

Contract Document Revisions - Addendum No. 1

SUBJECT

Centers For Ambulatory Care, Polytrauma and Blind  
Rehabilitation – Radiology Consolidation

PROJECT

18 September 2013

DATE

640-424

VA PROJECT NO.

## **Radiology Consolidation Package**

### **Volume 1a**

#### General

Sheet GI0.1.1 Updated index

#### Civil

Sheet C0.1.1 Modified Utility note 13, added requirement for restrained joints  
Added note under 'Earthwork Note'

Sheet C1.1.1 Updated foot print of Building 5

Sheet C1.1.2 Updated foot print of Building 5  
Added mechanical units

Sheet CD1.2.1 Modified demolition note 13 on existing irrigation systems  
Replaced demolition note 14, now discusses survey of Hospital columns  
Updated note 2.94 with reference to Mechanical plan sheet

Sheet CD1.2.2 Modified demolition note 13 on existing irrigation systems  
Replaced demolition note 14, not discusses survey of Hospital columns  
Updated note 2.94 with reference to Mechanical plan sheet

Sheet CS1.3.0 Revised column survey note to require that the survey work be done by a licensed  
surveyor to an accuracy of 0.02 feet

Sheet CS1.3.1 Added dimensions for fence around fire pump. Added gate to fence  
Added gate to fence around backflow preventer for Building 5  
Added two bollards near backflow preventer for Building 5

Sheet CS1.3.2 Updated foot print of Building 5  
Added dimensions for concrete pads  
Defined Curb transitions  
Added gate to fence around backflow preventer for Building 5  
Added two bollards near backflow preventer for Building 5  
Added begin/end locations for flush curb and vertical curb

Sheet CS1.4.1 Updated foot print of Building 5

Sheet CS1.4.2	Updated foot print of Building 5 Added concrete pad elevations
Sheet CS1.5.1	Updated pipe size for SD-53 Updated storm drain point of connection to include invert Added inverts to sanitary sewer storage tank
Sheet CS1.5.2	Changed location of storm drain pipe connecting from existing Hospital subdrain Updated foot print of Building 5 Added inverts to sanitary sewer storage tank
Sheet CS1.5.3	Updated storm drain point of connection
Sheet CS1.5.5	Correct Trench Elevation Added Trench Bedding detail
Sheet CS1.6.1	“Matchline” text removed
Sheet CS1.6.2	“Matchline” text removed
Sheet CS1.7.1	“Matchline” text removed
Sheet CS1.7.2	“Matchline” text removed
Sheet CS1.8.5	Detail 24: Added 4” thick concrete splashblock. Added gate elevation detail.
Sheet CS1.8.6	Detail 51: Updated accessible parking dimensions
Sheet CS1.8.7	Detail 51: Updated SS Inverts

## Landscape

Sheet LP1.1.0	Planting and Irrigation schedule clarifications
Sheet LP3.1.0	Soil cell layout adjustment.
Sheet LP4.1.0	Keynote clarifications
Sheet LP4.1.1	Soil cell layout adjustment.
Sheet LP5.1.0	Clarifications: Detail 14 (dowel requirements), detail 32, 34, 36 and 54.
Sheet LP5.1.1	Clarifications: Detail 20 (callout arrow locations, ex. jt, pin), Detail 22 (callout arrow locations, ex. jt., pin), 30, 54
Sheet LP7.1.0	Clarifications: planting design at biodetention
Sheet LP7.2.0	Clarifications: Detail 14, 16, 18, 42, 52 (Misc revisions and updates)
Sheet LI1.1.0	Legend revision – purple pipe deleted

Sheet LI1.2.0 Visual indicator added

## Structural

Sheet SF0.1.1 Revise general notes to indicate independent testing agency to be retained by the contractor rather than VA.  
Updated live load deflection limit at perimeter beam to 1/2"  
Revise first floor elevation to match civil

Sheet SF1.1.2 Detail 9 – Updated note on pipe sleeve at concrete wall/footing penetration.  
Detail 33 – Updated AHU anchorage detail to reflected expected AHU base condition.  
Detail 47 – New footing detail for site light pole and bollard.

Sheet SF1.3.1 Add Note 6 for skewed beam

Sheet SF2.1.0 Add note to clarify sloped trench slab

Sheet SF2.1.0A Update keynote 2.24 to clarify double slab  
Update architectural reference in keynote 2.39. Updated keynote 2.38.  
Add slab depression symbol at double slab for clarification

Sheet SF2.1.1A Updated size slab opening at shaft M-8  
Increased sizes of WF beam under MRI magnets  
Revised keynote 2.36 to reference new thru-rod anchorage detail at CT scan and MRI magnet  
Updated sheet note 11 to include new equipment anchorage schedule for new PET/MRI  
New keynote 2.51 to indicate approximate location of pipe alignment guides  
Clarify linework for exterior wall and slab edge at wall thickness transitions  
Add footing width dimension near gridlines AA-5.5

Sheet SF2.1.2A Graphically revise hatch extent for slab depression west of gridline GG to clearly show concrete curbs  
Delete edge of slab dimensions. Edge of slab to be dimensioned on the architectural drawings

Sheet SF2.1.3 Minor graphical revision to aluminum bar grating extent  
Delete keynote 2.15

Sheet SF2.1.4 Delete keynote 2.15

Sheet SF2.2.1 Details 33, 35, 36, & 48 – Clarify stringer to land beam connection. Revise beam sizes in detail 20 and 21.

Sheet SF2.2.2 Detail 8 – Revise edge of slab location. Clarify guardrail support channel to stringer channel connection

Sheet SF5.1.1 Detail 24 – Revise footing depth to 3'-0" deep under EBF as indicated on plan  
Detail 35 – Delete 2" dimension  
Detail 45 – Revise opening dimension to match architectural drawings  
Detail 48 – Add approximate depth of over excavation

Sheet SF5.1.2 Detail 9 – Revise hatch pattern for precast concrete. Minor detailing revision for better

construction sequencing

Sheet SF5.1.3	Detail 45 – Revise clear height of underground connector to match architectural drawings Detail 50 – Update underground connector slab thickness
Sheet SF5.1.4	Details 51 & 53 – Minor revisions to equipment anchorage schedules Detail 54 – New equipment anchorage schedule for PET/MRI Details 44 & 50 – Minor revisions to equipment anchorage details Detail 35 – New floor & wall mounted equipment anchorage detail Detail 36 – New thru-rod anchorage detail at WF beam
Sheet SF7.2.1	Detail 24 – Revise anchor bolt spacing Detail 36 – Add reference to architectural detail for information not shown
Sheet SF7.2.3	Detail 11 – New typical wall mounted equipment detail
Sheet SF7.3.1	Detail 11 – Minor revision to BRBF anchorage detail

## **Volume 1b**

### General

Sheet GI1.1.2	Updated Typical Mounting Heights and Configuration Diagrams
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### Architectural

Sheet A0.1.1	Updated Toilet and Shower Accessories
Sheet A0.1.2	Added pattern direction symbol
Sheet A0.2.5	Added door width to the exit load
Sheet A0.3.5	Added door width to the exit load, updated room names
Sheet A0.6.1	Updated Legend to include temporary pedestrian protection
Sheet A0.6.2	Updated Legend to include temporary pedestrian protection
Sheet A0.6.3	Updated Legend to include temporary pedestrian protection
Sheet A0.6.4	Updated Legend to include temporary pedestrian protection
Sheet A0.6.5	Updated Legend to include temporary pedestrian protection
Sheet A0.6.6	Updated Legend to include temporary pedestrian protection
Sheet A0.6.7	Updated Legend to include temporary pedestrian protection
Sheet A0.6.8	Updated Legend to include temporary pedestrian protection

Sheet A0.6.9	Updated Legend to include temporary pedestrian protection
Sheet A0.6.10	Updated Legend to include temporary pedestrian protection
Sheet A0.6.11	Updated Legend to include temporary pedestrian protection
Sheet A1.2.1	Added typical waterproofing detail below grade at new/existing slab/wall connections. Clarified waterproofing details, added detail callout for detail #40
Sheet AD2.1.0	Revised sheet note to refer to Sequence of Construction Activity drawings.
Sheet AD2.1.1	Revised sheet note to refer to Sequence of Construction Activity drawings.
Sheet AD3.1.0	Revised sheet note to refer to Sequence of Construction Activity drawings.
Sheet AD3.1.1	Revised sheet note to refer to Sequence of Construction Activity drawings.
Sheet AD5.1.1	Revised sheet note to refer to Sequence of Construction Activity drawings.
Sheet AE2.1.0A	Revised sheet note to refer to Sequence of Construction Activity drawing and refer to QH series for equipment plans Revised partition type at ST-8B Stairs from 1-hour to 2-hour rated. Added 2-hour partition to wall type legend Updated keynotes and wall tags
Sheet AE2.1.0B	Revised sheet note to refer to Sequence of Construction Activity drawings and refer to QH series for equipment plans Updated keynotes and wall tags
Sheet AE2.1.1	G1-304 room changed to CT EQUIP RM. G1-404 room changed to EQUIPMENT STORAGE. Enlarged CT EQUIP RM and revised door swing/locations to accommodate CT equipment. Shifted east and west partition of MRI EQUIP RM G1-106 to the east. This resulted in a smaller HAC G1-212 and Shaft and an enlarged Telecom T-1.7. Updated room names for G1-104 and G1-105A Deleted sink in G1-105A and G1-105A Casework added in MRI EQUIP RM G1-104.
Sheet AE2.1.1A	G1-304 room changed to CT EQUIP RM. G1-404 room changed to EQUIPMENT STORAGE. Enlarged CT EQUIP RM and revised door swing/locations to accommodate CT equipment. Shifted east and west partition of MRI EQUIP RM G1-106 to the east. This resulted in a smaller HAC G1-212 and Shaft and an enlarged Telecom T-1.7. Deleted sink G1-105A and G1-105C. PET MR in G1-105A. Casework added in G1-104. Revised partition type at ST-8 Stairs from 1-hour to 2-hour rated. Added 2-hour partition to wall type legend Updated room names for G1-104 and G1-105A Updated sheet notes and keynotes Tagged corner guards and edge guards
Sheet AE2.1.1B	Revised sheet note to refer to Sequence of Construction Activity drawings Updated sheet notes and keynotes Tagged corner guards and edge guards

Sheet AE2.1.2	Revised cryogen vent location above G1-105A based on new PET MR equipment, added detail call out for cryogen vent Updated sheet notes and keynotes Deleted concrete pavers Updated extent of roof walkway planks
Sheet AE2.1.3	Revised cryogen vent location above G1-105A based on new PET MR equipment Updated sheet notes and keynotes
Sheet AE3.1.0A	Revised partition type at ST-8B Stairs from 1-hour to 2-hour rated. Added 2-hour partition to wall type legend Updated sheet notes and keynotes
Sheet AE3.1.0B	Updated sheet notes
Sheet AE3.1.1	G1-304 room changed to CT EQUIP RM. G1-404 room changed to EQUIPMENT STORAGE. Enlarged CT EQUIP RM. Removed ceiling in CT EQUIP RM G1-304. Revised ceiling material due to change in program in EQUIPMENT STORAGE G1-404. Shifted east and west partition of MRI EQUIP RM G1-106 to the east. This resulted in a smaller HAC G1-212 and Shaft and an enlarged Telecom T-1.7. Updated light fixture location and quantity and diffuser location. Revised cable tray configuration due to new PET MR equipment in G1-104. Updated room names for G1-104 and G1-105A
Sheet AE3.1.1A	G1-304 room changed to CT EQUIP RM. G1-404 room changed to EQUIPMENT STORAGE. Enlarged CT EQUIP RM. Removed ceiling in CT EQUIP RM G1-304. Revised ceiling material due to change in program in EQUIPMENT STORAGE G1-404. Shifted east and west partition of MRI EQUIP RM G1-106 to the east. This resulted in a smaller HAC G1-212 and Shaft and an enlarged Telecom T-1.7. Updated light fixture location and quantity and diffuser location. Revised cable tray configuration due to new PET MR equipment in G1-104. Updated room names for G1-104 and G1-105A Revised partition type at ST-8 Stairs from 1-hour to 2-hour rated. Added 2-hour partition to wall type legend Updated sheet notes
Sheet AE3.1.1B	Updated sheet notes
Sheet AE3.1.2	Revised cryogen vent location above G1-105A based on new PET MR equipment Added detail call outs for composite metal panel and steel column
Sheet AE4.1.0	Updated key plan
Sheet AE4.1.3	Revised detail callouts on detail #48
Sheet AE4.1.4	Revised spandrel box ventilation notes.
Sheet AE4.2.1	Removed "TYP" from 34/AE5.1.4 callout, revised level callout on building section 54, graphically revise foundation to match structural, show PV supports in building section 51
Sheet AE4.3.1	Revised detail callout on detail #54
Sheet AE4.3.3	Updated keynotes, added keynotes to wall section 33
Sheet AE4.3.4	Added keynotes in wall sections #27 and #48

Sheet AE4.3.5	Updated keynotes and wall section
Sheet AE4.4.1	Add slotted channel framing grid under RF ceiling, revised slotted channel framing support, revised callouts for wall sections 30 and 54
Sheet AE5.1.1	Updated callout for bituminous membrane roofing system to have an average of R38 and graphically updated the light weight concrete Added joint material to detail #33
Sheet AE5.1.2	Updated callout for bituminous membrane roofing system to have an average of R38 and graphically updated the light weight concrete Added steel angle to match structure Updated guardrail details. Revised detail 27.
Sheet AE5.1.3	Updated callout for bituminous membrane roofing system to have an average of R38 and graphically updated the light weight concrete
Sheet AE5.1.4	Updated callout for bituminous membrane roofing system to have an average of R38 and graphically updated the light weight concrete Revised detail #34, added details #9 and #15, added callout in detail #44
Sheet AE5.1.5	Added notes to details #21 and #33
Sheet AE5.2.1	Clarified detail #24 to apply at terracotta locations.
Sheet AE5.2.2	Revised spandrel box ventilation detail 22. Renumber the previous detail 18 to 24.
Sheet AE5.3.1	Combined cryogen and steam vent roof penetration detail. Revised piping through roof deck detail. Added cryogen exhaust for PET MR detail. Updated callout for bituminous membrane roofing system to have an average of R38 and graphically updated the light weight concrete
Sheet AE6.1.1	Revised partition type at ST-8B and ST-8 Stairs from 1-hour to 2-hour rated Revised stair plans and section
Sheet AE6.1.2	Revised stair guardrail and handrail details. Added detail 30.
Sheet AE7.0.1	Updated sheet notes Added graphic ADA clearances on Enlarged plan 54.
Sheet AE7.1.1	Shifted east and west partition of MRI EQUIP RM G1-106 to the east. This resulted in a smaller HAC G1-212 and Shaft and an enlarged Telecom T-1.7. Removed sink in G1-105A and G1-105C. PET MR in G1-105A. Casework added in G1-104. Updated sheet notes and keynotes
Sheet AE7.1.2	G1-304 room changed to CT EQUIP RM. Enlarged CT EQUIP RM and revised door swing/locations to accommodate CT equipment. Took out ceiling in CT EQUIP RM G1-304. This resulted in new light fixture type. Revised lead shielding to 1/16" thick. Added 2-hour partition to wall type legend. Updated sheet notes and keynotes Added graphic ADA clearances
Sheet AE7.1.3	G1-404 room changed to EQUIPMENT STORAGE. Revised ceiling material due to change in program in EQUIPMENT STORAGE G1-404.

	Updated sheet notes and keynotes.
Sheet AE7.1.4	Updated sheet notes and keynotes. Referenced keynotes on enlarged plan 34.
Sheet AE7.1.5	Updated sheet notes
Sheet AE7.1.6	Updated sheet notes and keynotes Added graphic ADA clearances Updated wall types in G1-101B Added dimensions of the sinks in G1-103
Sheet AE7.1.7	Updated sheet notes Added ceiling height in G1-101
Sheet AE8.0.1	Updated elevations for clarity Update elevation #39 to reflect revised finishes Updated casework under sink Updated keynotes
Sheet AE8.0.2	Added dimensions for counter support in elevations #21 and #51
Sheet AE8.0.3	Updated elevations for clarity
Sheet AE8.0.4	Updated elevations for clarity Revised elevation #35 to reflect door shift and added push plate Updated keynotes
Sheet AE8.0.5	Revised wall protection system to accommodate door revisions Added nurse call devices. Revised keynote 8.25
Sheet AE8.0.6	Updated elevations for clarity Added nurse call devices
Sheet AE8.0.7	Updated elevations for clarity and updated keynotes Added nurse call devices
Sheet AE8.0.8	Updated elevations for clarity Revised interior elevations for G1-304 CT EQUIP RM and G1-404 EQUIPMENT STORAGE. Added nurse call devices
Sheet AE8.0.9	Added nurse call devices, dimensions and revised line type of equipment on elevation 27, 29 and 51. C Updated casework under sink
Sheet AE8.0.10	Updated elevations for clarity Revised elevations for G1-105A per new PET MR equipment. Deleted sink, soap and paper towel dispenser in G1-105A and G1-105C. Updated casework to reflect the deletion of the sink. Added nurse call devices Updated casework under sink Updated keynotes
Sheet AE8.0.11	Updated elevations for clarity Added casework elevation for G1-104 per new PET MR equipment.

	Updated casework under sink Updated keynotes
Sheet AE8.0.12	Updated elevations for clarity Updated handicapped accessible locker count in elevation #50 Updated casework under sink
Sheet AE8.6.1	Updated corner guards, edge guard and wall guard details
Sheet AE8.7.1	Added base cabinet type to the modular casework schedule. Added a new height and depth to Table No 1. Added new additional features to Table No 3.
Sheet AE8.7.2	Added Modular Casework Base Cabinet and Wall Hung Cabinet Details Renumbered details for Modular Casework End Panel Detail at Open Kneespace and Modular Casework Countertop Detail at Base Cabinet Updated Modular Casework Knee Space Bracket Detail Updated Modular Casework Anchorage
Sheet AE8.7.3	Updated custom casework plans and elevations, updated keynotes.
Sheet AE8.7.4	Updated F1-114A Reception plan
Sheet AE8.7.5	Updated Main Reception Desk sections, Staff Work Area Desk sections and Clean Linen Staging Desk section
Sheet AE9.0.1	Updated Room Finish Schedule – Level B and Material Abbreviations
Sheet AE9.0.2	Updated Room Finish Schedule – Level 1 and Material Abbreviations
Sheet AE9.1.0A	Updated floor finishes and the Floor Finish Legend
Sheet AE9.1.0B	Update Floor Finish Legend
Sheet AE9.1.1A	G1-304 room changed to CT EQUIP RM. G1-404 room changed to EQUIPMENT STORAGE. Enlarged CT EQUIP RM and revised door swing/locations to accommodate CT equipment. Revised finishes for G1-404 EQUIPMENT STORAGE, ST-8 and G1-101B. Deleted sink in G1-105A and G1-105C. Deleted keynote related to floor finish and the sink cabinet. Deleted keynote in CLEAN UTILITY RM G1-102 AND SOILED UTILITY RM G1-103 Update Floor Finish Legend and Finish Legend
Sheet AE9.1.1B	Update Floor Finish Legend
Sheet AE9.2.1	Revised metal stud framing to 16 gauge minimum Revised partition types
Sheet AE9.2.2	Revised Additional Component Matrix Added max height to Detail #54
Sheet AE9.2.3	Updated Detail #54
Sheet AE9.2.5	Updated Detail #54
Sheet AE9.3.1	Updated Door Schedule and sheet notes

Sheet AE9.4.1	Update vision panel in doors, updated Detail #18K and #18L
Sheet AE9.4.2	Remove details #9 and #10 Updated details #21 and #33
Sheet AE9.5.4	Updated details #18, #28, #30 and #42
Sheet AE9.5.5	Updated detail #51
Sheet AE9.5.6	Added detail 38
Sheet AE9.6.2	Updated details #32, #38, #52 and #54
Sheet AE9.7.1	Updated Interior Glazing Types

## Signage

Sheet AG1.1.0A	Add fire extinguisher flag, sign location number CB019, to room GB-201.
Sheet AG1.1.1A	Sign location plan updated with current floor plan provided by Architect to show room name changes to rooms G1-105A, G1-104, G1-304 and G1-404

## Equipment

Sheet QH2.1.0A	Updated sheet notes
Sheet QH2.1.0B	Updated sheet notes
Sheet QH2.1.1A	Enlarged CT EQUIP RM and revised door swing/locations to accommodate CT equipment. Updated equipment in G1-304, G1-404, G1-104, G1-105A and G1-105B. Relocate equipment within G1-106. Updated room names for G1-104, G1-105A, G1-304 and G1-404 Updated sheet notes
Sheet QH2.1.1B	Updated sheet notes
Sheet QH7.1.1	Updated coat conveyor in GB-108C to CC item. Updated sheet notes.
Sheet QH7.1.2	Updated sheet notes
Sheet QH7.1.3	Updated sheet notes Updated room name G1-404 Added SYME300A in G1-107
Sheet QH7.1.4	Added CT equipment in G1-304, G1-305 and G1-307 and revised medical equipment layout. Updated equipment G1-104, G1-105, G1-105A, G1-105B and T-1.7. Relocate equipment within G1-106. Updated sheet notes and keynotes.
Sheet QH7.1.5	Updated sheet notes

Added SYME302A to G1-102, added MOBP302B to G1-101B, added TELE302A to G1-100, added REWA300 to G1-100D

Sheet QH7.1.6 Updated sheet notes

Sheet QH7.1.7 Updated sheet notes

Sheet QH7.1.8 Updated sheet notes

## Volume 2a

### General

Sheet GI0.1.2 Updated Index

### Mechanical

Sheet MH1.3.1A Added new Zone for CT Equipment Room. Added notes for oxygen alarms and monitors

Sheet MH2.1.0A Added Keynote for security bar frames on plan. Revised duct routing in mechanical room M-0.4. Added duct sizes notation.

Sheet MH2.1.0B Revised return ductwork routing

Sheet MH2.1.1.1 Revised Air Balance Plan to account for new airflows in CT Equipment Room.

Sheet MH2.1.1A Revised supply and exhaust ductwork, added TU-17-034, added SS-4 in CT Equipment Room and eliminated fire smoke damper, FSD-4. Added notation of duct sizes.

Sheet MH2.1.1B Eliminated fire smoke damper, FSD-4

Sheet MH2.1.2 Added SS-4 outdoor unit and noted MRI Chiller to be OFCI. Added Keynotes M2.039 and M2.094.

Sheet MH3.1.1 Revised mechanical sections to show mechanical and plumbing piping. Piping is shown light

Sheet MH3.1.3 Revised Air Distribution Device numbers on Keynotes

Sheet MH5.1.1 Revised note to indicate to set relief valve at 50 psig

Sheet MH5.1.2 Revised Detail 9/MH5.1.2 per Structural Engineer mark-ups. Add details 18,30 & 39. Revised note on detail 51/MH5.1.2.

Sheet MH5.1.3 Added detail 36 HVAC Pipe Sleeve Detail. Revised note on detail 15/MH5.1.3.

Sheet MH5.1.4 Revised detail 39 Condensate Piping Connections. Revised detail 15 and 51. Added detail 21.

Sheet MH5.1.7 Added general notes to alignment guide detail 54

Sheet MH5.1.8	Added detail 22 Room G1-105A Cryogen Vent detail and detail 30 Cryogen Quench Vent Notes. Revised note on detail 18, 39 and 51.
Sheet MH5.1.9	Added detail 18 CCU4 MRI Piping Schematic
Sheet MH6.1.1	Revised Exhaust Fan EF-92 static pressure to 0.25
Sheet MH6.1.2	Added SS-4 to Split System and Heat Pump Schedule, revised capacities for new equipment heat loads. Revised steam pressure reducing valve schedule.
Sheet MH6.1.3	Revised Supply Air Device Schedule and Linear Air Device Schedule.
Sheet MH6.1.4	Added TU-017-034 to Single Duct Terminal Unit Schedule
Sheet MH7.1.2	Revised exhaust duct fittings on detail 22.
Sheet MP2.1.0A	Revised HHW piping for new shaft alignment. Revised alignment guide detail references 27/MH5.1.3 and 54/MH5.1.7.
Sheet MP2.1.1A	Added refrigerant piping for SS-4, revised MRI CHW panel piping
Sheet MP2.1.2	Added refrigerant piping and outdoor unit for SS-4 to Roof Plan. Added Keynotes to Air Cooled Chillers. Added Keynotes M2.094, M2.095 and M2.099.
Sheet MP7.1.2	Revised Steam Piping Schematic

## Plumbing

Sheet PP2.1.1A	Removed domestic water piping serving sinks in MRI Scanning Rooms G1-105A & G1-105C. Revised plumbing fixture types in all patient toilets.
Sheet PP2.1.1B	Revised water closets in PT Waiting Toilet Rooms F1-144C & F1-144D to plumbing fixture designation P-133 (hard-wired, 120V connection)
Sheet PP2.3.1	Removed waste piping serving sinks in MRI Scanning Rooms G1-105A & G1-105C. Revised plumbing fixture types.
Sheet PP3.1.1	Removed domestic water piping serving sinks in MRI Scanning Rooms G1-105A & G1-105C. Revised plumbing fixture types.
Sheet PP5.1.1	Revised Plumbing Fixture Schedule for changes to plumbing fixture selections
Sheet PL2.1-A	Removed waste piping serving sinks in MRI Scanning Rooms G1-105A & G1-105C.
Sheet PL2.1.0A	Revised waste and vent connection serving service sink P-502 in HAC G1-212
Sheet PL2.1.1A	Added condensate piping for SS-4. Removed vent piping serving sinks in MRI Scanning Rooms G1-105A & G1-105C. Revised waterclosets to plumbing fixture designation P-133 (hard-wired, 120V connection) and revised lavatories to plumbing fixture designation P-418. (hard-wired, 120V connection)

Sheet PL2.1.1B Revised water closets in PT Waiting Toilet Rooms F1-144C & F1-144D to plumbing fixture designation P-133 (hard-wired, 120V connection)

## Fire Protection

Sheet FX2.0.0 Water Supply Information was revised to clarify using site water with 10% safety factor  
Clarified requirement that sprinkler heads must be FM-Approved.  
Provided coordination note to install automatic sprinklers at center of tile.

Sheet FX2.0.1 Added rooftop mechanical room schematic for sprinkler installation

Sheet FX2.1.0 G1-304 room changed to CT EQUIP RM. G1-404 room changed to EQUIPMENT STORAGE  
Revised note to specify copper piping in MRI Suite

## **Volume 2b**

### Electrical

Sheet ES0.1.0 Added special receptacle symbol.

Sheet ES1.1.1 Added sheet note 1 and 2; Temporary feeder cabling and routing revised/ clarified; Revised keynotes 1.12, 1.13, 1.15, 1.16 & 1.17.

Sheet ES1.1.2 Clarified new / existing duct banks and added keynotes. Added Sheet Note 2; Revised keynotes 1.07 & 1.16; Added Keynotes 1.18 & 1.19.

Sheet ES1.2.2 Revised Keynote 1.07.

Sheet ES2.0.0 Clarified new / existing feeders on plan. Added keynotes 1.11 & 1.12.

Sheet ES2.0.1 Added existing electrical equipment designations on plan. Revised keynote 1.03.

Sheet EL1.0.0 Added light fixture type GA6 into luminaire schedule.

Sheet EL1.0.3 Revised luminaire schedule.

Sheet EL1.1.0 Added note on detail 24.

Sheet EL2.1.0A Added tags for panels and LCP's. Corrected homerun panel designations. Revised keynote 2.05.

Sheet EL2.1.0B Added tags for panels and LCP's. Deleted extraneous elevation callouts.

Sheet EL2.1.1A Revised luminaires at CT Equipment room. Added circuits for MRI lighting. Revised locations of luminaire and light switch in MRI Equip Rm G1-106; Clarified circuit designations in Clean Utility G1-102, Soiled Utility G1-103, HAC G1-303, and Equipment Storage G1-404. Added two (2) GS1 luminaire to Telecom T-1.7; Added keynotes 2.17 and 2.18. Revised keynote 2.02 Correct keynote designation and LV switch location in Elect

Room E-1.7.

- Sheet EL2.1.1B Added keynote 2.19. Referenced keynote 2.19 on floor plan
- Sheet EL2.1.2 Deleted extraneous elevation callout. Added Keynote 2.02 reference to plan
- Sheet EP1.0.0 Added CT scan equipment tag CAVE500 (VEO PDU) & CAVE500B (VEO UPS) to equipment schedule.
- Sheet EP2.1.0A Revised plumbing fixtures branch circuit. Revised keynote 2.04, 2.05 & 2.07.
- Sheet EP2.1.1 Added Elect Rm E-1.2 callout on plan.
- Sheet EP2.1.1A Revised utility receptacles location at CT Equipment room; Added power branch circuit for CT Equipment room split system SS-4A indoor unit; Revised keynotes; Deleted power associated with deleted sinks at G1-105A and G1-105C; Deleted MRI lighting circuits from this sheet; Revised circuit number to MRI2's MRU; Relocated outlets in MRI Equip Rm G1-106 to match new wall locations;
- Deleted receptacle outlets for G.E. battery charger in MRI Equip Rm G1-104. Added power connection to oxygen monitor for MRI G1-105C.
- Added branch circuit for plumbing fixtures.  
Deleted extraneous elevation callout.  
Deleted erroneous push plate at south stairwell.  
Deleted control wiring information.  
Relocated Keynote 2.18 to Telecom Room T-1.7 call-out. Revised Keynotes 2.08, 2.11, 2.12, 2.19, & 2.21 thru 2.25.
- Sheet EP2.1.1B Added Panel CL11A3 tag on floor plan. Deleted keynote 2.01 from existing electrical room E1-1. Added Panel QL11A on floor plan. Revised keynote 2.06 & 2.11. Added branch circuit for plumbing fixtures.
- Sheet EP2.1.2 Added power branch circuit for CT Equipment room split system SS-4B outdoor unit; Added MRI pull box at Chiller location. Removed extraneous timer switch at south side.
- Sheet EP4.1.1 Detail 18 – Revised receptacle locations, added receptacles, revised branch circuit numbers, added fourplex outlet for MRI equipment and relocated outlets affected by wall movement.
- Detail 30 – Added power branch circuits for VEO PDU units tagged CAVE500 and CAVE500B.
- Detail 14 – Added mini power centers to serve VEO equipment;  
Detail 45 – corrected detail title.  
Details 45 & 46 – clarified bus plug-ins.  
Detail 48 – added new electrical room enlarged plan.  
Revised Keynote 4.01.
- Sheet EP4.1.2 Corrected detail 51 printing error to show work at main electrical room service 2.
- Sheet EP4.2.2 Added keynote 4.03. Referenced keynote 4.03 in detail 37.
- Sheet EP4.2.4 Added keynote 4.03. Referenced keynote 4.03 in detail 37

- Sheet EP4.3.1 Revised MRI drawings to reflect Siemens' MRI equipment requirements.  
Deleted Type GM2 luminaires and associated dimmer switch from casework on detail 40.  
Revised keynotes 4.01, 4.02, 4.03, 4.04, 4.05, 4.06, 4.07, 4.10, 4.11 and 4.12.  
Added keynotes 4.13, 4.14 and 4.15.
- Sheet EP4.3.2 Revised MRI schedules to reflect Siemens' MRI equipment requirements.  
Added sheet notes and keynotes.
- Sheet EP4.3.3 Relocated equipment and revised conduit and cable tray layouts resulting from the relocation of G.E.'s brain wave cabinet and revised wall locations.  
Deleted Type GM2 luminaires and associated dimmer switch from casework on detail 22.  
Revised keynotes 4.01, 4.04, 4.05 and 4.06. Added keynote 4.13.
- Sheet EP4.3.4 Revised detail references on MRI schedules.
- Sheet EP4.3.5 Revised and deleted details.
- Sheet EP4.4.1 Added sheet notes 2 & 3. Revise Keynote 4.01.
- Sheet EP4.4.2 Added sheet notes 2 & 3.
- Sheet EP4.4.3 Clarified switchboard A designation.
- Sheet EP4.4.4 Clarified location of fire pump / controller. Added keynote references on detail 51 and 54.  
Revised Keynotes 4.01, 4.05 & 4.07.
- Sheet EP5.1.0 Revised notation on one line diagram to show current SS-2 site distribution.
- Sheet EP5.1.1 Temporary feeder cabling revised / clarified. Added sheet note 2. Revised keynotes 5.04 & 5.05. Added keynotes 5.07, 5.08 & 5.09.
- Sheet EP5.1.2 Temporary feeder cabling revised / clarified.  
Revised Keynote 5.03.  
Added Keynotes 5.04, 5.05 & 5.06.
- Sheet EP5.1.3 Revised single line diagram to reflect new equipment for CT-2 VEO system; Deleted Chiller CCU4 service. Added keynotes 5.23 thru 5.30.  
Clarified disconnect switch sizing.  
Temporary feeder cabling revised / clarified.  
Removed control wiring notations.  
Revised Keynotes 5.04, 5.09, 5.10, 5.14, 5.15 & 5.20.
- Sheet EP5.1.4 Added keynote 5.03. Referenced new keynote on single line
- Sheet EP5.1.5 Revised single line diagram to reflect new equipment for CT-1 VEO system; Revised one line diagram to incorporate Siemens' requirements;  
Added Keynotes 5.09 thru 5.15

Temporary feeder cabling revised / clarified.  
Revised keynotes 5.02, 5.03, 5.06, 5.07 & 5.08.

Sheet EP5.1.6	Added keynote 5.06 and 5.07. Referenced keynote on single line. Added schedule for Panel L. Revised Keynote 5.01 and 5.03.
Sheet EP5.2.1	Revised power riser diagram to match one line diagrams
Sheet EP7.1.1	Revised panel schedules
Sheet EP7.2.1	Revised panel schedules
Sheet EP7.2.2	Revised panel schedules
Sheet EP7.2.3	Revised panel schedules
Sheet EP7.3.1	Revised panel schedules
Sheet EP7.3.2	Revised Distribution Switchboard QHD1001A1; Revised Distribution Switchboard QHD1002A1; Added panel schedules QLD12 and QLD13; Revised X-ray panel schedules
Sheet EP7.3.3	Revised panel schedules
Sheet EP7.4.1	Revised panel schedules.

## Fire Alarm

Sheet F0.1.0	Revised symbols list. Revised fire alarm system loop schedule
Sheet FA3.1.0A	Revised candela rating in Bed Storage GB-200. Revised candela rating along corridors to 15cd.
Sheet FA3.1.0B	Revised candela rating along corridors to 15cd. Added a sheet note 14.
Sheet FA3.1.1A	Revised fire alarm device locations to match latest background. Revised candela rating along corridors to 15cd.
Sheet FA3.1.1B	Added a strobe to Reception F1-144A. Added strobes to Workstation F1-284. Added a strobe in Learning Center F1-254. Deleted duct detector and relay module. Added sheet note 14. Revise keynote 3.12.
Sheet FA3.1.2	Deleted manual pull station and associated wiring
Sheet FA5.1.1	Deleted a manual pull station from the fire alarm building riser diagram.
Sheet FA6.1.1	Revised the description for the interposing relay.

## Telecom

Sheet TN0.0.2	Added symbol for CT Scanner Outlet an Patient Camera Outlet. Added corresponding pathway info, cable type and installation comments.
Sheet TN1.0.1	Revised conduit and pull box location inside Building 100. Added keynote.
Sheet TN2.1.1A	Added room call out for new CT Equipment Room. Added "CT" outlets next to CT console in control room. Removed standard outlet and replaced with Patient Camera Outlet in MRI scanning rooms.
Sheet TN3.1.0B	Adjusted location of conduits and pullbox to avoid mechanical piping
Sheet TN4.0.1	Added enlarged room plan and cabinet elevation for CT Equipment Room. Also added equipment cabinet in equipment list. Added equipment cabinet to enlarged IDF T-1.7 and rearranged other equipment accordingly. Located VA provided MRI PET Syngo Servers in new equipment cabinet.

## Security

Sheet TY0.0.1	Added general note to refer to electrical drawings
Sheet TY4.0.1	Revised key notes to clarify location of Fire Alarm System connection. Revised detail and notes on detail 33 & 51.
Sheet TY5.0.1	Added sheet note to refer to electrical drawings
Sheet TY5.0.2	Added text clarifying the back box. Added symbol for CT Scanner Outlet and Patient Camera Outlet. Added corresponding pathway info, cable type and installation comments.

## Shielding

Sheet XS1.0.1B	Revised room name to match architectural plan.
Sheet XS1.0.2B	Deleted floor level offset. Added reference grid.
Sheet XS1.1.0B	Dimensional changes to rear wall
Sheet XS1.2.0B	Changes to plan to reflect iso changes and changes in MR vendor. Revised equipment cabinet and dimensions.
Sheet XS1.3.0B	Dimensional changes to steel to reflect equipment location change.
Sheet XS1.4.0B	Dimensional changes for steel. Revised ceiling cryogen vent and support structure.
Sheet XS2.0.0B	Elevation changes for shield height, filters, etc..
Sheet XS2.1.0B	Dimensional changes.

Sheet XS3.1.0 Changes in accessories, addition of Siemens Seismic anchor details, and cryogen detail.  
Deleted Key Plan.

Sheet XS3.1.1 Added new sheet.

## Specification Revisions

Section 00 01 15.02	Updated list of drawings.
Section 01 43 39.13	Added paragraph 1.6. C for obtaining mockup approval.
Section 01 81 11.02	Deleted 1.5 D.4(c) ; unrelated work
Section 02 41 00	Deleted 1.2.E and F; unrelated work
Section 02 41 19	Revised 1.2 C to correct section numbers
Section 02 82 13.13	Revised 1.1 C.6
Section 03 30 00	Revised Table I - Cement And Water Factors For Concrete in 2.3 Concrete Mixes Revised 3.15. A to qualify concrete as light-weight
Section 03 41 00	Added Waterproofing in paragraphs 1.1. D and in articles 2.6. A-D, 3.5 A-C
Section 04 25 13.13	Added Anchorage Design in 1.8. D.1-2
Section 04 72 10	Revised paragraph D in 1.3 Quality Assurance Revised 1.6. A to clarify warranty language
Section 05 12 00	Deleted 1.2. F; unrelated work
Section 05 50 00	Added 1.1.A.5-6 and 2.10 and 2.11 for counter and bench support brackets
Section 07 21 13	Revised 2.2. B, C, 2.3. A, B, and 2.4. B for mineral fiber type I
Section 07 27 13	Revised 1.1.B.3 to correct referenced section numbers
Section 07 42 13.16	Revised Metal plate wall panels part 2.4 Finishes
Section 07 52 16.13	Revised 1.5. C. 1 to deleted unrelated section Deleted 2.4.B, 3.8.C,
Section 08 11 13	Added paragraph 2.3. A.7 for terminated door stops.
Section 08 14 00	Revised 1.2. I-J to clarify related sections
Section 08 17 10	Revised door hardware group HW-12A
Section 08 35 13.23	Revised 1.3.I to remove unrelated section Added 2.1.I.2; for vision panel

Section 08 44 13	Deleted 1.2. L; unrelated work Revised 2.3.G.1 to clarify referenced section number
Section 08 71 00	Revised 1.4.A.2 to clarify number of years for warranty Deleted door hardware group HW-8G Revised door hardware groups HW-SH-3J and HW-SH-9
Section 08 71 13	Revised 1.4. A to clarify warranty language
Section 08 71 13.11	Revised 1.4. A to clarify warranty language
Section 08 80 00	Revised 2.2.E to correct referenced section name and number
Section 09 06 00	Added WSF-8 to 2.7.F Table. Deleted RST-1 in 2.7.E Added 2.7.I Static-control resilient flooring Added 2.7.J High-build glazed coatings Revised 2.8.G to wood lockers Revised Table's title in 2.6.C, E and 2.11.A Revised 3.1 Finish Schedules Terms and Abbreviations
Section 09 22 16	Revised minimum thickness for metal stud framing in paragraph 2.2.A.1 and 2.3.B.1
Section 09 30 13	Revised 3.8.A for porcelain tile installation
Section 09 51 00	Added 2.1.A.3. a-b for wire hangers and bracing wires in MRI rooms
Section 09 54 26	Revised 1.9. A to clarify warranty language
Section 09 65 13	Revised 1.1.A, 1.3.B.2 and 1.3.D.2-3 ; unrelated work Deleted 1.6.B. 1-3, 1.6.C, 2.3 – 2.6, 3.3.H, 3.5-3.6, 3.7.B, C; unrelated work Revised 3.3. B, C, F, and G to clarify leveling preparation Revised 3.7.E to clarify cleaning and protection
Section 09 65 36	New section added
Section 09 68 00	Revised 1.7. A to clarify warranty language
Section 09 91 00	Revised 3.13.A.2 Identity Painting Schedule
Section 09 96 54	Revised 1.1.A.3 to correct section title. 2.2.A.1 and 2.3.A to have three-coat finish
Section 09 96 59	New section added
Section 10 14 00	Sign schedule updated to reflect revised room names for G1-304 and G1-404.
Section 10 21 13	Revised 1.1.A and add paragraph 2.1.D to add shower doors
Section 10 26 00	Revised 2.3.A.1.(a) and 2.5.A.1 to specify height for corner and edge guards
Section 11 23 43	Added Hanging Garment Conveyors

Section 12 24 00	Revised 1.6. A to clarify warranty language
Section 12 48 13	Added 1.2.D and 3.2.G for related work of transition strips Revised 1.4.D and 3.1.A for the mat's shop drawing and installation
Section 13 05 41	Revised 1.6.C.1, 3-5 to clarify seismic restraint exceptions
Section 13 49 00	Revised 1.4.A to clarify radiation testing practice
Section 13 49 27	Revised 2.3.B.8.(f) to specify PET/MR shield Revised 2.3.C.2 to clarify radiation shielding for windows:
Section 21 05 12	New Section added
Section 21 13 13	Water Supply Information was revised to clarify using site water with 10% safety factor Revised note to specify copper piping in MRI Suite Removed outdated language pertaining to sprinkler design area
Section 21 30 00	New Section added
Section 22 05 11	Deleted references to boilers in Electric Motors, Motor Control, Control Wiring article. Added subparagraph to Equipment and Materials Identification article. Revised paragraph for riser clamps in Pipe and Equipment Supports and Restraints article. Revised applications for sleeves, and added subparagraphs in Pipe Penetrations article.
Section 22 13 00	Deleted paragraph in Waterproofing article.
Section 22 14 00	Deleted Waterproofing Article.
Section 22 40 00	Revised plumbing fixture descriptions for urinals. Added and deleted water closet and lavatory descriptions.
Section 23 05 11	Revised Electric Motors article and added subparagraphs. Added subparagraph to Equipment and Materials Identification article. Revised paragraph for riser clamps in Pipe and Equipment Supports and Restraints article. Revised applications for sleeves, and added subparagraphs in Pipe Penetrations article.
Section 23 07 11	Revised Pipe Insulation Schedule. Added vent discharge piping from PRV, atmospheric condensate receiver, and flash tanks to list of items to receive protective insulation to prevent personnel injury.
Section 23 09 23	Revised Description article. Add articles for MRI room oxygen monitor.
Section 23 21 13	Related Work paragraph revised.
Section 23 31 00	Revised Flexible Duct Connections article.
Section 23 64 00	Related Work paragraph deleted. Delivery, Storage and Handling article subparagraph deleted. Add Quality Assurance article. Add Warranty article. Revised Self-Contained, Air-Cooled Chiller article.
Section 23 74 13	Revised subparagraph for plenum fan drives in Rooftop Air-Handling Units article.

Section 26 05 33	Added 2.1.B.2, 2.1.C.2, 3.2.C.13; Aluminum conduit and fittings
Section 26 42 00	New Section Added
Section 27 11 00	Section 2.7 was added to specify requirements of IT equipment cabinet for use in the CT equipment room and IDF T-1.7 for the MRI Servers
Section 27 15 00	Section 1.3 was added to define "F/UTP" shielded cable Section 2.2B was added to specify requirements for shielded cabling Section 2.4C was added to specify requirements for shielded cabling patch panel Section 2.5B was added to specify requirements for shielded cabling connectors
Section 28 00 00	Updated section 1.4/B/2 Revised 1.5/A/6 to AutoCAD 2012 Corrected spelling at 1.7
Section 28 13 00	Updated products based on campus standards
<del>Section 32 05 20</del>	The landscape concrete content in this section has been merged with Section 32 05 23 and this section has been deleted
Section 32 05 23	Merged landscape concrete from Section 32 05 20, Cement And Concrete For Landscaping Exterior Improvements
Section 32 14 13	Deleted 1.1.B.2; unrelated work
Section 32 84 00	Revised 1.1.A to include an existing irrigation system in adjacent project Add 2.2.A for valve isolation Deleted Butterfly valves in 2.2.B.2 and C.3 Revised 2.8.E emitter drip line Added 1.4.B.10, 2.9; drip indicator system
Section 32 90 00	Deleted Deer Protection from 1.6 Project/Site Conditions Deleted 2.26 Antidesiccant Added 1.5.A.10 and 2.27; Fiberglass Planter
Section 32 94 53	Revised 2.1.A to clarify installation direction for Fiberglass-reinforced polypropylene structures
Section 33 30 00	Deleted A.1. Vitrified Clay and A.3 Ductile Iron Pipe from 2.1 Piping
Section 33 40 00	Revised A.2.b(3) in 2.1 Piping
Section 33 51 00	Natural-Gas Distribution has been deleted; work not in scope
Section 33 63 00	Revised Definitions article. Related Work paragraph deleted. Deleted all references to direct-bury piping. Revised spacing requirement for roller supports.

## Medical Equipment Cutsheets that have been deleted

Room G1-104	UNRI500G, UNRI500H, UNRI500J, UNRI500L, UNRI500M, UNRI500P, UNRI500Z
Room G1-105A	UNRI500, UNRI500A, UNRI500AB, UNRI500B, UNRI500D, UNRI500I, UNRI500K, UNRI500N, UNRI500Q, UNRI500X
Room G1-105B	UNRI500O, UNRI500R, UNRI500S, UNRI500T, UNRI500U, UNRI500V, UNRI500W, UNRI500Y

## For Reference Only

VAPA Radiology and Basement Expanded Room by Room Report

Siemens Biograph mMR Drawings

2013-0918 VAPA Radiology Cutsheets A-H

2013-0918 VAPA Radiology Cutsheets I-R

2013-0918 VAPA Radiology Cutsheets S-T

2013-0918 VAPA Radiology Cutsheets U-W