covered the EAB Vestibule metal deck and running down the outside of the beam on the waterproofing between the beam and the remaining existing limestone. Paric removed the cap from the abandoned drain line in the vestibule floor and informed KWA that they filled 2 five gallon buckets with water. When reviewing the second level no water was noted in the space between the two buildings at the movement joints. On the west door (XC270A.1) of the EAB Connector the pavers were not installed and the existing concrete was exposed at the door. No water proofing was noted in this area and existing concrete appeared to slope back to the EAB Connector and a cold joint was present between two pours. KWA requested that Paric preform a water test in this location. Water testing was preformed while KWA was on site. Water ponded against the entrance to the EAB Connector. Water was noted flowing into the cold joint in the concrete below and into the joint at the building. An increase in dripping was first noted at the drain pipe and then at the door head.

Craig Miller, George Crow, Jason Szachnieski and Scott Klingsick discussed the issue. KWA recommended that the cold joint be waterproofed. Then a 12 foot area at the Vestibule doors be sloped away from the building with waterproofing be added below the vestibule doors and extended to join the water proofing at the new paver area. Jason contacted Western water proofing to see if there was something that could be used to slope the deck that would not have a long cure time. Western said that they would look into options and get back to Jason. George Crow recommended using the same waterproofing material used on the deck at the pavers. See picture below.



Door head C170



Area of water testing



Cold joint



Existing drain pipe that was capped.