Facilities Planning & Construction
Design and Construction Standards 2017
ADDENDUM No: 001

The following changes have been made to the Penn State Health Milton S. Hershey Medical Center (PSHMC) and Penn State College of Medicine (PSCOM) “Design and Construction Standards” that are maintained by the Facilities Planning & Construction Department. A complete updated version of the Design & Construction Standards can be found on the PSU Office of Physical Plant (OPP) website (http://www.opp.psu.edu/). All Professionals shall notify the Project Manager of any substantial change in design schedule or fee, construction cost, or construction schedule of any current project due to incorporation of this revision to the Standard. Otherwise, the Professional is expected to incorporate the updated standard into their current design and notify Contractors of the revision as applicable.

DIVISION 2 - SITE CONSTRUCTION

Section 02761 - PAVEMENT LINE PAINTING/GRAPHICS
- Add this section in its entirety

Section 02787 - ASPHALT SEALCOATING
- Add this section in its entirety

Section 02980 - IMPRINTED CROSSWALKS
- Add this section in its entirety

Section 02983 - ASPHALT CRACK/Joint FILLING
- Add this section in its entirety

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

Section 07511 - BUILT-UP ASHPHALT ROOFING

Page 7-5, Paragraph A.1: Add the following sentence:
“All roofing systems shall be designed and installed by a Tremco authorized contractor.”
Page 7-6, Paragraph C.3: Add the following sub-paragraph:
“f. Pest Management: Tim-Bor Professional by Nisus Corporation shall be applied during all roofing installations.”

DIVISION 15 - MECHANICAL

Section 15010 - MECHANICAL GENERAL PROVISIONS

Page 15010-3, Paragraph B.3: Delete this paragraph in its entirety and replace with the following:
“3. Roof mounted equipment curbs shall be approved by Owner and installed in accordance with owner’s roofing representative.”

Page 15010-3, Paragraph C.1: Add the following sentence to this paragraph:
“Equipment labels and tags shall not be painted over or defaced.”

Page 15010-4, Paragraph E.1: Add the following sentence to this paragraph:
“The Owner reserves the right to audio and visually record all Contractor training.”

Section 15050 - PLUMBING BASIC MATERIALS

Page 15050-1, Paragraph C: Delete this paragraph in its entirety and replace with the following:
“C. Complete and submit HMC’s Equipment Data Acquisition form for central plumbing equipment. Coordinate equipment designations with HMC and submit a complete itemized listing of equipment designations for approval.”

Section 15055 - PLUMBING PIPE AND PIPE FITTINGS

Page 15055-1, Paragraph A: Delete this paragraph in its entirety and replace with the following:
“A. Interior domestic water piping shall be Type L copper with solder joints. Mechanical joints with any non-metal components shall be prohibited.”

Section 15060 - PLUMBING VALVES

Page 15060-1, Paragraph B: Delete this paragraph in its entirety and replace with the following:
“B. Ball valves shall be used on all domestic water piping 4 inches and smaller. Ball valves shall be full port, one-piece style, certified lead free, with stainless steel ball.
1. Up to 2 inch: Apollo, Model 77FLF, or approved equal
2. 2-1/2” to 4 inch: Full stainless steel, flanged. QSM Tru-Flo EA Series or approved equal”

Page 15060-1, Paragraph D: Delete this paragraph in its entirety and replace with the following:
“D. Butterfly valves shall be used on all domestic water piping over 4 inches. Double offset, full stainless steel, with hand actuator. Manufacturer: Apollo or Jamesbury.”

Page 15060-1: Add the following paragraph:
“E. Domestic Water Check Valves: In-line, spring assisted disc type, full stainless steel. DFT SCV Series or approved equal.”
Section 15080 - PLUMBING PUMPS

Page 15080-1, Paragraph A.4: Add the following sentence:
“Steam powered pumps shall only be considered if electrical power is not readily available and shall be approved by Owner.”

Section 15200 - PLUMBING SPECIALTIES

Page 15200-1, Paragraph B: Add the following sentence to this paragraph:
“Zurn, or approved equal.”

Section 15300 - SANITARY DRAINAGE

Page 15300-1, Paragraph H: Delete this paragraph in its entirety and replace with the following:
“H. Roof openings from vents through roofs to be removed shall be properly patched, by Owner’s approved roofing contractor following industry and OEM guidelines.”

Section 15400 - PLUMBING FIXTURES

Page 15400-1, Paragraph A.1: Revise the phrase “500 lb. minimum load rating” to read “1,000 minimum load rating”.

Page 15400-1, Paragraph A.2: Delete this paragraph in its entirety and replace with the following:
“2. Urinals: Wall hung vitreous china, without strainers. Urinals shall be Kohler, Steward model K-5244-ET, or approved equal.”

Page 15400-1, Paragraph A.3:
Remove the following sentence:
“(Toto toilet: TET1GNC-32, Toto urinal TEU1GNC-12)”

And replace with the following sentence:
“Toto toilet: TET1GNC-32, Toto urinal TUE1UN12.”

Page 15400-1, Paragraph A.7: Remove this paragraph in its entirety and replace with the following paragraph:
“7. Faucets for lavatories in public toilet areas shall be automatic style, self-generating hydropower with backup battery, manufactured by Toto, Model TEL151, no substitutions.”

Page 15400-2, Paragraph A.9: Add the following sentence to this paragraph:
“All shower strainers shall be stainless steel.”

Section 15550 - HVAC BASIC MATERIALS

Page 15550-1, Paragraph C: Delete this paragraph in its entirety and replace with the following:
“C. Complete and submit HMC’s Equipment Data Acquisition form for central HVAC system equipment. Coordinate equipment designations with HMC and submit a complete itemized listing of equipment designations for approval.”
Section 15560 - HVAC VALVES

Page 15560-1, Paragraph B: Delete this paragraph in its entirety and replace with the following:

“B. Ball valves shall be used on all heating and chilled water piping 4 inches and smaller. Ball valves shall be full port, one-piece style, certified lead free, with stainless steel ball.
   1. Up to 2 inch: Apollo, Model 77FLF, or approved equal
   2. 2-1/2" to 4 inch: Full stainless steel, flanged. QSM Tru-Flo EA Series or approved equal”

Page 15560-1, Paragraph C: Delete this paragraph in its entirety and replace with the following:

“C. Butterfly valves shall be used on all heating and chilled water piping over 4 inches. Double offset, full stainless steel, with hand actuator. Manufacturer: Apollo or Jamesbury.”

Page 15560-1, Paragraph D: Delete this paragraph in its entirety and replace with the following:

“D. Steam Condensate, Heating and Chilled Water Check Valves: In-line, spring assisted wafer type, carbon steel body, stainless steel trim. DFT WLC Series or approved equal.”

Page 15560-1: Add the following paragraphs:

“F. Low, Medium, and High Pressure Steam:
   1. Up to 2 inch: Ball valve, carbon steel body, stainless steel trim and ball. Apollo 73-A 100 Series, or approved equal.
   2. 2-1/2 inch and larger: High performance butterfly valve, lug type, with hand actuator. Adams WAK Series, or approved equal.”

G. Low, Medium, and High Pressure Steam Condensate:
   1. Up to 2 inch: Ball valve, carbon steel body, stainless steel trim and ball. Apollo 73-A 100 Series, or approved equal.
   2. 2-1/2 inch and larger: High performance butterfly valve, double offset, full stainless steel, with hand actuator. Manufacturer: Apollo or Jamesbury.”

Section 15660 - VARIABLE FREQUENCY DRIVES

Page 15560-1, Paragraph A: Revise the last sentence in the paragraph to read:

“Drives shall be manufactured by ABB, Cutler Hammer, Allen Bradley, or Yaskawa.”

Section 15700 - HEAT TRANSFER

Page 15700-1, Paragraph E: Revise the last sentence in the paragraph to read:

“Pressure reducing valves and steam traps shall be manufactured by Spirax Sarco.”

Section 15800 - AIR HANDLING EQUIPMENT

Page 15800-2, Paragraph B.7: Add the following sentence: “UV lighting shall be manufactured by Sani-Vox, no substitutions.”

Page 15800-2, Paragraph E: Add the following sentence: “Face & bypass dampers shall be prohibited.”
Page 15800-2, Paragraph H: Add the following sentence: “Motor removal rails shall be provided in all sections that contain motors 10 HP or greater.”

Page 15800-2, Paragraph K:
Remove the following phrase:
“1% leakage at 1.0 in WG internal casing pressure”

And replace with the following phrase:
“1% leakage at +/- 8.0 in WG internal casing pressure”

Page 15800-2: Add the following paragraph:

“L. Electric actuation shall be provided for all control valves and dampers, unless otherwise authorized by Owner.”

Section 15870 - VARIABLE AIR VOLUME SYSTEMS

Page 15870-1, Paragraph A: Add the following subparagraph:
“1. All variable air volume boxes serving intensive care unit patient rooms shall be capable of achieving an 80 degree F room temperature in less than 30 minutes from a starting room temperature of 68 degrees F.”

END OF ADDENDUM NO. 001