

## AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO.

1. CONTRACT ID CODE

PAGE  
1OF PAGES  
83

2. AMENDMENT/MODIFICATION NO.

A00005

3. EFFECTIVE DATE

10-12-2015

4. REQUISITION/PURCHASE REQ. NO.

675-16-1-3252-0001

5. PROJECT NO.(If applicable)

615-14-150

6. ISSUED BY

CODE

Department of Veterans Affairs  
Orlando VA Medical Center  
5201 Raymond Street  
  
Orlando FL 32803

7. ADMINISTERED BY (If other than Item 6)

CODE

00675

Department of Veterans Affairs  
Network Contracting Activity 8 (NCO 8)  
Orlando VA Medical Center  
5201 Raymond Street  
Orlando FL 32803

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

To all Offerors/Bidders

(X)

9A. AMENDMENT OF SOLICITATION NO.

VA248-15-R-2022

X

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED (SEE ITEM 13)

CODE

FACILITY CODE

## 11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☒ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

1:00 PM Local, 10/20/2015

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS,  
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor ☐ is not, ☒ is required to sign this document and return <sup>1</sup>\_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this amendment is to: (1) Provide the following new or revised specifications;

a. 01 00 00 - General Requirements. Revised Paragraph 1.3 - Statement of Bid Item(s) See Attachment 1,

b. 09 06 00 - Finish Schedule. Revised to add finishes. See Attachment 2,

c. 09 30 13 - Ceramic Porcelain Tiling. Added. See Attachment 3,

d. 09 68 00 - Carpeting. Added. See Attachment 4,

(2) Revise construction documents by replacing each specific drawing with the revised drawing as listed - A100, A102, A200, A201, A300, A301, A400, A502, PL100, PL101, PL200, PL201, E200 and E201. Refer to clouds to identify specific details of the revision. See Attachment, (3) Provide RFI Tracking Log. See Attachment 10, (4) Provide the Lift Site Plan to indicate location of five each Patient lifts, (5) Provide Edited Sketch PL201 to clarify location of new Laboratory Eye Wash, See Attachment 6, and provide a revised Price Offer/Schedule to clarify information for bid alternates.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

BY \_\_\_\_\_  
(Signature of Contracting Officer)

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Attachment 2_ 090600_Schedule for Finishes_10-09-15_9 Pages. ....	18
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**SECTION 01 00 00**  
**GENERAL REQUIREMENTS**

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**SECTION 01 00 00**  
**GENERAL REQUIREMENTS**

**1.1 SAFETY REQUIREMENTS**

Refer to section 01 35 26, SAFETY REQUIREMENTS for safety and infection control requirements.

**1.2 GENERAL INTENTION**

- A. Contractor shall completely prepare site for building operations, including demolition and removal of existing structures, and furnish labor and materials and perform work for Renovations to Radiology and Clinical Lab areas at the VA Viera Clinic as required by drawings and specifications.
- B. Visits to the site by Bidders may be made only by appointment with the Medical Center Engineering Officer
- C. Offices of AKEA, Inc. as Architect - Engineers, will render certain technical services during construction. Such services shall be considered as advisory to the Government and shall not be construed as expressing or implying a contractual act of the Government without affirmations by Contracting Officer or his duly authorized representative.
- D. All employees of general contractor and subcontractors shall comply with VA security management program and obtain permission of the VA police, be identified by project and employer, and restricted from unauthorized access.

**1.3 STATEMENT OF BID ITEM(S)**

- A. ITEM I, GENERAL CONSTRUCTION: Work includes general construction, alterations necessary removal of existing walls and certain other items.

ITEM II, Electrical Work: Work includes all labor, material, equipment and supervision to perform the required electrical construction work on this project.

ITEM III, Mechanical Work: Work includes all labor, material, equipment and supervision to perform the required Mechanical construction work on this project including.

B. DEDUCT ALTERNATE NO.1:Delete all work done in Room C113 Mamo Read Room  
(Existing Corridor to remain.)

C. DEDUCT ALTERNATE NO.2:Delete new floor and ceiling finishes in C100A,  
C100B,C100D, and C100E, (Painting to remain in base bid)

#### 1.4 SPECIFICATIONS AND DRAWINGS FOR CONTRACTOR

A. Drawings and contract documents may be obtained from the website where the solicitation is posted. Additional copies will be at Contractor's expense, .

#### 1.5 CONSTRUCTION SECURITY REQUIREMENTS

A. Security Plan:

1. The security plan defines both physical and administrative security procedures that will remain effective for the entire duration of the project.
2. The General Contractor is responsible for assuring that all sub-contractors working on the project and their employees also comply with these regulations.

B. Security Procedures:

1. General Contractor's employees shall not enter the project site without appropriate badge. They may also be subject to inspection of their personal effects when entering or leaving the project site.
2. Before starting work the General Contractor shall give one week's notice to the Contracting Officer so that security arrangements can be provided for the employees. This notice is separate from any notices required for utility shutdown described later in this section.
3. No photography of VA premises is allowed without written permission of the Contracting Officer.
4. VA reserves the right to close down or shut down the project site and order General Contractor's employees off the premises in the

C. Key Control:

1. The General Contractor shall provide duplicate keys and lock combinations to the Contracting officers representative (COR) for the purpose of security inspections of every area of project including tool boxes and parked machines and take any emergency action.
2. The General Contractor shall turn over all permanent lock cylinders to the VA locksmith for permanent installation. See Section 08 71 00, DOOR HARDWARE and coordinate.

D. Document Control:

1. Before starting any work, the General Contractor/Sub Contractors shall submit an electronic security memorandum describing the approach to following goals and maintaining confidentiality of "sensitive information".
2. The General Contractor is responsible for safekeeping of all drawings, project manual and other project information. This information shall be shared only with those with a specific need to accomplish the project.
3. Certain documents, sketches, videos or photographs and drawings may be marked "Law Enforcement Sensitive" or "Sensitive Unclassified". Secure such information in separate containers and limit the access to only those who will need it for the project. Return the information to the Contracting Officer upon request.
4. These security documents shall not be removed or transmitted from the project site without the written approval of Contracting Officer.
5. All paper waste or electronic media such as CD's and diskettes shall be shredded and destroyed in a manner acceptable to the VA.
6. Notify Contracting Officer and Site Security Officer immediately when there is a loss or compromise of "sensitive information".

7. All electronic information shall be stored in specified location following VA standards and procedures using an Engineering Document Management Software (EDMS).
  - a. Security, access and maintenance of all project drawings, both scanned and electronic shall be performed and tracked through the EDMS system.
  - b. "Sensitive information" including drawings and other documents may be attached to e-mail provided all VA encryption procedures are followed.

E. Motor Vehicle Restrictions

1. Vehicle authorization request shall be required for any vehicle entering the site and such request shall be submitted 24 hours before the date and time of access. Access shall be restricted to picking up and dropping off materials and supplies.
2. A limited number of (2 to 5) permits shall be issued for General Contractor and its employees for parking in designated areas only.

**1.6 OPERATIONS AND STORAGE AREAS**

- A. The Contractor shall confine all operations (including storage of materials) on Government premises to areas authorized or approved by the Contracting Officer. The Contractor shall hold and save the Government, its officers and agents, free and harmless from liability of any nature occasioned by the Contractor's performance.
- B. Temporary buildings (e.g., storage sheds, shops, offices) and utilities may be erected by the Contractor only with the approval of the Contracting Officer and shall be built with labor and materials furnished by the Contractor without expense to the Government. The temporary buildings and utilities shall remain the property of the Contractor and shall be removed by the Contractor at its expense upon completion of the work. With the written consent of the Contracting Officer, the buildings and utilities may be abandoned and need not be removed.
- C. The Contractor shall, under regulations prescribed by the Contracting Officer, use only established roadways, or use temporary roadways



constructed by the Contractor when and as authorized by the Contracting Officer. When materials are transported in prosecuting the work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by any Federal, State, or local law or regulation. When it is necessary to cross curbs or sidewalks, the Contractor shall protect them from damage. The Contractor shall repair or pay for the repair of any damaged curbs, sidewalks, or roads.

- D. Working space and space available for storing materials shall be as determined by COR.
- E. Workmen are subject to rules of Medical Center applicable to their conduct.
- F. Execute work so as to interfere as little as possible with normal functioning of Medical Center as a whole, including operations of utility services, fire protection systems and any existing equipment, and with work being done by others. Use of equipment and tools that transmit vibrations and noises through the building structure, are not permitted in buildings that are occupied, during construction, jointly by patients or medical personnel, and Contractor's personnel, except as permitted by COR.

- 1. Do not store materials and equipment in other than assigned areas.

Provide unobstructed access to Medical Center areas required to remain in operation.

- 3. Where access by Medical Center personnel to vacated portions of buildings is not required, storage of Contractor's materials and equipment will be permitted subject to fire and safety requirements.

G. Phasing:

The Medical Center must maintain its operation 24 hours a day 7 days a week. Therefore, any interruption in service must be scheduled and coordinated with the COR to ensure that no lapses in operation occur. It is the CONTRACTOR'S responsibility to develop a work plan and schedule detailing, at a minimum, the procedures to be employed, the equipment and materials to be used, the interim life safety measure to

be used during the work, and a schedule defining the duration of the work with milestone subtasks. The work to be outlined shall include, but not be limited to:

To insure such executions, Contractor shall furnish the COR with a schedule of approximate dates on which the Contractor intends to accomplish work in each specific area of site, building or portion thereof. In addition, Contractor shall notify the COR two weeks in advance of the proposed date of starting work in each specific area of site, building or portion thereof. Arrange such dates to insure accomplishment of this work in successive phases mutually agreeable to COR and Contractor. ~~as follows:~~

~~Phase I;:-TBD~~ <sup>s</sup> II, III & IV are shown on the documents.

~~Phase II:-TBD~~

H. ~~Building No. \_\_\_\_\_~~ <sup>THE EXISTING BUILDING</sup> will be occupied during performance of work; ~~but~~ <sup>the</sup> immediate areas of alterations will ~~not~~ <sup>be</sup> be vacated.

~~1 Certain areas of Building(s) No. (s) \_\_\_\_\_ will be occupied by Medical Center personnel for various periods as listed below:~~

~~AREA~~

~~PERIOD~~

~~(a)~~

~~(b)~~

~~(c)~~

~~(d)~~

Contractor shall take all measures and provide all material necessary for protecting existing equipment and property in affected areas of construction against dust and debris, so that equipment and affected areas to be used in the Medical Centers operations will not be hindered. Contractor shall permit access to Department of Veterans Affairs personnel and patients through other construction areas which serve as routes of access to such affected areas and

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- surfaces, lighting etc to facilitate patient and staff access. Coordinate alteration work in areas occupied by Department of Veterans Affairs so that Medical Center operations will continue during the construction period.
2. Immediate areas of alterations not mentioned in preceding Subparagraph 1 will be temporarily vacated while alterations are performed.
- I. When a building and/or construction site is turned over to Contractor, Contractor shall accept entire responsibility including upkeep and maintenance therefore:
1. Contractor shall maintain a minimum temperature of 4 degrees C (40 degrees F) at all times, except as otherwise specified.
  2. Contractor shall maintain in operating condition existing fire protection and alarm equipment. In connection with fire alarm equipment, Contractor shall make arrangements for pre-inspection of site with Fire Department or Company (Department of Veterans Affairs or municipal) whichever will be required to respond to an alarm from Contractor's employee or watchman.
- J. Abandoned Lines: All service lines such as wires, cables, conduits, ducts, pipes and the like, and their hangers or supports, which are to be abandoned but are not required to be entirely removed, shall be sealed, capped or plugged at the main, branch or panel they originate from. The lines shall not be capped in finished areas, but shall be removed and sealed, capped or plugged in ceilings, within furred spaces, in unfinished areas, or within walls or partitions; so that they are completely behind the finished surfaces.
- K. To minimize interference of construction activities with flow of Medical Center traffic, comply with the following:
1. Keep roads, walks and entrances to grounds, to parking and to occupied areas of buildings clear of construction materials, debris and standing construction equipment and vehicles.

- L. Coordinate the work for this contract with other construction operations as directed by COR. This includes the scheduling of traffic and the use of roadways, as specified in Article, USE OF ROADWAYS.

#### 1.7 ALTERATIONS

- A. Survey: Before any work is started, the Contractor shall make a thorough survey with the COR and a representative of VA Supply Service, of areas of buildings in which alterations occur and areas which are anticipated routes of access, and furnish a report, signed by both to the Contracting Officer. This report shall list by rooms and spaces:
  - 1. Existing condition and types of resilient flooring, doors, windows, walls and other surfaces not required to be altered throughout affected areas of building.
  - 2. Existence and conditions of items such as plumbing fixtures and accessories, electrical fixtures, equipment, venetian blinds, shades, etc., required by drawings to be either reused or relocated, or both.
  - 3. Shall note any discrepancies between drawings and existing conditions at site.
  - 4. Shall designate areas for working space, materials storage and routes of access to areas within buildings where alterations occur and which have been agreed upon by Contractor and COR.
- B. Any items required by drawings to be either reused or relocated or both, found during this survey to be nonexistent, or in opinion of COR and/or Supply Representative, to be in such condition that their use is impossible or impractical, shall be furnished and/or replaced by Contractor with new items in accordance with specifications which will be furnished by Government. Provided the contract work is changed by reason of this subparagraph B, the contract will be modified accordingly, under provisions of clause entitled "DIFFERING SITE CONDITIONS" (FAR 52.236-2) and "CHANGES" (FAR 52.243-4 and VAAR 852.236-88).
- C. Re-Survey: Thirty days before expected partial or final inspection date, the Contractor and COR together shall make a thorough re-survey

of the areas of buildings involved. They shall furnish a report on conditions then existing, of resilient flooring, doors, windows, walls and other surfaces as compared with conditions of same as noted in first condition survey report:

1. Re-survey report shall also list any damage caused by Contractor to such flooring and other surfaces, despite protection measures; and, will form basis for determining extent of repair work required of Contractor to restore damage caused by Contractor's workmen in executing work of this contract.

D. Protection: Provide the following protective measures:

1. Temporary protection against damage for portions of existing structures and grounds where work is to be done, materials handled and equipment moved and/or relocated.
2. Protection of interior of existing structures at all times, from damage, dust and weather inclemency. Wherever work is performed, floor surfaces that are to remain in place shall be adequately protected prior to starting work, and this protection shall be maintained intact until all work in the area is completed.

#### **1.8 DISPOSAL AND RETENTION**

A. Materials and equipment accruing from work removed and from demolition of buildings or structures, or parts thereof, shall be disposed of as follows:

1. Reserved items which are to remain property of the Government are identified by attached tags as items to be stored. Items that remain property of the Government shall be removed or dislodged from present locations in such a manner as to prevent damage which would be detrimental to re-installation and reuse. Store such items where directed by COR.
2. Items not reserved shall become property of the Contractor and be removed by Contractor from Medical Center.
3. Items of portable equipment and furnishings located in rooms and spaces in which work is to be done under this contract shall remain the property of the Government. When rooms and spaces are vacated by

the Department of Veterans Affairs during the alteration period, such items which are NOT required by drawings and specifications to be either relocated or reused will be removed by the Government in advance of work to avoid interfering with Contractor's operation.

#### **1.9 RESTORATION**

- A. Remove, cut, alter, replace, patch and repair existing work as necessary to install new work. Except as otherwise shown or specified, do not cut, alter or remove any structural work, and do not disturb any ducts, plumbing, steam, gas, or electric work without approval of the COR. Existing work to be altered or extended and that is found to be defective in any way, shall be reported to the COR before it is disturbed. Materials and workmanship used in restoring work, shall conform in type and quality to that of original existing construction, except as otherwise shown or specified.
- B. Upon completion of contract, deliver work complete and undamaged. Existing work (walls, ceilings, partitions, floors, mechanical and electrical work, etc.) disturbed or removed as a result of performing required new work, shall be patched, repaired, reinstalled, or replaced with new work, and refinished and left in as good condition as existed before commencing work.
- C. At Contractor's own expense, Contractor shall immediately restore to service and repair any damage caused by Contractor's workmen to existing piping and conduits, wires, cables, etc., or of fire protection systems and communications systems (including telephone) which are not scheduled for discontinuance or abandonment.

#### **1.10 AS-BUILT DRAWINGS**

- A. The contractor shall maintain two full size sets of as-built drawings which will be kept current during construction of the project, to include all contract changes, modifications and clarifications.
- B. All variations shall be shown in the same general detail as used in the contract drawings. To insure compliance, as-built drawings shall be made available for the COR review, as often as requested.

C. Contractor shall deliver two approved completed sets of as-built drawings to the COR within 15 calendar days after each completed phase and after the acceptance of the project by the COR.

D. Paragraphs A, B, & C shall also apply to all shop drawings.

#### **1.11 USE OF ROADWAYS**

A. For hauling, use only established public roads and roads on Medical Center property. When necessary to cross curbing, sidewalks, or similar construction, they must be protected by well-constructed bridges.

#### **1.12 TEMPORARY TOILETS**

A. Contractor may have for use of Contractor's workmen, such toilet accommodations as may be assigned to Contractor by Medical Center. Contractor shall keep such places clean and be responsible for any damage done thereto by Contractor's workmen. Failure to maintain satisfactory condition in toilets will deprive Contractor of the privilege to use such toilets.

#### **1.13 NEW TELEPHONE EQUIPMENT**

The contractor shall coordinate with the work of installation of telephone equipment by others. This work shall be completed before the areas are turned over to VA.

#### **1.14 INSTRUCTIONS**

A. Contractor shall furnish Maintenance and Operating manuals (hard copies and electronic) and verbal instructions when required by the various sections of the specifications and as hereinafter specified.

B. Manuals: Maintenance and operating manuals and one compact disc (four hard copies and one electronic copy each) for each separate piece of equipment shall be delivered to the COR coincidental with the delivery of the equipment to the job site. Manuals shall be complete, detailed guides for the maintenance and operation of equipment. They shall include complete information necessary for starting, adjusting, maintaining in continuous operation for long periods of time and dismantling and reassembling of the complete units and sub-assembly components. Manuals shall include an index covering all component parts clearly cross-referenced to diagrams and illustrations. Illustrations

shall include "exploded" views showing and identifying each separate item. Emphasis shall be placed on the use of special tools and instruments. The function of each piece of equipment, component, accessory and control shall be clearly and thoroughly explained. All necessary precautions for the operation of the equipment and the reason for each precaution shall be clearly set forth. Manuals must reference the exact model, style and size of the piece of equipment and system being furnished. Manuals referencing equipment similar to but of a different model, style, and size than that furnished will not be accepted.

- C. Instructions: Contractor shall provide qualified, factory-trained manufacturers' representatives to give detailed training to assigned Department of Veterans Affairs personnel in the operation and complete maintenance for each piece of equipment. All such training will be at the job site. These requirements are more specifically detailed in the various technical sections. Instructions for different items of equipment that are component parts of a complete system, shall be given in an integrated, progressive manner. All instructors for every piece of component equipment in a system shall be available until instructions for all items included in the system have been completed. This is to assure proper instruction in the operation of inter-related systems. All instruction periods shall be at such times as scheduled by the COR and shall be considered concluded only when the COR is satisfied in regard to complete and thorough coverage. The contractor shall submit a course outline with associated material to the COR for review and approval prior to scheduling training to ensure the subject matter covers the expectations of the VA and the contractual requirements. The Department of Veterans Affairs reserves the right to request the removal of, and substitution for, any instructor who, in the opinion of the COR, does not demonstrate sufficient qualifications in accordance with requirements for instructors above.

#### **1.15 GOVERNMENT-FURNISHED PROPERTY**

- A. The Government shall deliver to the Contractor, the Government-furnished property shown on the Schedule.
- B. Equipment furnished by Government to be installed by Contractor will be furnished to Contractor at the Medical Center.



- C. Storage space for equipment will be provided by the Government and the Contractor shall be prepared to unload and store such equipment therein upon its receipt at the Medical Center.
- D. Notify Contracting Officer in writing, 60 days in advance, of date on which Contractor will be prepared to receive equipment furnished by Government. Arrangements will then be made by the Government for delivery of equipment.
  - 1. Immediately upon delivery of equipment, Contractor shall arrange for a joint inspection thereof with a representative of the Government. At such time the Contractor shall acknowledge receipt of equipment described, make notations, and immediately furnish the Government representative with a written statement as to its condition or shortages.
  - 2. Contractor thereafter is responsible for such equipment until such time as acceptance of contract work is made by the Government.
- E. Equipment furnished by the Government will be delivered in a partially assembled (knock down) condition in accordance with existing standard commercial practices, complete with all fittings, fastenings, and appliances necessary for connections to respective services installed under contract. All fittings and appliances (i.e., couplings, ells, tees, nipples, piping, conduits, cables, and the like) necessary to make the connection between the Government furnished equipment item and the utility stub-up shall be furnished and installed by the contractor at no additional cost to the Government.
- F. Completely assemble and install the Government furnished equipment in place ready for proper operation in accordance with specifications and drawings.
- G. Furnish supervision of installation of equipment at construction site by qualified factory trained technicians regularly employed by the equipment manufacturer.

**1.16 RELOCATED EQUIPMENT ITEMS**

- A. Contractor shall disconnect, dismantle as necessary, remove and reinstall in new location, all existing equipment indicated by symbol "R" or otherwise shown to be relocated by the Contractor.
- B. Perform relocation of such equipment or items at such times and in such a manner as directed by the COR.
- C. Suitably cap existing service lines, such as steam, condensate return, water, drain, gas, air, vacuum and/or electrical, at the main whenever such lines are disconnected from equipment to be relocated. Remove abandoned lines in finished areas and cap as specified herein before under paragraph "Abandoned Lines".
- D. Provide all mechanical and electrical service connections, fittings, fastenings and any other materials necessary for assembly and installation of relocated equipment; and leave such equipment in proper operating condition.
- E. All service lines such as noted above for relocated equipment shall be in place at point of relocation ready for use before any existing equipment is disconnected. Make relocated existing equipment ready for operation or use immediately after reinstallation.

- -- E N D ---

**SECTION 09 06 00**  
**SCHEDULE FOR FINISHES**

Addendum 1  
October 9, 2015

**SECTION 09 06 00-SCHEDULE FOR FINISHES**

VAMC: Viera Clinic

Location: Viera VA Outpatient Clinic 2900 Veterans Way, Viera, FL 32940

Project no. and Name:675-14-150 Renovate Laboratory & Radiology Department

Submission Final

Date:07 AUG 2015

**INSTRUCTIONS FOR PREPARATON OF  
SECTION 09 06 00-SCHEDULE FOR FINISHES**

**PART I - GENERAL**

**1.1 DESCRIPTION**

This section contains a coordinated system in which requirements for materials specified in other sections shown are identified by abbreviated material names and finish codes in the room finish schedule or shown for other locations.

**1.2 MANUFACTURERS**

Manufacturer's trade names and numbers used herein are only to identify colors, finishes, textures and patterns. Products of other manufacturer's equivalent to colors, finishes, textures and patterns of manufacturers listed that meet requirements of technical specifications will be acceptable upon approval in writing by contracting officer for finish requirements.

**1.3 SUBMITALS**

Submit in accordance with SECTION 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES provide quadruplicate samples for color approval of materials and finishes specified in this section.

**1.4 APPLICABLE PUBLICATIONS**

A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in text by basic designation only.

B. MASTER PAINTING INSTITUTE: (MPI)

2001.....Architectural Painting Specification Manual

**PART 2- PRODUCTS**

**2.1 DIGITAL COLOR PHOTOS**

**2.2 DIVISION 06 WOOD, PLASTICS, AND COMPOSITES**

A. SECTION 06 10 00, ROUGH CARPENTRY

Item	Finish	Color

B. SECTION 06 20 00, FINISH CARPENTRY

1. RECEPTION COUNTER					
Room No. and Name	Component	Material		Finish	Color
Reception C103	Countertop	Solid Surface (Dupont Quartz)		As Specified	Zodiaq Autumn Light
	Vertical Surface(s) Walls	Painted GW3		Eggshell	SW 6112 Biscuit
	Base	Rubber Cove		As Specified	Johnsonite 150 Wetlands

2. VANITIES (TYPES S4, S4 M)		
Room No. and Name	Component	Finish/Color
C116, C117, C119 Ultrasound	Countertop Solid Surface	Zodiaq Autumn Light

2.3 DIVISION 08 - OPENINGS

A. SECTION 08 11 13, HOLLOW METAL FRAMES

Paint both sides of door and frames same color including ferrous metal louvers, and hardware attached to door	
Component	Color of Paint Type and Gloss
Frame	Painted to match existing color and gloss level

B. SECTION 08 14 00, WOOD DOORS

Component	Finish/Color
Doors	Refinish if damaged to match existing

C. SECTION 08 71 00, BUILDERS HARDWARE

Item	Material	Finish
Hinges	Match Existing	Match Existing
Door Closers	Match Existing	Match Existing
Closer/ Holder	Match Existing	Match Existing
Lock/ Latches	Match Existing	Match Existing
Kick Mop Plates	Metal Plastic	Match Existing

D. SECTION 09 30 13

Finish Code	Manufacturer	Mfg. Color Name/No.
Floor	Note: Owner (VA) is currently renovating existing toilet rooms in the Radiology/Lab Area. Consult VA for C.T. Materials and colors to match.	
Wall		

Addendum 1  
October 9, 2015

E. SECTION 09 51 00, ACOUSTICAL CEILINGS

Finish Code	Component	Color Pattern	Manufacturer	Mfg Name/No.
	Exposed Suspension System	White	Armstrong	Prelude ML15/16" Exposed Tee
	Type III	White Non-Directional	Armstrong	Ortega T04

F. SECTION 09 65 19, RESILIENT TILE FLOORING

Finish Code	Size	Material/Component	Manufacturer	Mfg Name/No.
		VCT	TBD	TBD
		R	TBD	TBD

G. SECTION 09 65 16, VINYL SHEET FLOORING, HEAT WELDED SEAMS (WSF)

Finish Code	Pattern name	Manufacturer	Mfg. Color Name/No.

1. SECTION 09 65 16, WELDING RODS (WSF)

Finish code	Manufacturer	Mfg. Color Name/No.

2. SECTION 09 65 16, CAP STRIPS (WSF)

Finish Code	Manufacturer	Mfg. Color Name/No.

<sup>H</sup>G. SECTION 09 65 13, RESILIENT BASE STAIR TREADS AND ACCESSORIES

Finish Code	Item	Height	Manufacturer	Mfg Name/No.
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	Rubber Base (RB)	4"	Johnsonite	150 Wetlands
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H. SECTION 09 91 00, PAINT AND COATINGS

1. MPI Gloss and Sheen Standards

		Gloss @60	Sheen @85
Gloss Level 1	a traditional matte finish-flat	max 5 units, and	max 10 units
Gloss Level 2	a high side sheen flat-"a velvet-like" finish	max 10 units, and	10-35 units
Gloss Level 3	a traditional "egg-shell like" finish	10-25 units, and	10-35 units
Gloss Level 4	a "satin-like" finish	20-35 units, and	min. 35 units
Gloss Level 5	a traditional semi-gloss	35-70 units	
Gloss Level 6	a traditional gloss	70-85 units	
Gloss level 7	a high gloss	more than 85 units	

2. Paint code	Gloss	Manufacturer	Mfg. Color Name/No.
P-1	Eggshell	SW	6112 Biscuit

**2.4 DIVISION 10 - SPECIALTIES**

A. SECTION 10 21 23, HOSPITAL CUBILCE CURTAINS AND INTRAVENOUS SUPPORT TRACKS

Finish Code	Manufacturer	Mfg. Color Name/No.

B. SECTION 10 26 00, WALL GUARDS AND CORNER GUARDS

Item	Material	Manufacturer	Mfg. Color Name/No.
Corner Guards	Plastic	INPRO	Match Existing



Wall Guards and Handrail	Plastic	INPRO	Match Existing
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C. SECTION 10 13 00 / 10 14 00, INTERIOR SIGNS

Sign Type	Component	Manufacturer	Mfg. Color Name/No.
Match Existing	Match Existing	Match Existing	Match Existing

D. SECTION 12 36 00, COUNTERTOPS AND ACCESSORIES

Methyl Methacrylate	Dupont Quartz Zodiac Autumn Light
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**2.5 DIVISION 22 - PLUMBING**

A. SECTION 22 40 00, PLUMBING FIXTURES AND TRIM

Item	Color
Lavatories	White (Solid Surface - Integral to Countertop)

**PART III EXECUTION**

**3.1 FINISH SCHEDULES & MISCELLANEOUS ABBREVIATIONS**

FINISH SCHEDULE & MISCELLANEOUS ABBREVIATIONS	
Term	Abbreviation
Acoustical Ceiling	AT
Paint	P

Rubber Base	RB



### 3.2 FINISH SCHEDULE SYMBOLS

#### Symbol Definition

\*\* Same finish as adjoining walls  
 - No color required  
 E Existing  
 XX To match existing  
 EFTR Existing finish to remain  
 RM Remove

### 3.3 ROOM FINISH SCHEDULE

A. Match adjoining or existing similar surfaces colors, textures or patterns where disturbed or damaged by alterations or new work when not scheduled.

#### B. ROOM FINISH SCHEDULE

All rooms (Except as noted below and on Drawings as marked.)in project boundry to receive:

1. New paint on all wall surfaces.
2. New VCT Flooring.
3. New Base.
4. New Ceiling Grid and Tile.

#### Exceptions:

1. RM C207 - Pathology Lab - Replace ceiling grid and tile only.
2. Corridor C200A - Pathology Lab - Replace ceiling grid and tile only.

3. Waiting C101 and C201 - Replace carpet tile to match existing; New Paint and New Base.

--- E N D---

**SECTION 09 30 13**  
**CERAMIC/porcelain TILING**  
**10-01-15**

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

- A. This section specifies interior ceramic, porcelain and quarry tile, marble thresholds and window stools, terrazzo divider strips, waterproofing membranes for thin-set applications, crack isolation membranes, and tile backer board.

**1.2 RELATED WORK:**

- A. Sustainable Design Requirements: Section 01 81 13, SUSTAINABLE CONSTRUCTION REQUIREMENTS.
- B. Sealing of Joints: Section 07 92 00, JOINT SEALANTS.
- C. Color, Texture, Pattern, and Size of Field Tile and Trim Shapes, and Color of Grout Specified: Section 09 06 00, SCHEDULE FOR FINISHES.
- D. Metal and Resilient Edge Strips at Joints with New Resilient Flooring, and Carpeting: Section 09 65 19, RESILIENT TILE FLOORING and Section 09 68 00, CARPETING.

**1.3 SUBMITTALS:**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Sustainable Design Submittals as described below:
1. Volatile organic compounds per volume as specified in PART 2 - PRODUCTS.
- C. Samples:
1. Base tile, each type, each color, each size.
  2. Porcelain tile, each type, color, patterns and size.
  3. Wall (or wainscot) tile, each color, size and pattern.
  4. Trim shapes, bullnose cap and cove including bullnose cap and base pieces at internal and external corners of vertical surfaces, each type, color, and size.
- D. Product Data:
1. Ceramic and porcelain tile, marked to show each type, size, and shape required.
  2. Chemical resistant mortar and grout (epoxy and furan).
  3. Cementitious backer unit.

4. Dry-set portland cement mortar and grout.
  5. Divider strip.
  6. Elastomeric membrane and bond coat.
  7. Reinforcing tape.
  8. Leveling compound.
  9. Latex-portland cement mortar and grout.
  10. Commercial portland cement grout.
  11. Organic adhesive.
  12. Slip resistant tile.
  13. Waterproofing isolation membrane.
  14. Fasteners.
- E. Certification:
1. Master grade certificate, ANSI A137.1.
  2. Manufacturer's certificates indicating that the following materials comply with specification requirements:
    - a. Chemical resistant mortar and grout (epoxy and furan).
    - b. Modified epoxy emulsion.
    - c. Commercial portland cement grout.
    - d. Cementitious backer unit.
    - e. Dry-set portland cement mortar and grout.
    - f. Elastomeric membrane and bond coat.
    - g. Reinforcing tape.
    - h. Latex-portland cement mortar and grout.
    - i. Leveling compound.
    - j. Organic adhesive.
    - k. Waterproof isolation membrane.
    - l. Factory back mounted tile documentation for suitability for application in wet area.
- F. Installer Qualifications:
1. Submit letter stating installer's experience.

**1.4 DELIVERY AND STORAGE:**

- A. Deliver materials in containers with labels legible and intact and grade-seals unbroken.
- B. Store material to prevent damage or contamination.

**1.5 QUALITY ASSURANCE:**

- A. Installers to be from a company specializing in performing installation of products specified and have a minimum of three (3) years' experience.

- B. Each type and color of tile to be provided from a single source.
- C. Each type and color of mortar, adhesive, and grout to be provided from the same source.

**1.6 WARRANTY:**

- A. Construction Warranty: Comply with FAR clause 52.246-21, "Warranty of Construction".

**1.7 APPLICABLE PUBLICATIONS:**

- A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in text by basic designation only.
- B. American National Standards Institute (ANSI):
  - A10.20-06(R2011).....Safe Operating Practices for Tile, Terrazzo and Marble Work
  - A108/A118/A136-14 Installation of Ceramic Tile
  - A108.01-13.....Subsurfaces and Preparations by Other Trades
  - A108.02-13.....Materials, Environmental, and Workmanship
  - A108.1A-14.....Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar
  - A108.1B-10.....Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex-Portland Cement Mortar
  - A108.1C-10.....Contractors Option; Installation of Ceramic Tile in the Wet-Set method with Portland Cement Mortar or Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex-Portland Cement Mortar
  - A108.4-09.....Ceramic Tile with Organic Adhesives or Water Cleanable Tile-Setting Epoxy Adhesive
  - A108.6-10.....Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy
  - A108.8-10.....Ceramic Tile with Chemical Resistant Furan Resin Mortar and Grout
  - A108.10-10.....Grout in Tilework
  - A108.13-10.....Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone
  - A118.1-12.....Dry-Set Portland Cement Mortar

- A118.3-13.....Chemical Resistant, Water Cleanable Tile-  
Setting and -Grouting Epoxy and Water Cleanable  
Tile-Setting Epoxy Adhesive
- A118.4-12.....Latex-Portland Cement Mortar
- A118.5-10.....Chemical Resistant Furan Mortars and Grouts
- A118.6-10.....Cement Grouts for Tile Installation
- A118.7-10.....High Performance Cement Grouts for Tile  
Installation
- A118.9-10.....Cementitious Backer Units
- A118.10-14.....Load Bearing, Bonded, Waterproof Membranes for  
Thin-Set Ceramic Tile and Dimension Stone  
Installation
- A136.1-13.....Organic Adhesives for Installation of Ceramic  
Tile
- A137.1-12.....American National Standard Specifications for  
Ceramic Tile
- C. ASTM International (ASTM):
- A666-10.....Annealed or Cold-Worked Austenitic Stainless  
Steel Sheet, Strip, Plate and Flat Bar
- A1064/A1064M-14.....Carbon-Steel Wire and Welded Wire  
Reinforcement, Plain and Deformed, for Concrete
- C109/C109M-13.....Standard Test Method for Compressive Strength  
of Hydraulic Cement Mortars (Using 2 inch. or  
[50-mm] Cube Specimens)
- C241/C241M-13.....Abrasion Resistance of Stone Subjected to Foot  
Traffic
- C348-14.....Standard Test Method for Flexural Strength of  
Hydraulic-Cement Mortars
- C627-10.....Evaluating Ceramic Floor Tile Installation  
Systems Using the Robinson-Type Floor Tester
- C954-11.....Steel Drill Screws for the Application of  
Gypsum Board on Metal Plaster Base to Steel  
Studs from 0.033 in (0.84 mm) to 0.112 in (2.84  
mm) in thickness
- C979/C979M-10.....Pigments for Integrally Colored Concrete
- C1002-14.....Steel Self-Piercing Tapping Screws for the  
Application of Panel Products

- C1027-09.....Test Method for Determining Visible Abrasion  
Resistance of Glazed Ceramic Tile
- C1127-01(R2009).....Standard Guide for Use of High Solids Content,  
Cold Liquid-Applied Elastomeric Waterproofing  
Membrane with an Integral Wearing Surface
- C1178/C1178M-13.....Standard Specification for Coated Glass Mat  
Water-Resistant Gypsum Backing Panel
- C1325-14.....Non-Asbestos Fiber-Mat Reinforced Cementitious  
Backer Units
- C1353/C1353M-09(R2013)..Abrasion Resistance of Dimension Stone  
Subjected to Foot Traffic Using a Rotary  
Platform, Double-Head Abraser
- D1204-14.....Test Method for Linear Dimensional Changes of  
Nonrigid Thermoplastic Sheeting or Film at  
Elevated Temperature
- D2240-05(R2010).....Test Method for Rubber Property - Durometer  
Hardness
- D2497-07(R2012).....Tolerances for Manufactured Organic-Base  
Filament Single Yarns
- D3045-92(R2010).....Heat Aging of Plastics Without Load
- D4397-10.....Standard Specification for Polyethylene  
Sheeting for Construction, Industrial and  
Agricultural Applications
- D5109-12.....Standard Test Methods for Copper-Clad  
Thermosetting Laminates for Printed Wiring  
Boards
- D. Code of Federal Regulation (CFR):
  - 40 CFR 59.....Determination of Volatile Matter Content, Water  
Content, Density Volume Solids, and Weight  
Solids of Surface Coating
- E. Marble Institute of America (MIA): Design Manual III-2007
- F. Tile Council of North America, Inc. (TCNA):
  - Handbook for Ceramic Tile Installation (2014)
  - DCOF AcuTest-2012.....Dynamic Coefficient of Friction Test

## **PART 2 - PRODUCTS**

### **2.1 TILE:**

- A. Comply with ANSI A137.1, Standard Grade, except as modified:
  - 1. Inspection procedures listed under the Appendix of ANSI A137.1.



2. Abrasion Resistance Classification:
  - a. Tested in accordance with values listed in Table 1, ASTM C1027.
  - b. Class V, 12000 revolutions for floors in Corridors, Kitchens, Storage including Refrigerated Rooms
  - c. Class IV, 6000 revolutions for remaining areas.
3. Slip Resistant Tile for Floors:
  - a. Coefficient of friction, when tested in accordance with ANSI A137.1 and measured per the TCNA DCOF AcuTest.
    - 1) Equal to or greater than .42 for level interior tile floors that will be walked on when wet.
4. Factory Blending: For tile with color variations, within the ranges selected during sample submittals blend tile in the factory and package so tile units taken from one (1) package show the same range in colors as those taken from other packages and match approved samples.
5. Factory-Applied Temporary Protective Coating:
  - a. Protect exposed face surfaces (top surface) of tile against adherence of mortar and grout by pre-coating with a continuous film of hot applied petroleum paraffin wax.
  - b. Do not coat unexposed tile surfaces.
  - c. Pre-wax tiles set or grouted with furan or epoxy or latex modified mortars.
- B. Glazed Wall Tile: Cushion edges, glazing.
- C. Trim Shapes:
  1. Conform to applicable requirements of adjoining floor and wall tile.
  2. Use trim shapes sizes conforming to size of adjoining field wall tile unless detailed on construction documents or specified otherwise.
  3. Internal and External Corners:
    - a. Square internal and external corner joints are not acceptable.
    - b. External corners including edges: Use bullnose shapes.
    - c. Internal corners: Use cove shapes.
    - d. Base to floor internal corners: Use special shapes providing integral cove vertical and horizontal joint.
    - e. Base to floor external corners: Use special shapes providing bullnose vertical edge with integral cove horizontal joint. Use stop at bottom of openings having bullnose return to wall.

f. Wall top edge internal corners: Use special shapes providing integral cove vertical joint with bullnose top edge.

g. Wall top edge external corners: Use special shapes providing bullnose vertical and horizontal joint edge.

## **2.2 BACKER UNITS:**

### **A. Cementitious Backer Units:**

1. Use in showers or wet areas.
2. Conform to ASTM C1325; Type A.
3. Use in maximum lengths available to minimize end to end butt joints.

## **2.3 JOINT MATERIALS FOR CEMENTITIOUS BACKER UNITS:**

- A. Reinforcing Tape: Vinyl coated woven glass fiber mesh tape, open weave, 50 mm (2 inches) wide. Tape with pressure sensitive adhesive backing will not be permitted.
- B. Tape Embedding Material: Latex-portland cement mortar complying with ANSI A108.01.
- C. Joint material, including reinforcing tape, and tape embedding material, are to be as specifically recommended by the backer unit manufacturer.

## **2.4 FASTENERS:**

### **A. Screws for Cementitious Backer Units.**

1. Standard screws for gypsum board are not acceptable.
2. Minimum 11 mm (7/16 inch) diameter head, corrosion resistant coated, with washers.
3. ASTM C954 for steel 1 mm (0.033 inch) thick.
4. ASTM C1002 for steel framing less than 0.0329 inch thick.

### **B. Washers: Galvanized steel, 13 mm (1/2 inch) minimum diameter.**

## **2.5 SETTING MATERIALS OR BOND COATS:**

### **A. Conform to TCNA Handbook for Ceramic Tile Installation.**

### **B. Portland Cement Mortar: ANSI A108.02.**

### **C. Latex-Portland Cement Mortar: ANSI A118.4.**

1. For wall applications, provide non-sagging, latex-portland cement mortar complying with ANSI A118.4.
2. Prepackaged Dry-Mortar Mix: Factory-prepared mixture of portland cement; dry, redispersible, ethylene vinyl acetate additive; and other ingredients to which only water needs to be added at Project site.

- D. Dry-Set Portland Cement Mortar: ANSI A118.1. For wall applications, provide non-sagging, latex-portland cement mortar complying with ANSI A118.1.
- E. Organic Adhesives: ANSI A136.1, Type 1.
- F. Chemical-Resistant Bond Coat:
1. Epoxy Resin Type: ANSI A118.3.
  2. Furan Resin Type: ANSI A118.5.
- G. Elastomeric Waterproofing Membrane and Bond Coat:
1. TCNA F122-14 (on ground concrete) and TCNA F112A-14 (above ground concrete).
  2. ANSI A118.10.
  3. One component polyurethane, liquid applied material having the following additional physical properties:
    - a. Hardness: Shore "A" between 40-60.
    - b. Elongation: Between 300-600 percent.
    - c. Tensile strength: Between .27 - .41 Newton per square millimeter (40-60 pounds per square inch gauge).
    - d. No volatile compounds (VOC).
  4. Coal tar modified urethanes are not acceptable.
- H. Waterproofing Isolation Membrane:
1. Sheet System TCNA F122-14 (on-ground concrete) and TCNA F122A-14 (above-ground concrete).
  2. Composite sheet consisting of ASTM D5109, Type II, Grade I Chlorinated Polyethylene (CM) sheet reinforced on both sides with a non-woven polyester fiber.
  3. Designed for use in wet areas as an isolation and positive waterproofing membranes for thin-set bonding of sheet to substrate and thin-set bonding of ceramic and porcelain tile or marble to sheet. Suited for both horizontal and vertical applications.
  4. Conform to the following additional physical properties:

Property	Units	Results	Test Method
Hardness Shore A	Points	70-80	ASTM D2240 (10 Second Reading)
Shrinkage	Percent	5 maximum	ASTM D1204
Brittleness		No crack remains flexible at	ASTM D2497 13 mm (1/2-inch)

		temperature -37 degrees C (-35 degrees F)	Mandrel Bend
Retention of Properties after Heat Aging	Percent of original	80 Tensile 80 Breaking 80 Elongation	ASTM D3045, 90 degrees C (194 degrees F) for 168 hours

5. Manufacturer's standard sheet size with prefabricated or preformed inside and outside corners.
6. Sheet manufacturer's solvent welding liquid or xylene and edge sealant.

## 2.6 GROUTING MATERIALS:

### A. Coloring Pigments:

1. Pure mineral pigments, lime proof and nonfading, complying with ASTM C979/C979M.
2. Coloring pigments may only be added to grout by the manufacturer.
3. Job colored grout is not acceptable.
4. Use is required in Commercial Portland Cement Grout, Dry-Set Grout, and Latex-Portland Cement Grout.

### B. Standard Cement Grout: ANSI A118.6.

### C. High Performance Tile Grout: ANSI A118.7 with a VOC content of 65 g/L or less when calculated according to 40 CFR 59 (EPA Method 24).

1. Polymer Type: Ethylene vinyl acetate or acrylic additive, in dry, redispersible form, prepackaged with other dry ingredients.
2. Polymer Type: Acrylic in liquid-latex form for addition to prepackaged dry-grout mix.

## 2.7 PATCHING AND LEVELING COMPOUND:

### A. Portland cement base, polymer-modified, self-leveling compound, manufactured specifically for resurfacing and leveling concrete floors. Products containing gypsum are not acceptable.

### B. Provide a patching and leveling compound with the following minimum physical properties:

1. Compressive strength - 25 MPa (3500 psig) per ASTM C109/C109M.
2. Flexural strength - 7 MPa (1000 psig) per ASTM C348 (28 day value).
3. Tensile strength - 4.1 MPa (600 psi) per ANSI 118.7.
4. Density - 1.9.

- C. Capable of being applied in layers up to 38 mm (1-1/2 inches) thick without fillers and up to 101 mm (4 inches) thick with fillers, being brought to a feather edge, and being trowelled to a smooth finish.
- D. Primers, fillers, and reinforcement as required by manufacturer for application and substrate condition.
- E. Ready for use in 48 hours after application.

#### **2.8 MARBLE:**

- A. Soundness Classification in accordance with MIA Design Manual III Groups.
- B. Thresholds:
  - 1. Group A, Minimum abrasive hardness (Ha) of 10.0 per ASTM C1353/C1353M or ASTM C241/C241M.
  - 2. Honed finish on exposed faces.
  - 3. Thickness and contour as indicated in construction documents.
  - 4. Fabricate from one piece without holes, cracks, or open seams; full depth of wall or frame opening by full width of wall or frame opening; 19 mm (3/4-inch) minimum thickness and 6 mm (1/4-inch) minimum thickness at beveled edge.
  - 5. Set not more than 13 mm (1/2-inch) above adjoining finished floor surfaces, with transition edges beveled on a slope of no greater than 1:2. On existing floor slabs provide 13 mm (1/2-inch) above ceramic tile surface with bevel edge joint top flush with adjacent floor.
  - 6. One piece full width of door opening. Notch thresholds to match profile of doorjamb.

#### **2.9 WATER:**

- A. Clean, potable and free from salts and other injurious elements to mortar and grout materials.

#### **2.10 CLEANING COMPOUNDS:**

- A. Specifically designed for cleaning masonry and concrete and which will not prevent bond of subsequent tile setting materials including patching and leveling compounds and elastomeric waterproofing membrane and coat.
- B. Materials containing acid or caustic Material are not acceptable.

### **PART 3 - EXECUTION**

#### **3.1 ENVIRONMENTAL REQUIREMENTS:**

- A. Maintain ambient temperature of work areas at not less than 16 degrees C (60 degrees F), without interruption, for not less than 24

hours before installation and not less than three (3) days after installation.

- B. Maintain higher temperatures for a longer period of time where required by manufacturer's recommendation and ANSI Specifications for installation.
- C. Do not install tile when the temperature is above 38 degrees C (100 degrees F).
- D. Do not install materials when the temperature of the substrate is below 16 degrees C (60 degrees F).
- E. Do not allow temperature to fall below 10 degrees C (50 degrees F) after third day of completion of tile work.

### **3.2 ALLOWABLE TOLERANCE:**

- A. Variation in plane of sub-floor, including concrete fills leveling compounds and mortar beds:
  - 1. Not more than 6 mm in 3048 mm (1/4 inch in 10 feet) from required elevation where portland cement mortar setting bed is used.
  - 2. Not more than 3 mm in 3048 mm (1/8 inch in 10 feet) where dry-set portland cement, and latex-portland cement mortar setting beds and chemical-resistant bond coats are used.
- B. Variation in Plane of Wall Surfaces:
  - 1. Not more than 6 mm in 2438 mm (1/4 inch in 8 feet) from required plane where portland cement mortar setting bed is used.
  - 2. Not more than 3 mm in 2438 mm (1/8 inch in 8 feet) where dry-set or latex-portland cement mortar or organic adhesive setting materials is used.

### **3.3 SURFACE PREPARATION:**

- A. Cleaning New Concrete or Masonry:
  - 1. Chip out loose material, clean off all oil, grease dirt, adhesives, curing compounds, and other deterrents to bonding by mechanical method, or by using products specifically designed for cleaning concrete and masonry.
  - 2. Use self-contained power blast cleaning systems to remove curing compounds and steel trowel finish from concrete slabs where ceramic tile will be installed directly on concrete surface with thin-set materials.
  - 3. Steam cleaning or the use of acids and solvents for cleaning will not be permitted.
- B. Patching and Leveling:

1. Mix and apply patching and leveling compound in accordance with manufacturer's instructions.
  2. Fill holes and cracks and align concrete floors that are out of required plane with patching and leveling compound.
    - a. Thickness of compound as required to bring finish tile system to elevation shown on construction documents.
    - b. Float finish except finish smooth for elastomeric waterproofing.
    - c. At substrate expansion, isolation, and other moving joints, allow joint of same width to continue through underlayment.
  3. Apply patching and leveling compound to concrete and masonry wall surfaces that are out of required plane.
  4. Apply leveling coats of material compatible with wall surface and tile setting material to wall surfaces, other than concrete and masonry that are out of required plane.
- C. Additional preparation of concrete floors for tile set with epoxy, or furan-resin is to be in accordance with the manufacturer's printed instructions.
- D. Walls:
1. In showers or other wet areas cover studs with polyethylene sheet.
  2. Apply leveling coats of material compatible with wall surface and tile setting material to wall surfaces, other than concrete and masonry that are out of required plane.
- E. Existing Floors and Walls:
1. Remove existing composition floor finishes and adhesive. Prepare surface by grinding, chipping, self-contained power blast cleaning or other suitable mechanical methods to completely expose uncontaminated concrete or masonry surfaces. Follow safety requirements of ANSI A10.20.
  2. Remove existing concrete fill or topping to structural slab. Clean and level the substrate for new setting bed and waterproof membrane or cleavage membrane.

### **3.4 CEMENTITIOUS BACKER UNITS:**

- A. Remove polyethylene wrapping from cementitious backer units and separate to allow for air circulation. Allow moisture content of backer units to dry down to a maximum of 35 percent before applying joint treatment and tile.
- B. Install in accordance with ANSI A118.9 except as specified otherwise.

- C. Install units horizontally or vertically to minimize joints with end joints over framing members. Units with rounded edges; face rounded edge away from studs to form a "V" joint for joint treatment.
- D. Secure cementitious backer units to each framing member with screws spaced not more than 203 mm (8 inches) on center and not closer than 13 mm (1/2 inch) from the edge of the backer unit or as recommended by backer unit manufacturer. Install screws so that the screw heads are flush with the surface of the backer unit.
- E. Where backer unit joins shower pans or waterproofing, lap backer unit over turned up waterproof system. Install fasteners only through top one-inch of turned up waterproof systems.
- F. Do not install joint treatment for seven (7) days after installation of cementitious backer unit.
- G. Joint Treatment:
  - 1. Fill horizontal and vertical joints and corners with latex-portland cement mortar. Apply fiberglass tape over joints and corners and embed with same mortar.
  - 2. Leave 6 mm (1/4 inch) space for sealant at lips of tubs, sinks, or other plumbing receptors.

### **3.5 MARBLE:**

- A. Secure thresholds and stools in position with minimum of two stainless steel dowels.
- B. Set in dry-set portland cement mortar or latex-portland cement mortar bond coat.
- C. Set threshold to finish 13 mm (1/2 inch) above ceramic tile floor unless shown otherwise on construction documents, with bevel edge joint top flush with adjacent floor similar to TCNA detail TR611-14.

### **3.6 CERAMIC TILE - GENERAL:**

- A. Comply with ANSI A108/A118/A136 series of tile installation standards applicable to methods of installation and TCNA Installation Guidelines.
- B. Setting Beds or Bond Coats:
  - 1. Set floor tile in elastomeric bond coat over elastomeric membrane per ANSI 108.13, TCNA System F122-14 where indicated on construction documents.
  - 2. Set wall tile installed over concrete backer board in latex-portland cement mortar, ANSI A108.1B.
  - 3. Set tile installed over gypsum board and gypsum plaster in organic adhesive, ANSI A108.1, TCNA System W242-14.



4. Set trim shapes in same material specified for setting adjoining tile.

C. Workmanship:

1. Lay out tile work so that no tile less than one-half full size is used. Make all cuts on the outer edge of the field.
2. Set tile firmly in place with finish surfaces in true planes. Align tile flush with adjacent tile unless shown otherwise on construction documents.
3. Form intersections and returns accurately.
4. Cut and drill tile neatly without marring surface.
5. Cut edges of tile abutting penetrations, finish, or built-in items:
  - a. Fit tile closely around electrical outlets, piping, fixtures and fittings, so that plates, escutcheons, collars and flanges will overlap cut edge of tile.
  - b. Seal tile joints water tight as specified in Section 07 92 00, JOINT SEALANTS, around electrical outlets, piping fixtures and fittings before cover plates and escutcheons are set in place.
6. Completed work is to be free from hollow sounding areas and loose, cracked or defective tile.
7. Remove and reset tiles that are out of plane or misaligned.
8. Floors:
  - a. Extend floor tile beneath casework and equipment, except those units mounted in wall recesses.
  - b. Align finish surface of new tile work flush with other and existing adjoining floor finish where indicated in construction documents.
  - c. In areas where floor drains occur, slope tile to drains.
  - d. Push and vibrate tiles over 203 mm (8 inches) square to achieve full support of bond coat.
9. Walls:
  - a. Cover walls and partitions, including pilasters, furred areas, and freestanding columns from floor to ceiling, or from floor to nominal wainscot heights as indicated in construction documents with tile.
  - b. Finish reveals of openings with tile, except where other finish materials are indicated in construction documents.

- c. Finish wall surfaces behind and at sides of casework and equipment, except those units mounted in wall recesses, with same tile as scheduled for room proper.

10. Joints:

- a. Keep all joints in line, straight, level, perpendicular and of even width unless shown otherwise on construction documents.
- b. Make joints 2 mm (1/16 inch) wide for glazed wall tile and mosaic tile work.

11. Back Buttering: For installations indicated below, obtain 100 percent mortar coverage by complying with applicable special requirements for back buttering of tile in referenced ANSI A108/A118/A136 series of tile installation standards:

- a. Tile wall installations in wet areas, including showers, tub enclosures, laundries and swimming pools.
- b. Tile installed with chemical-resistant mortars and grouts.
- c. Tile wall installations composed of tiles 203 by 203 mm (8 by 8 inches) or larger.
- d. Exterior tile wall installations.

**3.7 THIN SET CERAMIC AND PORCELAIN TILE INSTALLED WITH ORGANIC ADHESIVE**

- A. Installation of Tile: ANSI A108.4.

**3.8 THIN SET CERAMIC AND PORCELAIN TILE INSTALLED WITH CHEMICAL-RESISTANT BOND COAT:**

- A. Furan Resin Type: Proportion, mix and place in accordance with the manufacturer's printed instructions. Set tile in accordance with ANSI A108.8.

**3.9 CERAMIC AND PORCELAIN TILE INSTALLED WITH ELASTOMERIC BOND COAT:**

- A. Surface Preparation: Prepare surfaces as specified.
- B. Installation of Elastomeric Membrane: ANSI A108.10 and TCNA F122-14 (on ground concrete) and F122A-14 (above-ground concrete).
  - 1. Prime surfaces, where required, in accordance with manufacturer's instructions.
  - 2. Install first coat of membrane material in accordance with manufacturer's instructions, in thickness of 0.76 to 1.3 mm (30 to 50 mils).
  - 3. Extend material over flashing rings of drains and turn up vertical surfaces not less than 101 mm (4 inches) above finish floor surface.

4. When material has set, recoat areas with a second coat of elastomeric membrane material for a total thickness of 1.3 to 1.9 mm (50 to 75 mils).

5. After curing test for leaks with 25 mm (1 inch) of water for 24 hours.

C. Installation of Tile in Elastomeric Membrane:

1. Spread no more material than can be covered with tile before material starts to set.
2. Apply tile in second coat of elastomeric membrane material in accordance with the coating manufacturer's instructions in lieu at aggregate surfacing specified in ASTM C1127. Do not install top coat over tile.

**3.10 GROUTING:**

A. Grout Type and Location:

1. Grout for glazed wall and base tile, portland cement grout, latex-portland cement grout, dry-set grout, or commercial portland cement grout.

B. Workmanship:

1. Install and cure grout in accordance with the applicable standard.
2. Sand Portland Cement Grout: ANSI A108.10.
3. Standard Cement Grout: ANSI A118.6.
4. High Performance Grout: ANSI A118.7.
5. Epoxy Grout: ANSI A108.6.
6. Water-Cleanable Epoxy Grout: ANSI A118.3.
7. Furan and Commercial Portland Cement Grout: ANSI A118.5 and in accordance with the manufacturer's printed instructions.

**3.11 MOVEMENT JOINTS:**

A. Prepare tile expansion, isolation, construction and contraction joints for installation of sealant. Refer to Section 07 92 00, JOINT SEALANTS.

B. TCNA details EJ 171-14.

**3.12 CLEANING:**

- A. Thoroughly sponge and wash tile. Polish glazed surfaces with clean dry cloths.
- B. Methods and materials used are not permitted to damage or impair appearance of tile surfaces.
- C. The use of acid or acid cleaners on glazed tile surfaces is prohibited.

- D. Clean tile grouted with epoxy, furan and commercial portland cement grout and tile set in elastomeric bond coat as recommended by the manufacturer of the grout and bond coat.

**3.13 PROTECTION:**

- A. Keep traffic off tile floor, until grout and setting material is fully set and cured.
- B. Where traffic occurs over tile floor is unavoidable, cover tile floor with not less than 9 mm (3/8 inch) thick plywood, wood particle board, or hardboard securely taped in place. Do not remove protective cover until time for final inspection. Clean tile of any tape, adhesive and stains.

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**SECTION 09 68 00**  
**CARPETING**  
**10-01-15**

**Addendum 1**  
**October 9, 2015**

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

- A. Section specifies carpet, edge strips, adhesives, and other items required for complete installation.

**1.2 RELATED WORK:**

- A. Manufacturer, Color and Style of Carpet and Edge Strip:  
Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Resilient Wall Base: Section 09 65 13, RESILIENT BASE AND ACCESSORIES.

**1.3 QUALITY ASSURANCE:**

- A. Installer Qualifications: A company specializing in carpet installation with a minimum three (3) years' experience and employing experienced flooring installers who have retained, and currently hold, an INSTALL Certification, or a certification from a comparable certification program, and a valid OSHA 10 certification.
  - 1. Installers to be certified by INSTALL or a comparable certification program with the following minimum criteria:
    - a. US Department of Labor approved four (4) year apprenticeship program, 160 hours a year.
    - b. Career long training.
    - c. Manufacturer endorsed training.
    - d. Fundamental journeyman skills certification.

**1.4 SUBMITTALS:**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Product Data:
  - 1. Manufacturer's catalog data and printed documentation stating physical characteristics, durability, resistance to fading and flame resistance characteristics for each type of carpet material and installation accessory.
  - 2. Manufacturer's printed installation instructions for the carpet, including preparation of installation substrate, seaming techniques and recommended adhesives and tapes.

C. Samples:

1. Carpet: "Production Quality" samples 305 x 305 mm (12 x 12 inches) of carpets, showing quality, pattern and color specified in Section 09 06 00, SCHEDULE FOR FINISHES.
2. Floor Edge Strip (Molding): 152 mm (6 inches) long of each color and type specified.
3. Base Edge Strip (Molding): 152 mm (6 inches) long of each color specified.

D. Shop Drawings: Installers layout plan showing seams and cuts for sheet carpet and carpet module.

E. Maintenance Data: Carpet manufacturer's maintenance instructions describing recommended type of cleaning equipment and material, spotting and cleaning methods and cleaning cycles.

F. Installer's Qualifications.

G. Manufacturer's warranty.

**1.5 DELIVERY AND STORAGE:**

- A. Deliver carpet in manufacturer's original wrappings and packages clearly labeled with manufacturer's brand name, size, dye lot number and related information. Transport carpet to job site in a manner that prevents damage and distortion that might render it unusable. When bending or folding is unavoidable for delivery purposes, unfold carpet and lay flat immediately.
- B. Deliver adhesives in containers clearly labeled with manufacturer's brand name, number, installation instructions, safety instructions and flash points.
- C. Store in a clean, dry, well-ventilated area, protected from damage and soiling. Before installation, acclimate carpet to the atmospheric conditions of the areas in which it will be installed for 2 days prior to installation

**1.6 ENVIRONMENTAL REQUIREMENTS:**

- A. Maintain areas in which carpeting is to be installed at a temperature between 18 - 35 degrees C (65 - 95 degrees F) with a maximum relative humidity of 65 percent for two (2) days before installation, during installation and for three (3) days after installation.
- B. Minimum Substrate Surface Temperature: 18 degrees C (65 degrees F) at time of installation.

- C. Three (3) days after installation, maintain minimum temperature of 10 degrees C (50 degrees F) for the duration of the contract.

**1.7 WARRANTY:**

- A. Construction Warranty: Comply with FAR clause 52.246-21, "Warranty of Construction".
- B. Manufacturer Warranty: Manufacturer shall warranty their carpet for a minimum of ten (10) years from date of installation and final acceptance by the Government. Submit manufacturer warranty.

**1.8 APPLICABLE PUBLICATIONS:**

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.
- B. American National Standards Institute (ANSI):  
ANSI/NSF 140-10.....Sustainable Carpet Assessment Standard
- C. American Association of Textile Chemists and Colorists (AATCC):  
16-04.....Colorfastness to Light  
134-11.....Electric Static Propensity of Carpets  
165-08.....Colorfastness to Crocking: Textile Floor Coverings-AATCC Crockmeter Method  
174-11.....Antimicrobial Activity Assessment of New Carpets
- D. ASTM International (ASTM):  
D1335-12.....Tuft Bind of Pile Yarn Floor Coverings  
D3278-96(R2011).....Flash Point of Liquids by Small Scale Closed-Cup Apparatus  
D5116-10.....Determinations of Organic Emissions from Indoor Materials/Products  
D5252-11.....Operation of the Hexapod Tumble Drum Tester  
D5417-11.....Operation of the Vettermann Drum Tester  
E648-14c.....Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
- E. Code of Federal Regulation (CFR):  
40 CFR 59.....Determination of Volatile Matter Content, Water Content, Density Volume Solids, and Weight Solids of Surface Coating
- F. The Carpet and Rug Institute (CRI):  
CIS.....Carpet Installation Standard
- G. International Standards and Training Alliance (INSTALL)



H. International Organization for Standardization (ISO):

2551-81.....Machine-Made Textile Floor Coverings

I. U.S. Consumer Product and Safety Commission (CPSC):

16 CFR 1630.....Surface Flammability of Carpets and Rugs

**PART 2 - PRODUCTS**

**2.1 CARPET:**

A. Physical Characteristics:

1. Carpet free of visual blemishes, streaks, poorly dyed areas, fuzzing of pile yarn, spots or stains and other physical and manufacturing defects.
2. Type:
  - a. Carpet Construction - To match existing clinic standard.
  - b. Carpet Type: Modular tile 610 by 610 mm square 24 by 24 inch square with 0.15 percent growth/shrink rate in accordance with ISO 2551.
  - c. Pile Type: To match existing clinic standard. Pile type and thickness must conform to ADA requirements.
  - d. Pile Fiber: Commercial 100 percent branded (federally registered trademark), nylon continuous filament.
3. Static Control: Provide static control to permanently regulate static buildup to less than 3.5 kV when tested at 20 percent relative humidity and 21 degrees C (70 degrees F) in accordance with AATCC 134.
4. Backing Materials: Provide backing for release adhesive for modular tile installations. For healthcare installations, provide impervious moisture backing that is 100 percent PVC free.
  - a. Modular Tile:
    - 1) Primary Backing/Backcoating: Manufacturer's standard composite materials.
    - 2) Secondary Backing: Manufacturer's standard material.
5. Appearance Retention Rating (ARR): Carpet to be tested and have the minimum 3.5 - 4.0 severe ARR when tested in accordance with either the ASTM D5252 (Hexapod) or ASTM D5417 (Vettermann) test methods using the number of cycles for short and long term tests as specified in the ASTM standard.
6. Tuft Bind: Comply with ASTM D1335 for tuft bind force required to pull a tuft or loop free from carpet backing with a minimum 36 N (8 pound) average force for modular carpet tile.

7. Colorfastness to Crocking: Dry and wet crocking and water bleed, comply with AATCC 165 Color Transference Chart for colors, minimum class 4 rating.
8. Colorfastness to Light (AATCC 16, Option 3): Color change between the exposed and unexposed carpet areas equivalent to a minimum of Grade 4 on the Gray Scale for Color Change after an exposure of 40 AFU (AATCC fading units) for all specified colors.
9. Delamination Strength: Minimum of 440 N/m (2.5 lb./inch) between secondary backing.
10. Flammability and Critical Radiant Flux Requirements:
  - a. Comply with 16 CFR 1630.
  - b. Test Carpet in accordance with ASTM E648.
  - c. Class I: Minimum critical radiant flux of 0.45 watts per square centimeter (2.9 watts per square inch).
  - d. Carpet in corridors, exits and Medical Facilities to be Class I.
11. Average Pile Yarn Density (APYD):
  - a. Corridors, lobbies, entrances, common areas or multipurpose rooms, open offices, waiting areas and dining areas: Minimum APYD 6000.
  - b. Other areas: Minimum APYD 4000.
12. Antimicrobial: Nontoxic antimicrobial treatment in accordance with AATCC 174 Part I (qualitative), guaranteed by the carpet manufacturer to last the life of the carpet.
13. VOC Limits: Use carpet that complies with the following limits for VOC content when tested according to ASTM D5116:
  - a. Carpet, Total VOCs: 0.5 mg/sq.m x hr.
  - b. Carpet, 4-PC (4-Phenylcyclohexene): 0.05 mg/sq.m x hr.
  - c. Carpet, Formaldehyde: 0.05 mg/sq.m x hr.
  - d. Carpet, Styrene: 0.4 mg/sq.m x hr.

## **2.2 ADHESIVE AND CONCRETE PRIMER:**

- A. Provide water resistant, mildew resistant, nonflammable, and nonstaining adhesives and concrete primers for carpet installation. Provide release adhesive for modular tile carpet as recommended by the carpet manufacturer. Provide adhesives flashpoint of minimum 60 degrees C (140 degrees F) in accordance with ASTM D3278. Materials are to have a VOC maximum of 50 g/L when calculated according to 40 CFR 59, (EPA Method 24).

### **2.3 SEAMING TAPE:**

- A. Provide tape for seams as recommended by the carpet manufacturer for the type of seam used in installation. Seam sealant is to have a maximum VOC content of 50 g/L when calculated according to 40 CFR 59, (EPA Method 24). Do not use sealants that contain 1,1,1-trichloroethane or toluene.

### **2.4 EDGE STRIPS (MOLDING):**

- A. Metal:
  - 1. Hammered surface aluminum, pinless, clamp down type designed for the carpet being installed.
  - 2. Floor flange not less than 38 mm (1-1/2 inches) wide, face not less than 16 mm (5/8 inch) wide.
  - 3. Finish: Clear anodic coating unless specified otherwise in Section 09 06 00, SCHEDULE FOR FINISHES.

## **PART 3 - EXECUTION**

### **3.1 SURFACE PREPARATION:**

- A. Contractor to prepare and test surfaces to receive carpet and adhesives as per Section 09 05 16, SUBSURFACE PREPARATION FOR FLOOR FINISHES.

### **3.2 GENERAL INSTALLATION:**

- A. Isolate area of installation from rest of building.
- B. Perform all work by manufacturer's approved installers. Conduct installation in accordance with the manufacturer's printed instructions and CRI CIS.
- C. Protect edges of carpet meeting hard surface flooring with molding and install in accordance with the molding manufacturer's printed instructions.
- D. Follow ventilation, personal protection, and other safety precautions recommended by the adhesive manufacturer. Continue ventilation during installation and for at least three (3) days following installation.
- E. Do not permit traffic or movement of furniture or equipment in carpeted area for 24 hours after installation.
- F. Complete other work which would damage the carpet prior to installation of carpet.
- G. Follow carpet manufacturer's recommendations for matching pattern and texture directions.
- H. Cut openings in carpet where required for installing equipment, pipes, outlets, and penetrations. Bind or seal cut edge of sheet carpet. Use

additional adhesive to secure carpets around pipes and other vertical projections.

**3.3 MODULAR TILE INSTALLATION:**

- A. Install per CRI CIS, Adhesive Application.
- B. Lay carpet modules with pile in same direction unless specified otherwise in Section 09 06 00, SCHEDULE FOR FINISHES.
- C. Install carpet modules so that cleaning methods and solutions do not cause dislocation of modules.
- D. Lay carpet modules uniformly to provide tight flush joints free from movement when subject to traffic.

**3.4 EDGE STRIPS INSTALLATION**

- A. Install edge strips over exposed carpet edges adjacent to uncarpeted finish flooring.
- B. Anchor metal strips to floor with suitable fasteners. Apply adhesive to edge strips, insert carpet into lip and press it down over carpet.

**3.5 PROTECTION AND CLEANING:**

- A. Once a carpet installation is complete, clean up scrap materials and debris, and vacuum the area, using manufacturer-approved equipment. Inspect seams carefully for evenness and protruding backing yarns, and inspect the perimeter of the installation for an acceptable finished appearance.
- B. Protect installed carpet if furniture is being moved, by laying plywood, fiberboard or porous non-staining sheeting material for minimum time practical. Based on manufacturer guidelines, protect carpet from rolling or foot traffic. Protect against other materials or renovation or construction activities, including dust, debris, paint, contractor traffic, until it is ready for its final use.
- C. Do not move furniture or equipment on unprotected carpeted surfaces.
- D. Just before final acceptance of work, remove protection and vacuum carpet clean.

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**SECTION 11 73 00**  
**~~CEILING MOUNTED~~ FLOOR/WALL PATIENT LIFT SYSTEM**

09-01-14

Addendum 1 October 9, 2015
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**PART 1 - GENERAL**

**1.1 DESCRIPTION**

Ceiling **Floor/Wall** Mounted Patient Lift Systems for the transfer of physically challenged patients as specified in this section.

**1.2 RELATED WORK**

- A. Section 01 00 00, GENERAL REQUIREMENTS: Requirements for pre-test of equipment.
- B. Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS: General Electrical Requirements and items, which are common to sections of Division 26.

**1.3 QUALITY ASSURANCE**

- A. Certification for compliance is required for Ceiling **Floor/Wall** Mounted Patient Lift Systems. Certifications shall be provided by an independent third party who will conduct testing to ensure that the ceiling lift and charging system are safe and in compliance with ISO 10535 & UL 60601-1
- B. Inspection of equipment after installation is required prior to use for patient movement. Inspection shall be in accordance with manufacturer's installation checklist and the facilities installation checklist (Patient Safety Alert AL14-07).

**1.4 SUBMITTALS**

- A. Submit in accordance with specification Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
- B. Certificates of Compliance
- C. Manufacturer's Literature and Data:
  - 1. Lifting Capacity
  - 2. Lifting Speed
  - 3. Horizontal Displacement Speeds
  - 4. Horizontal Axis Motor
  - 5. Vertical Axis Motor
  - 6. Emergency Brake
  - 7. Emergency Lowering Device
  - 8. Emergency Stopping Device

9. Electronic Soft-Start and Soft-Stop Motor Control
  10. Current Limiter for Circuit Protection
  11. Low Battery Disconnect System
  12. Strap Length
  13. All equipment anchors and supports. Submittals shall include weights, dimensions, center of gravity, standard connections, manufacturer's recommendations and behavior problems (e.g., vibration, thermal expansion,) associated with equipment or piping so that the proposed installation can be properly reviewed.
- D. Individual Room layouts showing location of lift system installation shall be approved before proceeding with installation of lifts.
- E. Manufacturer's Checklist for after installation inspection.

### 1.5 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are listed in the text by the basic designation only.
- B. International Organization for Standardization (IOS):  
10535-06.....Hoist for the Transfer of Disabled Persons-  
Requirements and Test Methods
- C. Underwriters Laboratories (UL):  
60601-1(2003).....Medical Electrical Equipment: General  
Requirements for Safety  
94-2013.....UL Standards for Safety Test for Flammability  
of Plastic Materials for Parts in Devices and  
Appliances-Fifth Edition
- D. International Electromagnetic Commission (IEC):  
801-2(1991).....Electromagnetic Compatibility for Industrial-  
Process Measurement and Control Equipment-Part  
2: Electromagnetic Discharge Requirements
- E. Patient Safety Alert AL14-07

## PART 2 - PRODUCTS

### 2.1 FLOOR/WALL TRACK SYSTEM

- ~~A. The Ceiling Track shall be made from high strength extruded aluminum T66081-T5 at a thickness of 3/16" (4.8mm). Provide anchor supports at a minimum 3 per linear foot at ceiling substrate. The ceiling track shall be finished with baked enamel paint. Ceiling mounted (Rms C120 and C125).~~

1. The ceiling track shall be made from high TBD.
2. Provide anchor supports at ceiling substrate per manufacturer requirements. Provide rail support to structure above per manufacturers requirements. Provide track configuration as shown on documents.
3. The ceiling track shall be finished with baked enamel paint.

**B. Floor/Wall Mounted (Rm C122, 120 & 125) Basis of Design: Hillrom**

1. The track system shall be made from high strength extruded aluminum T66081-T5 at a thickness of 3/16" (4.8mm).
2. Provide wall/column supports per manufactures recommendations for room size and equipment travel. Coordinate placement with current imaging equipment.
3. The ceiling track and columns shall be finished with baked enamel paint.

## 2.2 LIFT UNIT

- A. The Lift Unit shall be constructed of a steel frame system (2205lbs / 1000kg tested) driven by a gear reduced high torque motor
- B. The Lift system shall have the following features.
  1. Lifting capacity: 440<sup>550</sup> lbs (200<sup>250</sup> kg)
  2. Electronic soft-start and soft-stop motor control
  3. Emergency lowering device
  4. Emergency stopping device
  5. Current limiter for circuit protection in case of overload.
  6. Safety device that stops the motor to lift when batteries are low.
  7. Lifting speed: 2.3in/s (6 cm/s), 1.6in/s (3.5cm) in full capacity
  8. Horizontal displacement speed: 5.9in/s (150mm/s)
  9. Horizontal axis motor: 24VDC at 62 watts and vertical axis motor at 110 watts
  10. Emergency brake (in case of mechanical failure)
  11. Strap length up to 90in (2.3m) tested for 2998lbs (1360kg)
  12. Cab: VO plastic-fire retardant, UL 94
  13. Wireless remote control (optional)

## 2.3 MOTORS

- A. Vertical Movement-DC Motor
  1. Type: Class A, fully enclosed, permanent magnet.
  2. Rating: 24Vdc, 1.1A, 110W, 4000RPM, 0.3N-m.
  3. Mounting: Secured to chassis.



B. Horizontal Movement-DC Motor

1. Type: Fully enclosed, permanent magnet, integral reducer.
2. Rating: 24Vdc, 1.8A, 62W, 260RPM, 1.0N-m.
3. Mounting: Secured to chassis.

**2.4 BATTERIES**

- A. The life cycle (number of charging cycles) for batteries shall be in compliance with IEC 801-2.
- B. Provide rechargeable batteries with up to 120 transfers with a load of 200lbs (74kg) and up to 70 transfers with its maximum load of 440lbs (200kg).

**2.5 CHARGER**

- A. Charger Input: 100-240 Vac, 50/60 Hz.
- B. Charger Output: 27 Vdc, 1 A max.
- C. Supplemental to the charger provide a clip on charging station with indicator lights.

**2.6 STRAPS AND SLING**

- A. The straps shall be made of threaded nylon. The straps shall ensure the patient's safety by preventing the patient from falling out of the sling.
- B. The sling shall be made from a polyester/nylon net material that is pliable, breathable and easy to use. The sling shall cradle the body of the patient.

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

- A. Install ~~ceiling-mounted~~ patient lift system as per manufacturer's instruction and under the supervision of manufacturer's qualified representative and as shown on drawings.
- ~~B. If the distance in between the suspended ceiling and anchors is more than 18" consult with manufacturer to determine if lateral braces will be required.~~

**3.2 INSTRUCTION AND PERSONNEL TRAINING**

Training shall be provided for the required personnel to educate them on proper operation and maintenance for the lift system equipment.

**3.3 TEST**

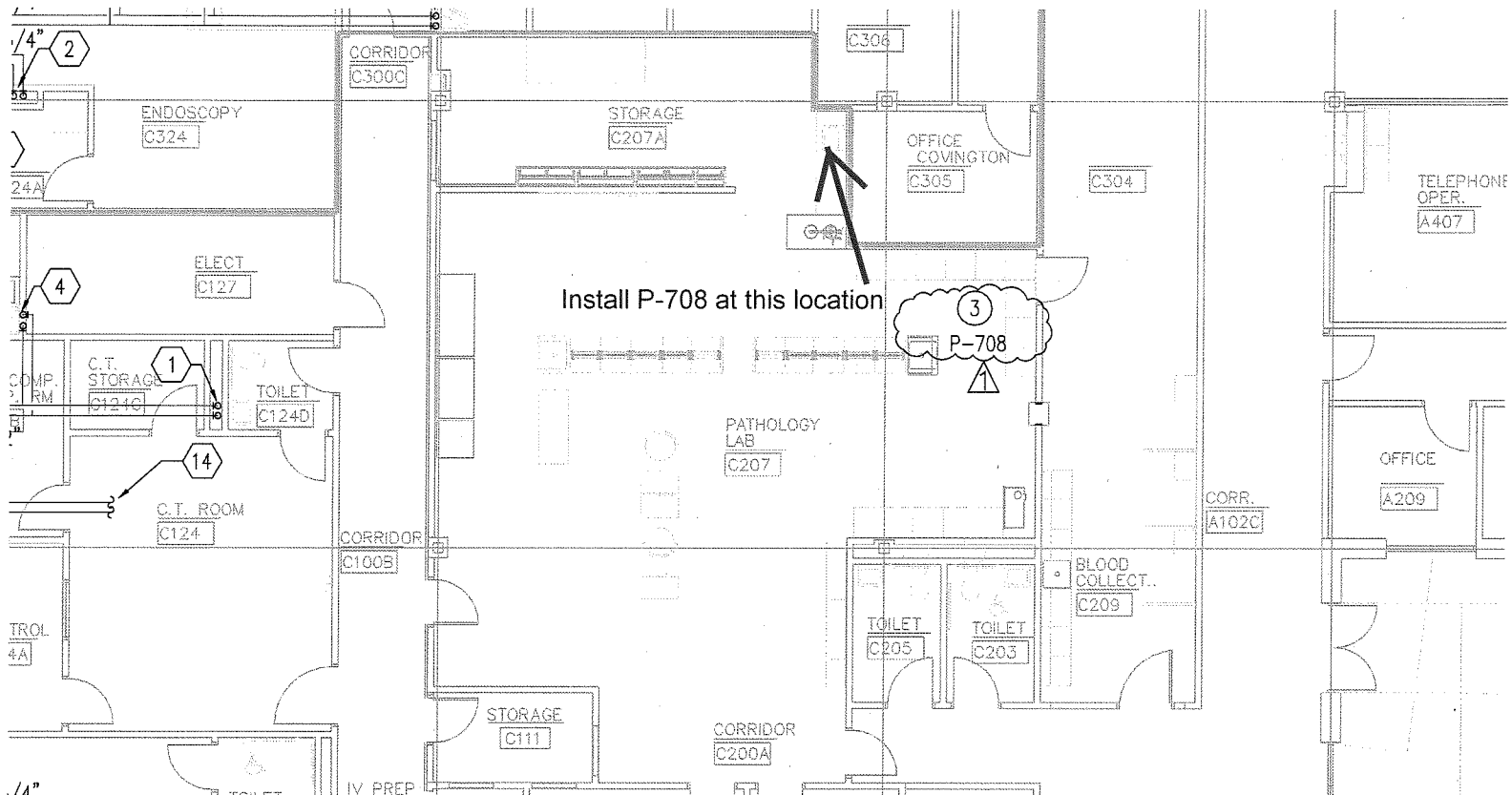
Conduct performance test, in the presence of the Resident Engineer and a manufacturer's field representative, to show that the patient lift system equipment and control devices operate properly and in accordance with design and specification requirements.

### **3.4 INSPECTION**

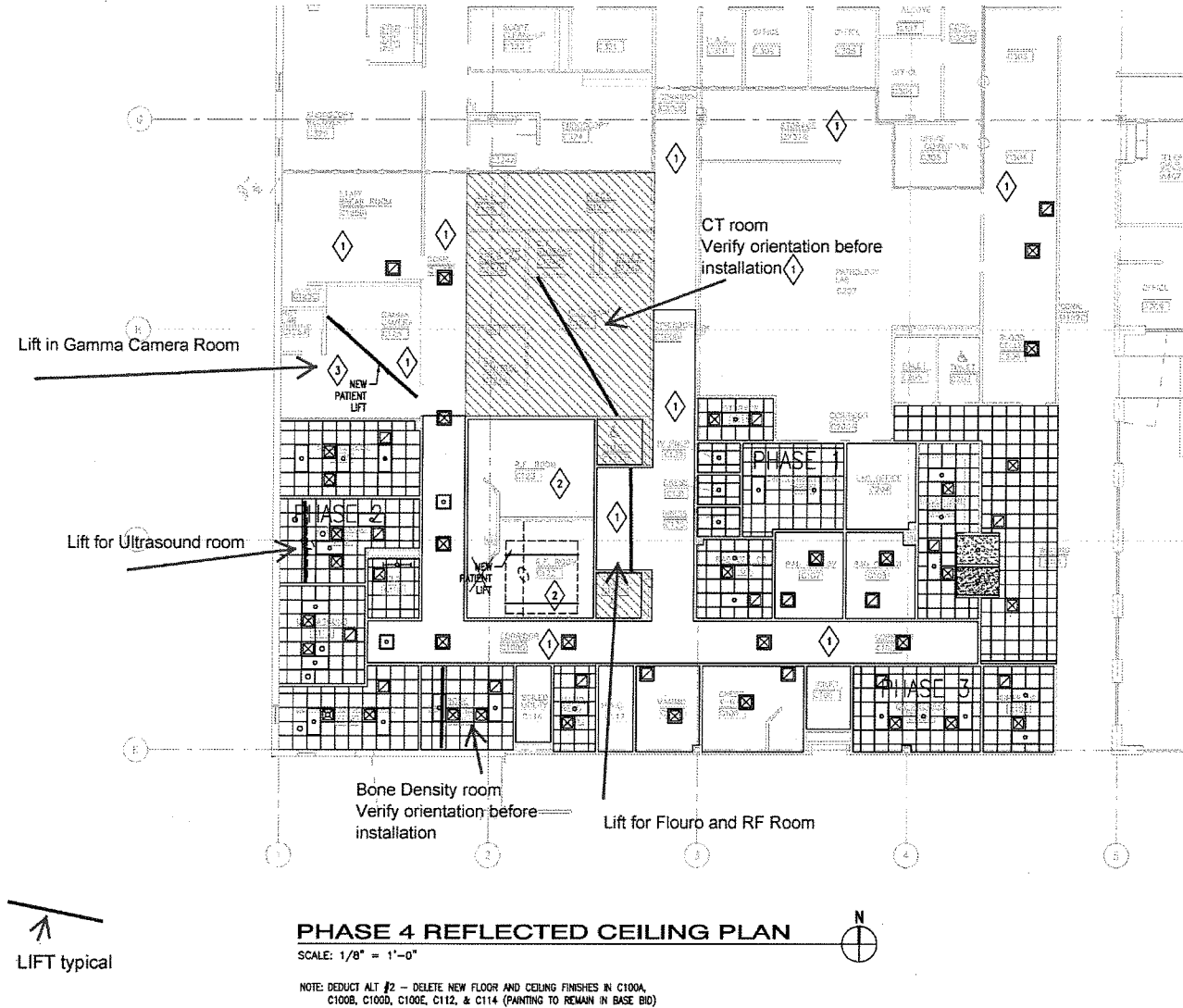
Inspection of installed ceiling mounted patient lift systems shall be conducted in accordance with the manufacturer's installation checklist and the facilities installation checklist (Patient Safety Alert AL14-07) prior to use for patient movement.

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## REVISED PORTION OF PL201 Addendum No.1

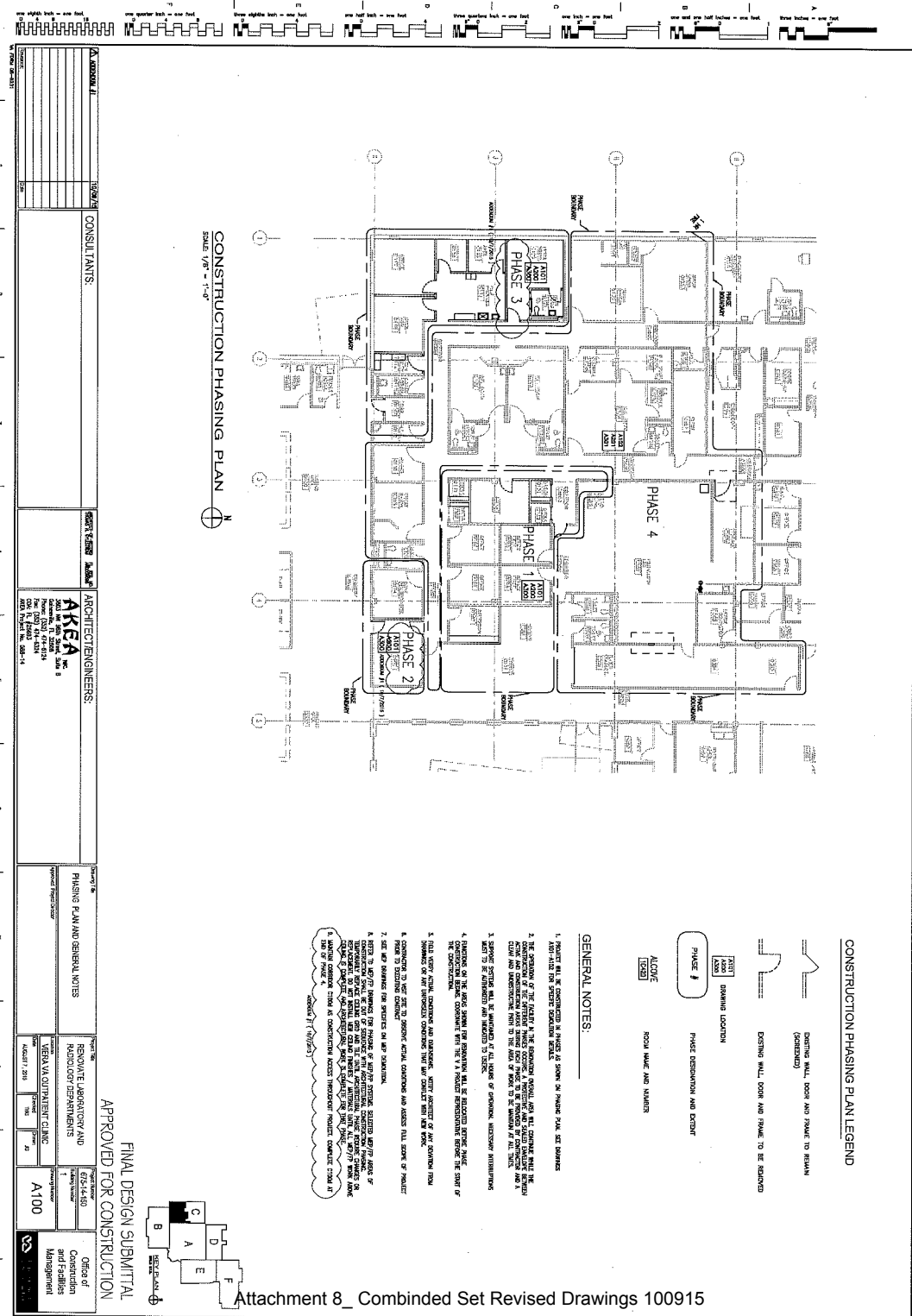


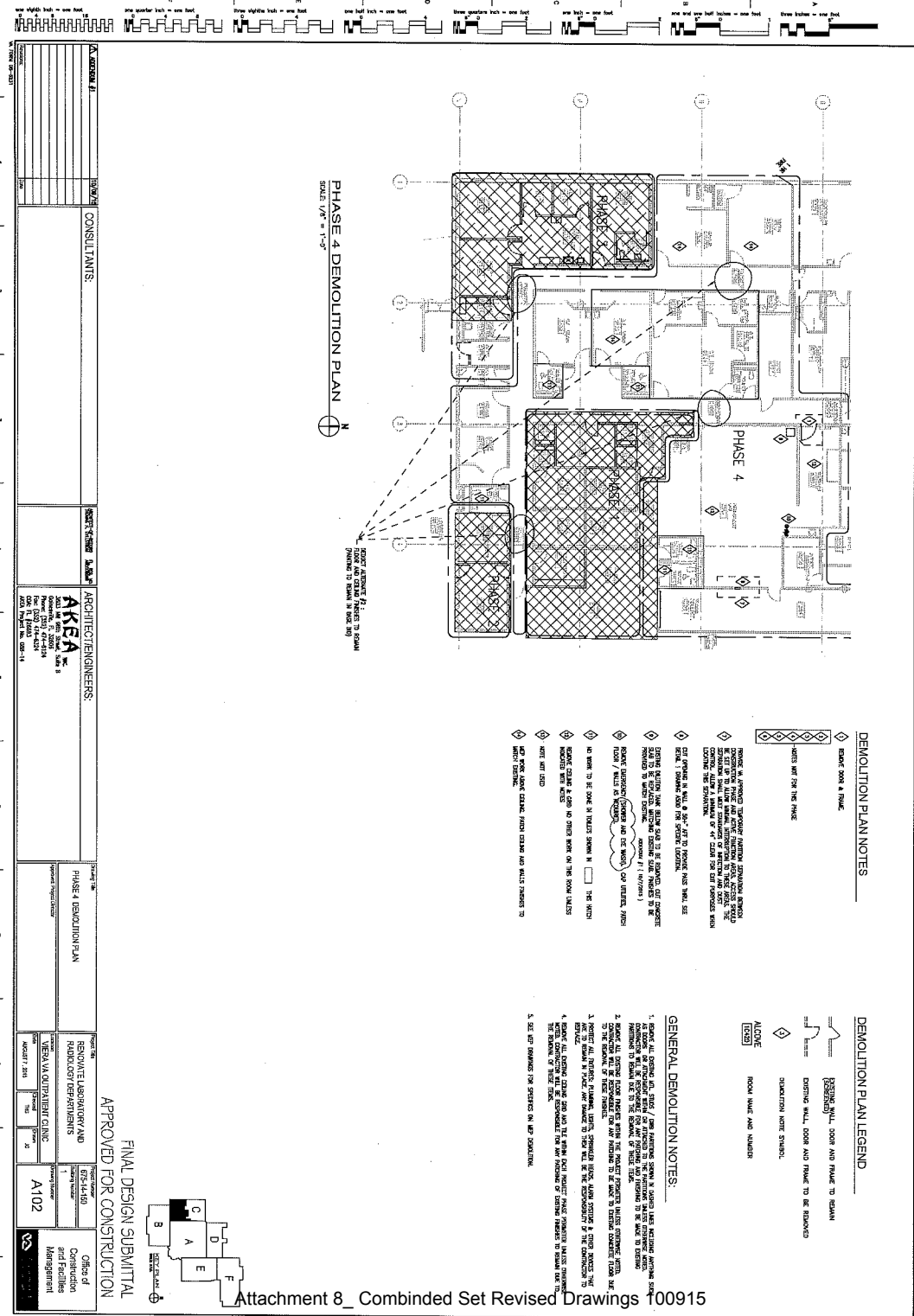
Note: All Lifts are wall/floor mounted. Lifts shall be Hill-Rom. Hill-Rom Manufacturer Representative is Michelle Unger-Koop 312-502-6691.

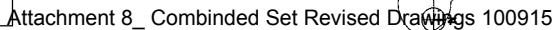
Assume Lift installation will require relocation/adjustment of two to three ceiling components (light fixtures, air duct, fire sprinkler, etc) at each of five locations.

675-14-150 RENOVATE LABORATORY AND RADIOLOGY DEPARTMENTS

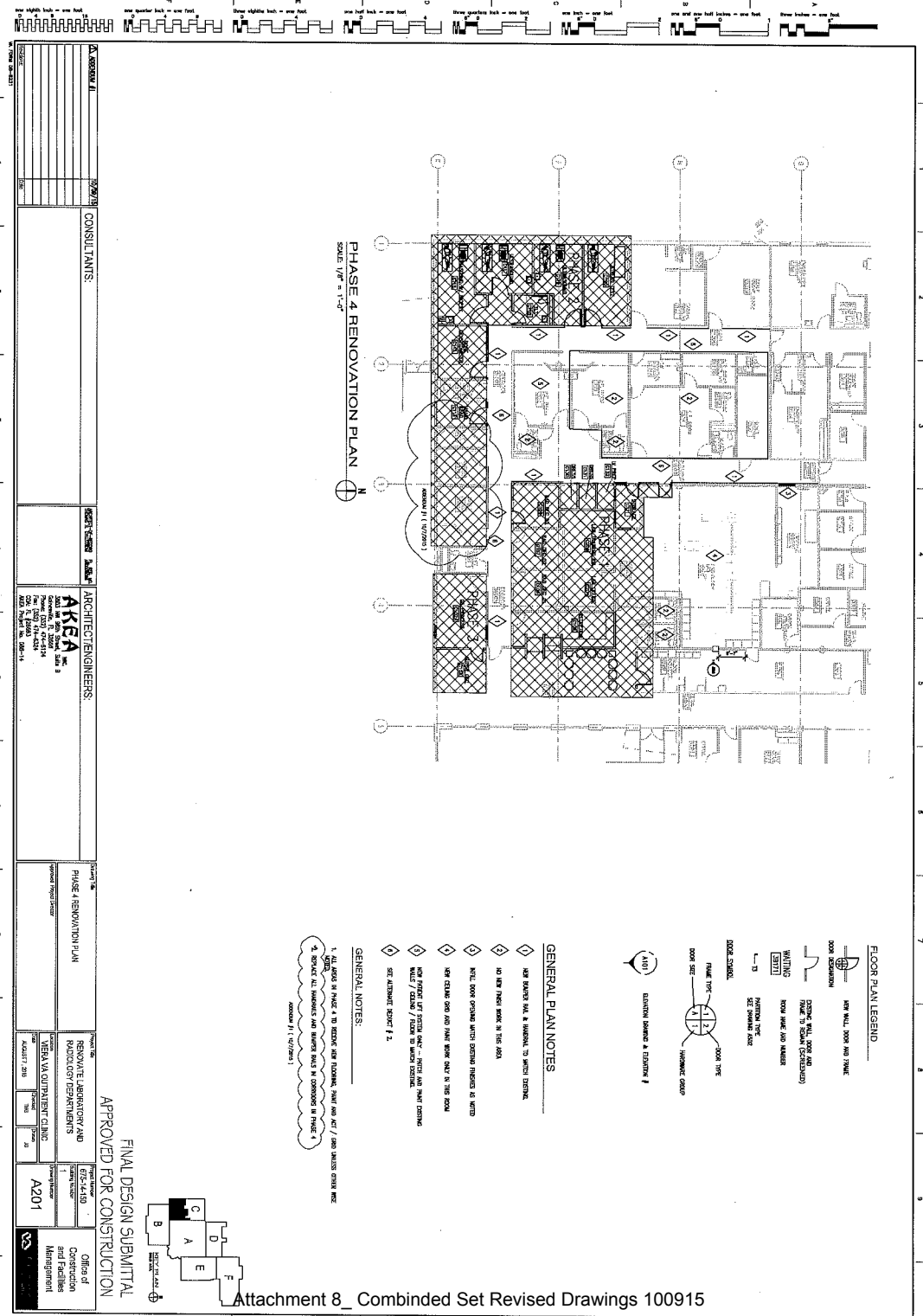
## LIFT SITE PLAN



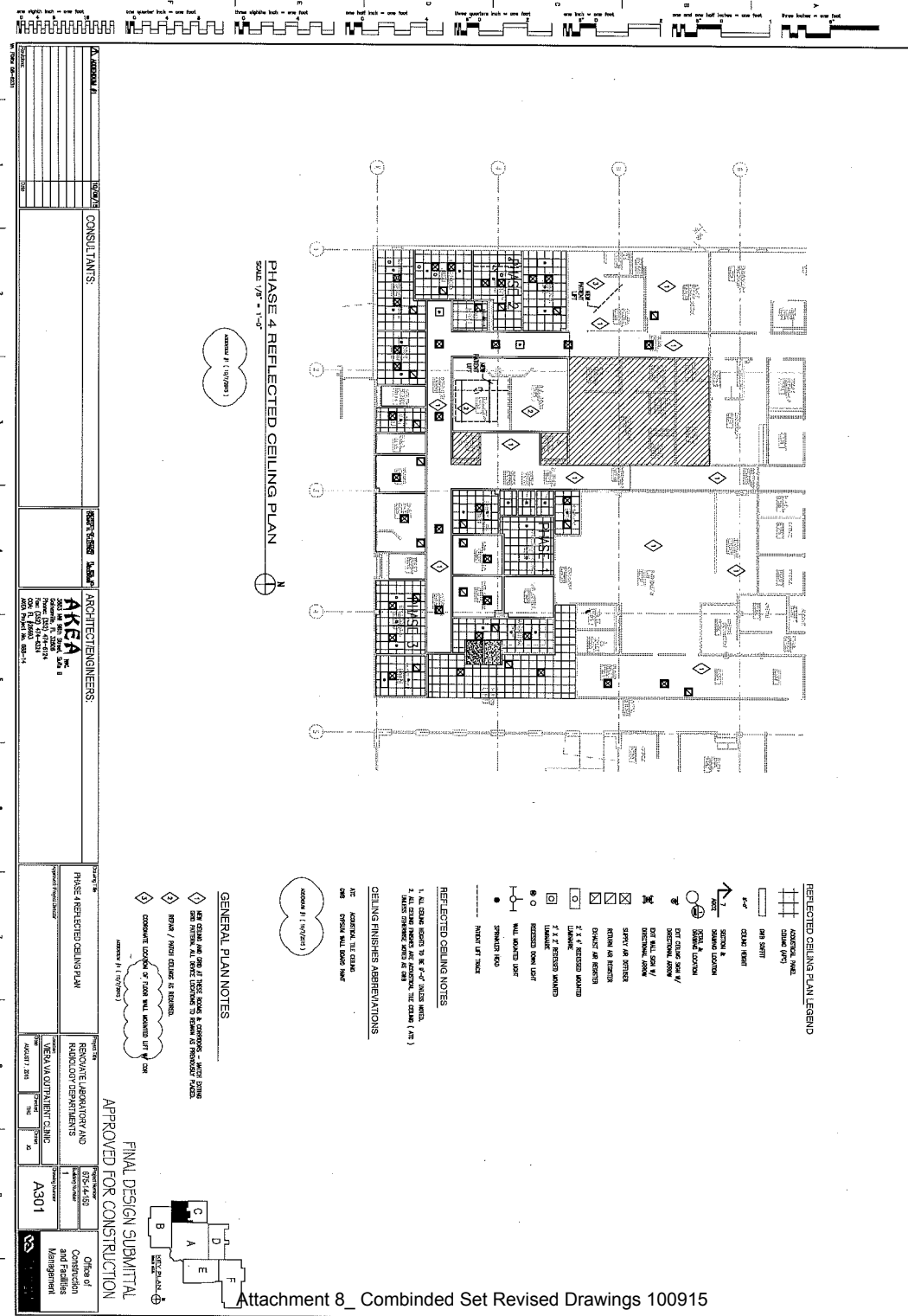


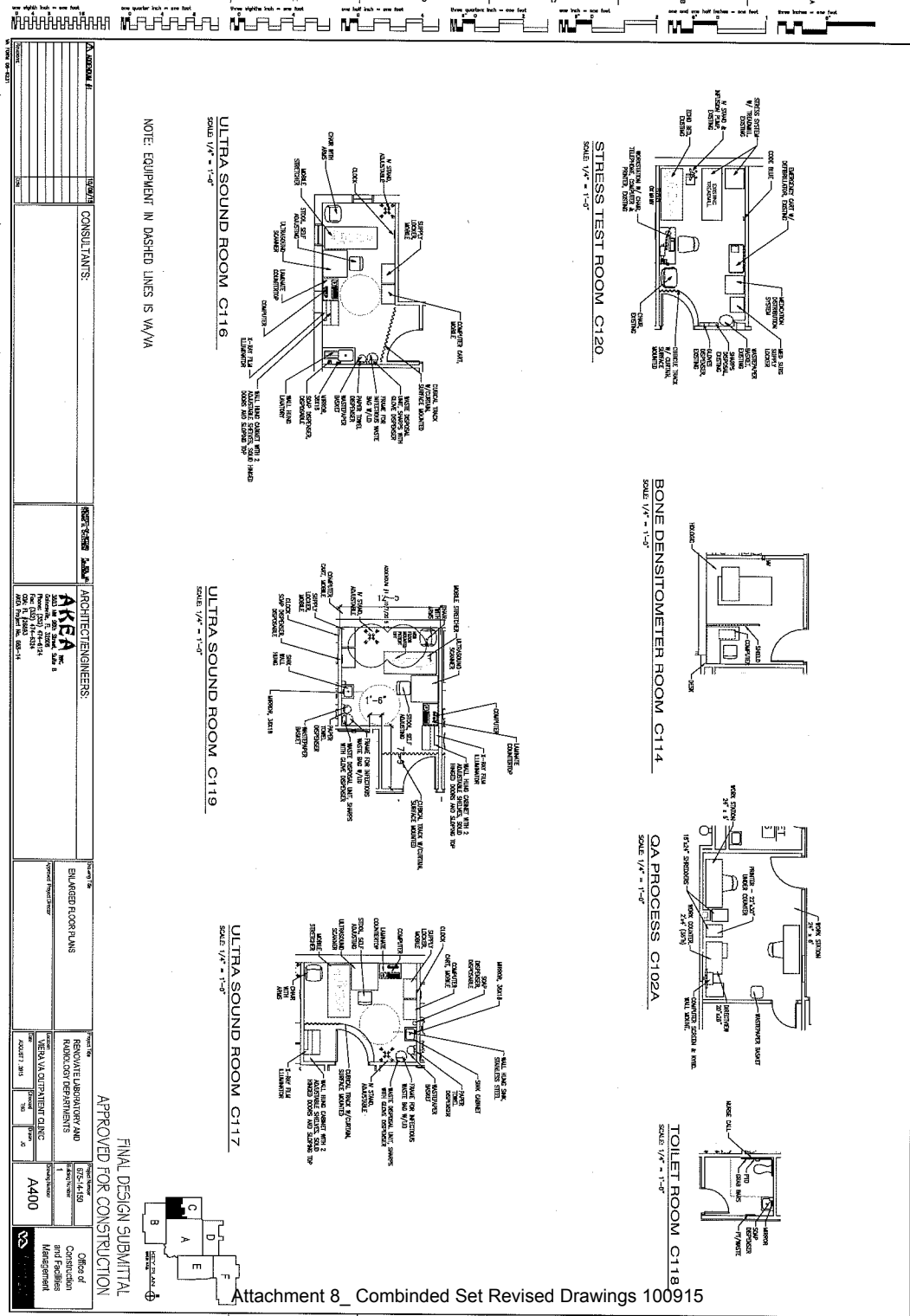




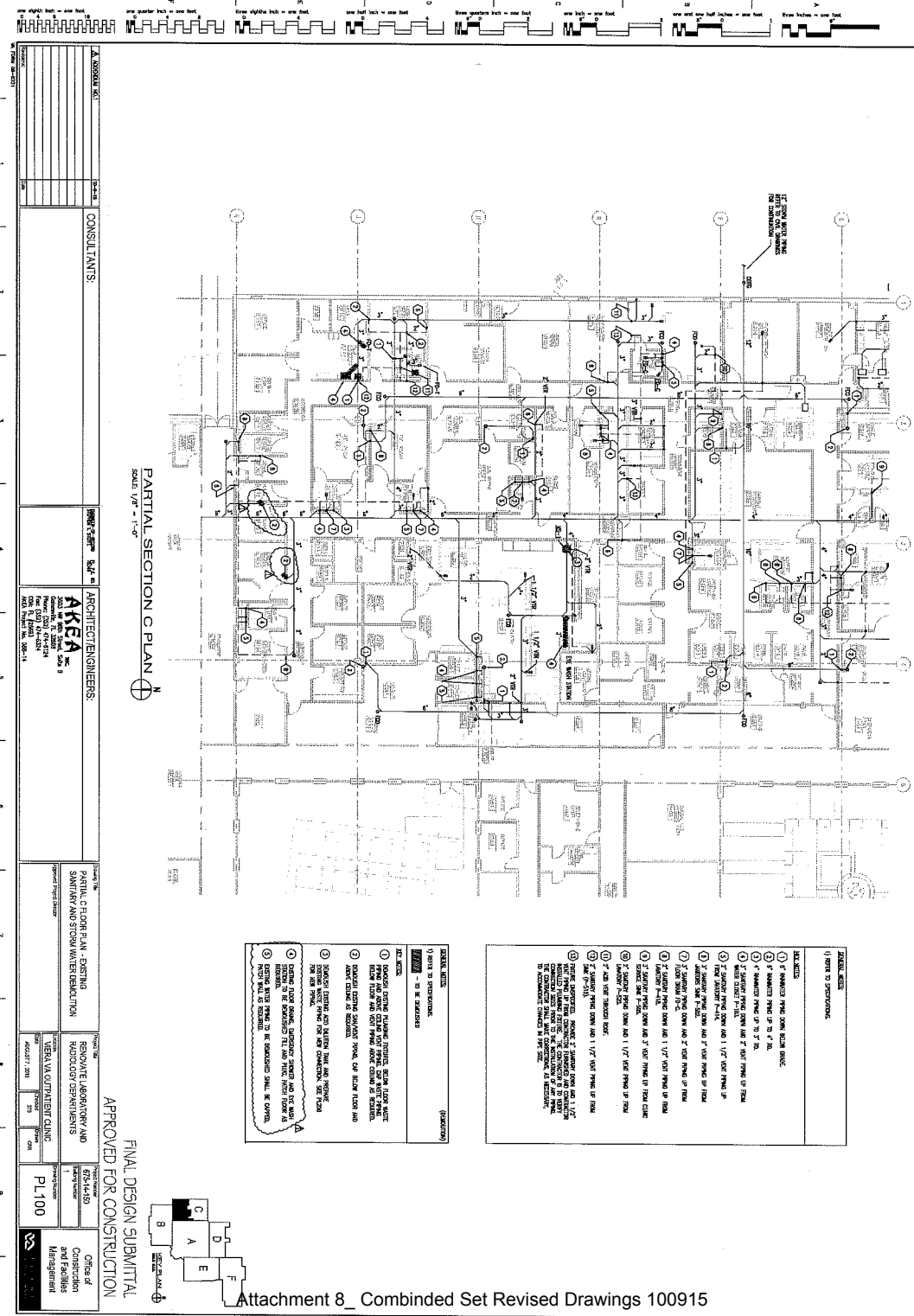


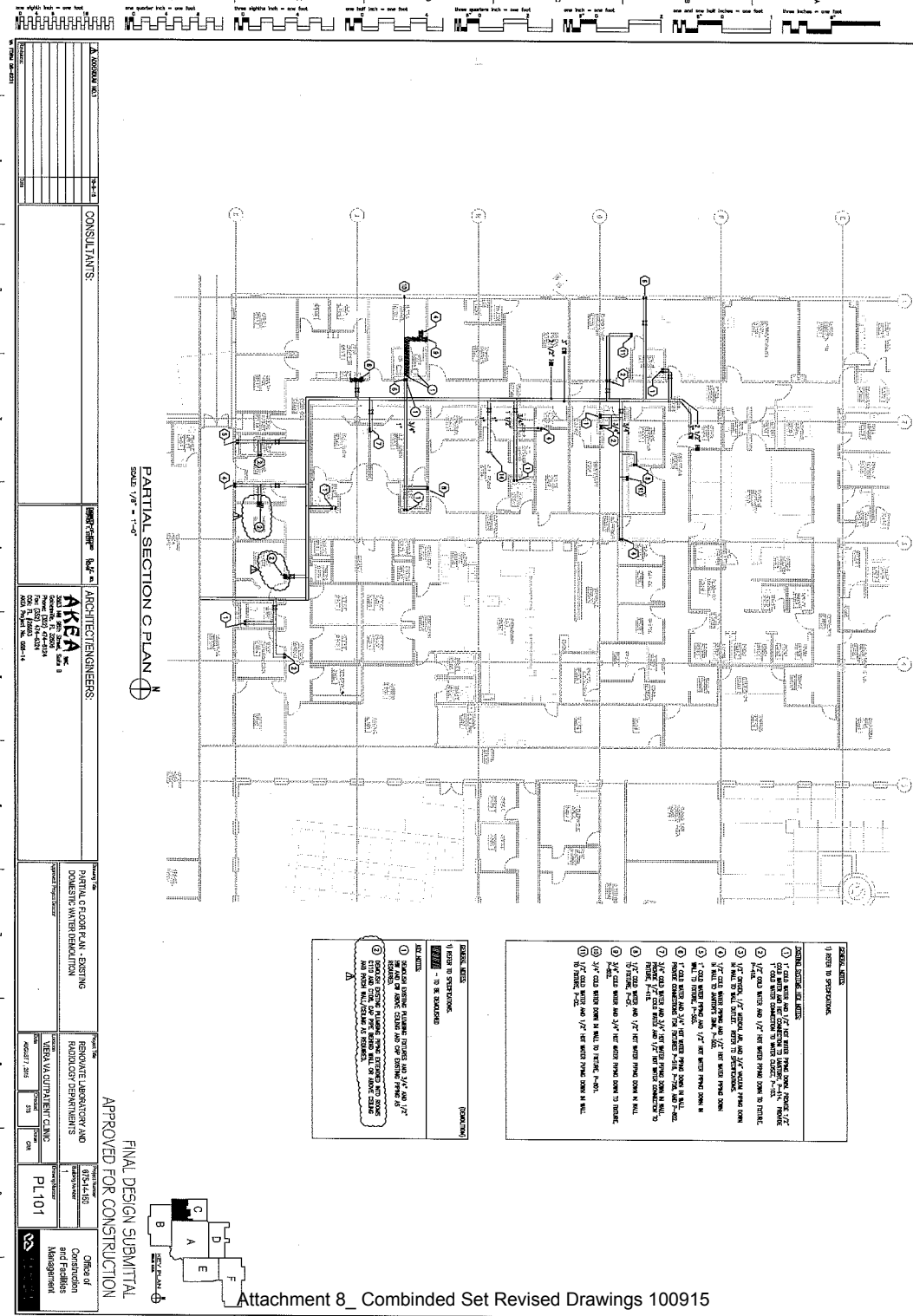


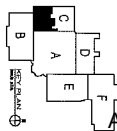






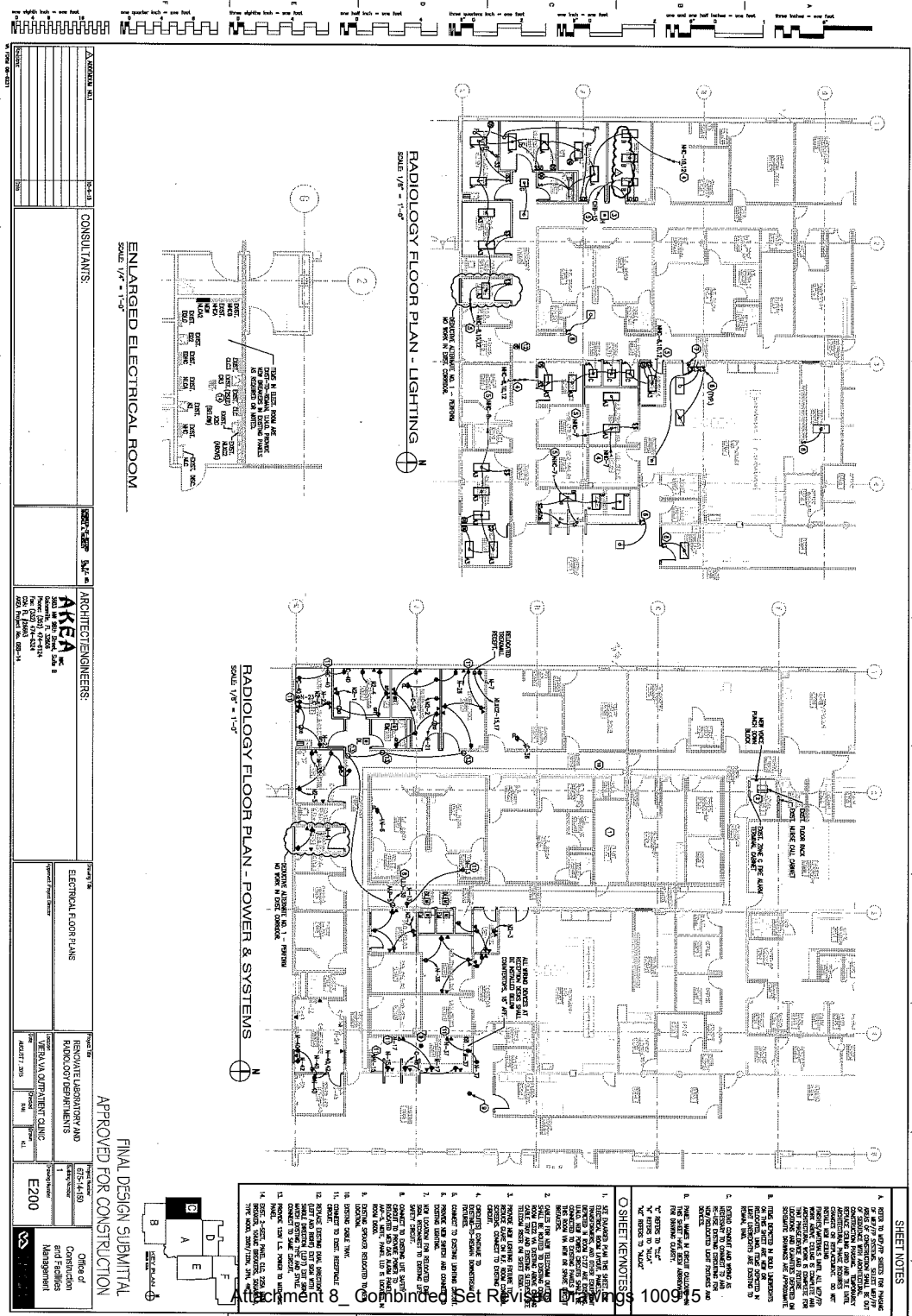














**RADIOLOGY ABOVE CEILING PLAN - POWER**

SCALE: 1/8" = 1'-0"

N

Office of  
Project Manager  
675-14-150

FINAL DESIGN SUBMITTAL  
APPROVED FOR CONSTRUCTION

[illegible]

SHEET NOTES

- [illegible]

## Price Offer/Schedule (Rev 1)

Line Item		Description	Price
0001	Base Bid (ALL WORK)	Perform all work specified in Construction Documents	
		Bid Deducts	
0002	Alternate No.1	Delete Room C113 Mammo Read Room (Corridor to remain).	
0003	Alternate No.2	Delete new floor and ceiling finishes in C100A, C100B, C100D, C100E, (Painting to remain in base bid).	

Note: A Single Award will be made for Line Item 0001 (Base Bid), however in the event the proposed offer for Line Item 0001 exceeds available funds, a single award will be made based on deducting Line Item 2, or Line Item 3 or deducting both Line Item 0001 AND Line Item 0002.

Printed Name: \_\_\_\_\_

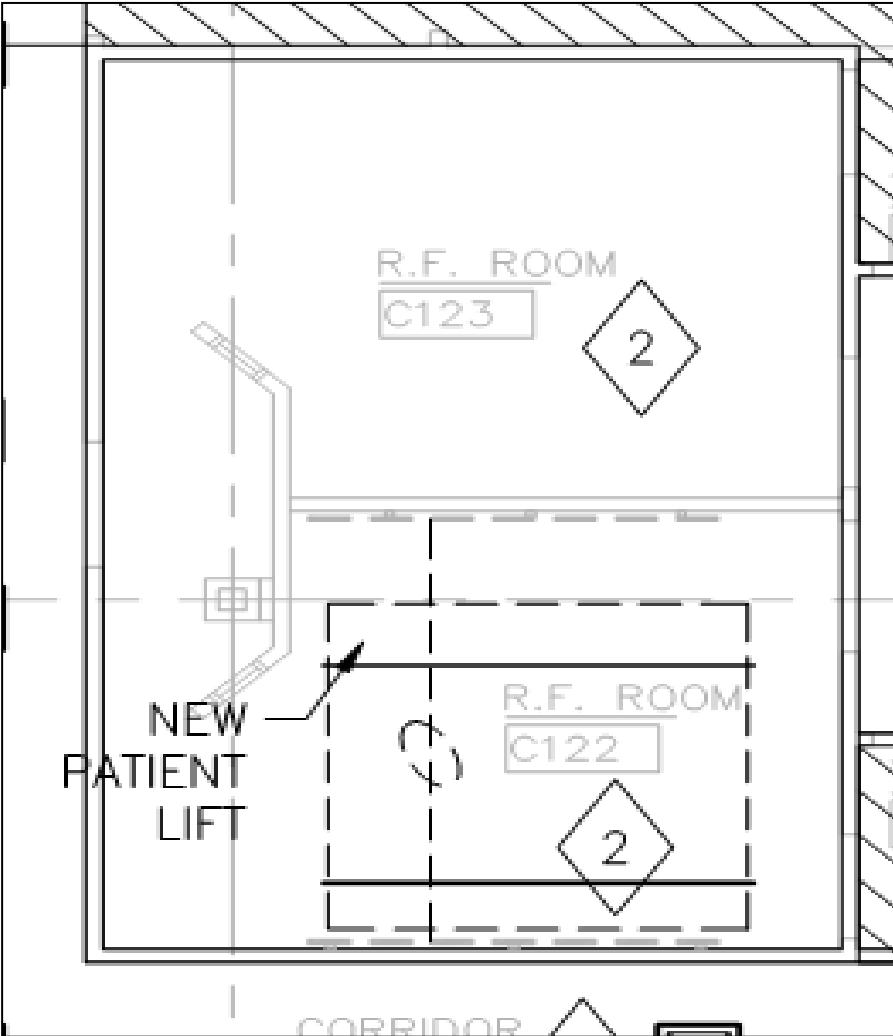
Signature \_\_\_\_\_

Date: \_\_\_\_\_

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**Project: 675-14-150**  
**Title: Renovate Laboratory and Radiology Department**  
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RFI NBR	Question Response	Submitted By	Dated Received
1.	In downloading the documents for this solicitation from fbo.gov I did not see any drawings included in the posted documents. Also, the solicitation makes reference to being performed under (NAICS) Code is 238320, Painting and Wall Covering Contractors with a size standard of 15.0 MM. This seems very unusual for a project scope that includes flooring and other finishes plus mechanical and electrical trades. Is this intended?	ARGO Systems	09/19/15
Reply	At the date/time of receipt of this RFI all available drawings were posted with amendment A00001 which was posted on 09/19/2015. The size standard was also corrected in Amendment A00001.		
2.	Please clarify the site visit date and time. The Solicitation states Thursday September 18, 2015 at 4:00 PM. Should that be Thursday September 24, 2015?	Hammer Logistics	09/21/15
Reply	The site visit date is Thursday, 24 September. Clarified in Amendment A00002		
3	1. In looking at the solicitation reference above, I did not see any Structural Drawings, are they going to be uploaded at a later date?	FEDCO, LLC	09/27/15
Reply	There are no structural drawings required. Refer to Attachment 7 of Amendment A00005 entitled "New Lift Site Plan". Note 1: There are now five lifts to be installed under this project and updated Patient Lift System spec 117300 issued as an Attachment X in Amendment A00005. Note 2: All Lifts are wall/floor mounted. Lifts shall be Hill-Rom. Hill-Rom Manufacturer Representative is Michelle Unger-Koop (312)-502-6691.		
4	2. I could not find the Ceiling Mounted Patient Lifts System support drawing?	FEDCO LLC	09/27/15
Reply	See response to RFI #3		
5	On the front page of the Solicitation, under item 6, it states that the RFI submission period ends 10 calendar days prior to the proposal submission due date. The proposal submission due date is stated as October 19 <sup>th</sup> . This would make the GC RFI submission deadline October 9 <sup>th</sup> , however it was stated in the prebid meeting that the GC RFI submission deadline was October 1 <sup>st</sup> . We need as much time as possible to gather all pertinent questions from all subcontractors associated with this project. What is the GC RFI submission deadline	Blue Cord	09/28/15
Reply	Cut off for RFI submission is revised to be 10/07/2015. Refer to Amendment A00003		
6	1. Is there a basis of design for the manufacturer of the patient lift equipment?	Contract & Purchasing Solutions (CPS)	10/01/15
Reply	See response to RFI #3		
7	2. Please confirm the loading for the patient lift supports. In one instance, it requires 2205 lbs (which is far greater than our historical data shows) and in another instance, the requirement is 440 lbs (which is the low end of the standard).	Contract & Purchasing Solutions (CPS)	10/01/15
Reply	The lift capacity has been increased to 550lb – see revised spec - See response to RFI #3		
8	3. If available, please provide any structural as-builts for the area.	Contract & Purchasing Solutions (CPS)	10/01/15

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Reply	See response to RFI #3 – If still need structural as-builts – specify what for and resubmit question.		
9	4. Is the structure steel beam, concrete, or bar joists?	Contract & Purchasing Solutions (CPS)	10/01/15
Reply	See response to RFI #3 – If still need this question answered – specify what for and resubmit question.		
10	5. If available, please provide any information you have on the interstitial spaces.	Contract & Purchasing Solutions (CPS)	10/01/15
Reply	See response to RFI #3 – If still need this question answered – specify what information is needed and resubmit question.		
11	6. Are we correct in assuming that RF equipment supports are existing in place in Rooms C19, C122, and C125? See sketch below.	Contract & Purchasing Solutions	10/01/15
 <p>The sketch is a floor plan of two adjacent rooms, R.F. ROOM C123 (top) and R.F. ROOM C122 (bottom), separated by a dashed line. Both rooms contain a diamond-shaped symbol with the number '2' inside, representing RF equipment supports. A 'NEW PATIENT LIFT' is indicated by an arrow pointing to a location on the left wall of R.F. ROOM C122. A 'CORRIDOR' is shown at the bottom of the sketch. The rooms are surrounded by walls with diagonal hatching.</p>			

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Reply	We would like clarification on question #6 below: Your RFI #6 references RF Equipment supports” but the RF Equipment is only in Room C122. The other two rooms are Ultrasound and Gamma – Did you mean “lift” equipment supports? And we assume C19 is room C119. There is no longer a lift in room C122 – it is now in the hallway outside the room. See response to RFI #3.		
12	6. Provide additional details as to how the patient lift and supports will integrate with the existing RF equipment in Room C122. Also, please confirm if Rooms C119 and C125 are included in the patient lift scope of work.	CPS	10/05/15
Reply	See answer to RFI #3 and RFI #11.		
13	Upon review of the above referenced solicitation, we have noticed that Evaluation Factor 2 (pg. 17) requires the “prime contractor shall provide a valid General Contractor’s License”. Does this need to be a General Contractors License specifically issued by the state of FL, or will another state suffice as long as it is a “valid GC license”?	G&C Fab-CON	10/06/15
Reply	A valid GC license is required. GC license may be from any state.		
14	Can you help me? I am trying to determine the structure/floor height of the VA VIERA OUTPATIENT CLINIC Solicitation: VA248-15-R-2022	MCM Services	10/08/15
Reply	Ceiling height is 9’ unless otherwise indicated. Height between ceiling and roof structure is approximately 7’.		
15	1. Please confirm the project number...the SF 1442, Block 6 states “615-14-150” and throughout the body of the solicitation states “675-14-150.”	CPS	10/08/15
Reply	The project number is 675-15-150		
16	2. Page 21 of the solicitation, Proposal Content Format, Paragraph A: there are two (2) TAB Ds listed...please confirm second one should be TAB E.	CPS	10/08/15
Rely	This was a typographical error. It is corrected to be “Tab E”		
17	3. Please consider extending the proposal due date of 19Oct15 by at least one day to 20Oct15. This would help prevent having to lose Saturday (17 <sup>th</sup> ) & Sunday (18 <sup>th</sup> ) because the proposal would need to be mailed out no later than Friday (16 <sup>th</sup> ) afternoon in order to reach your office by the 19 <sup>th</sup> .	CPS	10/08/15
Reply	Proposal Due Date is extended to Tuesday, October 20, 2015. Time 1:00 PM Local	CPS	10/08/15
18	4. Are there any fire alarms being demolished or relocated? Is Fire Alarm Recertification for AHCA required?		
Reply	Sheet E100 shows fire alarm devices being demolished. AHCA has no jurisdiction in a VA facility.		
19	5. Line Item 0003, Deduct Alternate No. 2, says to deduct finishes in C112 and C114. The Finish Schedule does not list any new finishes for these rooms. Please clarify.	CPS	10/08/15
Reply	C112 and C114 are not part of Deduct Alternate No. 2 – that was a typo. Those two rooms are being painted as part of the Base Bid under Phase 4 as indicated in the revised finish schedule issued in Amendment A00004.		
20	6. The Finish Schedule indicates new ACT in C105 and C107, but the Reflected Ceiling Plan does not. Are new ceilings to be provided in these rooms?	CPS	10/08/15
Reply	Read General Plan note #1 on sheet A300. Yes C105 and C107 get new ceilings. The new ceilings can be installed after HVAC work is complete.		

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21	7. What are the existing wall, floor, and ceiling finishes in C123 and C122?	CPS	10/08/15
Reply	See Revised finish schedule issued in Amendment A00004. C122 has painted walls, VCT floor tile (ETR) and ACT ceiling. C123 is not included in Finish Schedule – it only has replacement of ACT for ceiling finish if damaged during HVAC work. Also see revised drawings issued with Amendment A00005.		
22	8. Please confirm that there are no new finishes required in C108, C110, and C204.	CPS	10/08/15
Reply	See Revised finish schedule issued in Amendment A00004 and revised drawings issued with A00005. C108 gets new paint only + new ACT if damaged during HVAC process. C110 has one wall (west wall) of wall covering to be removed and then whole room is painted + new ACT if damaged during HVAC process. C204 gets all new finishes in accordance with new finish schedule issued in A00004 and revised drawings in A00005.  Note work in C108 and C110 shall be performed during Phase 4. Work in C204 Lab Supervisor's office is shown as part of Phase 1 on drawings and as part of Phase 4 in revised finish schedule. C204 will be occupied during both Phases 1 and 4 during clinic hours. All Work in C204 (finish replacement) shall be performed during either Phase 1 or 4 over a weekend as coordinated with and approved by the COR.		
23	9. Please provide a model number or detail for the INPRO handrails and bumper guards.	CPS	10/08/15
	<b>To be answered in a future Amendment.</b>		
24	10. The Phase 2 Demolition Plan shows dashed lines along one side of some partition walls. Are we correct in assuming the GWB will be removed on that face of the wall to the stud?	CPS	10/08/15
	<b>To be answered in a future Amendment.</b>		
25	11. Please provide details, specifications, etc. for the pass window in Phase 4.	CPS	10/08/15
	<b>To be answered in a future Amendment</b>		
26	12. Please provide manufacturer and model for VCT flooring and carpet.	CPS	10/08/15
	<b>Manufacturer and model To be answered in a future Amendment. New carpet tile spec 096800 is provided as part of Amendment A00005.</b>		
27	13. Please confirm the ATC ceilings will be Armstrong Prelude ML 15/16" grid and Armstrong Cortega Tiles	CPS	10/08/15
	<b>To be answered in a future Amendment</b>		
28	14. The plans call for cubical curtain track and curtains. Please provide specification, manufacturer, and model for the curtains	CPS	10/08/15
	<b>To be answered in a future Amendment</b>		
29	15. Please provide a detail for mounting the cubical curtain track.	CPS	10/08/15
	<b>To be answered in a future Amendment</b>		
30	16. The specifications describe a perimeter seal for the ATC suspension system. Is this required?	CPS	10/08/15
	<b>To be answered in a future Amendment</b>		
31	17. The Floor Plan and the Door Schedule state all doors in the project are to receive Hardware Set 23. There is no Hardware Set 23 listed in the Hardware Schedule. Please clarify.	CPS	10/08/15



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	<b>To be answered in a future Amendment</b>		
32	18. The Floor Plan and Door Schedule do not show any modifiers, fire rating, louver, lead, etc. Please confirm this is correct.	CPS	10/08/15
Reply	Correct – no modifiers. We do not have any lead lining, louvers, fire ratings etc.		
33	1. Reference: Panel NHC B, Question: a. Who is the manufacturer? b. What type of breaker is in the Panel? c. What is the K.A.I.C rating?	Maverick Constructors	10/08/15
Reply	See revised Elec drawing E201 issued with Amendment A00005.		
34	2. Reference: Fixture Schedule and Lighting Floor Plan Question: The floor plan shows a fixture with the designation as B3, but B3 is not on the schedule. Please provide the Schedule info.	Maverick Constructors	10/08/15
Reply	See revised Elec drawing E200 issued with Amendment A00005.		
35	1. There is a conflict in the specs and drawings. Do the Telecom outlets get 2 or 3 data outlets? The specs call for 2 in one place 27-15-00-11. Spec call for 3 on sheet 27-15-00-15.	Orion	10/08/15
Reply	<b>To be answered in a future Amendment</b>		
36	2. Sheet E500 Telecom Riser call for 2 24 port patch panels which is not enough ports for 2 or 3 data cables per faceplate. Does this need to be 2 48 port patch panel?	Orion	10/08/15
	<b>To be answered in a future Amendment</b>		
37	1. Drawing PL100 & PL101: Are all hex notes describing existing conditions with no new work required?	Blue Cord	10/08/15
Reply	Drawings PL100 and PL101 describe existing conditions. Hex notes refer to existing conditions. Round notes refer to Demolition work. These are labeled on the drawings.		
38.	2. Drawing PL200 & PL202: Are all hex notes describing existing conditions with no new work required?	Blue Cord	10/08/15
Reply	Drawings PL200 and PL202 describe new work. Hex notes refer to existing conditions. Round notes refer to new work. These are labeled on the drawings.		
39.	3. Please specify VCT flooring. There is no spec in 09 06 00 Schedule for Finishes and spec section 09 65 19 Resilient Tile Flooring lists 12" x 12" VCT. Most floors in the hospital are welded sheet vinyl.	Blue Cord	10/08/15
Reply	VCT Section 09 65 19 and 09 06 00 are included in the documents: match existing tile.		
40.	4. Please specify carpet. There is no spec in 09 06 00 Schedule for Finishes and no flooring spec section to refer to.	Blue Cord	10/08/15
	<b>Manufacturer and model To be answered in a future Amendment. New carpet tile spec 096800 is provided as part of Amendment A00005.</b>		
41.	5. Please provide a spec for resinous flooring.	Blue Cord	10/08/15
	<b>To be answered in a future Amendment</b>		
42.	6. Our firm bids on projects requiring Past Performance Questionnaire (PPQ) forms very often, and we make frequent and repeated requests to previous clients to satisfy this requirement. So that we do not burden them with repeated requests, may we	Blue Cord	10/08/15

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	submit CCASS evaluations for the Past Performance evaluation factor? Please advise		
<b>Reply</b>	<b>Past Performance Evaluation from CCASS submitted in response to the solicitation are acceptable</b>		
43.	<p>7. Note 4 on drawing A100 states that "Functions in the areas shown for renovation will be relocated before phase construction begins". We assume this means The VA will relocate furniture and functions of specific areas prior to our work beginning and that this will happen between each phase. The construction duration schedule shown on page 8 of the Solicitation shows the following:</p> <ul style="list-style-type: none"> <li>a) <u>Submittal Review – 45 Days</u></li> <li>b) <u>Phase I – 21 days.</u> <ul style="list-style-type: none"> <li>1) NOTE: Reception Area (C103, C101, and C201) shall be functional during normal business hours.</li> </ul> </li> <li>c) <u>Phase II – 45 days:</u> <ul style="list-style-type: none"> <li>1) NOTE: C115, C116, C117, C118, C119, C120, C121 will be vacated during this phase</li> <li>2) NOTE: Deduct Alternate #1 (Rm C113 Mammo Reading Room) will be performed during Phase IV, <u>NOT</u> Phase II.</li> </ul> </li> <li>d) <u>Phase III – 14 days</u> <ul style="list-style-type: none"> <li>1) NOTE: C104 and C102 will be vacated during this phase</li> </ul> </li> <li>e) <u>Phase IV – 45 days</u> <ul style="list-style-type: none"> <li>1) NOTE: Laboratory shall be functional during normal business hours. Rm C125B will be vacated during this phase.</li> <li>2) NOTE: Deduct Alternate #1 (Rm C113 Mammo Reading Room) shall be performed during the last portion of Phase IV. Intent is to close off the corridor at the last portion of the project.</li> </ul> </li> <li>f) <u>Project Closeout/Punch list – 21 days</u></li> </ul> <p>The time required by The VA for their relocation activities is not shown in the above schedule. How much time will The VA require between phases for this relocation?</p>	Blue Cord	10/08/15
<b>Reply</b>	<p>Note Phase 2 and 3 switched per Amendment A00004 and revised drawings issued in A00005.</p> <p>FOR Phase 1 (21 calendar days): Prior to Phase 1 area being turned over to Contractor the VA will remove/relocate any furniture, Medical or IT equipment in Demo rooms C109, C111, C130, C131, C132 and C206 and Corridor C100C that is not to be disposed of by the Contractor. Work shown to be done in sections of the lab area (closing up doorway, installing doorway and electrical/communication work) will need to be isolated from the rest of the lab when that work is being performed – the Contractor will need to coordinate with the COR prior to doing the work to ensure that the lab stays functional during regular clinic hours. See comments in RFI #22 pertaining to C204, C105 and C107 will also be occupied during Clinic hours. All work in C105 and C107 (finish replacement) shall be performed over a weekend as coordinated with and approved by the COR The VA will remove/relocate any furniture, Medical or IT equipment from rooms C105, C107 and C204 that is not to be disposed of by the Contractor. The Phase 1 area will be available within 45 calendar days of the NTP date.</p> <p>FOR Phase 2 (14 calendar days) (Demo Rooms C102 and C104): Prior to Phase 2 area being turned over to Contractor the VA will remove/relocate any furniture, Medical or IT equipment from rooms C102 and C104 that is not to be disposed of by the Contractor. The Phase 2 area will be available as soon as Phase 1 is complete.</p> <p>FOR Phase 3 (45 calendar Days) (Demo Rooms C114, C115, C116, C117, C118, C119,</p>		

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	<p>C120 and C121): Prior to Phase 3 area being turned over to Contractor the VA will remove/relocate any furniture, Medical or IT equipment that is not to be disposed of by the Contractor. The Phase 3 area will be available within 3 work days of Phase 2 being complete.</p> <p>FOR Phase 4 (45 calendar days): All work shall be closely coordinated with the COR to ensure all Phase 4 areas are functional during regular clinic hours. Any medical or IT equipment to be moved by the VA will need to be coordinated with the COR. Contractor will be required to move furniture that is in the way of their work. Room C125B Breakroom shall be available to the Contractor within 3 work days of Phase 3 being complete.</p> <p>Patient Lifts will be installed during Phase 4 unless otherwise approved by the COR.</p>		
44.	<p>8. This project is planned by The VA to be completed in specific phased areas of work and indicated as such on the construction drawings. Some of the work is indicated to be done behind barricades for 3-6 weeks at a time and other areas are not indicated to be done behind barricades which need to be ready for use by staff and patients on all weekdays without interruption. Drawing MH200 and MH801 shows the proposed above ceiling mechanical work in five distinct phases. Mechanical Phase 2, corridors C100A, C100D, C100E, rooms C106, C108, C110, C113, C114, C125 &amp; C125B all show above ceiling mechanical work that will not occur behind barricades. After careful study of this non barricaded mechanical work we have determined that even when broken into small areas that a weekend will not be enough to accomplish this work in the areas listed above. Will The VA allow these listed areas to be barricaded area by area for several days at a time?</p>	Blue Cord	10/08/15
	<b>To be answered in a future Amendment</b>		
45	<p>9. Further to the problem stated above regarding non barricaded mechanical work, HVAC work on one section of duct does not guarantee that it will have the upstream or downstream portions completed to be able to ensure proper HVAC is maintained at all times. Will The VA require temporary HVAC be brought in and retrofitted to the existing ductwork and diffusers to be able to maintain proper HVAC in all areas when specific areas are taken out of service?</p>	Blue Cord	10/08/15
	<b>To be answered in a future Amendment</b>		