ATLANTIC ENGINEERING SERVICES

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January 13, 2014

Mr. Bert L. Bender, RA, LEED AP
Bender & Associates Architects, P.A.
410 Angela Street
Key West, Florida 33040-7402

Re: Additional Testing — Project: #312-295
Glynn Archer School / City Hall Conversion
Key West, Florida

Dear Bert:

I am writing, at your request, to outline the additional testing required to further verify concrete strength and wall reinforcing in the perimeter concrete walls at the former Key West High School, which is to be converted into the Key West, City Hall at Glynn Archer.

The seven concrete cores tested for compression strength in the concrete test report by Nutting Engineers, tested only two cores from Building A and five cores from Building B. The two cores from Building A are both below 2,000 psi and we recommend that six additional cores be retrieved and tested for compression from the walls in Building A to supplement the two cores that have already been retrieved and tested for compression. See the attached plan for the locations. We are recommending three additional cores on the first floor and three additional cores on the second floor at locations outlined in the attached plans. We do not feel that additional concrete compression testing is required for Building B.

Previous radiological and ground penetrating radar (GPR) testing has been performed by Engineering & Inspections Unlimited, Inc. at fifteen locations and the radiological and GPR testing was not consistent at each location, and in areas was inconclusive. In order to supplement this testing, we recommend additional GPR testing with pachometer or profometer soundings at additional locations including jambs, pilasters, walls, wall corners and columns. Most of these locations should be typical throughout the buildings and our recommended locations are outlined in the attached plans. If the jamb results are dramatically different between locations, the jamb on the other side of the window opening should be tested also. Likewise, if pilaster results are dramatically different between locations, an adjacent pilaster should be tested. If wall corner results are dramatically different between locations, then the corner opposite and diagonal from the corner initially tested should also be tested. If the column results are dramatically different, an adjacent column should also be tested. The report should be presented outlining the reinforcing size and spacing discovered at each location. If voids are encountered, they should be documented.

It has been a pleasure serving you as a consulting structural engineer. Please contact our office if there are any questions regarding this correspondence, or if you need any additional information or assistance.

Very truly yours,
ATLANTIC ENGINEERING SERVICES OF JACKSONVILLE
FLORIDA CERTIFICATE OF AUTHORIZATION #791

Mark J. Keister, P.E.
Principal

MJK/drg

CORE #1 THRU CORE #7 : ORIGINAL 3.72" DIAMETER CONCRETE CORES TESTED BY NUTTING ENGINEERS.

W100,W101,W103,W104R,W105,W106R,W107,W108,C100,C101,W200,W201,P1 AND ELECTRICAL ROOM:
ORIGINAL RADIOGRAPHIC AND GPR TESTING PERFORMED BY ENGINEERING & INSPECTIONS UNLIMITED, INC.

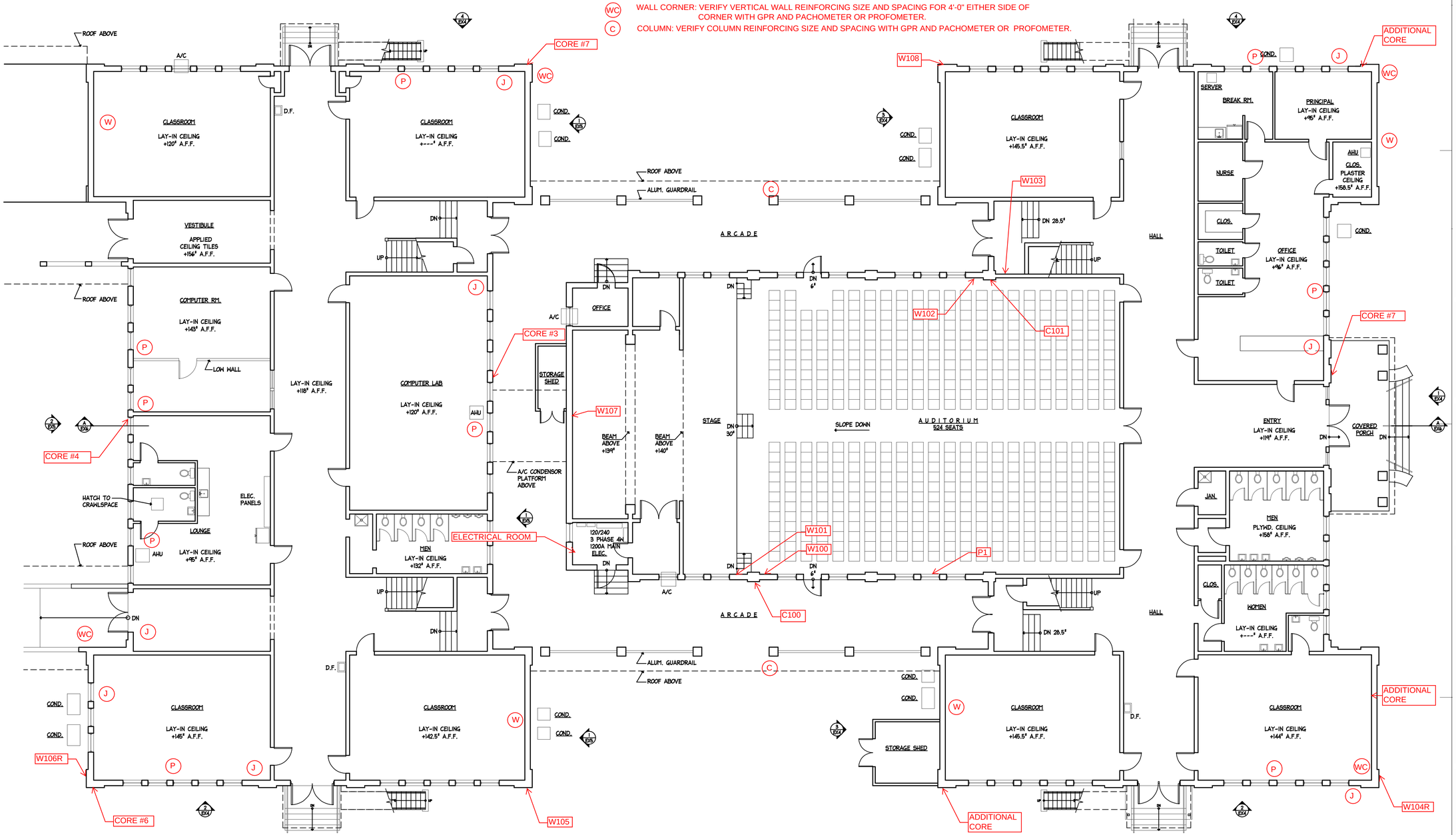
(J) JAMB: VERIFY JAMB VERTICAL WALL REINFORCING SIZE AND SPACING FOR 4'-0" WIDTH OF WALL AT JAMB WITH GPR AND PACHOMETER OR PROFOMETER.

(P) PILASTER: VERIFY PILASTER REINFORCING SIZE AND SPACING WITH GPR AND PACHOMETER OR PROFOMETER.

(W) WALL: VERIFY VERTICAL WALL REINFORCING SIZE AND SPACING FOR 6'-0" WIDTH WITH GPR AND PACHOMETER OR PROFOMETER.

(WC) WALL CORNER: VERIFY VERTICAL WALL REINFORCING SIZE AND SPACING FOR 4'-0" EITHER SIDE OF CORNER WITH GPR AND PACHOMETER OR PROFOMETER.

(C) COLUMN: VERIFY COLUMN REINFORCING SIZE AND SPACING WITH GPR AND PACHOMETER OR PROFOMETER.



1 / EX1 EXISTING FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

REVISIONS:

KEY WEST CITY HALL AT GLYNN ARCHER

1302 WHITE STREET KEY WEST, FLORIDA
CITY OF KEY WEST

MCHARRY ASSOCIATES
ARCHITECTURE / ENGINEERING / INTERIORS
AAC000986 EB0003663
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MIAMI, FLORIDA 33133 (305)445-3765
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Key West, Florida 33040
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Bender & Associates ARCHITECTS *p.a.*

Project Nº: 1305

EXISTING FLOOR PLANS

Date: 5/30/13

EX1

CORE #1 THRU CORE #7 : ORIGINAL 3.72" DIAMETER CONCRETE CORES TESTED BY NUTTING ENGINEERS.

W100,W101,W103,W104R,W105,W106R,W107,W108,C100,C101,W200,W201,P1 AND ELECTRICAL ROOM:
ORIGINAL RADIOGRAPHIC AND GPR TESTING PERFORMED BY ENGINEERING & INSPECTIONS UNLIMITED, INC.

(J) JAMB: VERIFY JAMB VERTICAL WALL REINFORCING SIZE AND SPACING FOR 4'-0" WIDTH OF WALL AT JAMB WITH GPR AND PACHOMETER OR PROFOMETER.

(P) PILASTER: VERIFY PILASTER REINFORCING SIZE AND SPACING WITH GPR AND PACHOMETER OR PROFOMETER.

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(WC) WALL CORNER: VERIFY VERTICAL WALL REINFORCING SIZE AND SPACING FOR 4'-0" EITHER SIDE OF CORNER WITH GPR AND PACHOMETER OR PROFOMETER.

(C) COLUMN: VERIFY COLUMN REINFORCING SIZE AND SPACING WITH GPR AND PACHOMETER OR PROFOMETER.

ROOF EDGE
LINE OF BUILDING BELOW
PORCH ROOF BELOW
CLASSROOM
LAY-IN CEILING +129' A.F.F.
CLASSROOM
LAY-IN CEILING +125' A.F.F.
CLASSROOM
LAY-IN CEILING +128' A.F.F.
CLASSROOM
LAY-IN CEILING +130' A.F.F.
CLASSROOM
LAY-IN CEILING +131' A.F.F.
CLASSROOM
LAY-IN CEILING +136.5' A.F.F.
CLASSROOM
LAY-IN CEILING +138.5' A.F.F.
CLASSROOM
LAY-IN CEILING +125' A.F.F.
CLASSROOM
LAY-IN CEILING +127' A.F.F.
CLASSROOM
LAY-IN CEILING +194' A.F.F.
CLASSROOM
LAY-IN CEILING +121' A.F.F.
OFFICE
HALL
APPLIED ACOUSTIC TILE CEILING +142' A.F.F.
HALL
APPLIED ACOUSTIC TILE CEILING +142' A.F.F.
WOMEN
LAY-IN CEILING +122.5' A.F.F.
D.F.
DN
UP
OPEN TO BELOW
STORAGE SHED ROOF
COND.
COND.
A/C PLATFORM
A/C
A/C
A/C
SLOPE
RIDGE
BUILT-UP ROOFING
LINE OF BUILDING
LINE OF ROOF OVERHANG
GUTTER
LINE OF ARCADE ROOF
V-CRIMP SHED ROOF BELOW
ADDITIONAL CORE
ADDITIONAL CORE
CORE #5
CORE #2
W201
W200

1 EX2 EXISTING SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

REVISIONS:

KEY WEST CITY HALL
AT GLYNN ARCHER
1302 WHITE STREET KEY WEST, FLORIDA
CITY OF KEY WEST

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ARCHITECTURE / ENGINEERING / INTERIORS
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Project Nº: 1305
EXISTING FLOOR PLANS
Date: 5/30/13

EX2