

ADDENDUM NO. 03
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PROJECT/OWNER INFORMATION:

OWNER NAME

College of Charleston
Science Center Renovation and Construction
66 George Street
Charleston, SC 29424
Project No. H15-9580-PG-B

ARCHITECT/ENGINEER:

BALLINGER

833 Chestnut Street
Suite 1400
Philadelphia, PA 19107
215-446-0900 Fax: 215-446-0901

This Addendum is issued before Award of Contract to inform all Bidders of certain changes, deletions, and additions which have been made to the Contract Documents and which shall be included in the Contract. Acknowledge receipt of this Addendum on Bid Form. Failure to acknowledge receipt of Addendum may subject the Bidders to disqualification.

Bidders will be held to furnish all materials, labor and supervision required to execute the Work described herein.

The applicable provisions of the Contract Documents shall govern all Work described herein, unless noted otherwise. Changes to previously issued sections will be indicated with **bold text**, Deletions will be indicated with a ~~strikethrough~~.

CHANGES TO SPECIFICATIONS:

1. Table of Contents
2. Section 01230 - Alternates
3. Section 01575 - Construction Waste Management
4. Section 02457 - Prestressed Concrete Piles
5. Section 04810 - Unit Masonry Assemblies
6. Section 08911 - Glazed Aluminum Storefront Systems
7. Section 09402 - Epoxy Terrazzo
8. Section 10290 - Pest Control
9. Section 11602 - Laboratory Casework and Furnishings

10. Section 11610 - Laboratory Fume Hoods
11. Section 13080 - Sound Control Window Systems
12. Section 15010 - General Requirements - Mechanical
13. Section 15061 - Pipe and Pipe Fittings - Plumbing
14. Section 15160 - Hydronic Pumps HVAC
15. Section 15190 - Piping and Equipment Identification
16. Section 15840 - Sheet Metal Ductwork
17. Section 15855 - Custom Penthouse Units and Custom Air Handling Units
18. Section 15860 - Fans and Air Intake/Relief Ventilators
19. Section 15885 - Air Filters and Housings
20. Section 15886 - Special Air Filters
21. Section 15902 - Electrical Equipment Wiring
22. Section 15910 - Sheet Metal Accessories
23. Section 16000 - General Electrical Provisions
24. Section 16060 - Grounding
25. Section 16100 - Wiring Materials and Methods
26. Section 16300 - Outside Power Transmission and Distribution
27. Section 16390 - Electrical Power System Studies
28. Section 16400 - Electrical Service and Power Apparatus
29. Section 16450 - Distribution Equipment
30. Section 16570 - Architectural Dimming Control Systems
31. Section 16610 - Large Emergency Generators
32. Section 16720 - Audio/Visual Systems
33. Section 16721 - Fire Alarm System
34. Section 16900 - Panel Schedules
35. Section 16995 - Electrical Systems Commissioning
36. Section 16997 - Electrical Testing Requirements.

CLARIFICATIONS:

NOTE: BID DUE DATE HAS BEEN EXTENDED TO SEPTEMBER 25, 2007. TIME OF DAY AND LOCATION HAS NOT BEEN CHANGED!

1. As specified in specification section 05120 all structural steel is to be primed. Priming the steel has no relation to the fact that the building had automatic fire sprinklers. A question regarding sprayed fire-proofing referenced drawings G001, G003, G004 and the stairwells and Atrium having sprayed fire-proofing. This is not accurate and as indicated in Addendum No. 1 the only location for sprayed fire-proofing are the Electrical Rooms 126 and 128, and any exposed steel in the elevator shafts.
2. There are no details showing column isolations, column box outs, or column diamonds and none are indicated on any of the floor plans as the intent is to place the first floor structural slab after the columns are erected.
3. Details for exterior waterproofing (bituthene) at the foundation wall where steel columns protrude beyond or are

- flush with the exterior face of the concrete are typical manufacturer details and can be provide
4. See specification section 08800 and drawings for glazing types in wood frames.
 5. Interior wood frames specifications were included in addendum no. 2. See revised section 08211.
 6. Areas inside of the lab casework including insides of drawers and base cabinets are painted steel. Wood panels are only required at the door and drawer fronts as well as side and end panels.
 7. We do not require PDA testing of 15% of the piles. PDA's will be required on the indicator and test piles, but the production piles themselves will be tested based on blow counts and the modified engineering use formula. Please refer to specification section 02457 issued with this addendum.
 8. Pile shoes are not required, see specification section 02457 issued with this addendum.
 9. The W10x68 is a snug fit inside the round column, and they need not be connected to each other. The 16" diameter cover is shown as one piece; however, if a smooth-ground welded splice can be achieved so that no seam is visible through the painted finish, the column may be spliced. A full penetration beveled splice would be required. The 16" pipe will not interfere with the anchor rod layout.
 10. All three utility vaults are to be pre-fabricated by others. Typical waterproofing details can be found on sheet A530.
 11. Details at the loading dock depicting the auxiliary chiller connection have been included with this addendum at F15/S506.
 12. Permanent safety attachment details can be found at 9/S515.
 13. For height and depth of emergency generator equipment pad see drawing S101.2 issued with addendum no. 2.
 14. For elevation of generator pad, please see S101.2 issued with addendum #2.
 15. Base cabinets underneath fume hoods are part of the scope covered in specification section 11610.
 16. Greenhouse lighting will be provided by the greenhouse manufacturer/installer. All electrical wiring for lighting will be under the electrical scope.
 17. All wiring at the greenhouse, including wiring for environmental controls are under the scope of the electrical contractor as indicate on sheet A225, note #2.
 18. The island bench shelves are not to have any light fixtures.
 19. Openings to be protected by the portable watertight panels are indicated on sheet G101.
 20. For corner guard locations please refer to the interior finish sheets, series A901.1-A903.2.
 21. The waterproofing specified was selected as being the best possible system for water proofing on this project. We

believe that bentonite, for several reasons, does not perform as well as bituthene or the Preprufe products we specified as the basis of design.

22. As previously stated in addendum #1, auditorium and classroom seating is not to be included in the bid.
23. In addendum no. 2 the Laminated Metal Panels have been removed from the specification section 06402 and are not within the scope of work.
24. Detail 11/A804 indicates the correct elevation of the north wall of Vestibule 343. Please note that this vestibule is located on the third floor and serves as both a vestibule for the roof terrace and a pantry.
25. The size of the Confederate Jasmine indicated on the landscape drawings is one (1) gallon. See attached plant schedule.
26. The size of the Goldmoss a 4" pot. See attached plant schedule.
27. Specification section 01575 Construction Waste Management 1.02 A References has been revised. Please refer to revised specification section with this addendum.
28. GC to provide an insulated curing box for concrete cylinders as is typically needed by the testing agency.
29. For interior wall stud gage requirements, please refer to specification section "09111 Non-Load-Bearing Steel Framing".
30. The City of Charleston will not allow Calhoun Street to be closed. Means and methods of any work under Calhoun Street is at the discretion of the General Contractor. Using a jack and bore is one method that the design team had thought could be used.
31. Drawing 3/A514 indicated a column penetration from the interior of the building to the exterior. The dashed lines indicate flashing that is required at this location to provide a water-resistant connection at the column and the metal panel system.
32. The exposed steel columns will receive finishes as per Section 09912 - Painting (Professional Line Products). Where columns are exposed the Tnemec 90-97 primer is not to be used. The Tnemec product shall only be used in non-exposed locations as indicate in Section 05120 - Structural Steel.
33. Drawing E100 indicates replacing the existing starters with new breaker pans. The MCC manufacturer of the existing gear is Westinghouse.
34. Ballinger recommends that the equipment provider is responsible for the installation of the IQ/MLC motorized shade system and control wiring while the electrical contractor provides the power to the locations where needed. Please note that the General Contractor should delineate these responsibilities.
35. Spacing for the voice/data outlets on the wiremold should be as close as possible as indicated on plans. Spacing may be slightly changed to match manufacturer's standard

- cover lengths.
36. Ballinger recommends that the equipment provider is responsible for the installation of all security system equipment and wiring. Please note that the General Contractor should delineate these responsibilities.
 37. An audio/visual equipment specification has been included with this addendum. Ballinger recommends that the equipment provider is responsible for the installation of all A/V equipment indicated on drawings. Please note that the General Contractor should delineate these responsibilities.
 38. Ballinger recommends that the equipment provider is responsible for the installation of all security sound system speakers and enclosures. Please note that the General Contractor should delineate these responsibilities.
 39. The street lighting indicated on sheets L103 and L104 are to be SITESCAPE, Charleston, Model 1230 BP. The light fixture and associated wiring is part of the contract.
 40. Ballinger recommends that the equipment provider is responsible for the installation of all copper and plastic pneumatic tubing for associated with the automatic door openers. Please note that the General Contractor should delineate these responsibilities.
 41. The demolition contractor is responsible for the electrical demolition including, but not limited to light poles, electric meters, and traffic signal controls as indicated in specification section 02230.
 42. Under specification Section 11602, 2.02 Basis of design. "Plain-Sliced" select white maple is acceptable.
 43. No finish is required behind the tackable/fabric panel. Whatever (primer/paint) is being applied to the exposed section of wall, extend 4" beyond the edges of the panel.
 44. The reveals (for example in the auditorium) are to receive adjacent finish color of the wall.
 45. The abbreviation "VP" should be removed from the finish schedule on Sheet A604.
 46. All waterproofing membrane that exists behind any brick veneer will be installed after the brick ties are installed. A small slice is made in the membrane to fit over the brick tie. After the membrane is in place then the small opening around the brick tie is coated with the liquid membrane. This is a standard waterproofing detail. Note that in all locations where waterproofing membrane wraps over a brick-shelf, that the "Perma-Barrier" wall flashing (or equal) is to be provided as per manufacturers recommendations.
 47. The wood fence listed in alternate #3 does not receive any finish. Fence to be made from cedar.
 48. As per specification section 11602, 2.09; all horizontal laboratory work surfaces are to be Epoxy with the exception of the Radio-Chemistry 313 where stainless steel countertops are specified.

49. A810/3 notes the shelf support core extends to the floor and shows valves extending from the support riser. The support risers can be attached to the top as well and the valves do extend from the umbilical chase.
50. A811/10 section detail shows a tall case with white marker boards on a sliding track. Only the tall cases are part of the laboratory casework package. The sliding whiteboard panels are not part of the casework package.
51. Room 153 shows (2) VSC42 cabinets. Both cabinets are part of the casework package.
52. A213.2 shows a BAS Workstation at 36" deep. This is not part of the casework package and is to be considered N.I.C. as a furniture item.
53. Provide 30" x 30" access doors at all duct chases in lieu of 24" x 24" panels at duct chases.
54. Drawing A604 and Spec Section 06402. Wood base and hardwood veneer panels are indicated to be Anegre and is considered a renewable resource. This cost should be comparable to a higher grade quartered white maple. Please note that the College of Charleston is not seeking any LEED certification on this project.
55. Spec sections 10431 and 10432 refer to interior sign and dimensional cast metal characters. Please contact Ralph Beatty at Southern Management Group with regards to an allowance for this scope of work.
56. Section 07531, 2.03,A,1; Is to be used at all locations on building as a substrate under the EPDM membrane. Item 2; Is a recovery board to be used at the terrace location where the concrete pavers are supported by the pedestals.
57. The limits of this project lie within the property lines of the site. Property lines indicated on documents. Any incursion onto city streets is a function of means and methods and should be negotiated by the contractor with the city, county, SCDOT, or appropriate entity. An encroachment permit has been approved for the utility work regarding the electrical, chiller lines and vault scope. Please confirm with the above mentioned authorities for exact work covered under the permit.
58. Regarding the request for as-builts, the scope no longer includes any demolition of existing vaults. Rather a new vault will be installed within a foot of the existing vault 1. Please refer to mechanical and structural drawings included with this addendum.
59. The general contractor is to coordinate with the pile contractor and the reinforcement contractor with regards to who provides the dowels.
60. The PDA's are only required on the test piles. Refer to specification section 02457.
61. Exterior handrails are to be stainless steel with the exception of the loading dock area, which are painted steel. Please refer to Addendum #2, Clarification item #12.
62. The spray fire-proofing is applied to the exposed

- structural steel in Electrical Rooms 126 and 128 as well as any exposed steel within the elevator shafts.
63. Alternate fence listed on A101.2 to be cedar.
 64. Manual shades in all windows except the lecture hall which is to have the dual electric shades and the Greenhouse which has shades supplied by the greenhouse supplier.
 65. Third floor exterior column covers to be cast-stone.
 66. Corridors 229 and 234 to be finished as indicated on finish plan. Disregards Finish Group FG-6 indication.
 67. Regarding alternate number two in the specifications, the floor patten shall be considered the same for both the base bid and the alternate bid.
 68. The lecture hall seating IS NOT to be included in the bid. The podium on sheet A824 is to be included in the millwork scope. There is no attached seating at the auditorium tables.
 69. The request that Cor-Fill 500 replace the foam inserts in block work cannot be considered as a substitution request was not received.
 70. Appliances listed under spec section 11310 - Residential Appliances are for the Pantry areas 103F and 343.
 71. Typical structural details do provide rebar/grouting information for the block backup walls around the perimeter, please see sheet S513. Also, please refer to the Wall Details series of drawings in the Architectural sheet A501-A514.
 72. The utilities relocation will need to be coordinated with Southern Management Group. Please contact Ralph Beatty for further information.
 73. A profile of Calhoun Street indicating all utilities with elevation is not available. General contractor to coordinate with SCE&G, other pertinent utilities and the Agency with regards to the relocation of any said utilities prior to the installation of the new vault(s).
 74. Spec section 16720 will contain projector screen and mount information. All AV systems, including projector lifts and mounts, are by the GC.
 75. Glazing for this project will not be impact resistant and will therefore not require a small or large missile test.
 76. Tables to be supplied in under the lab casework scope are to be as indicated on the drawings with regards to size and heights.
 77. Curtainwall installer to cover the wood insert panels within their scope.
 78. Windborne-Debris-Impact-Resistance Performance will required for Sections 08911 and 08411, but not 08800 for exterior conditions?
 79. Please refer to sheet A604, Finish Group Schedule, for locations of shades indicated as WT-1 and WT-3.
 80. Drawing A210, base cabinet type H & V illustrate a square above the pull. This is it a lock.
 81. There are no base cabinets under the fume hoods noted as ADA fume hoods. These are to be open underneath.

82. Heights for any tables specified in the labs under the scope of lab casework is to be as noted on plans.
83. Planters at the exterior near the front entrance are to be a glazed terracotta measuring approximately 3-4' high and 3'-4' in diameter. Planting schedule is on sheet L102.
84. Accepted Substitutions include:
 - A. Section 08630 - United Skylights, Inc., Series 6000 Tubular Skylights.
 - B. Section 10155 - Columbia Partitions, Polylife Model 15521.
 - C. Section 12485 - KADEE Industries, KD98 Stainless Steel Grating.
85. Hangers for *insulated* ductwork are to be installed outside of insulation as specified in specification section 15140. Intent is to have no insulated duct, regardless of size, to be supported by straps screwed in to the sides and bottom of the ductwork.
86. All grounding and wiring to be by Division 16, not the mechanical contractor, as stated in specification section 15160. The specifications have been edited to reflect the change.
87. The reference to painting of uninsulated steel piping from spec section 15190 has been deleted. The specifications have been edited to reflect the change.
88. Delete reference to equipment supports from specification section 15860. Refer to specification section 15140 for all equipment supports and 15010 for housekeeping pads. The specifications have been edited to reflect the change.
89. Existing equipment referred to on DWG M100 is not being relocated. Existing pumps are to receive new 100 Hp motors and VFD's. Drive locations are shown on M100. Mechanical contractor responsible for work on M100. Electrical Contractor responsible for work on E100.
90. Chilled water piping serving FCU-3-7 to be 1" as shown on DWG M203.6 and not 1-1/4" as shown on M301.
91. Chilled water piping serving AHU-2, AHU-3 to be 8" as shown on DWG. M301 and not 10" as shown on M203.2.
92. "Triangle" references to ductwork pressure class on DWG M304 have been deleted. The specifications have been edited to reflect the change.
93. Regarding the 40 FPM face velocity at the fume hoods, the fume hoods are to be provided with sash stops at 18", at which point the face velocity will be 60 fpm. Fume hood face velocity will be 40 fpm at full sash opening (for set up purposes only). We have reviewed this with the college and with the hood manufacturers.
94. Correction from addendum #2: The geotechnical investigation by Geotech, under Discussion and

Recommendations, Site Preparation and Earthwork Operations, page 20, calls for the entire footprint of the building to be excavated to the ~~top~~ bottom of pile caps and removed from site and then be replaced with offsite satisfactory materials. This is a requirement.

95. In addendum #2 it was stated removal of all fill to the top of the pile caps was required. Please correct as the all existing fill should be removed to the BOTTOM of the pile caps.

DRAWINGS:

1. **S001 - Structural Cover Sheet:** Required pile compressive strength capacity was revised to match the recommendations of the geotechnical report.
2. **S101.1 - Partial Foundation Plan:**
 - a. Vault A is now shown on the foundation plan. It is to be a precast concrete component by others, as are vaults B and C. We no longer intend to demolish one wall of the existing vault. The new vault will be installed adjacent to the existing vault and will be structurally independent.
 - b. A note was added calling out new detail F16/S506 at the stair landing post.
 - c. Section cuts were made at the entry plaza and ramp.
 - d. New pile cap designations were indicated at some uplift pile caps.
3. **S101.2 - Partial Foundation Plan:** (2) PC-2's were added, replacing (2) PC-1's at the loading dock. Details were added for the mechanical access door penetrations in the loading dock area. The exterior stairs were identified as precast stairs by others.
4. **S104.1 - Low Roof Partial Framing Plan:**
 - a. Two safety tieback locations were adjusted.
 - b. Two L4x4x1/2 frames were added for the radioisotope exhaust fans.
 - c. The penetration and associated framing for the filter system was shifted in plan.
 - d. A note was added assigning responsibility for the wind tie-downs of the filter system.
 - e. The framing for the smoke exhaust fans was revised to reflect the relocation of the fans.
5. **S502 - Pile Cap Sections and Details:** Two pile cap designations were added for uplift pile groups. Several pile thicknesses were increased from 48" to 50".
6. **S503 - Foundation Sections and Details:** Minor reinforcement detailing was revised.
7. **S504 - Foundation Sections and Details:** Minor reinforcement detailing was revised.
8. **S505 - Foundation Sections and Details:** Minor reinforcement detailing was revised.

9. **S506 - Foundation Sections and Details:**
 - a. Section F15/S506 was added showing the details of the mechanical access door penetrations at the loading dock.
 - b. Section F16/S506 was added showing the detail of the isolation joint required at the stair landing.
10. **S601 - Column Schedule:**
 - a. Bottom of base plate elevations at several braced frame columns were revised to match elevations of the pile caps given on the foundation plan.
 - b. The bottom of base plate at F.6/8.1 was revised to match new detail F16/S506.
11. **BA001 - BAS SYMBOLS & ABBREVIATIONS:** Response to commissioning agents VFD running at maximum speed alarm has been added to the general sequence of operation.
12. **BA101 - TYPICAL AIR HANDLING UNIT (AHU-3-1, AHU-3-2, AHU-3-3, AHU-3-4) CONTROL DIAGRAM:**
 - a. Response to commissioning agent the energy recovery wheels have been put on emergency power.
 - b. Response to commissioning agent VFD running at maximum speed alarm.
 - c. Response to commissioning agent exhaust air high humidity alarm has been added.
13. **BA102 - EXHAUST FANS (LEF-R-1, LEF-R-2, LEF-R-3, LEF-R-4, LEF-R-5, LEF-R-6) CONTROL DIAGRAM:**
 - a. Response to commissioning agent deleted six duct static pressure sensors two remain.
 - b. Response to commissioning agent Deleted one outside air bypass damper one outside air bypass damper remains.
 - c. Sequence of operation has been updated to reflect the above changes.
14. **BA103 - CHILLED WATER SYSTEMS CONTROL DIAGRAM:**
 - a. Response to commissioning agent a temperature sensor has been added in the bridge valve piping.
 - b. Response to commissioning agent a flow meter has been added to the chilled water piping.
 - c. Response to commissioning agent the chilled water pumps have been put on emergency power.
 - d. Sequence of operation has been updated to reflect the above changes.
15. **BA105 - MISCELLANEOUS CONTROL DIAGRAMS:** Unit serving main switch gear was shown as a FCU-1 Unit is served by EAC-1-1 . Sequence of operation has been updated to reflect change.
16. **BA109 MISCELLANEOUS CONTROL DIAGRAMS:** Fan coil units (FCU-3-1, FCU-3-5, FCU-3-7) serving stairs have been changed to cooling only. The sequence of operation and BAS points list have been updated to reflect changes.
17. **BA110 - BAS ARCHITECTURE DIAGRAM:** Response to commissioning agent item 131. BAS Architecture diagram has

- been updated to show un-interruptible power supplies for the energy recovery wheels control panel since they now have been put on emergency. power.
18. **BA115 - RADIOISOTOPE EXHAUST FAN (EF-R-1, EF-R-2) CONTROL DIAGRAM:** A standby fan has been added. In addition the sequence of operation and BAS points list as been updated to reflect change.
 19. **BA116 - MISCELLANEOUS CONTROL DIAGRAMS:**
 - a. Response to commissioning agent BAS monitoring of the emergency generator fuel oil tank low fuel oil alarm has been added.
 - b. Response to commissioning agent BAS monitoring of the domestic hot water heater has been added.
 - c. Response to commissioning agent BAS monitoring of the laboratory hot water heater has been added.
 20. **MS100 - Site Utility Plan:** Changed incoming HPS service to building from 4" to 6". Added note regarding HPS pipe expansion. Revised Vault A to be separate from existing vault, located directly beside it.
 21. **MS201 - Site Utility Detail Plans:** Changed incoming HPS service to building from 4" to 6". Revised Vault A to be two vaults located side by side. Added sump pump and discharge piping. Revised conduit route through Vault B. Added detail DWG 4.
 22. **MS202 - Site Utility Detail Plans:** Changed incoming HPS service to building from 4" to 6".
 23. **M100 - First Floor Plan - C.U.P.:** Clarified size of pump and fan motors to be replaced.
 24. **M104.1 - Roof Plan - South:** Added standby radioisotope fan and discharge sound attenuators. Revised layout to accommodate.
 25. **M201.1 - First Floor Plan - Northwest:** Revised pipe sizes to match rest of drawings. Added thermostat for CS/1-01. Added venting to acid cabinets in Room 134. Deleted flex duct to Glasswash supply diffuser. Relocated ductwork serving Corridor 111 from future space into corridor. Added fan coil to Stair #1. Added HWS/R isolation valves at riser.
 26. **M201.2 - First Floor Plan - West:** Added note to provide access panels in ceiling for Glasswash duct access. Relocated ductwork serving Corridor 111 from future space into corridor. Added fan coil to Stair #2. Revised sound attenuator tags/locations.
 27. **M201.3 - First Floor Plan - Southwest:** Added HWS/R isolation valves at riser. Revised sound attenuator tags/locations. Increased air to AV closet in Lecture Hall #102. Added missing thermostats to Lecture Hall #102.
 28. **M201.4 - First Floor Plan - Southeast:** Added HWS/R isolation valves at riser. Revised sound attenuator tags/locations. Added missing thermostats to Lecture Hall #102.

29. M201.5 - First Floor Plan - East: Added HWS/R isolation valves at riser. Revised sound attenuator tags/locations. Added missing duct/pipe sizes.
30. M201.6 - First Floor Plan - Northeast: Added HWS/R isolation valves at riser. Revised sound attenuator tags/locations. Added missing duct/pipe sizes. Added fan coil to Stair #3.
31. M202.1 - Second Floor Plan - Northwest: Added HWS/R isolation valves at riser. Added ductwork isolation dampers at riser. Added missing duct/pipe sizes. Relocated ductwork serving Corridor 229.1 from future space into corridor.
32. M202.2 - Second Floor Plan - West: Added HWS/R isolation valves at riser. Added ductwork isolation dampers at riser. Relocated ductwork serving Corridor 229.1 from future space into corridor. Revised sound attenuator tags/locations.
33. M202.3 - Second Floor Plan - Southwest: Added HWS/R isolation valves at riser. Added ductwork isolation dampers at riser. Added missing duct/pipe sizes. Relocated diffusers out from stair #2 into corridor.
34. M202.4 - Second Floor Plan - Southeast: Added HWS/R isolation valves at riser. Added ductwork isolation dampers at riser. Added missing duct/pipe sizes. Relocated CS/2-25 out from over inaccessible ceiling. Revised ductwork to Rooms #202 and #204. Revised sound attenuator tags/locations.
35. M202.5 - Second Floor Plan - East: Added HWS/R isolation valves at riser. Added ductwork isolation dampers at riser.
36. M202.6 - Second Floor Plan - Northeast: Added HWS/R isolation valves at riser. Added ductwork isolation dampers at riser. Revised sound attenuator tags/locations.
37. M203.1 - Third Floor Plan - Northwest: Added missing airflow measuring stations. Deleted HWS/R piping to FCU/3-1. Added missing duct/pipe sizes. Added missing CHWS/R and HWS/R piping valves shown on flow diagrams. Added missing damper shown on 1/M601.
38. M203.2 - Third Floor Plan - West: Added missing airflow measuring stations. Added missing duct/pipe sizes. Added missing CHWS/R and HWS/R piping valves shown on flow diagrams. Added missing damper shown on 1/M601. Revised sound attenuator tags/locations. Revised radioisotope hood ductwork. Deleted CHWS/R to Room #332.
39. M203.3 - Third Floor Plan - Southwest: Deleted HWS/R piping to FCU/3-5. Relocated diffusers out from stair #2 into corridor. Added missing duct/pipe sizes. Revised sound attenuator tags/locations. Relocated toilet room thermostats.
40. M203.4 - Third Floor Plan - Southeast: Added HWS/R isolation valves at riser. Added missing duct/pipe sizes. Relocated CS/3-25 out from over inaccessible ceiling.

- Revised ductwork to Rooms #302 and #304. Revised sound attenuator tags/locations. Deleted flex duct to NMR supply diffusers.
41. M203.5 - Third Floor Plan - East: Added HWS/R isolation valves at riser. Added missing duct/pipe sizes. Revised ductwork to Autoclave #333B. Revised sound attenuator tags/locations.
 42. M203.6 - Third Floor Plan - Northeast: Added HWS/R isolation valves at riser. Added missing duct/pipe sizes. Revised ductwork to Vestibule #343. Revised sound attenuator tags/locations. Deleted HWS/R piping to FCU/3-7.
 43. M301 - Chilled Water Flow Diagram: Revised to match floor plans.
 44. M302 - Steam and Condensate Flow Diagram: Changed incoming HPS service to building from 4" to 6".
 45. M303 - Hot Water Flow Diagram: Added fan coil units to first floor of each stair. Deleted heat from fan coil units at third floor of each stair.
 46. M304 - Airflow Diagram - Riser: Deleted "triangle" references to ductwork pressure class.
 47. M401 - Sections: Revised to match floor plans. Added missing damper shown on 1/M601.
 48. M402 - Sections: Added drawing.
 49. M502 - Details: 7/M502; deleted balance valve. 3/M502; added isolation valve.
 50. M601 - Schedules: Added standby radioisotope fan.
 51. M602 - Schedules: Revised fan coil unit schedule. Added (1) fan coil to each stair at first floor. Revised Sound attenuator schedule. Added radioisotope fan discharge and AHU attenuators.
 52. M603 - Schedules: Added general notes. Revised schedule to match floor plans.
 53. M604 - Schedules: Added general notes. Revised schedule to match floor plans.
 54. M605 - Schedules: Added general notes. Revised schedule to match floor plans.
 55. P201.1 - Partial First Floor Plan - Drainage and Service Piping: Plumbing pipes rerouted to avoid conflicts with mechanical chase.
 56. P201.2 - Partial First Floor Plan - Drainage and Service Piping: Added expansion loop (seismic) for gas piping.
 57. P201.5 - Partial First Floor Plan - Drainage and Service Piping: Added expansion loop (seismic) for gas piping.
 58. P203.1 - Partial Third Floor Plan - Drainage and Service Piping: Relocated floor drains to better suit mechanical equipment.
 59. P203.2 - Partial Third Floor Plan - Drainage and Service Piping: Relocated floor drains to better suit mechanical equipment.
 60. P203.5 - Partial Third Floor Plan - Drainage and Service Piping: Added expansion loop (Seismic) for gas piping.
 61. P502 - PLUMBING DETAILS: Added expansion loop detail

- (seismic) for gas piping.
62. E001 - Symbols and Abbreviates: Addition of AV provisions.
 63. E101 - Site Plan:
 - e. Revision for Aluminum base for feeders.
 - f. Concrete encasing for electrical primary feeders.
 64. E102 - Electrical Site Plan: Re-routing of primary electrical feed.
 65. E201 - Electrical Closet Plans:
 - g. Reference provided for housekeeping pads.
 - h. Circuit provided for fire alarm panel.
 - i. Size of transformer corrected.
 66. E301 - Single Line Diagram, Normal Power:
 - a. Revision for Aluminum base for feeders.
 - b. Feeder numbers added.
 - c. Size of primary fuse changed.
 - d. Breaker for ATS#1 changed.
 67. E302 - Single Line Diagram, Emergency Power:
 - a. Revision for Aluminum base for feeders.
 - b. Breaker for ATS#1 changed.
 68. E303 - Single Line Diagrams:
 - a. Revision for Aluminum base for feeders.
 - b. Mechanical unit feeds clarified.
 - c. Interlock provisions provided.
 69. E502 - Lighting Control Details: Clarification of dimming panel schedule.
 70. E503 - Lighting Control Details: Additional sensors added for lighting control schemes.
 71. E510 - Details:
 - a. Addition of AV provisions.
 - b. VAV damper shutdown provisions added.
 72. E601 - Luminaire Schedule: Clarification of fixture P1A.
 73. EL101.1 - First Floor Lighting Plan - South:
 - a. Reference to lighting control scheme for bathroom corrected.
 - b. Deletion of switches in lab 135.
 74. EL101.2 - First Floor Lighting Plan - North:
 75. Lighting outside firepump room added.
 76. Occupancy sensors added for offices 150 and 156.
 77. EL102.1 - Second Floor Lighting Plan - South: Reference to lighting control scheme for bathroom corrected.
 78. EP101.1 - First Floor Power Plan - South: Fan coil unit added to stairwell.
 79. EP101.2 - First Floor Power Plan - North: Fan coil units added to stairwells.
 80. EP103.1 - Third Floor Power Plan - South:
 - a. Control circuits added for energy recovery wheels.
 - b. VFD's added for EF-R-1 and EF-R-2.
 - c. Circuit added for VAV shutdown.
 81. EP103.2 - Third Floor Power Plan - North: Control circuits added for energy recovery wheels.
 82. EP104: Roof Floor Plan: Addition of EF-R-2.
 83. ES101.1 - First Floor Systems Plan - South:
 - a. Cable tray and conduit revision for seismic joint.

- b. Addition of AV provisions for auditorium.
- 84. ES102.1 - Second Floor Systems Plan - South: Cable tray and conduit revision for seismic joint.
- 85. ES103.1 - Third Floor Systems Plan - South:
 - a. Cable tray and conduit revision for seismic joint.
 - b. VAV damper shutdown provisions added.

SKETCHES:

N/A

+ + END OF ADDENDUM NO.3 + +

CANOPY TREES					
CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE/SPACING	SPECIFICATIONS
PLAO	platanus occidentalis	sycamore	4	6" cal, as shown	FWF
QUEV	quercus virginiana	live oak	4	6" cal, as shown	
ULMP	ulmus parvifolia	lacebark elm	5	4" cal, as shown	FWF, CON, matching, local nursery
UNDERSTORY TREES					
CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE/SPACING	SPECIFICATIONS
CERC	cercis canadensis	redbud	9	8' ht., as shown	FWF, matching
CORF	cornus florida	dogwood	6	8' ht., as shown	FWF, matching, local nursery
LAIN	lagerstroemia indica 'nochez'	nochez crepe myrtle	5	15' ht., as shown	FWF, matching. Do not top prune.
MAGV	magnolia virginiana	sweetbay magnolia	6	8' ht., as shown	FWF, matching
MCLC	magnolia grandiflora 'little gem'	little gem magnolia	6	8' ht., as shown	FWF, matching
OSMF	asmanthus x fortunei	fortune's asmanthus	4	6'-7', as shown	FWF, matching
SABP	sabal palmetto	sabal palm	51	12-18' ht, as shown	hurricane cut; bottom 3/4 boots remove
SHRUBS					
CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE/SPACING	SPECIFICATIONS
ACAM	aconthus mollis	bears breeches	9	7 gal., as shown	FWF
CAMJ	camellia japonica	camellia	11	15 gal., as shown	FWF, white blooms
FATJ	fatsia japonica	fatsia	13	7 gal., as shown	FWF, matching, specimen
CARJ	gardenia jasminoides 'august beauty'	august beauty gardenia	20	7 gal., as shown	FWF
ILLP	lillicium parviflorum	upright anise	28	15" ht., as shown	FWF
MUSP	musa x paradisiaca	banana plant	1	7 gal., as shown	FWF
PITT	pittosporum tobira	pittosporum	10	7 gal., as shown	FWF
PODM	podocarpus macrophylla	upright podocarpus	49	36" ht., as shown	FWF, trimmed to form hedge screen
RHGT	rhododendron indica 'george taber'	taber azalea	30	3 gal., as shown	FWF
RHIC	rhododendron indica 'gg gerbing'	gerbing azalea	22	3 gal., as shown	FWF
ROTB	rosemarinus prostrata	weeping rosemary	4	1 gal., 12" o.c.	FWF, local nursery, trimmed as hedge
VIBS	viburnum sandankwa	sandankwa viburnum	46	3 gal., as shown	FWF, consistent material
GROUND COVER / GRASSES / OTHER					
CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE/SPACING	SPECIFICATIONS
ACAP	agapanthus praecox	lily of the Nile	19	3 gal, 12" o.c.	FWF, consistent material
ALCM	allium 'globe master'	globe allium	35	1 gal, as shown	FWF, consistent material
ALLT	allium tuberosum	garlic chives	4	1 gal., 12" O.C.	FWF, consistent material
ARPC	artemesia 'pawis castle'	artemesia	8	3 gal., as shown	FWF, consistent material
ASDM	asparagus densiflorus meyerii	foxtail asparagus fern	47	1 gal, as shown	FWF, consistent material
CROL	crocosmia 'lucifer'	red crocosmia	11	1 gal, as shown	FWF, consistent material
CYRF	cyrtomium falcatum	halcy fern	40	3 gal., as shown	FWF, consistent material
DRYE	dryopteris erythrosora	autumn fern	10	1 gal., 12" O.C.	FWF, consistent material
ECPM	echinacea purpurea magnus	magnus echinacea	58	3 gal., as shown	FWF, consistent material
HECV	heuchera 'chocolate veil'	heuchera	3	1 gal., 12" O.C.	FWF, consistent material
HEMS	hemerocallis stella d'oro	stella d'oro daylily	87	1 gal., 12" O.C.	FWF, consistent material
IRIS	iris siberica	siberian iris	83	3 gal., as shown	FWF, consistent material
LCNC	lantana camara 'new gold'	new gold lantana	16	1 gal., as shown	FWF, consistent material
LESB	leucanthemum superbum 'becky'	becky daisy	17	3 gal., as shown	FWF, consistent material
LOML	lomandra longifolia	breeze grass	198	3 gal., 24" O.C.	FWF, consistent material
LYSN	lysimachia nummularia	creeping jenny	16	4" pot., 6" O.C.	FWF, consistent material
RUBC	rubus callicinoides	creeping raspberry	4	1 gal., 12" O.C.	FWF, consistent material
RUFG	rudbeckia fulgida goldstrum	black eyed susan	47	1 gal., as shown	FWF, consistent material
SDD	stenolophrum secundatum	St. Augustine	7802	S.F.	FWF, consistent material
TRAJ	trachelospermum jasminoides	confederate jasmine	84	1 gal.	FWF, consistent material, vigorous
TULV	tulbaghia violacea	society garlic	2	1 gal., 12" O.C.	FWF, consistent material
BULBS - (7 S.F.)					
	narcissus sp.	solid yellow daffodils	1/3	per distributor	late spring, tall variety
	narcissus paperwhite	paperwhites	1/6	per distributor	
	lycoris radiata	red lycoris	1/6	per distributor	red variety
	lecajum graylyte	giant snowdrops	1/3	per distributor	giant variety
POTS AT ENTRY TERRACE					
DITV	dianella tasmanica 'variegata'	variegated flax lily	9	6" pot - shade	FWF, consistent material
ASDM	asparagus densiflorus meyerii	foxtail asparagus fern	9	1 gal. - pt. shade	FWF, consistent material
SETP	setcreasea pallida	purple heart plant	9	1 gal. - sun	FWF, consistent material
MUSE	musa mourelli	red banana plant	3	3 gal. - ctr of pot	FWF, consistent material
POTS AT BACK TERRACE					
RUD	rudbeckia hirta 'autumn colors'	glorious daisy	6	1 gal.	FWF, consistent material
SETP	setcreasea pallida	purple heart plant	6	1 gal.	FWF, consistent material
CANT	canna tropicanna	tropicanna canna	2	3 gal. - ctr of pot	FWF, consistent material
SEDA	sedum ocre	goldmoss	16	4" pot - edges of pot	FWF, consistent material