539-13-102

RENOVATE PULMONARY SLEEP LAB

DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
CINCINNATI, OHIO 45220

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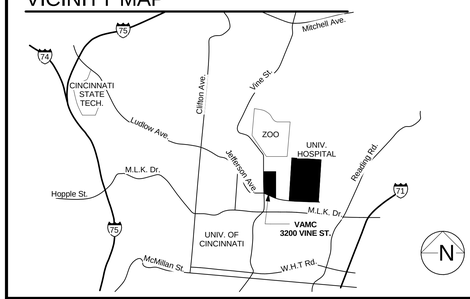
GENERAL CONSTRUCTION NOTES

* PLEASE NOTE THAT THE TERM PROJECT ENGINEER REFERS TO THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE.

1. ALL WORK SHALL COMPLY WITH THE LATEST NFPA 101 LIFE SAFETY CODE, INTERNATIONAL BUILDING CODE, AND OTHER COES AS IDENTIFIED IN VHA PROGRAM GUIDE PG-18-3, TOPIC 01, CODES, STANDARDS AND EXECUTIVE ORDERS WHICH CAN BE FOUND ON THE DEPARTMENT OF VETERAN AFFAIRS, TECHNICAL INFORMATION LIBRRARY WEBSITE.
2. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE LATEST ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARD (ABAAS) AND DEPARTMENT OF VETERANS AFFAIRS BARRIER FREE DESIGN GUIDE PG-18-13 WHICH CAN BE FOUND ON THE DEPARTMENT OF VETERANS AFFAIRS TECHNICAL INFORMATION LIBRARY WEBSITE.
3. CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE, EXAMINE AND ACCEPT EXISTING ONDITIONS PRIOR TO BIDDING. SITE VISITS TO BE COORDINATED WITH THE CONTRACTING OFFICER'S REPRESENTATIVE.
4. CONTRACTOR IS RESPONSIBLE TO REPAIR AND/OR REFINISH, TO MATCH ADJACENT EXISTING SURFACES, ANY EXISTING MATERIALS TO REMAIN THAT ARE DAMAGED DURING THE COURSE OF DEMOLITION OR NEW WORK.
5. WHERE REMOVAL OF EXISTING WORK IS REQUIRED FOR INSTALLATION OF NEW WORK, CONTRACTOR SHALL REPAIR EXISTING CONSTRUCTION TO REMAIN OR PROVIDE NEW CONSTRUCTION TO MATCH EXISTING ADJACENT SURFACES TO REMAIN.
6. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO ORDERING, FABRICATING OR INSTALLING NEW MATERIALS.
7. CONTRACTOR IS RESPONSIBLE TO VERIFY SIZES OF ALL EQUIPMENT, ETC. TO BE INSTALLED AS PART OF THIS PROJECT, AND WHERE NECESSARY, MAKE SPECIAL PROVISIONS TO INSTALL EQUIPMENT THAT IS TOO LARGE TO FIT THROUGH FINISHED OPENINGS.
8. CONTRACTOR SHALL PROVIDE WOOD BLOCKING AT TOILET ACCESSORIES, HAND RAILS, BUMPER RAILS, SHELVING, CASEWORK, MOUNTING BRACKETS AND OTHER WALL MOUNTED ITEMS, AS INDICATED IN THE CONTRACT DOCUMENTS AND AS RECOMMENDED BY PRODUCT MANUFACTURERS. ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED.
9. ALL EXPOSED NEW WORK IS TO RECEIVE NEW FINISHES UNLESS SPECIFICALLY NOTED OTHERWISE. IF NO FINISH IS INDICATED AT A PARTICULAR SURFACE, CONTRACTOR SHALL PROVIDE FINISH(S) AS INDICATED AT SIMILAR CONDITIONS.
10. CONTRACTOR SHALL PROVIDE COMPLETE AND FULLY OPERATIONAL SYSTEMS WHICH COMPLY WITH STATED CODES AND REGULATIONS. WHERE THE OMISSION OF A PART OR ELEMENT OF A SYSTEM WOULD RESULT IN THE NON-OPERATION, OR INCORRECT OPERATION OF A SYSTEM, CONTRACTOR SHALL INCLUDE SAID PART OR ELEMENT AS PART OF THE WORK.
11. ALL PENETRATIONS THROUGH NEW AND/OR EXISTING SMOKE OR FIRE RATED WALLS SHALL BE SMOKE/FIRE STOPPED AS REQUIRED BY THE RATING OF THE WALL.
12. FIRE PROTECTION CONTRACTOR'S SPRINKLER DESIGN WILL BE SUBJECT TO AN INDEPENDENT REVIEW BY A CERTIFIED FIRE PROTECTION ENGINEER RETAINED BY THE OWNER. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR MAKING ANY REQUIRED CHANGES TO THE DESIGN AS IDENTIFIED BY THE OWNER'S FIRE PROTECTION ENGINEER AS NECESSARY FOR COMPLIANCE WITH SPECIFIED NFPA REQUIREMENTS.

VICINITY MAP



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RENOVATE PULMONARY SLEEP LAB
FOR:
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
CINCINNATI, OHIO 45220

PRINTING
12/21/12 BID SET

REVISIONS

GRAPHIC SYMBOLS

	ELEVATION	##'-## ##"	CEILING HEIGHT/ FINISH DESIGNATION
## / ###	SECTION/DETAIL NUMBER DRAWING NUMBER	##	COLUMN GRID
##	NOTE	###	ROOM NUMBER
	BEARING	##	WINDOW OPENING
##	REVISION	###	DOOR OPENING

STATE OF OHIO
JOHN A. POE
6950
REGISTERED ARCHITECT

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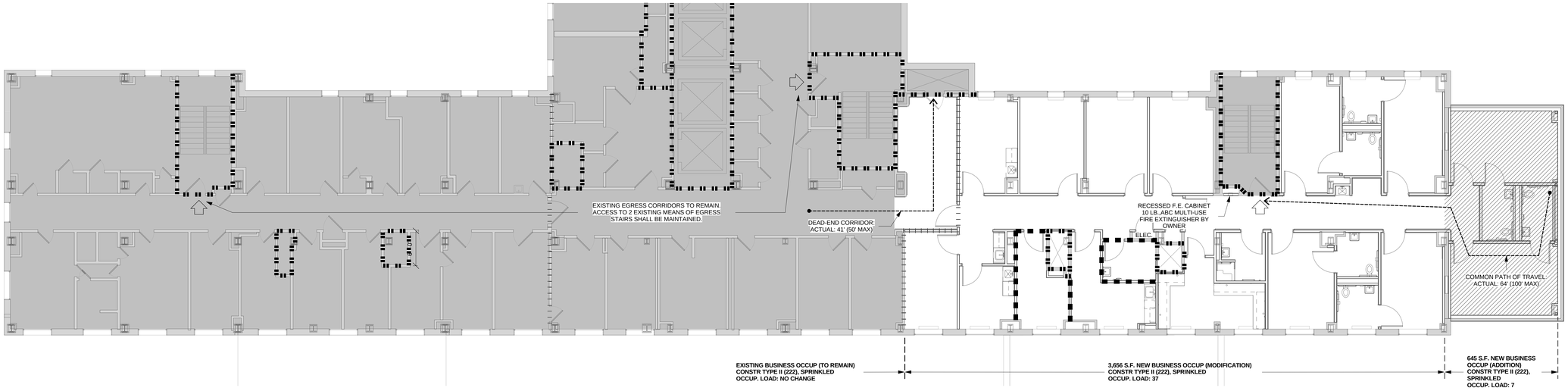
SET NO.

VA PROJECT NO. 539-13-102
JPA PROJECT NO. 12005.00

DATE 12/21/2012

G001



N 1 **Partial Ninth Flr - Code Plan**

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

NFPA 101 2012 Code Review

Chapter 4 – General

- 4.4.2.2 – Prescriptive-based life safety design meeting the requirements of Chapters 1 thru 3, Sections 4.5 thru 4.8, and Chapters 6 thru 43 of this Code shall satisfy Sections 4.1 and 4.2.
- 4.4.2.3 – Where req'ts in Chapters 11 thru 43 differ from req'ts in Chapters 1 thru 4 and 6 thru 10, the req'ts of Chapters 11 thru 43 shall govern.
- 4.6.1.1 – The authority having jurisdiction (AHJ) shall determine whether the provisions of this Code are met
- 4.6.7.1 - Rehabilitation category per 43.2.2.1: Modification.

Chapter 6 – Classification of Occupancy and Hazard of Contents

- 6.1.11 - Business- New – (Chap.38).
- 6.2.2. – Hazard classif.: Ordinary (high hazard areas protected per 38.3.2.1)

Chapter 7 – Means of Egress

- 7.1.3.2.1 – Exit Separation: Existing Egress stair - 2-hr. fire rating (No Change)
- 7.2.1.5.6 - Electrically Controlled Egress Door Assemblies: Means of Egress doors shall be permitted to be electrically locked if equipped w/ approved, listed hardware, provided all the following conditions are met:
  - (1) Hardware for occupant release of the lock is affixed to door leaf.
  - (2) Hardware has obvious method of operation that is readilyoperated in the direction of egress.
  - (3) Hardware is capable of being operated with one hand in the direction of egress.
  - (4) Operation of hardware interrupts the power supply directly to the electric lock and unlocks the door assembly in the direction of egress.
  - (5) Loss of power to the listed releasing hardware automatacly unlocks the door assembly in the direction of egress.
  - (6) Hardware for new installation is listed per ANSI/UL 204 "Standard for Access Control System Units".
- 7.3.1 – Occupant Load:
  - 9th Floor (Area of Renovation):
  - Business 3,656 s.f. @ 100 sf/occ = 37 occup.
  - 9th Floor (New Addition):
  - Business 645 s.f. @ 100 sf/occ = 7 occup.
  - Total occupants = 44 occup
- 7.3.2.2 – Max. projection within means of egress on ea. side: 4-1/2" (38" hgt. max.).
- 7.3.3.1 – Egress capacity (All others):
  - Stairs - .3" per occup; Level components and ramps - .2" per occup.
- 7.4.1.1 – Min. number of means of egress from any story = 2.
- 7.5.1.3.3 – Remoteness of exits – Bldgs. protected by AFSS per 9.7, Min. separation distance between 2 exits = 1/3 max. overall diag. dimension of the area or bldg. served (No Change).
- 7.5.4.1 - Areas accessible to people with severe mobility impairment, other than existing buildings, shall have not less than 2 accessible means of egress. Exception: 38.2.2.12.2.
- 7.5.4.3 – Each req'd. accessible means of egress shall be continuous from each accessible occupied area to a public way or area of refuge per 7.2.12.2.2.

Chapter 8 – Features of Fire Protection

- 8.3.4.2 – Min Fire Protection for Openings in Fire-rated Assemblies:

Component	Walls	Fire Drs	Fire Window
Vert. shafts (stairs, exits):	2 hr	1-1/2 hr	NP
	1 hr	1 hr	NP
Fire Barriers:	2 hr	1-1/2 hr	NP
	1 hr	¾ hr	NP
Smoke Barriers:	1 hr	1/3 hr	¾ hr
Smoke Partitions:	1/2 hr.	1/3 hr	1/3 hr.

- 8.3.5.1 – Firestop Systems – Penetrations that pass thru a barrier shall be protected by a firestop system or device.
- 8.3.5.7 – Openings thru fire barriers for air-handling ductwork shall be protected per 9.2.1.
- 8.4.3.5 – Smoke Partition doors shall be self or auto-closing per 7.2.1.8.
- 8.5.3 – A Fire Barrier shall be permitted to be used as Smoke Barrier per Section 8.5.
- 8.6.1 - Floor Smoke Barriers – Every floor that separates stories in a bldg. shall be constructed as a smoke barrier per 8.5 and shall be permitted opg's. per 8.6.6 thru 8.6.9 or Chapters 11 thru 43.
- 8.6.4.1 – Shafts shall be enclosed at lowest or highest level of the shaft per 8.6.5.
- 8.6.5 – Shafts- Req'd Fire Rating:
  - Connecting 4 or more stories: 2-hr Fire Barrier.
  - Other new shaft enclosures: 1-hr Fire Barrier.
- 8.7.1.1 – Protection from any degree of hazard greater than normal shall be provided by one of the following means:
  - (1) Enclose area with 1-hr Fire Barrier per 8.3.
  - (2) Protecting an area with an AFSS per 9.7.
  - (3) Apply both (1) and (2) where hazard is severe or per Chapters 11 thru 43.
- 8.7.1.3 – Special Hazard Protection – Doors: min. ¾ hr fire rated, self or auto-closing per 7.2.1.8

Chapter 9 – Building Service and Fire Protection Equipment

- 9.6.1.3 – Fire Alarm System req'd for life safety shall be per NFPA 70 and 72.
- 9.6.3.1 – Occupant notification shall be provided per 9.6.3 and 38.3.4.3.
- 9.6.3.4 – Where permitted by Chapters 11 thru 43, a positive alarm sequence shall be permitted per NFPA 72 (See 38.3.4.3).
- 9.6.4.1 – Emergency Forces notification req'd per 9.6.4 and 38.3.4.4.
- 9.6.5.1 – Fire safety functions shall be installed per NFPA 72 as req'd per 9.6.5.
- 9.6.7.1 – Alarm annunciation is required per 9.6.7.
- 9.7.1.1 – Supervised automatic sprinkler system as req'd by 9.7.1, shall comply with NFPA 13.

Chapter 10 – Interior Finish, Contents, and Furnishings

- 10.2.3 – Interior Wall or Ceiling Finish – Class A, B, or C shall be classified based on ASTM E 84.
- 10.2.3.4 – Wall and Ceiling – Classifications characteristics:
  - (1) Class A: Flame spread: 0-25; Smoke dev.: 0-450.
  - (2) Class B: Flame spread: 26-75; Smoke dev.: 0-450.
  - (3) Class C: Flame spread: 76-200; Smoke dev.: 0-450.
  - (4) Existing interior finish exempt from smoke dev. criteria.
- 10.2.7.1 – Carpet floor finish shall comply with ASTM D2859.
- 10.2.7.2 – Floor finish other than carpet: Min. Rad flux: .1 W/ cm².
- 10.2.7.3 – Interior Floor Finish –shall be classified based on NFPA 253 or ASTM E 648.
- 10.2.7.4 – Interior Floor – Classifications characteristics:
  - (1) Class I: Rad flux: min .45 W/cm².
  - (2) Class II: Rad flux: min .22 W/cm², and max. .45 W/cm².
- 10.2.8.1 – Wall and Ceiling finishes, where sprinkled:
  - Class C permitted in any location where Class B is req'd.
  - Class B permitted in any location where Class A is req'd.
- 10.2.8.2 – Floor finishes, where sprinkled:
  - Class II permitted in any location where Class I is req'd.
  - No critical rad. flux permitted in any location where Class II is req'd.

Chapter 38 – New Business Occupancies

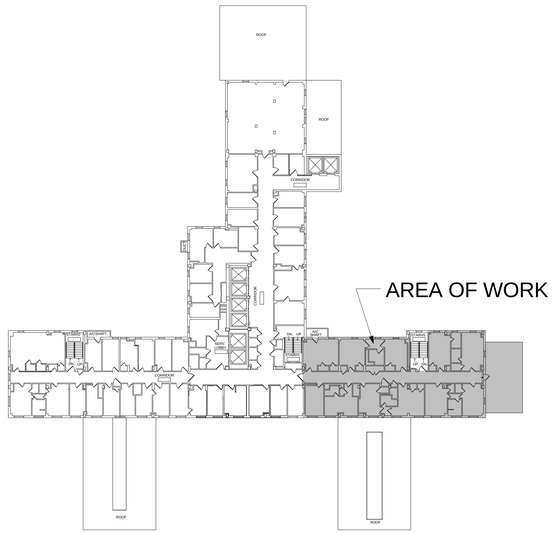
- 38.1.1.5 - Additions to existing buildings shall conform to 4.6.7.
- 38.1.2 - Classification of Occupancy: Business
- 38.1.5 - Classif. of Hazard of Contents: Ordinary (per 6.2).
- 38.1.6 - Minimum Construction Requirements: No requirements. (Exist. bldg. & New addition: Construction Type: II (222), Sprinkled-noncombustible.)
- 38.1.7 – Occupant load – Determined per 7.3.1.2 or determined as the max. probable population, whichever is greater.
- 38.2.1.1 - Means of egress components per Chapter 7 and this chapter.
- 38.2.2.2.1 - Doors per 7.2.1 shall be permitted.
- 38.2.2.2.2 - Locks per 7.2.1.5.5 shall be permitted on principle entrance/exit doors.
- 38.2.2.12.1 - Areas of Refuge per 7.2.12 shall be permitted.
- 38.2.2.12.2 - In buildings protected throughout with AFSS, 2 separated rooms/spaces as Area of Refuge shall not be required.
- 38.2.3.1 – Capacity of Means of Egress per 7.3.
- 38.2.3.2- Min. corridor width serving an occupant load of 50 or more: 44" min. clear.
- 38.2.4.1 – Number of Means of Egress:
  - (1) In accordance with 7.4.
  - (2) Min. 2 separate exits on every story.
  - (3) Min 2 separate exits shall be accessible from every part of every story.
- 38.2.5.1 – Arrangement of means of egress per 7.5.
- 38.2.5.2.1 – Dead-end corridors: Bldgs protected with AFSS: 50' max.
- 38.2.5.3.1 – Common path of travel: Bldgs protected with AFSS: 100' max.
- 38.2.6.3 - Max. travel distance to an exit in Business occupancies protected with AFSS: 300'.
- 38.3.2.1 – Hazardous Area Protection including general storage shall be protected by per 8.7 .
- 38.3.2.2 - High Hazard Content Areas: High hazard contents per 6.2, shall meet all of the following:
  - (1) Separated by 1-hr. fire barriers with self-closing, 3/4 hr. fire rated doors.
  - (2) Protected by an AFSS per 9.7.1.1(1).
- 38.3.3.2.1 – Interior wall and ceiling – Per 10.2 shall be Class A or B in exits and exit access corridors.
- 38.3.3.2.1 – Interior wall and ceiling – Shall be Class A, B, or C areas other than 38.3.3.2.1.
- 38.3.3.3.3 – Interior Floor finish shall comply with 10.2.7.1 or 10.2.7.2 as applicable.
- 38.3.4.1 – Business occupancies shall be protected with a Fire Alarm system per 9.6. if 1.) The building is 3 or more stories in height. (No Change).
- 38.3.4.2– Initiation of req'd fire alarm system shall be per one of the following means:
  - (1) Manual means per 9.6.2.1(1).
  - (2) Auto fire detection per 9.6.2.1(2) throughout entire bldg.
  - (3) Auto fire detection per 9.6.2.1(3) throughout entire bldg.
- 38.3.4.3 – Occupant Notification: While occupied, the req'd F.A. system, once initiated, activates general alarm per 9.6.3 through entire bldg, and positive alarm sequence per 9.6.3.4 shall be permitted.
- 38.3.4.4 - Emergency Forces Notification: Notify both of the following:
  - (1) Fire Department per 9.6.4.
  - (2) Local emergency organization, if provided.
- 38.3.5 – Portable fire extinguishers shall be provided in every business occupancy per 9.7.4.1.
- 38.3.6.1 - Corridors: corridors providing access to exits shall be separated by 1 hr. rated fire barriers per 8.3 unless one of the following conditions exist:
- 38.3.7 – Subdivision of Building Spaces: No special requirements.

Chapter 43 – Building Rehabilitation

- 43.1.2.1 – Any building undergoing repair, renovation, modification, or reconstruction shall comply with both of the following:
  - (1) Req'ts of the applicable existing occupancy chapters (Chapter 39).
  - (2) Req'ts of the applicable section of this Chapter (Sections 43.5 and 43.9). See 43.5.1.3.
- 43.5.1.3 - Modifications, General Req'ts: Newly constructed elements, components, and systems shall comply with the req'tsof other sections of this Code applicable to new construction.
- 43.8.1.1 - Additions, General Req'ts.: Where an addition per 43.2.2.17 is made to a building, both of the following criteria shall be met:
  - (1) The addition shall comply with other sections of this Code applicable to new construction for the occupancy.
  - (2) The existing portion of the building shall comply with the req'ts of this Code applicable to existing buildings for the occupancy. See 43.5.1.3.

CODE LEGEND

- 0-HR Smoke Partition - NFPA 101-8.4
- 1-HR Smoke Barrier - NFPA 101 - 8.5
- 1-HR Fire Barrier - NFPA 101 - 8.3
- 2-HR Fire Barrier - NFPA 101 - 8.3
- Existing Wall to Remain
- New Wall
- Means of Egress (See Code Plan)



N **Ninth Floor Key Plan**

Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO — JOHN A. POE 6549 — REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

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Drawing Title: CODE DATA

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: DF

Project No.: VA Project No. 539-13-102; JPA Project No. 12005.00

Building Number: 1

Drawing Number: G109

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL PHASING NOTES

A. Coordinate all work involving the generation of excessive noise so as to occur during non-peak operating hours, 1000 to 1600 daily. Activities to occur during this time include, but are not limited to saw cutting, jack hammering, hammer drilling and core drilling. If there is any question as to whether an operation should occur during this time the Contractor will contact the Project Engineer.

B. Verify all conditions in the field prior to fabrication, erection and construction.

C. All asbestos containing material (ACM) must be abated per the direction of the Project Engineer and project specification 017419 and local state and federal regulations. Abatement if required is to be scheduled in appropriate sequence with demolition, new construction and project phasing.

D. Coordinate phase completion and start-up with requirements as set forth by the Project Engineer to maintain daily operations to near as normal as possible. Sleep lab services shall remain operational throughout all construction phases.

E. Coordinate location of job dumpster with the Project Engineer so as to disrupt daily operations as little as possible.

F. Coordinate access to all phases of construction, deliveries, and debris removal with the Project Engineer. See General Requirements.

G. Temporary door locations and sizes are as required by the General Contractor. Doors will interfere with daily operations as little as possible. Confirm all locations with the Project Engineer.

H. Existing HVAC, medical gases, sprinklers and water supply to be maintained throughout as required during each phase of construction. Coordinate phasing with Mechanical and Plumbing contractor. Support and protect all lines during each phase of construction. See MEP Drawings.

J. Provide and maintain negative air pressure at all construction. Coordinate with HVAC contractor. See HVAC plans for temporary venting requirements and duct locations.

K. Temporary partitions are suggested locations.Coordinate final location in field with Project Engineer. Temporary partition to structural deck above. See A601 for temporary partition type.

L. Existing power must be maintained throughout as required during each phase of construction. Coordinate phasing with Electrical Contractor. Coordinate power turnover with requirements as dictated by the Project Engineer. See Electrical Drawings.

M. Coordinate sequence construction with Project Engineer so that only one side of any corridor in use is obstructed at any one time.

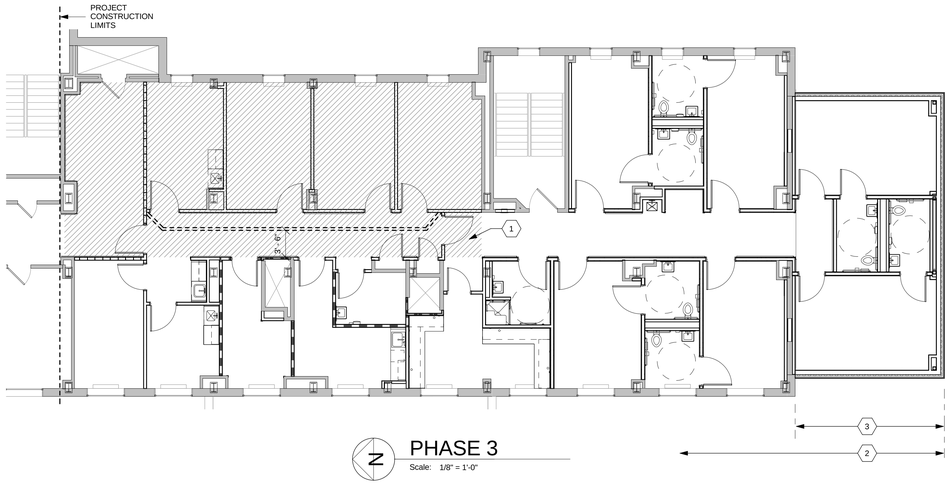
PHASING NOTES

1 Finish flooring in corridors to be replaced once both final corridor walls are in place.
2 Base Bid scope of work
3 Deduct Alternate #1: Eliminate scope of work.
4 Remove and relocate existing patient monitoring equipment to interim patient sleep rooms.
5 Existing Control Room systems shall be kept operational thru Phase 1

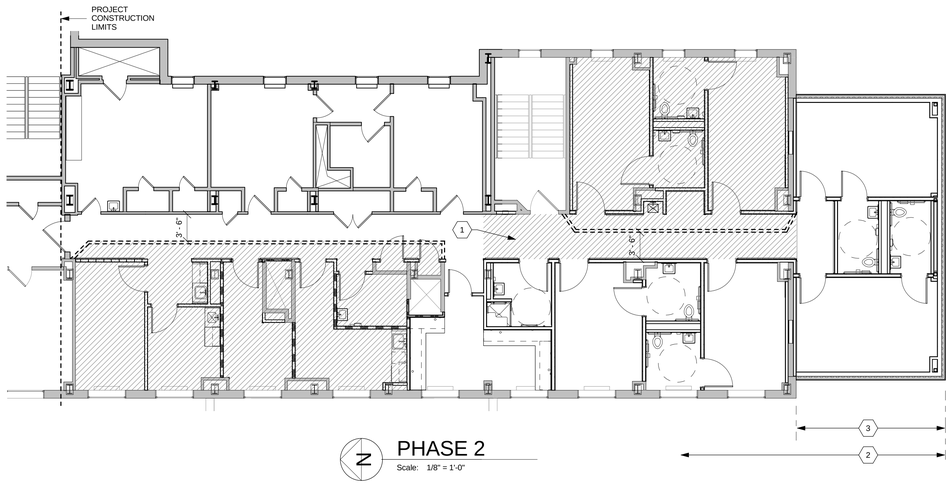
LEGEND

ACTIVE PHASE OF CONSTRUCTION

TEMPORARY PARTITION LOCATION - SEE WALL TYPE T1.0



PHASE 3
Scale: 1/8" = 1'-0"



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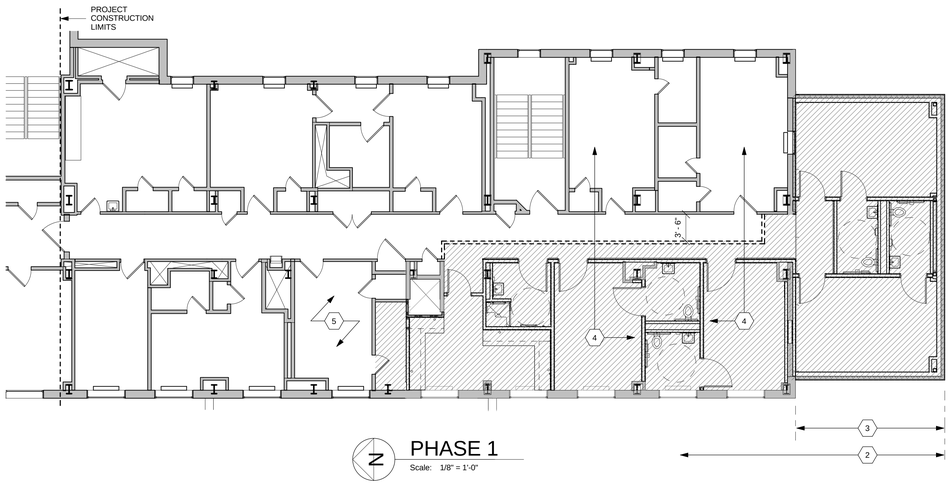

PHASE 1
Scale: 1/8" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO
JOHN A. POE
6549
REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

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Drawing Title: PHASING PLANS

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: DF

Project No.
VA Project No. 539-13-102
JPA Project No. 12005.00

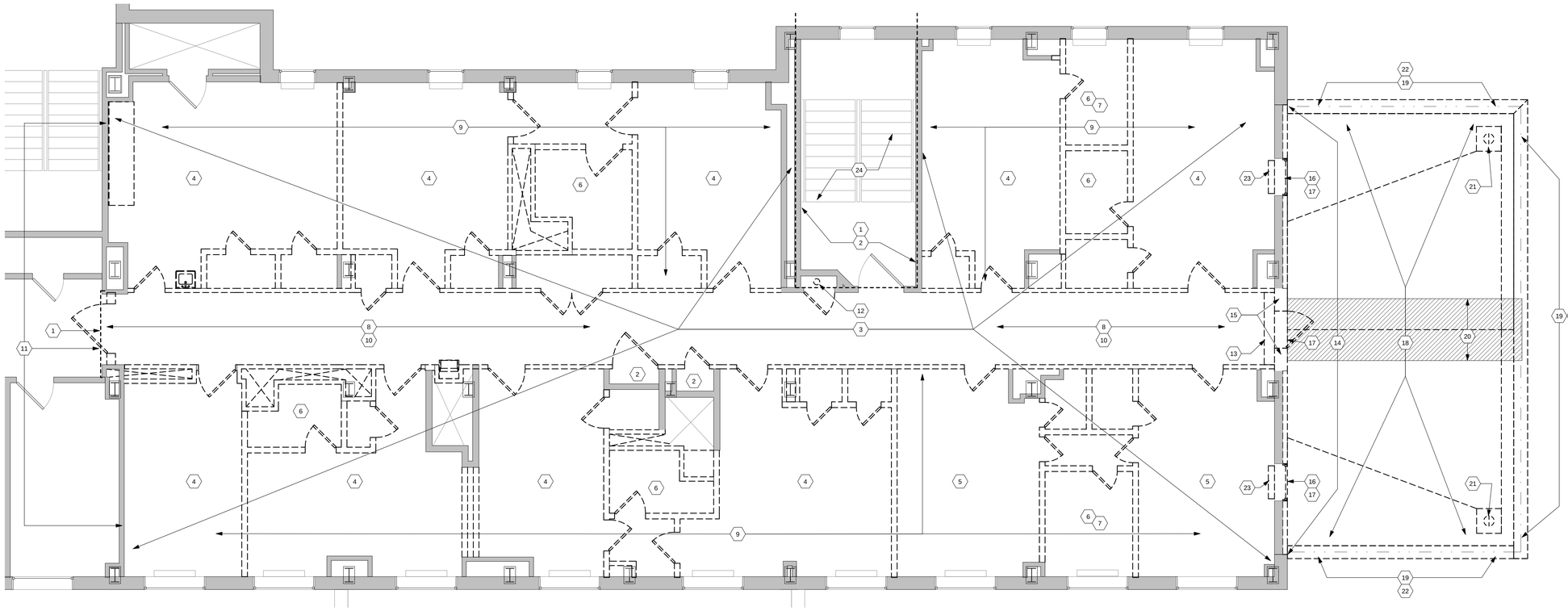
Building Number: 1

Drawing Number: G209

Dwg. of

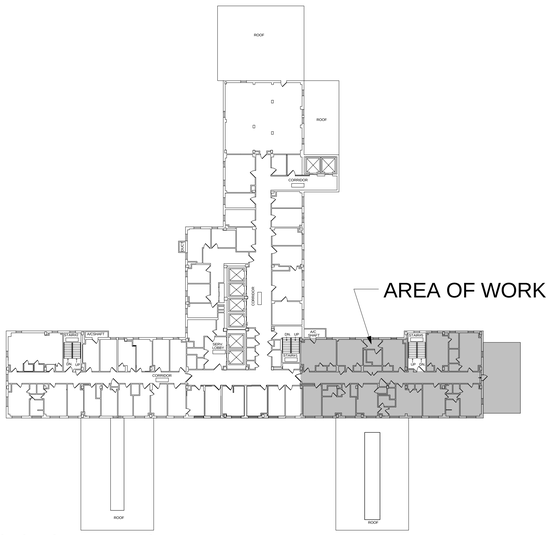
Office of Construction and Facilities Management

Department of Veterans Affairs



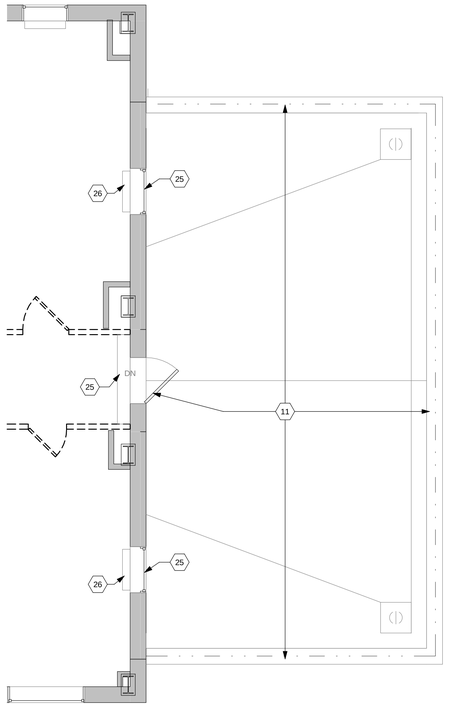
Partial Ninth Floor Plan - Demolition (BASE BID)

Scale: 1/4" = 1'-0"



Ninth Floor Key Plan

Scale: N.T.S.



Partial Ninth Floor Plan - Demolition (DEDUCT ALT. #1)

Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

GENERAL DEMOLITION NOTES

A. Remove all existing partitions shown with dashed line. Repair wall and floor finishes to match adjacent surfaces at areas of removal or scheduled new surfaces as required.
B. Remove all existing borrowed lights, doors and hollow metal frames where indicated with dashed line. Unused hardware shall be turned over to Owner. Box hardware before giving to Owner.
C. Remove wall-hung toilet room accessories and medical equipment as required and turn over to Owner.
D. See Plumbing, HVAC and Electrical Drawings for removal work associated with those trades.
E. Computer and communication cables and/or other wiring, piping, tubing, etc. serving other areas and functions located above ceiling or in walls of area to be remodeled shall be maintained during demolition/construction process. Coordinate any required changes to these systems with the C.O.T.R.
F. Repair existing walls to match adjacent undisturbed wall where cabinets, countertops, etc. are shown to be removed.
G. Prepare walls and floor slabs as required to receive new finish materials where existing finish is indicated to be removed.
H. Remove existing corner guards in areas to be remodeled.
J. Existing exterior windows to remain unless noted otherwise.
K. Refer to specifications regarding asbetos material removal.

DEMOLITION NOTES

1 Existing flooring to remain.
2 Existing plaster ceiling and support steel above to remain.
2 Existing plaster ceiling to remain.
3 Remove steel channel ceiling support framing and suspension system.
4 Remove carpeting and wall base.
5 Remove vinyl plank flooring and wall base.
6 Remove tile flooring.
7 Remove wall tile from existing walls to remain.
8 Remove VCT flooring and wall base.
9 Remove plaster ceiling.
10 Remove acoustical ceiling system.
11 Existing construction to remain.
12 Remove and salavage fire extinguisher for relocation.
13 Remove existing stairs. Prepare floor slab for new finishes.
14 Remove existing face brick from floor level to underside of relief angle above. See Section #3, Sheet A311.
15 Remove exterior wall. Repair and prep floor slab for new finishes.
16 Remove window and stool.
17 Remove exterior louver. Existing wall infill to remain.
18 Remove roofing system to existing sloped concrete deck.
19 Remove masonry parapet wall and coping. See detail #1b, Sheet A311
20 Grind ridge of existing sloped concrete deck level to align with existing concrete floor slab. Assume 1/4" max. depth of removal. Notify Architect if required removal exceeds 1/4" prior to commencing work.
21 Remove roof drain. See Plumbing Drawings.
22 Remove chain link fence and posts..
23 Remove convector unit (Base Bid only). See Mechanical Drawings.
24 Existing stairs to remain.
25 Existing window to remain.
26 Existing convector unit to remain (Deduct Alternate only).

Revisions	Date

CONSULTANTS:

STATE OF OHIO
JOHN A. POE
6549
REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

JOHN POE ARCHITECTS

116 EAST THIRD STREET
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Drawing Title: DEMOLITION PLAN

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checker: KR | Drawer: BC

Project No.
VA Project No. 539-13-102
JPA Project No. 12005.00

Building Number: 1

Drawing Number: AD109

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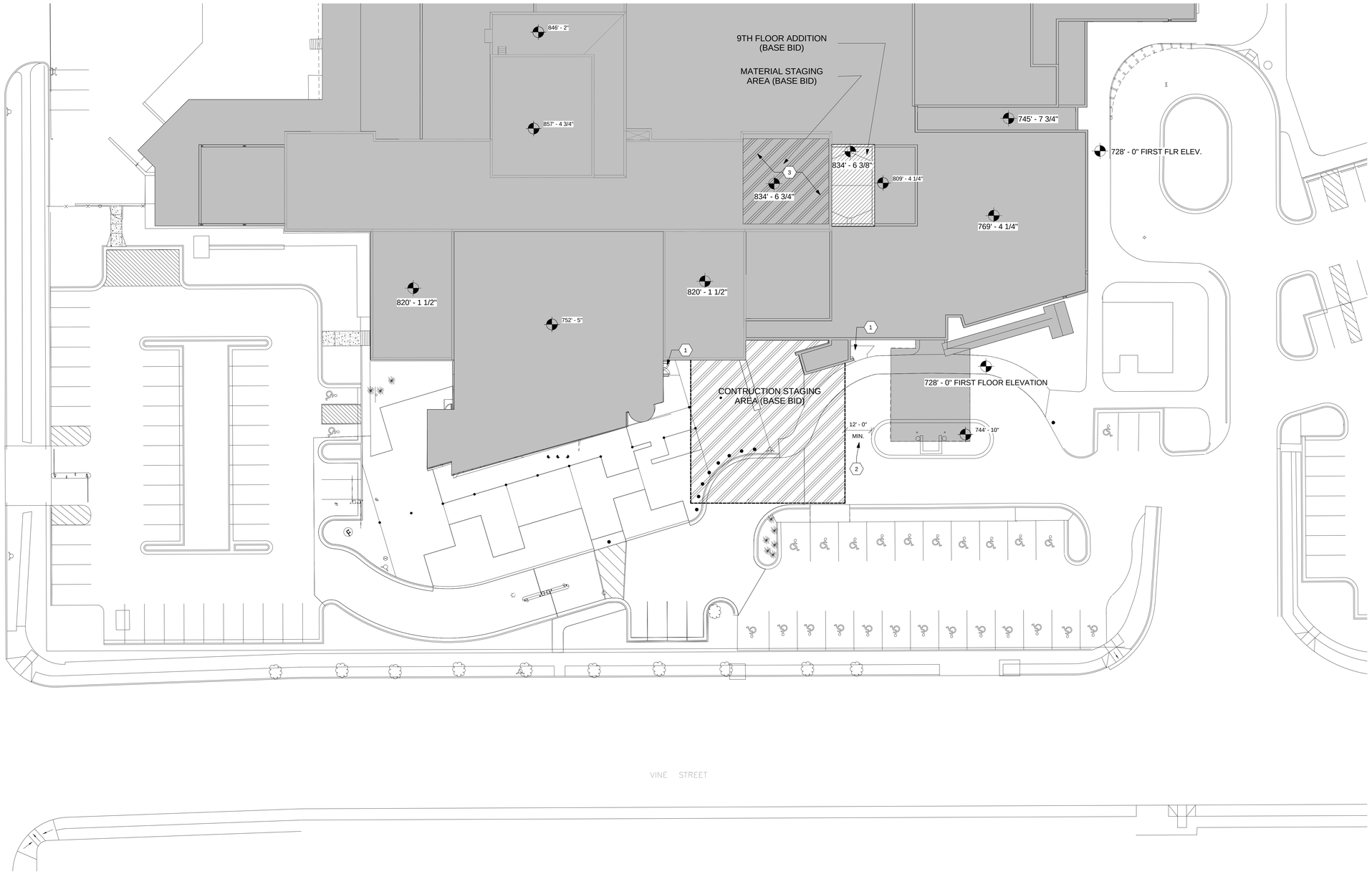
GENERAL SITE NOTES

A. Contractor shall provide and submit Staging Plan for VA review and approval prior to commencing work.
B. Contactor to provide temporary fencing around exterior staging areas. Fencing shall be securable and substantial enough to prohibit unauthorized access. Contractor is responsible for securing all construction and staging areas at all times.
C. Roof elevations shown are approximate and are for general reference only.

SITE NOTES

1 Maintain clearance for exterior means of egress door and discharge route.
2 Maintain clearance for vehicular access.
3 Material staging atop existing roof must not exceed 25 psf. All items must be secured and braced. Install plywood cover board under all construction materials to protect existing roofing, parapets, and flashing.



N

PARTIAL SITE PLAN (BASE BID)

Scale: 1" = 20'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO
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Drawing Title: SITE PLAN

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: DF

Project No.: VA Project No. 539-13-102; JPA Project No. 12005.00

Building Number: 1

Drawing Number: AS101

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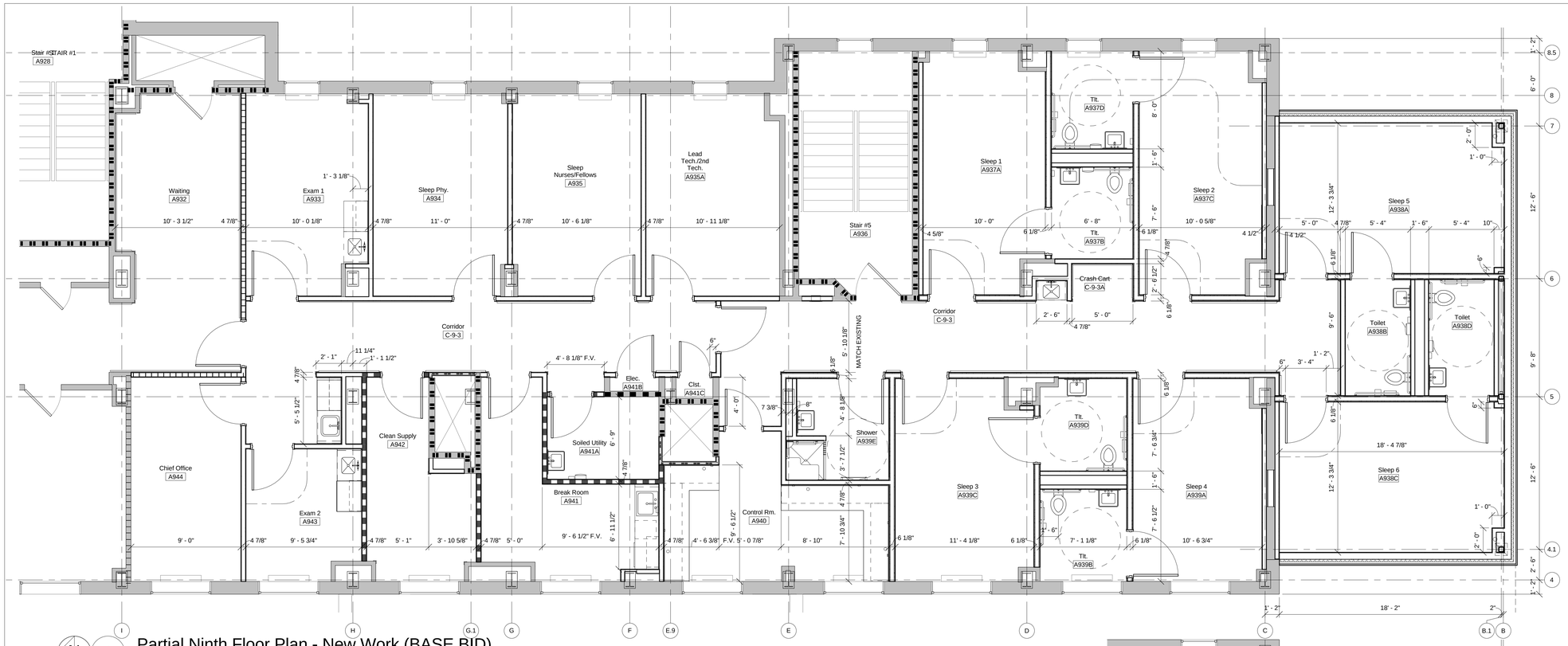


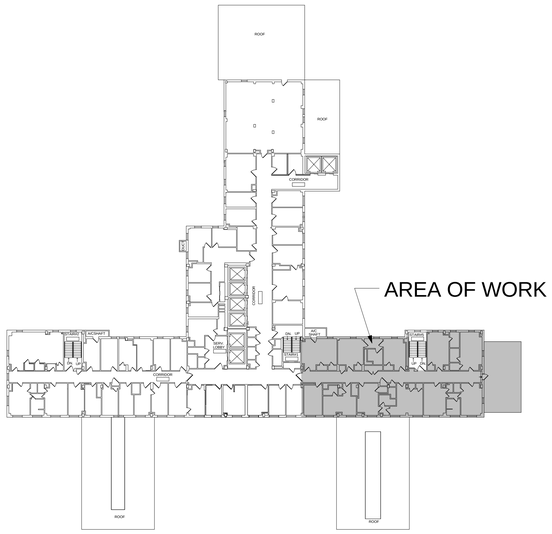
N 1 Partial Ninth Floor Plan - New Work (BASE BID)

Scale: 1/4" = 1'-0"

GENERAL NOTES

A. All dimensions are taken to face of gypsum wallboard or unit masonry.

B. Edge of all door jambs at hinge side not otherwise indicated are to be 6" from the face of intersecting walls. Edge of all door jambs at strike side not otherwise located are to be 18" minimum from the face of intersecting walls.



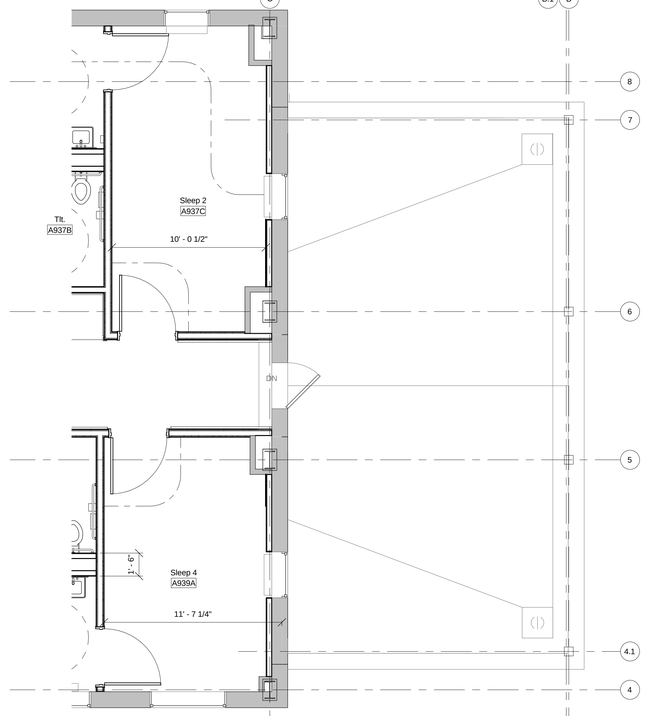
AREA OF WORK

N Ninth Floor Key Plan

Scale: N.T.S.

CODE LEGEND

- 0-HR Smoke Partition - NFPA 101-8.4
- 1-HR Smoke Barrier - NFPA 101 - 8.5
- 1-HR Fire Barrier - NFPA 101 - 8.3
- 2-HR Fire Barrier - NFPA 101 - 8.3
- Existing Wall to Remain
- New Wall
- Means of Egress (See Code Plan)



N 2 Partial Ninth Floor Plan - New Work (DEDUCT ALT. #1)

Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO — JOHN A. POE 6549 — REGISTERED ARCHITECT

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Drawing Title: PARTIAL NINTH FLOOR PLAN - DIMENSIONS

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: BC, DF

Project No.: VA Project No. 539-13-102; JPA Project No. 12005.00

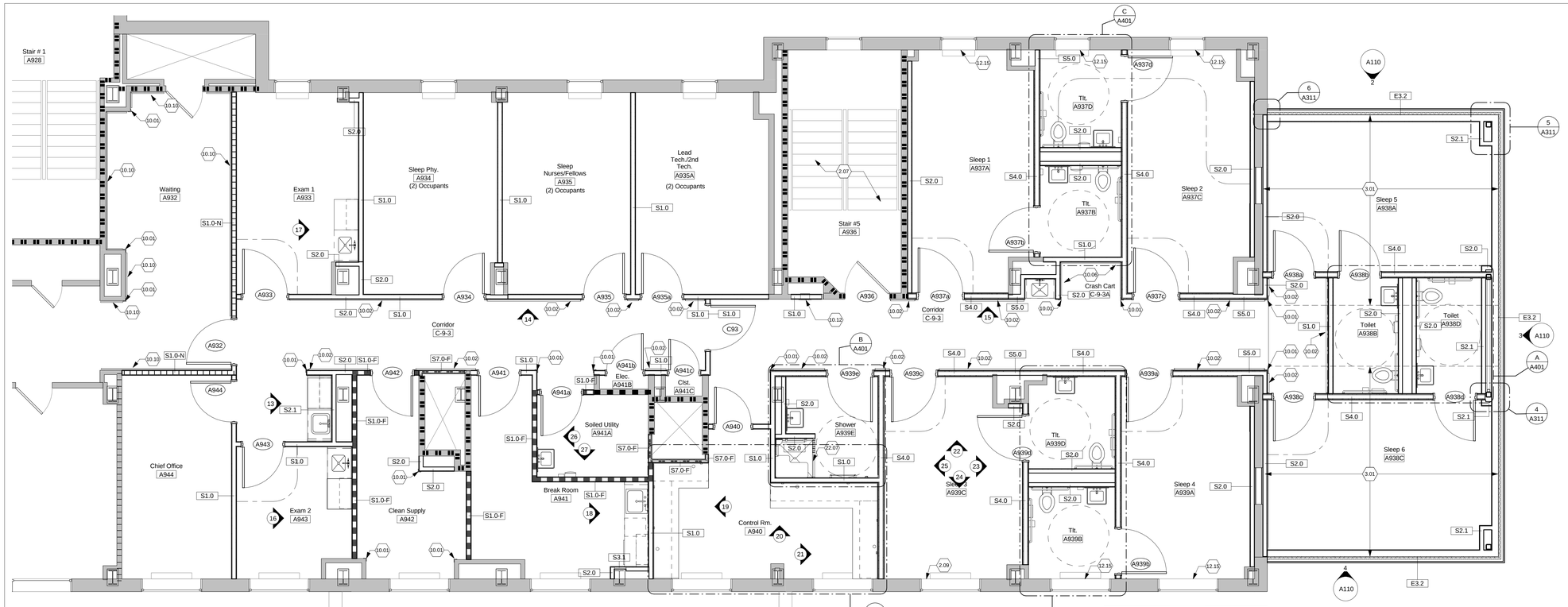
Building Number: 1

Drawing Number: A109-D

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs



N 1 Partial Ninth Floor Plan - New Work (BASE BID)

Scale: 1/4" = 1'-0"

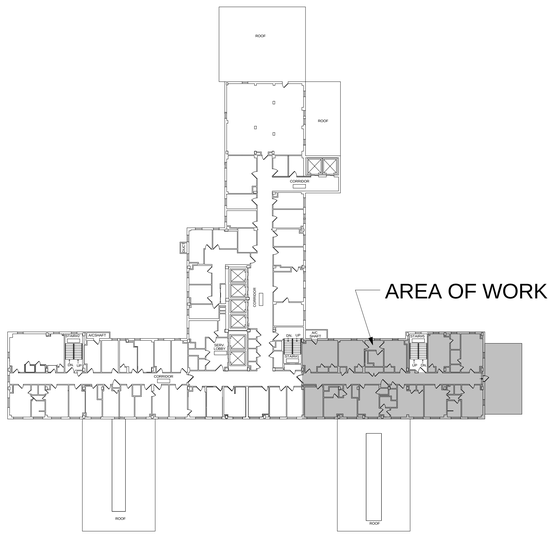
GENERAL NOTES

A. All dimensions are taken to face of gypsum wallboard or unit masonry.

B. Edge of all door jambs at hinge side not otherwise indicated are to be 6" from the face of intersecting walls. Edge of all door jambs at strike side not otherwise located are to be 18" minimum from the face of intersecting walls.

⬡ PLAN NOTES

2.01	Existing construction to remaiin.
2.05	Existing coping to remain.
2.07	Existing stairs to remain.
2.08	Existing masonry to remain.
2.09	Existing black out manual roller shade to remain.
2.10	Existing roof drains to remain.
2.11	Existing window to remain.
3.01	Gypsum cement underlayment floor fill on 1/2" expanded polystyrene board. Finish level surface to align with existing floor slab.
9.30	Stair tread w/ RB-1. See Finish Legend for details.
10.01	Resilient corner guard, 7-0" A.F.F.
10.02	Handrail & crashrail w/ sheet wall protection. See sheet A511 for details.
10.06	Crashrail w/ sheet wall protection. See sheet A511 for details.
10.10	Crash Rail -2, see sheet A511 for details.
10.12	Recessed fire extinguisher cabinet.
12.15	Black out manual roller shades. See sheet A511 for details. Field verify window size.
22.07	Transition from shower basin to flooring. See sheet AF109F detail C.

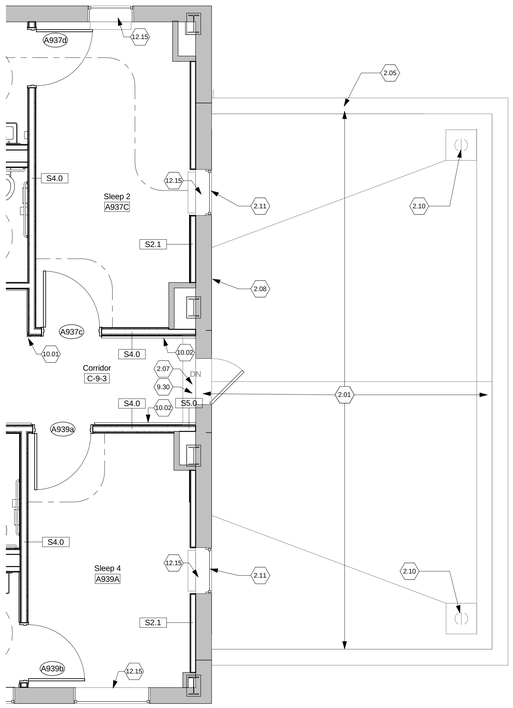


N Ninth Floor Key Plan

Scale: N.T.S.

CODE LEGEND

- 0-HR Smoke Partition - NFPA 101-8.4
- 1-HR Smoke Barrier - NFPA 101 - 8.5
- 1-HR Fire Barrier - NFPA 101 - 8.3
- 2-HR Fire Barrier - NFPA 101 - 8.3
- Existing Wall to Remain
- New Wall
- Means of Egress (See Code Plan)



N 2 Partial Ninth Floor Plan - New Work (DEDUCT ALT. #1)

Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO JOHN A. POE 6549 REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

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Drawing Title: PARTIAL NINTH FLOOR PLAN - NOTES

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: BC, DF

Project No.: VA Project No. 539-13-102; JPA Project No. 12005.00

Building Number: 1

Drawing Number: A109-N

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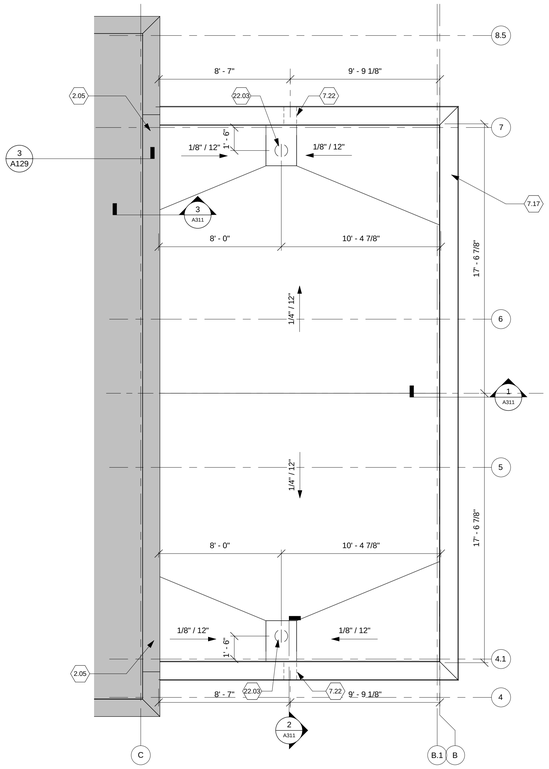
Office of Construction and Facilities Management

Department of Veterans Affairs



N 1 Roof Plan (BASE BID)

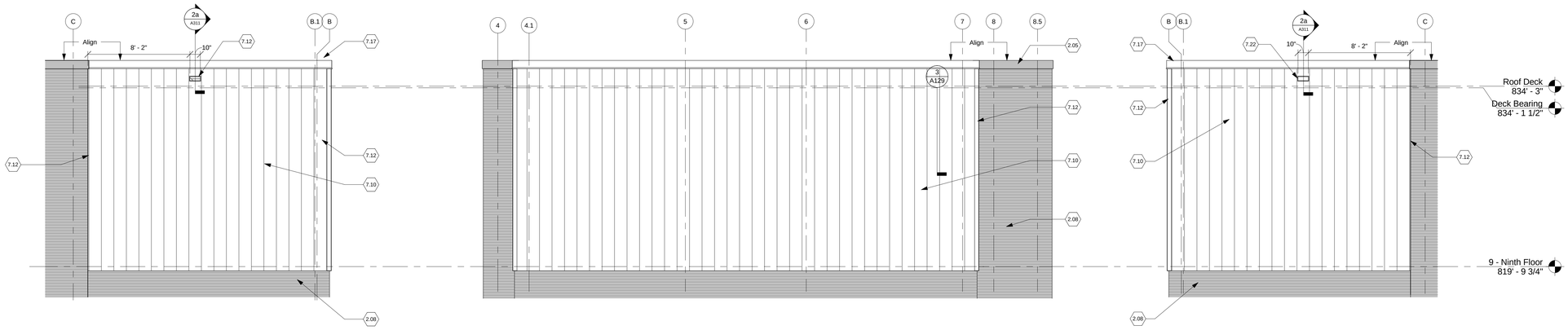
Scale: 1/4" = 1'-0"

GENERAL ROOF NOTES

A. All dimensions are taken to face of gypsum wallboard or unit masonry.
B. All new roofing shall be cold-process built-up ashalt roofing on tapered rigid insulation, 3" minimum thickness at roof drains. Overall average R-30 minimum.

⬡ NOTES

2.05	Existing coping to remain.
2.08	Existing masonry to remain.
7.10	12" wide vertical metal panel.
7.12	Metal panel closure trim by panel manufacturer. Color to match panel color.
7.17	Prefinished aluminum parapet cap with 12" alum cleat/chair @ 60" o.c..
7.22	Metal scupper.
22.03	Roof drain. See Plumbing Drawings. Provide layered membrane in sump area per roofing manufacturer. No field splice in sump area.



4 West Elevation (BASE BID)

Scale: 1/4" = 1'-0"

3 South Elevation (BASE BID)

Scale: 1/4" = 1'-0"

2 East Elevation (BASE BID)

Scale: 1/4" = 1'-0"

GENERAL ELEVATION NOTES

A. Verify all conditions prior to fabrication, erection, and installation.
B. See Structural Drawings for column sizes and locations.
C. See Sheet AD109 for extent of demolition at building exterior.

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO
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REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

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Drawing Title: ROOF PLAN AND EXTERIOR ELEVATIONS

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: DF

Project No.
VA Project No. 539-13-102
JPA Project No. 12005.00

Building Number: 1

Drawing Number: A110

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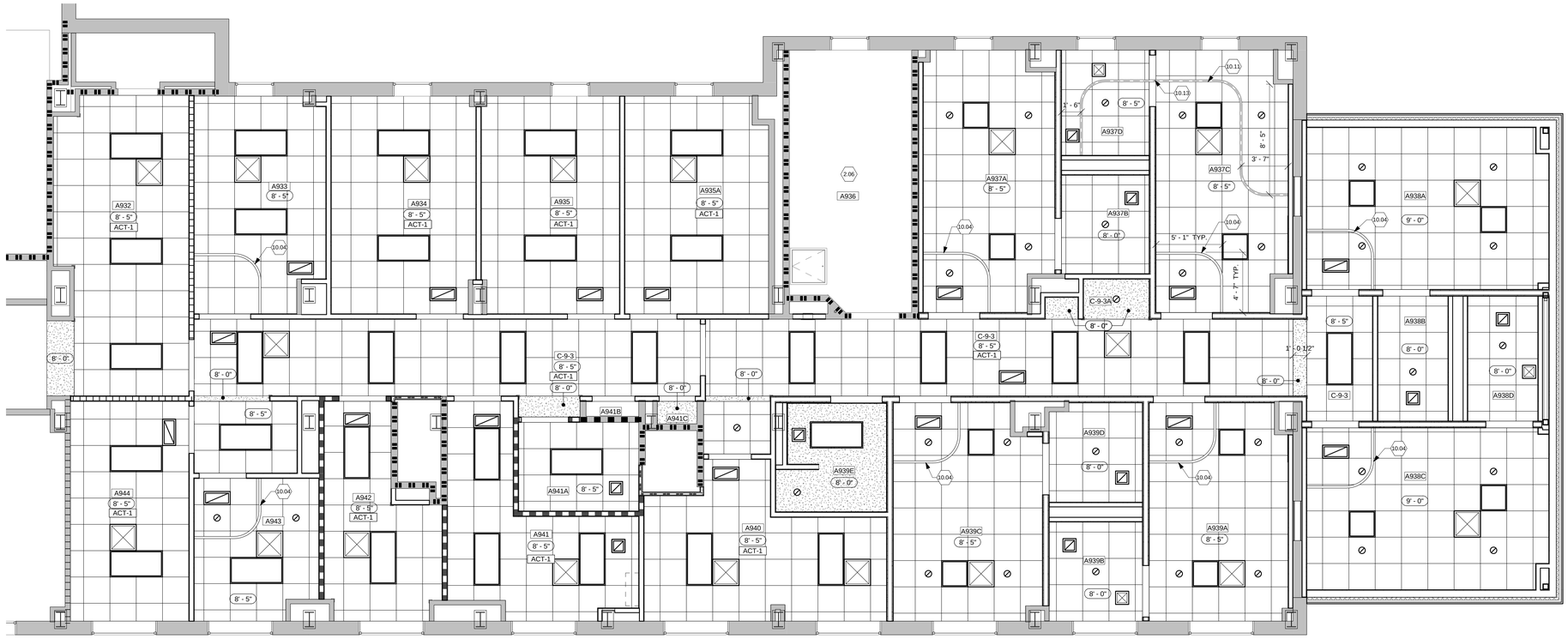
Office of Construction and Facilities Management

Department of Veterans Affairs



N 1 Partial Ninth Floor - Reflected Ceiling Plan (BASE BID)

Scale: 1/4" = 1'-0"

GENERAL NOTES

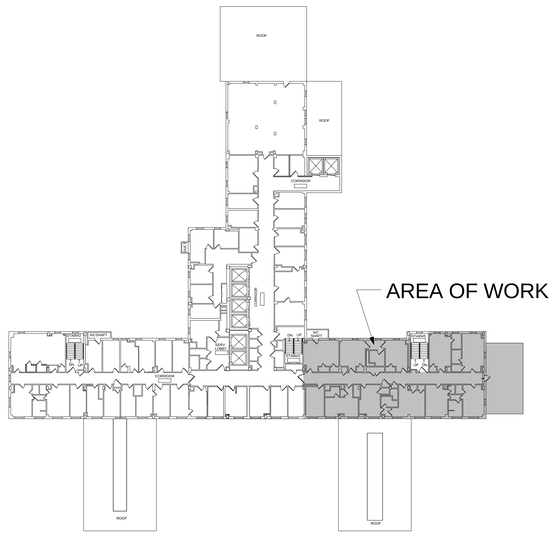
A. All wood blocking shall be fire retardant.
B. Light fixtures, sprinkler heads, speakers, and HVAC devices shall be located as close as possible to the center of acoustical ceiling panels. Confirm any deviation from this with the Project Engineer.
C. See P, M, E and FP drawings for additional information regarding final information and quantites of fixtures/devices to be installed in ceiling.
D. See Electrical Drawings for lighting specifications.
E. All gypsum board ceilings and sofits to be painted P-5 unless noted otherwise.
F. All acoustical ceiling tiles are to be ACT-2, unless noted otherwise.

⬡ NOTES

2.03	Existing concrete deck.
2.06	Existing ceiling to remain.
9.08	Suspended acoustic ceiling tile/grid.
10.04	Cubicle curtain track.
10.11	Suspended patient lift system track.
10.13	Coordinate lift track with door frame to ensure track aligns with center of door opening.
10.14	Patient lift support framing. Support framing anchored from building framing only. Support from the concrete roof slab is prohibited.

REFLECTED CEILING PLAN LEGEND

- Recessed downlight fixture
- 2' x 4' fluorescent fixture
- 2' x 2' acoustical tile ceiling
- Gypsum board / soffit - painted
- Supply Air Diffuser
- Return Air Grille
- Access panel

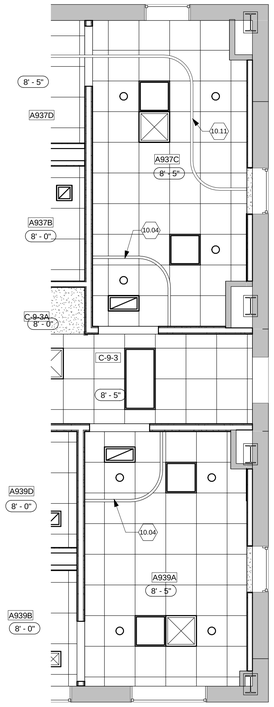


N Ninth Floor Key Plan

Scale: N.T.S.

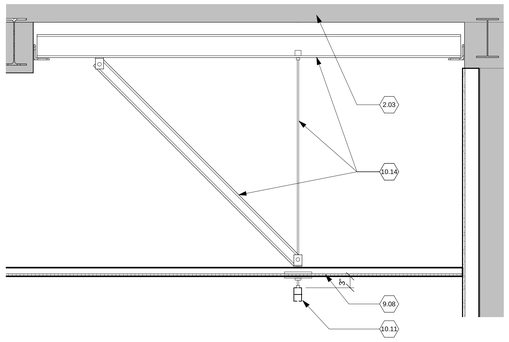
CODE LEGEND

- 0-HR Smoke Partition - NFPA 101-8.4
- 1-HR Smoke Barrier - NFPA 101 - 8.5
- 1-HR Fire Barrier - NFPA 101 - 8.3
- 2-HR Fire Barrier - NFPA 101 - 8.3
- Existing Wall to Remain
- New Wall
- Means of Egress (See Code Plan)



N 2 Partial Ninth Floor - Reflected Ceiling Plan (DEDUCT ALT. #1)

Scale: 1/4" = 1'-0"



3 Patient Lift Detail

Scale: 3/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO — JOHN A. POE 6549 — REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

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Drawing Title: REFLECTED CEILING PLAN

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: DF

Project No. VA Project No. 539-13-102 JPA Project No. 12005.00

Building Number: 1

Drawing Number: A129

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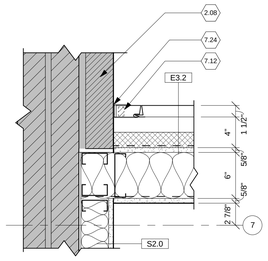
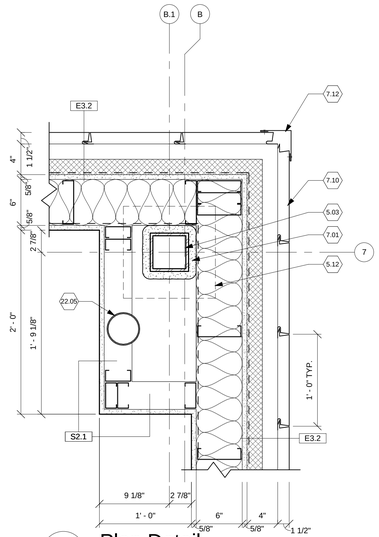
Office of Construction and Facilities Management

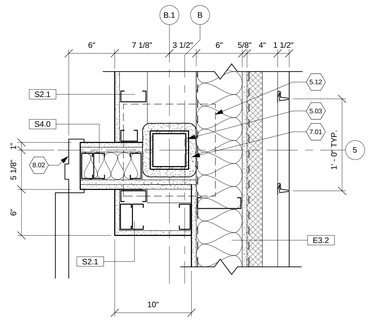
Department of Veterans Affairs



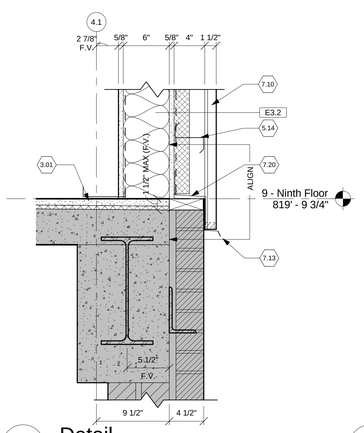
6 Plan Detail
Scale: 1 1/2" = 1'-0"



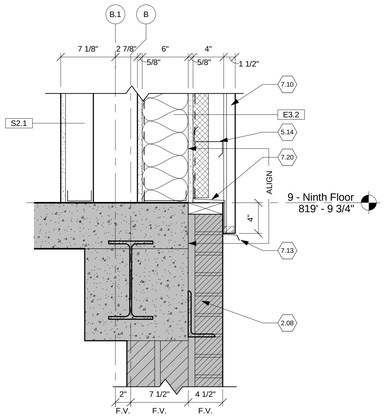
5 Plan Detail
Scale: 1 1/2" = 1'-0"



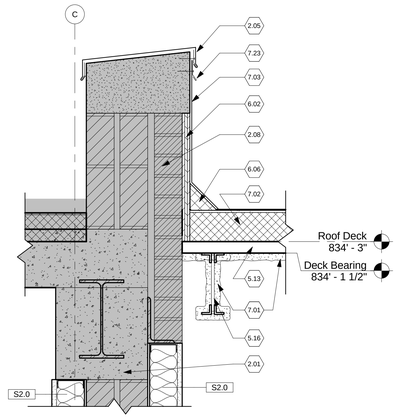
4 Plan Detail
Scale: 1 1/2" = 1'-0"



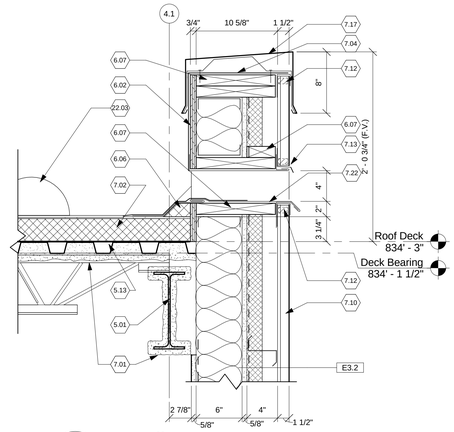
2b Detail
Scale: 1 1/2" = 1'-0"



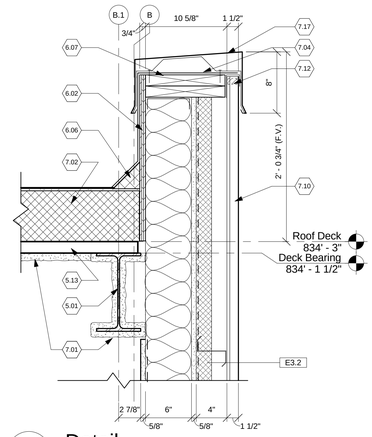
1b Detail
Scale: 1 1/2" = 1'-0"



3a Detail
Scale: 1 1/2" = 1'-0"



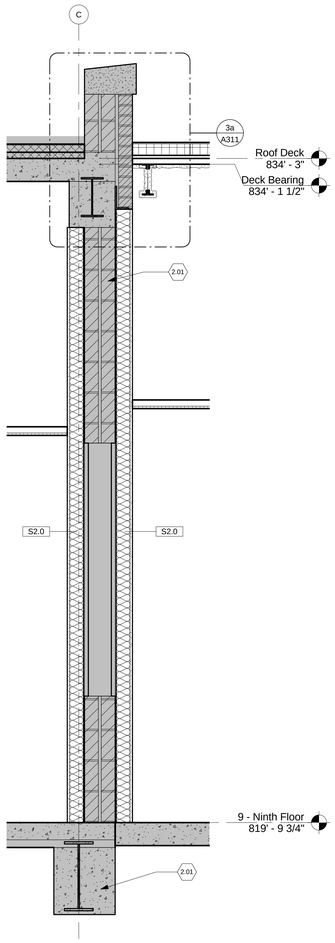
2a Detail
Scale: 1 1/2" = 1'-0"



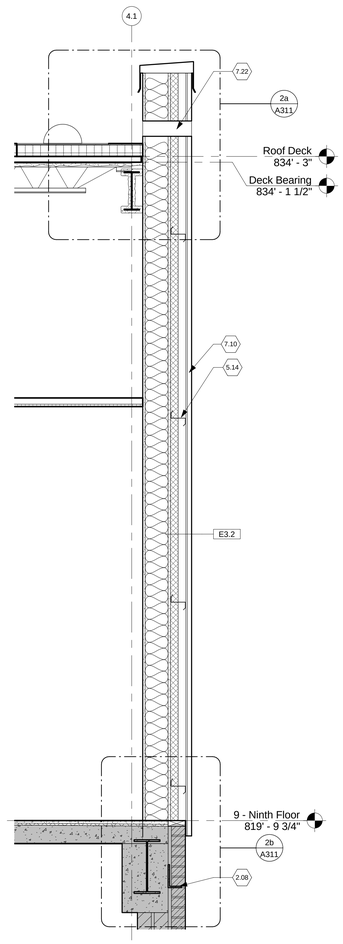
1a Detail
Scale: 1 1/2" = 1'-0"

NOTES

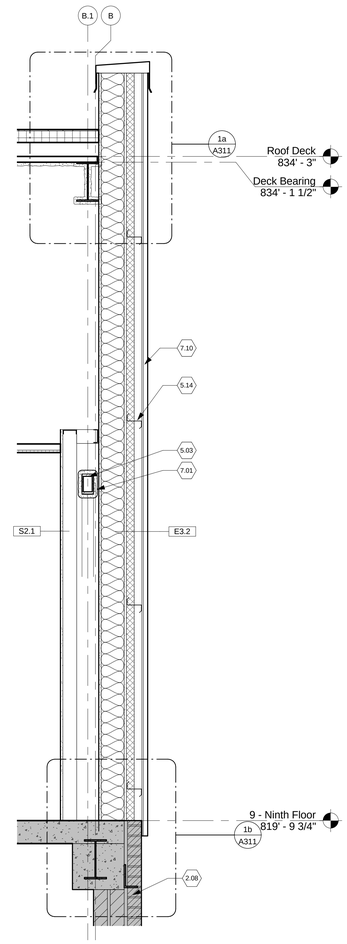
2.01	Existing construction to remaiin.
2.05	Existing coping to remain.
2.08	Existing masonry to remain.
3.01	Gypsum cement underlayment floor fill on 1/2" expanded polystyrene board. Finish level surface to align with existing floor slab.
5.01	Steel beam. See Structural Drawings.
5.03	Steel tube framing. See Structural Drawings.
5.12	Steel column base plate. See Structural Drawings.
5.13	1 1/2" Metal deck. See Structural drawings.
5.14	4" metal 'Z' girt @ 48" o.c., 16 ga.
5.16	Steel bar joists. See Structural Drawings.
6.02	3/4" exterior grade plywood
6.06	Continuous wood fiber cant strip.
6.07	Pressure-treated wood blocking.
7.01	Spray-applied fireproofing.
7.02	Roof assembly: Cold-process built-up asphalt roofing over tapered insulation. 3" minimum insulation thickness @ roof drains.
7.03	Cold-process roofing membrane.
7.04	Extend membrane over top of parapet wall.
7.10	12" wide vertical metal panel.
7.12	Metal panel closure trim by panel manufacturer. Color to match panel color.
7.13	Metal flashing / trim by panel manufacturer.
7.17	Prefinished aluminum parapet cap with 12" alum cleat/chair @ 60" o.c..
7.20	Metal flashing.
7.22	Metal scupper.
7.23	Stainless steel bib counterflashing inserted under existing coping drip edge.
7.24	Cont. sealant @ each side.
8.02	Hollow metal frame.
22.03	Roof drain. See Plumbing Drawings. Provide layered membrane in sump area per roofing manufacturer. No field splice in sump area.
22.05	Plumbing lines. See Plumbing Drawings.



3 Wall Section
Scale: 3/4" = 1'-0"



2 Wall Section
Scale: 3/4" = 1'-0"



1 Wall Section
Scale: 3/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO · JOHN A. POE 6549 · REGISTERED ARCHITECT

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Drawing Title: WALL SECTIONS

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 · Checked: KR · Drawn: DF

Project No. · VA Project No. 539-13-102 · JPA Project No. 12005.00

Building Number: 1

Drawing Number: A311

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

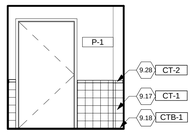
ACCESSORIES SCHEDULE			
MARK	ITEM	MOUNTING HEIGHT	COMMENTS
A	PAPER TOWEL DISPENSER - SURFACE - MOUNTED	40" A.F.F. to BOTTOM	FURNISHED BY OWNER. INSTALLED BY G.C.
B	SOAP DISPENSER	50" A.F.F. TO TOP	FURNISHED BY OWNER. INSTALLED BY G.C.
C	MIRROR	40" A.F.F. TO BOTTOM OF MIRROR	FURNISHED & INSTALLED BY G.C.
D	GRAB BAR 42" LENGTH	33" A.F.F. TO CENTER LINE	FURNISHED & INSTALLED BY G.C.
E	GRAB BAR 36" LENGTH	33" A.F.F. TO CENTER LINE	FURNISHED & INSTALLED BY G.C.
F	SAN. NAP. DISPOSAL	31" A.F.F. TO TOP	FURNISHED BY OWNER. INSTALLED BY G.C.
G	TOILET PAPER DISPENSER	28-3/4" A.F.F. TO TOP	FURNISHED BY OWNER. INSTALLED BY G.C.
H	SHOWER CURTAIN ROD (HEAVY DUTY, FIT TO OPENING)	76" A.F.F. TO CENTER LINE OF BAR	FURNISHED BY OWNER. INSTALLED BY G.C.
J	TOWEL BAR 24" (EXTRA HEAVY DUTY)	44" A.F.F. TO CENTER LINE	FURNISHED & INSTALLED BY G.C.
K	ROBE HOOK	44" A.F.F. TO CENTER LINE	FURNISHED & INSTALLED BY G.C.
L	GRAB BAR FOR SHOWER STALL	33" A.F.F. TO CENTERLINE OF BAR	FURNISHED & INSTALLED BY G.C.
M	VINYL SHOWER CURTAIN W/ STAINLESS STEEL CURTAIN HOOKS	N/A	FURNISHED & INSTALLED BY G.C.
N	FOLDING SHOWER SEAT - LEFT HAND	18" A.F.F. TO TOP OF SEAT	FURNISHED & INSTALLED BY G.C.
O	GRAB BAR 18" LENGTH - VERTICAL	37" A.F.F. TO BOTTOM MOUNT	FURNISHED & INSTALLED BY G.C.

GENERAL INT. ELEVATION NOTES

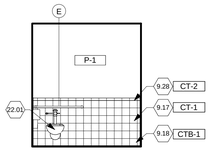
A. See sheet AF109F for Floor Finish Plan.
B. See sheet A501 for Casework Details.
C. See sheet AF601 for Room Finish Schedule.
D. See sheet AF601 for Finish Materials Legend.
E. Provide tile substrate as follows: All shower stalls will receive Cementious backer units. All Toilet Rooms and Shower Room will receive Water-resistant gyp. board.
F. Existing convector units are to painted to match the surrounding wall paint, P-1.
G Shower Room wall tile pattern, see sheet A401 detail E.
H Toilet Room wall tile pattern, see sheet A401 detail F.

NOTES

9.17 Ceramic wall tile.
9.18 Ceramic tile cove base.
9.28 Bullnose ceramic wall tile.
9.29 Ceramic corner soap dish, see Finish Legend for details.
12.15 Black out manual roller shades. See sheet A511 for details. Field verify window size.
22.01 Plumbing fixture. See Plumbing Drawings.
22.06 Pre-manufactured shower basin. See Plumbing Drawings.
23.04 Existing convector unit to remain.



13 TOILET - A939D
Scale: 1/4" = 1'-0"



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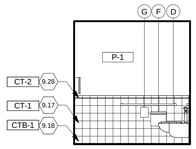

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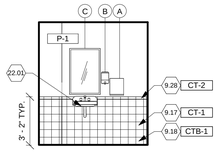

10 TOILET - A939D
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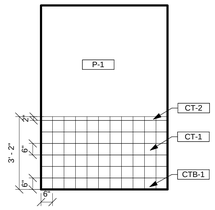
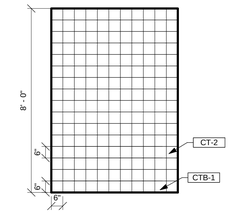
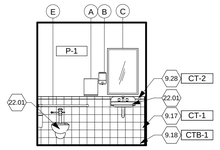


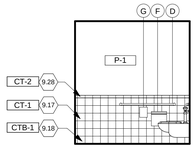
F WALL TILE PATTERN
Scale: 3/8" = 1'-0"



E SHOWER WALL TILE PATTERN
Scale: 3/8" = 1'-0"



9 TOILET - A939B
Scale: 1/4" = 1'-0"



8 TOILET - A939B
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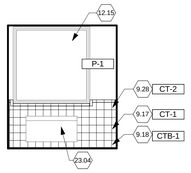

7 TOILET - A939B
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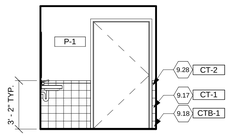
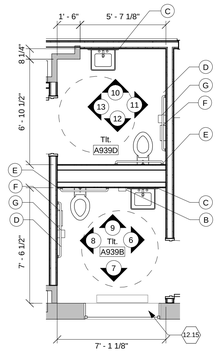
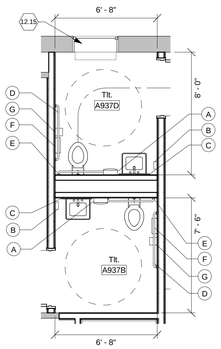


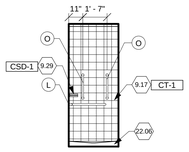
6 TOILET - A939B
Scale: 1/4" = 1'-0"



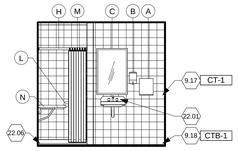
D TOILET- A939B & A939D
Scale: 1/4" = 1'-0"



C TOILET- A937B & 937D
Scale: 1/4" = 1'-0"



5 SHOWER - A939E
Scale: 1/4" = 1'-0"



4 SHOWER - A939E
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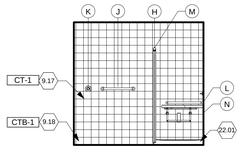

3 SHOWER - A939E
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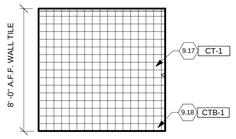

2 SHOWER - A939E
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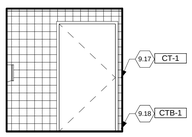
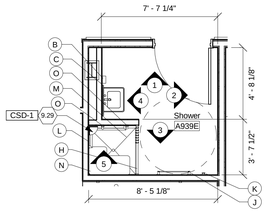
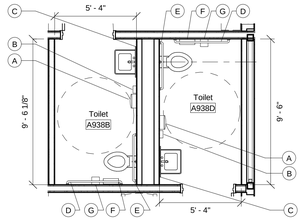


1 SHOWER - A939E
Scale: 1/4" = 1'-0"



B SHOWER - A939E
Scale: 1/4" = 1'-0"



A TOILET - A938B & 938D
Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO
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6549
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Drawing Title: INTERIOR ELEVATIONS & DETAILED PLANS

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: KS

Project No.
VA Project No. 539-13-102
JPA Project No. 12005.00

Building Number: 1

Drawing Number: A401

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

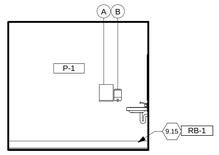
ACCESSORIES SCHEDULE			
MARK	ITEM	MOUNTING HEIGHT	COMMENTS
A	PAPER TOWEL DISPENSER - SURFACE - MOUNTED	40" A.F.F. to BOTTOM	FURNISHED BY OWNER. INSTALLED BY G.C.
B	SOAP DISPENSER	50" A.F.F. TO TOP	FURNISHED BY OWNER. INSTALLED BY G.C.
C	MIRROR	40" A.F.F. TO BOTTOM OF MIRROR	FURNISHED & INSTALLED BY G.C.
D	GRAB BAR 42" LENGTH	33" A.F.F. TO CENTER LINE	FURNISHED & INSTALLED BY G.C.
E	GRAB BAR 36" LENGTH	33" A.F.F. TO CENTER LINE	FURNISHED & INSTALLED BY G.C.
F	SAN. NAP. DISPOSAL	31" A.F.F. TO TOP	FURNISHED BY OWNER. INSTALLED BY G.C.
G	TOILET PAPER DISPENSER	28-3/4" A.F.F. TO TOP	FURNISHED BY OWNER. INSTALLED BY G.C.
H	SHOWER CURTAIN ROD (HEAVY DUTY, FIT TO OPENING)	76" A.F.F. TO CENTER LINE OF BAR	FURNISHED BY OWNER. INSTALLED BY G.C.
J	TOWEL BAR 24" (EXTRA HEAVY DUTY)	44" A.F.F. TO CENTER LINE	FURNISHED & INSTALLED BY G.C.
K	ROBE HOOK	44" A.F.F. TO CENTER LINE	FURNISHED & INSTALLED BY G.C.
L	GRAB BAR FOR SHOWER STALL	33" A.F.F. TO CENTERLINE OF BAR	FURNISHED & INSTALLED BY G.C.
M	VINYL SHOWER CURTAIN W/ STAINLESS STEEL CURTAIN HOOKS	N/A	FURNISHED & INSTALLED BY G.C.
N	FOLDING SHOWER SEAT - LEFT HAND	18" A.F.F. TO TOP OF SEAT	FURNISHED & INSTALLED BY G.C.
O	GRAB BAR 18" LENGTH - VERTICAL	37" A.F.F. TO BOTTOM MOUNT	FURNISHED & INSTALLED BY G.C.

GENERAL INT. ELEVATION NOTES

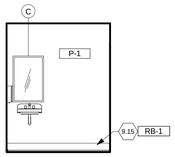
A. See sheet AF109F for Floor Finish Plan.
B. See sheet A501 for Casework Details.
C. See sheet AF601 for Room Finish Schedule.
D. See sheet AF601 for Finish Materials Legend.
E. Provide tile substrate as follows: All shower stalls will receive Cementious backer units. All Toilet Rooms and Shower Room will receive Water-resistant gyp. board.
F. Existing convector units are to painted to match the surronding wall paint, P-1.
G Shower Room wall tile pattern, see sheet A401 detail E.
H Toilet Room wall tile pattern, see sheet A401 detail F.

⬡ NOTES

9.15 Resilient base.
10.01 Resilient corner guard, 7-0" A.F.F.
10.07 Handrail, see sheet A511 for details.
10.08 Sheet wall protection, see sheet A511 for details.
10.09 Crash Rail -1, see sheet A511 for details.
10.10 Crash Rail -2, see sheet A511 for details.
11.01 Owner provided and installed refrigerator. Coordinate utility connections with owner. See Electrical and Plumbing Drawings.
11.02 Owner provided and installed Microwave. Coordinate utility connections with owner. See Electrical and Plumbing Drawings.
12.02 Plastic laminate base cabinet.
12.03 Plastic laminate wall cabinet w/ slope top.
12.04 Plastic laminate countertop.
12.05 Solid surface countertop.
12.10 Plastic laminate shelving.
12.12 Provide lockset for cabinet doors.
12.13 Countertop support brackets. See sheet A511 for details.
12.15 Black out manual roller shades. See sheet A511 for details. Field verify window size.
12.17 Plastic laminate work surface.
23.04 Existing convector unit to remain.



27 Soilied Utility - A941A
Scale: 1/4" = 1'-0"



26 SOILED UTILITY - A941A
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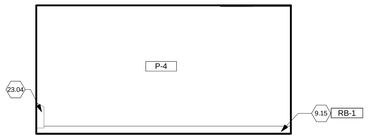
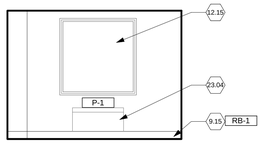


25 TYP. SLEEP ROOM (HEAD WALL)
Scale: 1/4" = 1'-0"



24 TYP. SLEEP ROOM
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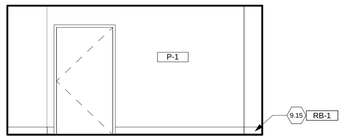

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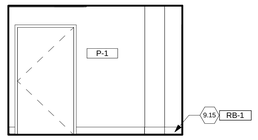

22 TYP. SLEEP ROOM
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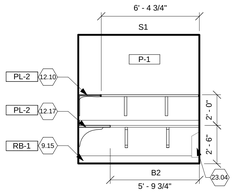
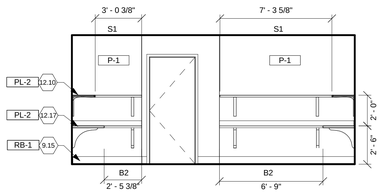


21 CONTROL ROOM - A948
Scale: 1/4" = 1'-0"



20 CONTROL ROOM - A948
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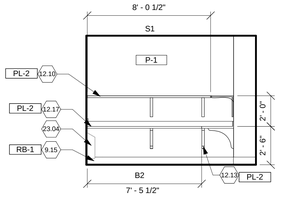
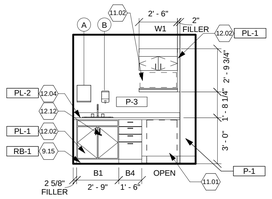


19 CONTROL ROOM - A948
Scale: 1/4" = 1'-0"



18 BREAK ROOM - A941
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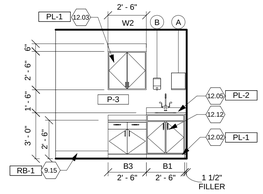

17 EXAM 1 - A933
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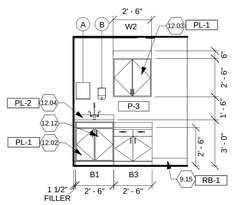

16 EXAM 2 - A943
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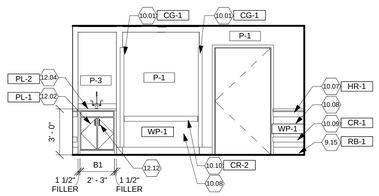
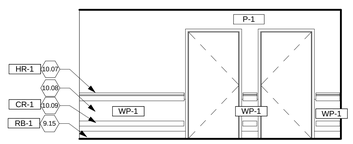


15 CORRIDOR - C-9-3
Scale: 1/4" = 1'-0"



14 CORRIDOR - C-9-3
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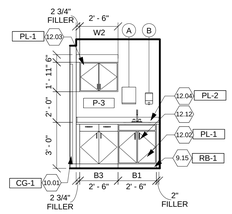

13 CORRIDOR - C-9-3
Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

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Drawing Title: INTERIOR ELEVATIONS

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: KS

Project No.
VA Project No. 539-13-102
JPA Project No. 12005.00

Building Number: 1

Drawing Number: A402

Dwg. of

Office of Construction and Facilities Management

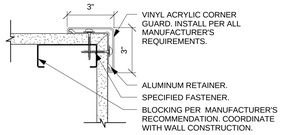
Department of Veterans Affairs

GENERAL FINISH PLAN NOTES

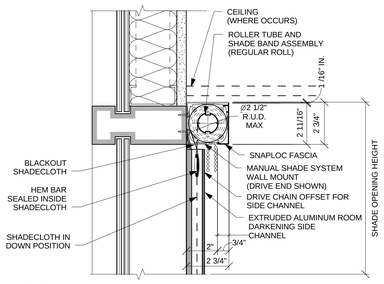
A. See Sheet AF601 for Finish Materials Legend.
B. See Sheet AF601 for Room Finish Schedule.
C. See Interior Elevations on Sheet A401- A402 for further information.
D. All walls are to be painted P-1, unless noted otherwise.
E. All door frames are to be painted P-2.
F. All casework filler are to match the plastic laminate of the casework.
G. See sheet AF109W for locations of painted accent walls.

⬡ NOTES

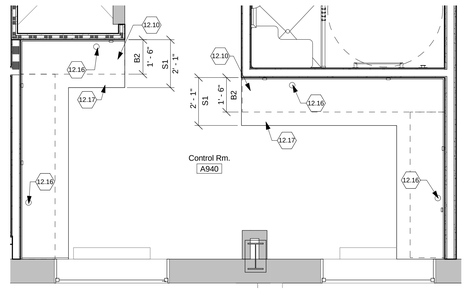
12.10 Plastic laminate shelving.
12.16 Grommet located on work surface. Coordinate location w/ support brackets.
12.17 Plastic laminate work surface.



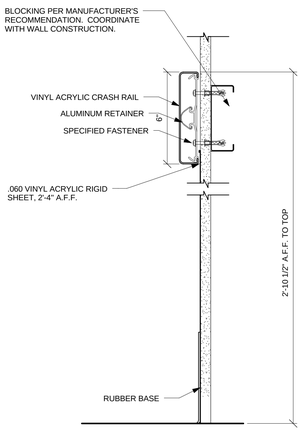
E Corner Guard Detail
Scale: 3" = 1'-0"



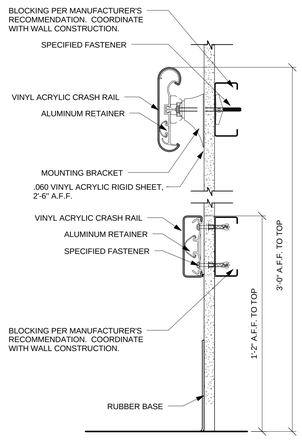
D Black Out Roller Shade Detail
Scale: 3" = 1'-0"



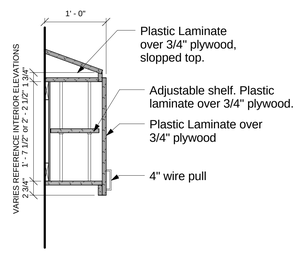
A Enlarged Plan Control Room
Scale: 3/8" = 1'-0"



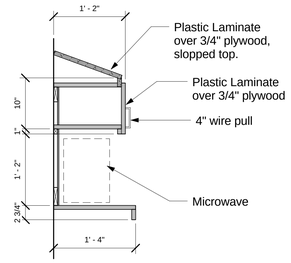
C Crash Rail -2 Detail
Scale: 3" = 1'-0"



B Handrail, Crash Rail -1 & Wall Protection Detail
Scale: 3" = 1'-0"



W2



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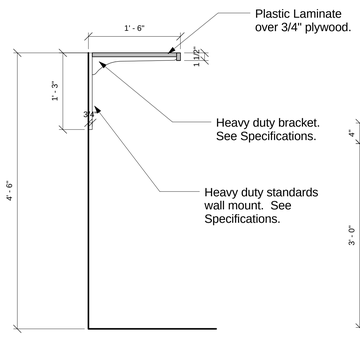
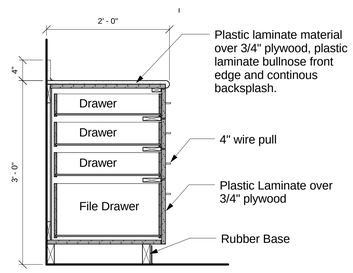


S1



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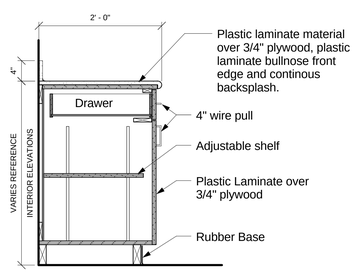
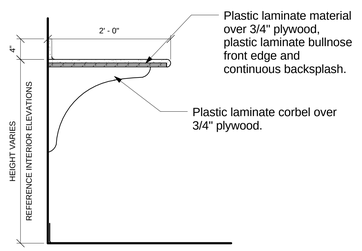
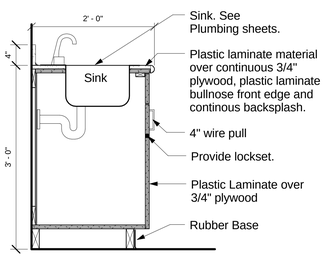


B3



B2



B1

Casework Sections
Scale: 1" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

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Drawing Title: CASEWORK SECTIONS & DETAILS

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Project No.
VA Project No. 539-13-102
JPA Project No. 12005.00

Building Number: 1

Drawing Number: A511

Dwg. of

Date: 12/21/2012 | Checked: KR | Drawn: KS

Office of Construction and Facilities Management
Department of Veterans Affairs

DOOR SCHEDULE																
DOOR #	BETWEEN		DOOR DESCRIPTION						FRAME DESCRIPTION				SILL	FIRE RATING	HDWE SET	REMARKS
	RM	RM	TYPE	MAT'L	#	SIZE W	SIZE H	SIZE T	TYPE	MAT'L	HEAD	JAMB				
A932	C-9-3	A932	N	WD	1	3' - 8"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	1/3 HR SMOKE	1B	
A933	C-9-3	A933	F	WD	1	3' - 8"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		7	
A934	C-9-3	A934	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		5	
A935	C-9-3	A935	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		5	
A935a	C-9-3	A935A	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		5	
A937a	C-9-3	A937A	F	WD	1	3' - 8"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		8	
A937b	A937B	A937A	F	WD	1	3' - 8"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		3B	
A937c	C-9-3	A937C	F	WD	1	3' - 8"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		8	
A937d	A937D	A937C	F1	WD	1	3' - 8"	8' - 2"	1 3/4"	1	HM	H1	J1	S1		3B	
A938a	C-9-3	A938A	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		8	Eliminate under DEDUCT ALT #1
A938b	A938B	A938A	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		3B	Eliminate under DEDUCT ALT #1
A938c	C-9-3	A938C	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		8	Eliminate under DEDUCT ALT #1
A938d	A938D	A938C	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		3	Eliminate under DEDUCT ALT #1
A939a	C-9-3	A939A	F	WD	1	3' - 8"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		8	
A939b	A939A	A939B	F	WD	1	3' - 8"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		3A	
A939c	C-9-3	A939C	F	WD	1	3' - 8"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		8	
A939d	A939D	A939C	F	WD	1	3' - 8"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		3B	
A939e	C-9-3	A939E	F	WD	1	3' - 8"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		4	
A940	C-9-3	A940	F	WD	1	3' - 0"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		5	
A941	C-9-3	A941	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		2	
A941a	C-9-3	A941A	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	3/4 HR	1	
A941b	C-9-3		F	WD	1	3' - 0"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		6	
A941c	C-9-3	A941C	F	WD	1	2' - 6"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		6	
A942	C-9-3	A942	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	3/4 HR	1A	
A943	C-9-3	A943	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		7	
A944	C-9-3	A944	F	WD	1	3' - 4"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		5	
C93	C-9-3	C-9-3	N	WD	1	3' - 8"	7' - 0"	1 3/4"	1	HM	H1	J1	S1		2A	

GENERAL NOTES

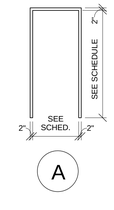
A. All wood blocking shall be fire retardant.
B. See Finish Plans for typical sill conditions at unlike floor finishes.
C. Seal joints between finish material and bottom of door frames.
D. Paint window frames at door lites to match door frame.

⬡ DETAIL NOTES

5.05	6" Light gauge metal framing @ 16" o.c.
5.14	4" metal 'Z' girt @ 48" o.c., 16 ga.
6.03	5/8" exterior gypsum board sheathing.
7.06	6" Batt insulation (min. R-19)
7.07	2" rigid insulation, R-12 min.
7.08	Vapor barrier
7.09	Air & moisture barrier.
7.10	12" wide vertical metal panel.
7.24	Cont. sealant @ each side.
8.02	Hollow metal frame.
8.03	Hospital stops @ all interior door frames.
8.04	1/4" clear ceramic glazing. D-20 or D-W-20 rated.
9.01	3 5/8" 20 ga. metal studs @ 16" o.c.
9.04	Metal stud framing.
9.05	Double studs at jamb, typ.
9.06	5/8" type "x" gypsum board
9.13	3-1/2" Mineral wool acoustic batts
9.14	Acoustic sealant / fire-rated sealant each side
9.16	Flame-retardant plastic sheeting sealed to create negative air pressure inside work zone
9.19	Acoustic sealant.
9.20	2 layers 5/8" type "x" gypsum board.
9.21	2 1/2" metal C-H stud @ 24" o.c..
9.22	3/4" type "x" gypsum board.
9.23	1" type "x" gypsum board.
9.25	1-1/2" Mineral wool acoustic batts
9.26	1-5/8" 20 ga. metal studs @ 16" o.c.
9.27	Fire-rated sealant

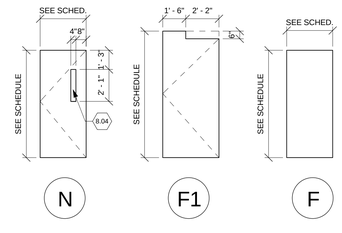
DOOR DETAILS

Scale: 1 1/2" = 1'-0"



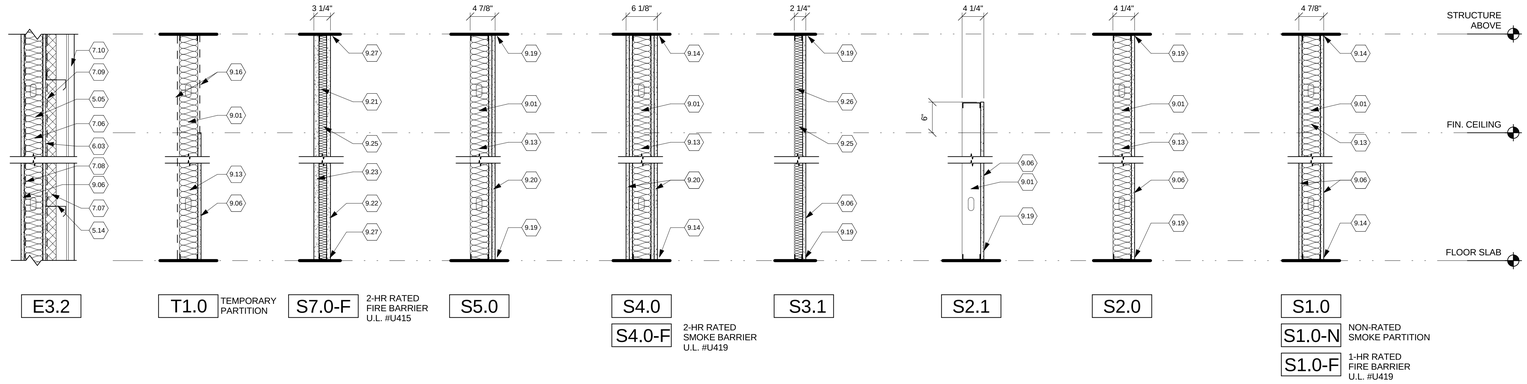
FRAME TYPES

Scale: 1/4" = 1'-0"



DOOR TYPES

Scale: 1/4" = 1'-0"



WALL TYPES

Scale: 1" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO
JOHN A. POE
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REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

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Drawing Title: DOOR SCHEDULE & DETAILS

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checker: KR | Drawer: BC, DF

Project No.: VA Project No. 539-13-102; JPA Project No. 12005.00

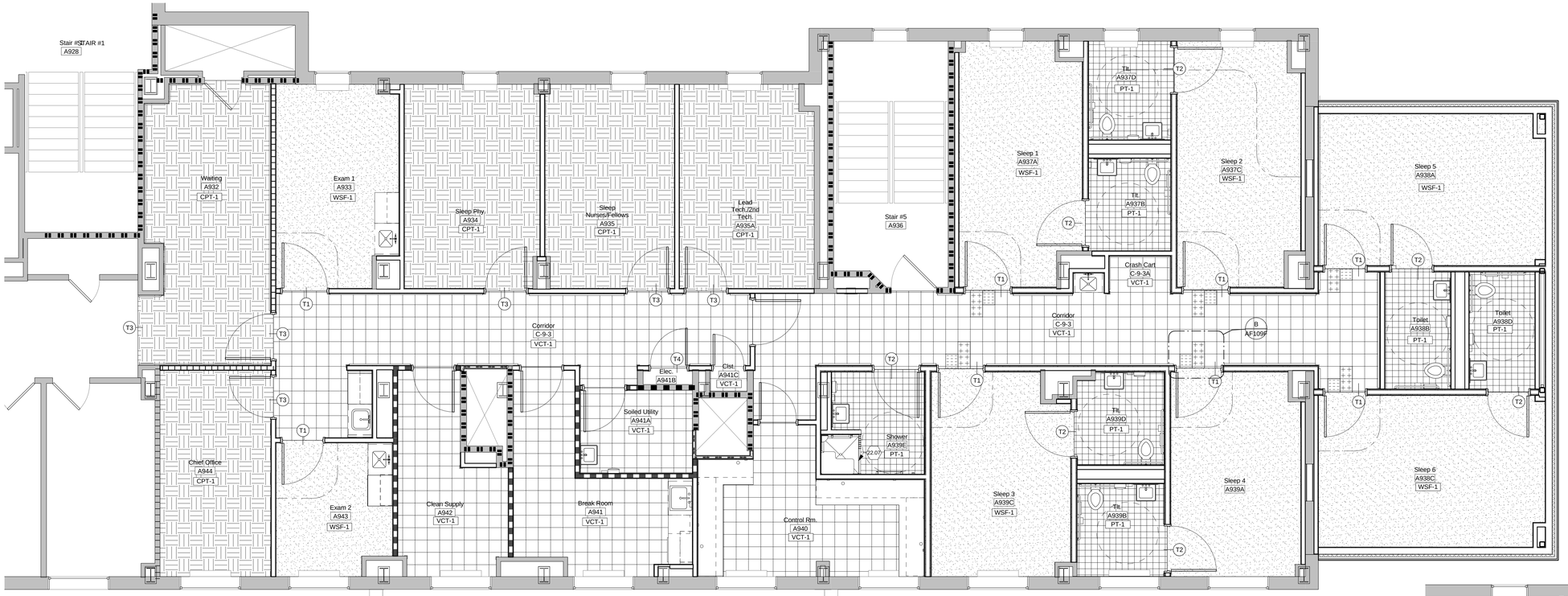
Building Number: 1

Drawing Number: A601

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs



N 1 Partial Ninth Floor Plan - Floor Finish Plan (BASE BID)

Scale: 1/4" = 1'-0"

GENERAL FINISH PLAN NOTES

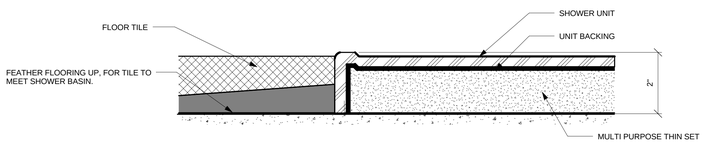
A. See Sheet AF601 for Finish Materials Legend.
B. See Sheet AF601 for Room Finish Schedule.
C. See Interior Elevations on Sheet A401- A402 for further information.
D. All walls are to be painted P-1, unless noted otherwise.
E. All door frames are to be painted P-2.
F. All casework filler are to match the plastic laminate of the casework.
G. See sheet AF109W for locations of painted accent walls.

NOTES

2.07 Existing stairs to remain.
9.30 Stair tread w/ RB-1. See Finish Legend for details.
22.07 Transition from shower basin to flooring. See sheet AF109F detail C.

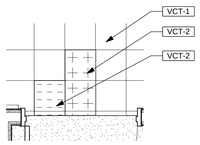
CODE LEGEND

- 0-HR Smoke Partition - NFPA 101-8.4
- 1-HR Smoke Barrier - NFPA 101 - 8.5
- 1-HR Fire Barrier - NFPA 101 - 8.3
- 2-HR Fire Barrier - NFPA 101 - 8.3
- Existing Wall to Remain
- New Wall
- Means of Egress (See Code Plan)



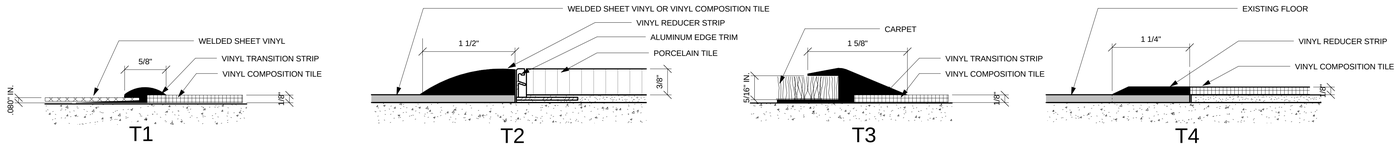
C Shower Unit Transisition to Floor Finish

Scale: 6" = 1'-0"



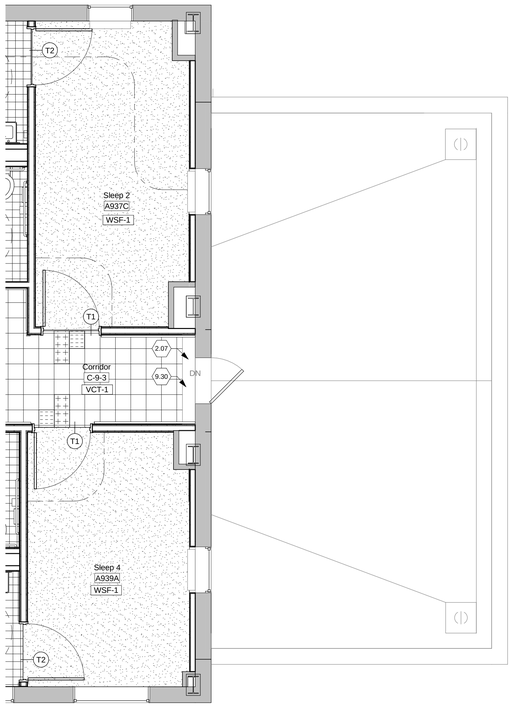
B VCT-1, 2, 3

Scale: 1/2" = 1'-0"



A Floor Transisitons

Scale: 12" = 1'-0"



N 2 Partial Ninth Floor Plan - Finish Floor Plan (DEDUCT ALT. #1)

Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO — JOHN A. POE 6549 — REGISTERED ARCHITECT

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Drawing Title: FLOOR FINISH PLAN

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: KS

Project No.: VA Project No. 539-13-102; JPA Project No. 12005.00

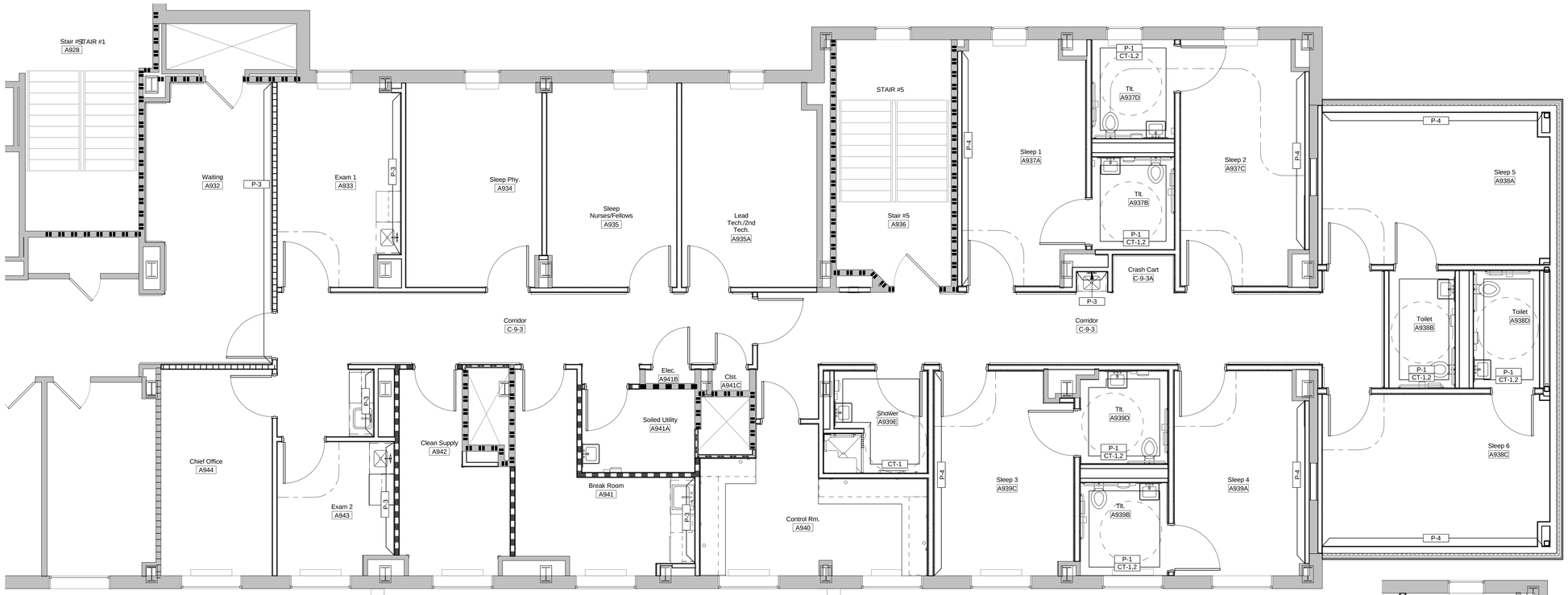
Building Number: 1

Drawing Number: AF109F

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs



N 1 Partial Ninth Floor Plan - Wall Finish Plan (BASE BID)

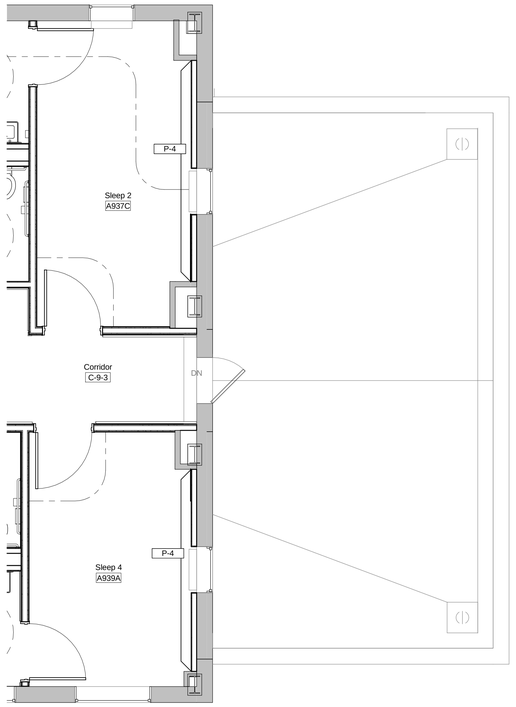
Scale: 1/4" = 1'-0"

GENERAL FINISH PLAN NOTES

A. See Sheet AF601 for Finish Materials Legend.
B. See Sheet AF601 for Room Finish Schedule.
C. See Interior Elevations on Sheet A401- A402 for further information.
D. All walls are to be painted P-1, unless noted otherwise.
E. All door frames are to be painted P-2.
F. All casework filler are to match the plastic laminate of the casework.
G. See sheet AF109W for locations of painted accent walls.

CODE LEGEND

- 0-HR Smoke Partition - NFPA 101-8.4
- 1-HR Smoke Barrier - NFPA 101 - 8.5
- 1-HR Fire Barrier - NFPA 101 - 8.3
- 2-HR Fire Barrier - NFPA 101 - 8.3
- Existing Wall to Remain
- New Wall
- Means of Egress (See Code Plan)



N 2 Partial Ninth Floor Plan - Wall Finish Plan (DEDUCT ALT. #1)

Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

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Drawing Title: WALL FINISH PLAN

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: KS

Project No.: VA Project No. 539-13-102; JPA Project No. 12005.00

Building Number: 1

Drawing Number: AF109W

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL FINISH PLAN NOTES

A. See Sheet AF601 for Finish Materials Legend.
B. See Sheet AF601 for Room Finish Schedule.
C. See Interior Elevations on Sheet A401- A402 for further information.
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F. All casework filler are to match the plastic laminate of the casework.
G. See sheet AF109W for locations of painted accent walls.

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS North	WALLS South	WALLS East	WALLS West	CASEWORK Cabinet	CASEWORK Countertop	CEILING	Comments
A930	Sleep 3	WSF-1	RB-1	P-4	P-1	P-1	P-1	-	-	ACT-2	
A932	Waiting	CPT-1	RB-1	P-1	P-3	P-1	P-1	-	-	ACT-1	
A933	Exam 1	WSF-1	RB-1	P-1	P-3	P-1	P-1	PL-1	PL-2	ACT-2	
A934	Sleep Phy.	CPT-1	RB-1	P-1	P-1	P-1	P-1	-	-	ACT-1	
A935	Sleep Nurses/Fellows	CPT-1	RB-1	P-1	P-1	P-1	P-1	-	-	ACT-1	
A935A	Lead Tech./2nd Tech.	CPT-1	RB-1	P-1	P-1	P-1	P-1	-	SS-1	ACT-1	
A936	Stair #5	-	-	-	-	-	-	-	-	-	
A937A	Sleep 1	WSF-1	RB-1	P-4	P-1	P-1	P-1	-	-	ACT-2	
A937B	Tlt.	PT-1	CTB-1	P-1/CT-1,2	P-1/CT-1,2	P-1/CT-1,2	P-1/CT-1,2	-	-	ACT-2	3'-2" A.F.F. TILE WAINSCOTTING
A937C	Sleep 2	WSF-1	RB -1	P-1	P-4	P-1	P-1		-	ACT-2	
A937D	Tlt.	PT-1	CTB-1	P-1/CT-1,2	P-1/CT-1,2	P-1/CT-1,2	P-1/CT-1,2	-	-	ACT-2	3'-2" A.F.F. TILE WAINSCOTTING
A938A	Sleep 5	WSF-1	RB-1	P-1	P-1	P-4	P-1	-	-	ACT-2	
A938B	Toilet	PT-1	CTB-1	P-1/ CT-1, 2	P-1/ CT-1, 2	P-1/ CT-1, 2	P-1/ CT-1, 2	-	-	ACT-2	3'-2" A.F.F. TILE WAINSCOTTING
A938C	Sleep 6	WSF-1	RB-1	P-1	P-1	P-1	P-4	-	-	ACT-2	
A938D	Toilet	PT-1	CTB-1	P-1/CT-1,2	P-1/CT-1,2	P-1/CT-1,2	P-1/CT-1,2	-	-	ACT-2	3'-2" A.F.F. TILE WAINSCOTTING
A939A	Sleep 4	WSF-1	RB-1	P-1	P-4	P-1	P-1		-	ACT-2	
A939B	Tlt.	PT-1	CTB-1	P-1/ CT-1, 2	P-1/ CT-1, 2	P-1/ CT-1, 2	P-1/ CT-1, 2	-	-	ACT-2	3'-2" A.F.F. TILE WAINSCOTTING
A939C	Sleep 3	WSF-1	RB-1	P-4	P-1	P-1	P-1	-	-	ACT-2	
A939D	Tlt.	PT-1	CTB-1	P-1/ CT-1, 2	P-1/ CT-1, 2	P-1/ CT-1, 2	P-1/ CT-1, 2	-	-	ACT-2	3'-2" A.F.F. TILE WAINSCOTTING
A939E	Shower	PT-1	CTB-1	CT-1	CT-1	CT-1	CT-1	-	-	P-5	8'-0" A.F.F. WALL TILE
A940	Control Rm.	VCT-1	RB-1	P-1	P-1	P-1	P-1	PL-1	PL-2	ACT-1	
A941	Break Room	VCT-1	RB-1	P-1	P-1/P-3	P-1	P-1	PL-1	PL-2	ACT-1	
A941A	Soiled Utility	VCT-1	RB-1	P-1	P-1	P-1	P-1	-	-	ACT-2	
A941B	Elec.	-	-	-	-	-	-	-	-	-	
A941C	Clst.	VCT-1	RB -1	P-1	P-1	P-1	P-1	-	-	-	
A942	Clean Supply	VCT-1	RB-1	P-1	P-1	P-1	P-1	-	-	ACT-1	
A943	Exam 2	WSF-1	RB-1	P-1	P-3	P-1	P-1	PL-1	PL-2	ACT-2	
A944	Chief Office	CPT-1	RB-1	P-1	P-1	P-1	P-1	-	-	ACT-1	
A954	Toilet	PT-1	CTB-1	P-1/ CT-1, 2	P-1/ CT-1, 2	P-1/ CT-1, 2	P-1/ CT-1, 2	-	-	P-5	3'-2" A.F.F. TILE WAINSCOTTING
C-9-3	Corridor	VCT-1	RB-1	P-1/WP-1	P-1,3/WP-1	P-1/ WP-1	P-1/WP-1	PL-1	PL-2	ACT-1	
C-9-3	Corridor	VCT-1, 2, 3	RB-1	P-1/WP-1	P-1/WP-1	P-1,3/ WP-1	P-1/ WP-1	PL-1	PL-2	ACT-1	
C-9-3A	Crash Cart	VCT-1	RB-1	P-1	P-1	P-1/WP-1	-	-	-	ACT-1	

FINISH LEGEND1

MARK	FINISH TYPE	MANUFACTURER	PRODUCT / COLOR	COMMENTS
CEILING FINISHES				
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	"FINE FISSURED", #1728, 2' x 2', WHITE	SUSPENSION SYSTEM: PRELUDE XL 15/16"
ACT-2	ACOUSTICAL CEILING TILE	ARMSTRONG	#1935 HEALTH ZONE ULTIMA, 2' x 2', WHITE	SUSPENSION SYSTEM: PRELUDE XL 15/16"
P-5	PAINT	ICI PAINTS	CEILING WHITE	GLOSS LEVEL 1
FLOOR FINISHES				
CPT-1	CARPET TILE	LEES	DESIGN SCENE II MODULAR, GT105, ABACA II, 231 INDUSTRIAL PATINA	INSTALLATION METHOD: VERTICAL ASHLAR
CTB-1	CERAMIC TILE BASE	AMERICAN OLEAN	SANITARY COVE BASE S-3619T, 6"x 6", MATTE ALMOND 0087	
PT-1	PORCELAIN TILE	DAL-TILE	KEYSTONES, URBAN PUTTY SPECKLE D201, 2" x 2"	
RB-1	RUBBER COVE BASE	JOHNSONITE	49 BEIGE, 6"	4" ON ALL CASEWORK
RT-1	RUBBER STAIR TREAD	JOHNSONITE	RAISED SQUARE TREAD, 49 BEIGE	W/ 4" RB-1, FOR DEDUCT ALTERNATE #1.
T1	FLOOR TRANSITION STRIP	JOHNSONITE	SLT-129-B	
T2	FLOOR TRANSITION STRIP	JOHNSONITE	CRS-129-B	
T3	FLOOR TRANSITION STRIP	JOHNSONITE	CTA-129-D	
T4	FLOOR TRANSITION STRIP	JOHNSONITE	RRS-129-D	
VCT-1	VINYL TILE COMPOSITION	ARMSTRONG	"STANDARD EXCELON" 51811 ANTIQUE WHITE	
VCT-2	VINYL TILE COMPOSITION	ARMSTRONG	"STANDARD EXCELON" 51805 CAMEL BEIGE	
VCT-3	VINYL COMPOSITION TILE	ARMSTRONG	"STANDARD EXCELON" 51872 TEA GARDEN GREEN	
WSF-1	WELDED SHEET VINYL	MANNINGTON	BIOSPEC MD, 15360 BUTTERMILK	HEAT WELD: CAMOUFLAGED #415160
MISCELANEOUS FINISHES				
GT-1	GROUT	MAPEI	47 CHARCOL	APPLICATION: FLOOR TILE
GT-2	GROUT	MAPEI	48 ALMOND	APPLICATION: WALL TILE
PL-1	PLASTIC LAMINATE	WILSONART	AMBER CHERRY, 7919K-38	VERTICAL SURFACES
PL-2	PLASTIC LAMINATE	WILSONART	AMBER CHERRY, 7919K-07	HORIZONTAL SURFACES
WALL FINISHES				
CSD-1	CERAMIC SOAP DISH	AMERICAN OLEAN	MEDIUM CORNER CADDY BA765, ALMOND (2) 0087	
CT-1	CERAMIC TILE	AMERICAN OLEAN	6"x 6" FIELD TILE, ALMOND (2) 0087	
CT-2	CERAMIC TILE	AMERICAN OLEAN	SURFACE BULLNOSE S-4269, 2"x 6", ALMOND (2) 0087	
P-1	PAINT	ICI PAINTS	30YY 62/127 WATER CHESTNUT	GLOSS LEVEL 3
P-2	PAINT	ICI PAINTS	20YY 55/151 MUSHROOM CAP	GLOSS LEVEL 5
P-3	PAINT	ICI PAINTS	60YY 33/130 KHAKI GREEN	GLOSS LEVEL 3
P-4	PAINT	ICI PAINTS	00YY 37/221 ONIONSKIN TAN	GLOSS LEVEL 3
WALL PROTECTION				
CG-1	CORNER GUARD	KOROGUARD	G200 K-8 CREAM 3"	
CR-1	CRASH RAIL	CS ACROVYN	SCR-48 #373 AMBER CHERRRY	
HR-1	HANDRAIL	CS ACROVYN	HRB-4C #373 AMBER CHERRY	
WP-1	SHEET PROTECTION	KOROGUARD	PROTECTIVE WALLCOVERING, CREAM, STANDARD TEXTURE .060"	

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: FINISH SCHEDULE

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Approved: Project Director

Date: 12/21/2012 | Checked: KR | Drawn: KS

Project No.: VA Project No. 539-13-102; JPA Project No. 12005.00

Building Number: 1

Drawing Number: AF601

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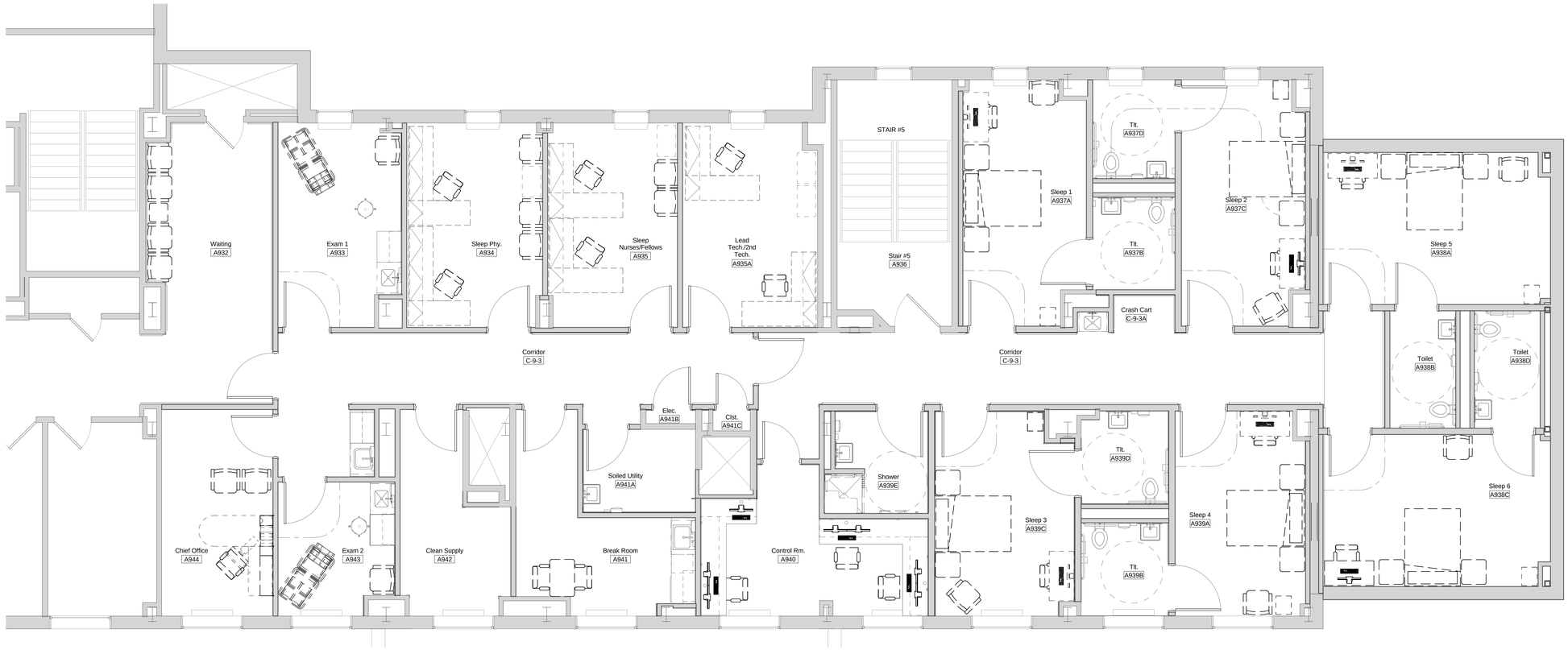
Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL FINISH PLAN NOTES

A. See Sheet AF601 for Finish Materials Legend.
B. See Sheet AF601 for Room Finish Schedule.
C. See Interior Elevations on Sheet A401- A402 for further information.
D. All walls are to be painted P-1, unless noted otherwise.
E. All door frames are to be painted P-2.
F. All casework filler are to match the plastic laminate of the casework.
G. See sheet AF109W for locations of painted accent walls.



N 1

Partial Ninth Floor Plan - Furniture Plan

Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: FURNITURE PLAN

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: KR | Drawn: KS

Project No.
VA Project No. 539-13-102
JPA Project No. 12005.00

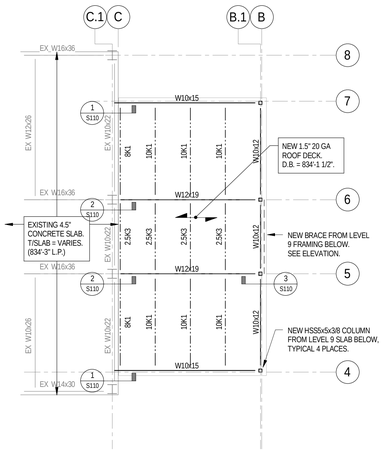
Building Number: 1

Drawing Number: IF101

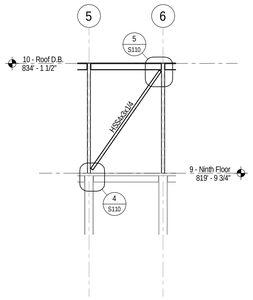
Dwg. of

Office of Construction and Facilities Management

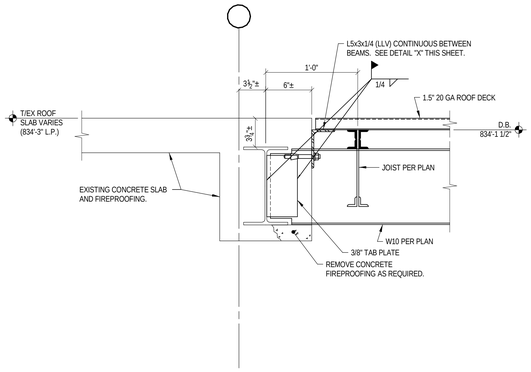
Department of Veterans Affairs



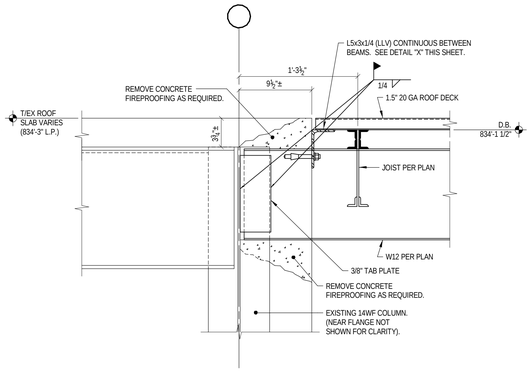
A S110 ROOF FRAMING PLAN
1/8" = 1'-0"



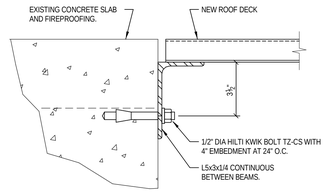
B S110 BRACING ELEVATION - LINE B
1/8" = 1'-0"



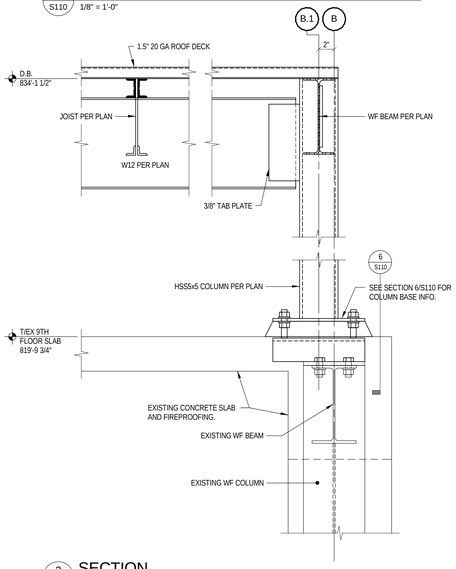
1 S110 SECTION
1 1/2" = 1'-0"



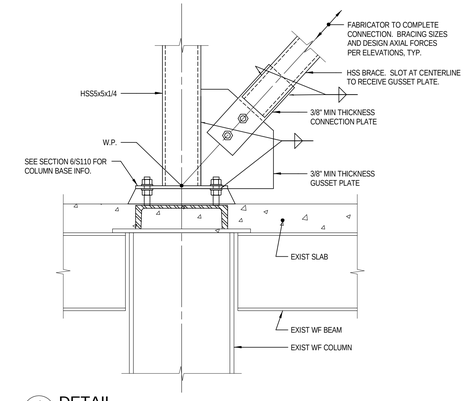
2 S110 SECTION
1 1/2" = 1'-0"



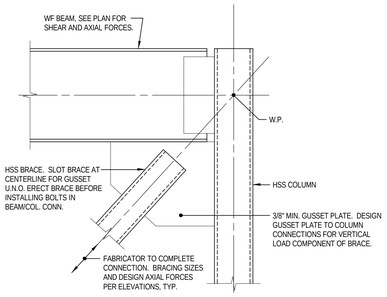
X S110 DETAIL
3" = 1'-0"



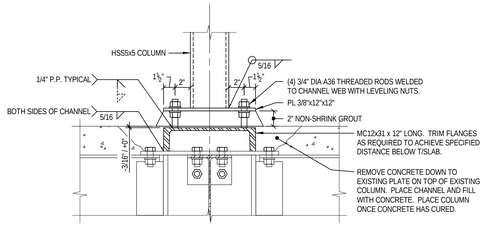
3 S110 SECTION
1 1/2" = 1'-0"



4 S110 DETAIL
1 1/2" = 1'-0"



5 S110 DETAIL
1 1/2" = 1'-0"



6 S110 SECTION
1 1/2" = 1'-0"

GENERAL STRUCTURAL NOTES

A. CODES AND SPECIFICATIONS

1. INTERNATIONAL BUILDING CODE, 2006.
2. ASCE 7-05, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
3. ANSI/AWS D1.1 STRUCTURAL WELDING CODE – STEEL

B. STRUCTURAL STEEL

1. MATERIAL:
   - A. WIDE FLANGE SHAPES: ASTM A-992 (FY 50 KSI).
   - B. OTHER ROLLED SHAPES & PLATES: ASTM A-36 (FY 36 KSI).
   - C. STRUCTURAL TUBING, HSS SHAPES: ASTM A-500, GRADE B (FY 46 KSI).
   - D. FIELD BOLTS: ASTM A-325, 3/4" MIN. DIA., U.N.O.
   - E. ANCHOR RODS: ASTM F-1554 (FY 36 KSI), U.N.O.
2. FABRICATOR TO DESIGN CONNECTIONS NOT DETAILED:
   - A. CONNECTIONS ARE TO BE DESIGNED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE AISC LRFD SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISC MANUAL, AND THE STRUCTURAL STEEL FRAMING PLANS, NOTES AND DETAILS OF THESE DRAWINGS.
   - B. CONNECTION CONFIGURATIONS INDICATED ON THE PLANS, NOTES AND DETAILS REPRESENT THE DESIGN INTENT. ITEMS SPECIFICALLY INDICATED: WELDS, STIFFENERS, BRACES, ETC. MUST BE PROVIDED AT MINIMUM AS SHOWN. ADDITIONAL DESIGN AND DETAILING OF CONNECTIONS, INCLUDING CONSIDERATION OF MEMBER THICKNESS, HOLES, CUTS, COPES AND THE EFFECTS OF CONCENTRATED FORCES, SHALL BE PROVIDED BY THE CONTRACTOR.
   - C. UNLESS SPECIFIC REACTIONS, MOMENTS, SHEARS, AND AXIAL FORCES ARE INDICATED, DESIGN BEAM CONNECTIONS FOR REACTIONS DUE TO THE MAXIMUM UNIFORM LOAD THE BEAM CAN SUPPORT AT ITS SPAN, AS SHOWN IN THE AISC MANUAL FOR SPECIFIED YIELD STRENGTH.

C. STEEL JOISTS AND JOIST GIRDERS

1. ALL WORK SHALL CONFORM TO STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, K-SERIES, LONG SPAN STEEL JOISTS, LH-SERIES, AND JOIST GIRDERS.
2. DESIGN JOISTS PER SJI STANDARD LOAD TABLES UNLESS SPECIFIC DESIGN LOADS ARE GIVEN ON DRAWINGS. DESIGN ALL ROOF JOISTS FOR 15 PSF NET WIND UPLIFT AND DESIGN WEB MEMBERS IN THE MIDDLE QUARTER OF ALL ROOF JOISTS FOR STRESS REVERSAL.
3. CONNECTIONS:
   - A. K-SERIES JOISTS TO SUPPORTING STEEL: 1-1/2" LONG, 1/8" WELD, MIN. E.S.
   - B. WELDS INDICATED ARE MINIMUMS. DESIGN WELDS WITH CONSIDERATION FOR DESIGN LOADING. INCREASE WELD SIZE OR PREHEAT STEEL BASED ON SUPPORT THICKNESS.
4. PROVIDE FORMED ANGLE HORIZONTAL OR BOLTED DIAGONAL BRIDGING. LOCATE BRIDGING AT THE FIRST BOTTOM CHORD PANEL POINT AND SPACE, SIZE AND DETAIL TO CONFORM TO SJI STANDARDS AND THESE CONSTUCTION DOCUMENTS.
5. PRIME PAINT ALL JOISTS

D. METAL FLOOR AND ROOF DECK AND ACCESSORIES UNLESS NOTED OTHERWISE

1. ALL WORK SHALL CONFORM TO STEEL DECK INSTITUTE (SDI) SPECIFICATIONS FOR STEEL ROOF DECK.
2. MATERIAL, G-60 MINIMUM GALVANIZED STEEL:
   - A. 1-1/2", 20 GAGE MINIMUM, WIDE RIB METAL ROOF DECK.
3. MINIMUM ATTACHMENT OF ROOF DECK: FASTEN TO ALL SUPPORTS WITH 5/8" DIA. FUSION WELDS AT 6" O.C. AT ALL ENDS AND END LAPS, AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS AND EDGES PARALLEL WITH DECK FLUTES. FASTEN SIDE LAPS BETWEEN DECK UNITS WITH #10 SCREWS AT 24" O.C. MAX.

E. COORDINATION AND CONSTRUCTION

1. FIELD VERIFY EXISTING DIMENSIONS AND ELEVATIONS WHICH AFFECT FABRICATION PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND FABRICATION.
2. STRUCTURAL FRAMING PLANS ARE TYPICALLY DRAWN AS REFLECTED PLANS SHOWING BEAMS, WALLS, AND COLUMNS ON THE UNDERSIDE OF THE LEVEL SHOWN.
3. BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
4. VERIFY EXACT SIZE AND LOCATION OF ALL WALL, FLOOR, AND ROOF OPENINGS PRIOR TO SUBMISSION OF SHOP DRAWINGS. SHOW ALL OPENINGS ON SHOP DRAWINGS.
5. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS.
6. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

F. MECHANICAL AND OTHER LOADS SUPPORTED FROM STRUCTURE

1. ALL TRADE CONTRACTORS, MECHANICAL, STAIR, SPECIALITY, ETC., ARE TO DESIGN THEIR SYSTEMS, INCLUDING ATTACHMENTS TO THE BUILDING'S STRUCTURE WITHIN THE FOLLOWING LIMITATIONS.
2. LOADS ARE TO BE DISTRIBUTED TO THE STRUCTURE IN A MANNER THAT DOES NOT EXCEED THE LOAD ALLOWANCES NOTED UNDER DESIGN LOADS. ANCHORS ARE TO HAVE AN ULTIMATE SAFETY FACTOR OF AT LEAST 4.0.
3. LOADS SUPPORTED BY WIDE FLANGE BEAMS ARE TO BE APPLIED IN A MANNER WHICH DOES NOT CAUSE TORSION ABOUT THE LONGITUDINAL AXIS OF THE BEAM.
4. POINT LOADS EXCEEDING 400 POUNDS MAY NOT BE APPLIED TO ANY OPEN WEB STEEL JOIST.
5. APPLY LOADS TO OPEN WEB JOISTS AT PANEL POINTS WHERE POSSIBLE. WHERE LOADS ARE NOT APPLIED AT PANEL POINTS, REINFORCE JOISTS FOR CONCENTRATED LOADS WITH A MINIMUM OF (1) 1-1/4"x1-1/4"x1/4" ANGLE BRACED TO THE PANEL POINT ON THE CHORD OPPOSITE THE POINT OF LOAD APPLICATION.
6. DO NOT HANG OR OTHERWISE SUPPORT ANY ITEMS FROM METAL ROOF DECK.

G. QUALITY ASSURANCE

1. THE STRUCTURAL ENGINEER WILL GENERALLY REVIEW THE PROGRESS OF THE WORK, BUT HIS REVIEW SHALL NOT BE CONSTRUED AS SPECIAL INSPECTION.

H. DESIGN LOADS

1. OCCUPANCY CATEGORY OF BUILDING: IV
2. FLOOR LOAD:
   CORRIDOR: 80 PSF
   PATIENT ROOM: 60 PSF
   CEILING AND MECHANICAL ALLOWANCE: 10 PSF
   PARTITION ALLOWANCE (LL < 80PSF): 20 PSF
   CONCENTRATED LOAD ON FLOOR: 1000 LBS
3. ROOF LOAD:
   ROOF LIVE LOAD, MINIMUM: 20 PSF - (NR)
   CEILING AND MECHANICAL ALLOWANCE: 10 PSF
   ROOFING AND BALLAST ALLOWANCE: 20 PSF
   CONCENTRATED LOAD ON ROOF: 300 LBS
   ROOF LIVE LOADS ARE INCREASED FOR SNOW DRIFT AND PONDING PER ASCE 7, WATER DEPTH ON DEFLECTED STRUCTURE 6" MAXIMUM.
4. SNOW LOAD:
   GROUND SNOW LOAD: Pg = 20 PSF
   FLAT ROOF SNOW LOAD: Pf = 24 PSF
   SNOW EXPOSURE FACTOR: Ce = 0.90
   SNOW LOAD IMPORTANCE FACTOR: Is = 1.20
   THERMAL FACTOR: Ct = 1.10
5. WIND LOAD:
   BASIC WIND SPEED (3-SECOND GUST): 90 MPH
   WIND LOAD IMPORTANCE FACTOR: Iw = 1.15
   WIND EXPOSURE: B
   INTERNAL PRESSURE COEFFICIENT: ENCLOSED BUILDING, GCpi = +/- 0.18
   COMPONENTS AND CLADDING DESIGN LOADS BASED H=108 FT AND 60 SF EFFECTIVE AREA: PER ASCE 7-05.
6. EARTHQUAKE DESIGN DATA: STRUCTURE NOT DESIGNED FOR SEISMIC RESISTANCE.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: FRAMING PLAN, DETAILS AND GENERAL NOTES

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

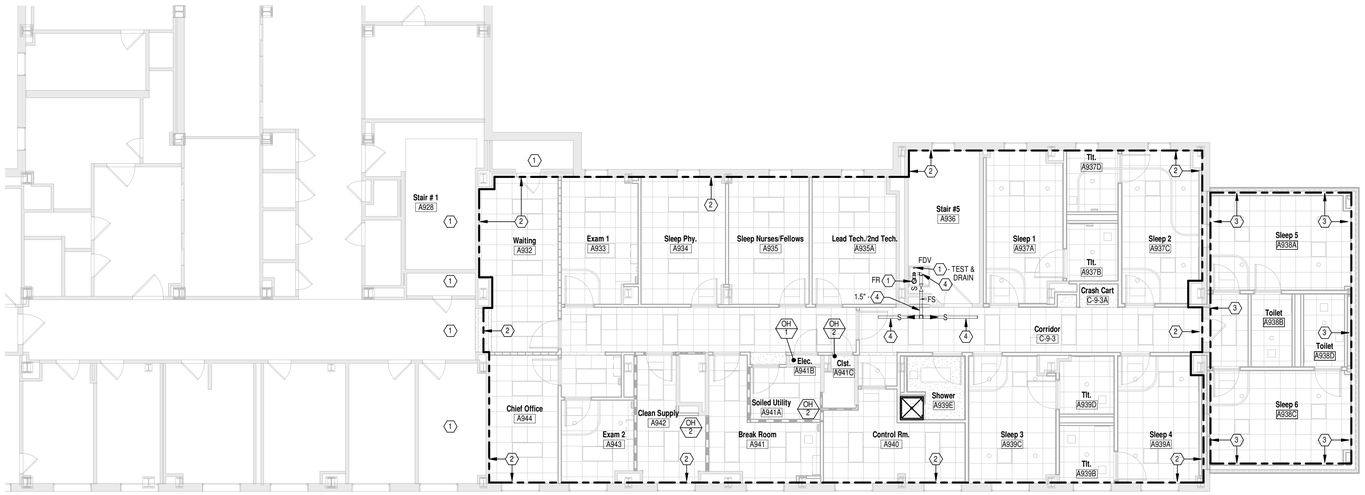
Date: 12/21/2012 | Checked: FE | Drawn: JG

Project No.
VA Project No. 539-13-102
JPA Project No. 12005.00

Building Number: 1

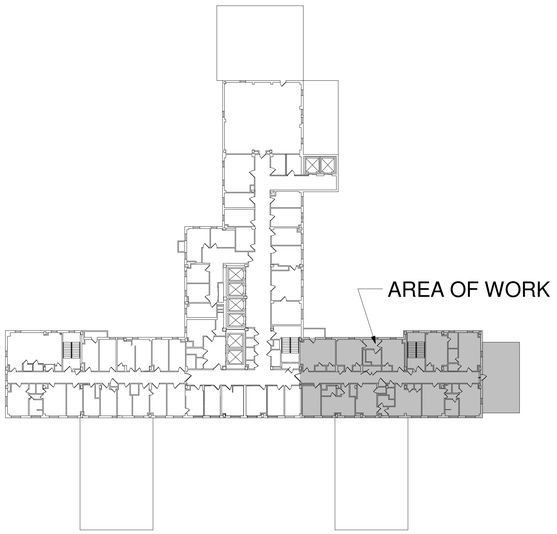
Drawing Number: S110
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs



N 1 PARTIAL NINTH FLOOR

Scale: 1/8" = 1'-0" F.F.E. 819' - 9 3/4"



Ninth Floor Keyplan

Scale: N.T.S.

PLAN NOTES

1 EXISTING TO REMAIN.

2 MODIFY EXISTING WET-PIPE FIRE SUPPRESSION SPRINKLER SYSTEM IN INDICATED AREA TO CONFORM TO NEW LAYOUT.

3 PROVIDE NEW WET-PIPE FIRE SUPPRESSION SPRINKLER SYSTEM IN INDICATED AREA SERVED FROM ADJACENT EXISTING WET-PIPE FIRE SUPPRESSION SPRINKLER SYSTEM. OMIT UNDER DEDUCT ALTERNATE.

4 EXISTING FIRE SUPPRESSION SPRINKLER MAIN. CONFIRM SIZE IS ADEQUATE TO SERVE RENOVATED AND ADDITION AREA SPRINKLER SYSTEMS.

FIRE SUPPRESSION DESIGN NOTES

A PROVIDE REVISIONS TO EXISTING WET-PIPE FIRE SUPPRESSION SPRINKLER SYSTEM IN THE RENOVATED AREAS. PROVIDE A COMPLETE WET-PIPE FIRE SUPPRESSION SPRINKLER SYSTEM IN AREAS FORMALLY NOT FIRE SUPPRESSED.

B COORDINATE WORK WITH VAMC, PHASING PLAN AND OTHER TRADES. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR OFFSETTING AND/OR RELOCATING EXISTING SERVICES TO ACCOMMODATE NEW WORK OF OTHER TRADES.

C DESIGN SERVICES SHALL FOLLOW ALL VA STANDARD DESIGN PRACTICES, DETAILS, SPECIFICATIONS AND SITE SPECIFIC C.O.T.R. REQUIREMENTS AS WELL AS WORK SHOWN ON THESE DOCUMENTS. ALL DEVIATIONS FROM AFOREMENTIONED REQUIREMENTS SHALL BE APPROVED BY THE C.O.T.R.

D THE F.S.C. SHALL VERIFY THAT THERE IS ADEQUATE SPACE TO INSTALL ALL NEW PIPING REQUIRED TO COMPLETE THIS WORK.

E ALL SPRINKLER PIPING IS LOCATED ABOVE THE CEILING (AT THE BOTTOM OF STRUCTURE IN EXPOSED STRUCTURAL AREAS) UNLESS OTHERWISE INDICATED.

F THE BASIS OF DESIGN OF SPACING AND SIZING FOR THE COMPLETE FIRE SUPPRESSION SPRINKLER SYSTEM IS FOR A WET PIPE SYSTEM HYDRAULICALLY CALCULATED FOR A:

1 LIGHT HAZARD AREA LIMITED TO A MAXIMUM OF 225 SQ. FT. PER SPRINKLER WITH A DENSITY OF 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1500 SQ. FT. PROVIDE AN ADDITION OF 100 GPM HOSE ALLOWANCE.

2 ALL MECHANICAL, ELECTRICAL AND ETC. AREAS SHALL BE ORDINARY HAZARD (GROUP 1) LIMITED TO A MAXIMUM OF 130 SQ. FT. PER SPRINKLER WITH A DENSITY OF 0.15 GPM/SQ. FT. PROVIDE AN ADDITION OF 250 GPM HOSE ALLOWANCE.

3 ALL STORAGE, TRASH, FILE STORAGE, CLEAN SUPPLY, SOILED UTILITY, AND ETC. AREAS SHALL BE ORDINARY HAZARD (GROUP 2) LIMITED TO A MAXIMUM OF 130 SQ. FT. PER SPRINKLER WITH A DENSITY OF 0.20 GPM/SQ. FT. PROVIDE AN ADDITION OF 250 GPM HOSE ALLOWANCE.

G ALL SPRINKLER LOCATIONS AND RELATED PIPING AND SUPPORTS SHALL BE BY THE F.S.C.

H THE ENTIRE SPRINKLER SYSTEM SHALL CONFORM TO VAMC, LOCAL, STATE AND NFPA STANDARDS, RULES AND REGULATIONS.

I THE F.S.C. SHALL CAREFULLY COORDINATE THE LOCATION OF ALL SPRINKLER HEADS AND PIPING WITH ALL OTHER TRADES AND THE ARCHITECT.

J THE F.S.C. SHALL VERIFY THE LOCATION OF ALL LIGHTING FIXTURES AND AIR DEVICES BEFORE INSTALLATION OF SPRINKLER HEADS.

K ALL SPRINKLER PIPING LAYOUT AND SIZING SHALL BE BY THE F.S.C.

L ALL SPRINKLER LOCATIONS MUST BE COORDINATED WITH ALL EQUIPMENT KINDRED TO OTHER TRADES. SPRINKLER LOCATIONS MUST BE APPROVED BY THE ARCHITECT BEFORE WORK COMMENCES. REFER TO THE ARCHITECTURAL AND REFLECTIVE CEILING PLANS FOR ADDITIONAL INFORMATION ON ALL CEILING TYPES, HEIGHTS, AND OTHER ARCHITECTURAL FEATURES.

M THE F.S.C. SHALL MAKE NECESSARY FLOW TEST, PERFORM HYDRAULIC CALCULATIONS, LAY-OUT SYSTEMS, OBTAIN APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO BEGINNING ANY FABRICATION OR INSTALLATION WORK.

N SPRINKLER PIPING SHALL BE MINIMUM 1" SIZE.

O SPRINKLER HEADS (UNLESS OTHERWISE NOTED):
EXPOSED AREAS - UPRIGHT OR PENDENT TYPE - STANDARD BRASS CEILING AREAS - RECESSED PENDENT TYPE. ALL HEADS SHALL BE UL LISTED AND FM APPROVED.

P SPRINKLER HEADS SHALL BE "QUICK RESPONSE" TYPE IN ALL AREAS EXCEPT HIGH TEMPERATURE AREAS.

Q ALL PENDENT TYPE SPRINKLER HEADS LOCATED IN SUSPENDED CEILING TILE AREAS SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE.

R ANNULAR SPACE AT PIPE AND OTHER SIMILAR PENETRATION OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. REFER TO SPECIFICATION SECTION 07 84 00 FIRESTOPPING. REFER TO ARCHITECTURAL DRAWINGS FOR CONSTRUCTION, LAYOUT AND FIRE RATING OF FLOORS, WALLS, PARTITIONS AND OTHER BUILDING ELEMENTS.

S REFER TO SPECIFICATION SECTION 21 13 13 FOR FLOW TEST INFORMATION.

T THE ENTIRE FLOOR AREA WILL BE ONE SMOKE ZONE. ALL SPRINKLER ZONES SHALL MATCH SMOKE COMPARTMENTS.

U REFER TO ARCHITECTURAL SHEET G109 FOR INFORMATION ON SMOKE COMPARTMENTS, SMOKE PARTITIONS & FIRE BARRIERS.

LEGEND

F.S.C.	FIRE SUPPRESSION CONTRACTOR
S	SPRINKLER PIPE (WET)
S	SUPERVISED VALVE
FS	FLOW SWITCH
	DIRECTION OF FLOW
FR	FIRE RISER
FDV	FIRE DEPARTMENT VALVE
3	"NOTE" SYMBOL (FOR NOTES ON SAME SHEET)
123	ROOM NUMBER
OH 1	FIRE SUPPRESSION HAZARD CLASSIFICATION ORDINARY HAZARD / GROUP 1

DRAWING INDEX - FIRE SUPPRESSION	
SHEET	DESCRIPTION
1FX101	PARTIAL NINTH FLOOR - NEW WORK

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: PARTIAL NINTH FLOOR - NEW WORK

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: RLT | Drawn: DPB/RLC

Project No.
VA Project No. 539-13-102
JPA Project No. 12005.00

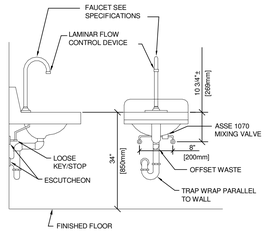
Building Number: 1

Drawing Number: 1FX101

Dwg. of

Office of Construction and Facilities Management

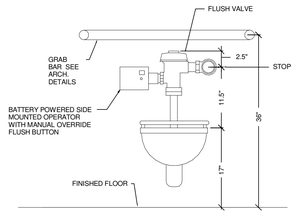
Department of Veterans Affairs



P418 WALL HUNG LAVATORY

SCALE: NONE

A / 1P001



P103 WATER CLOSET

SCALE: NONE

B / 1P001

GENERAL NOTES

A ALL PIPING IS ABOVE THE CEILING (AT THE UNDERSIDE OF STRUCTURE IN EXPOSED STRUCTURAL AREAS), UNLESS OTHERWISE INDICATED.

B REFER TO SCHEDULES, DETAILS AND DIAGRAMS FOR PIPING, PIPE SIZES AND PIPELINE DEVICES NOT INDICATED ON THE FLOOR PLAN.

C ABOVE CEILING UTILITY SPACE IS LIMITED IN CERTAIN AREAS. COORDINATION WITH ALL TRADES IS CRITICAL, PRIOR TO INSTALLATION OF ANY WORK.

D LOCATIONS AND SIZES OF EXISTING PIPING HAVE BEEN DETERMINED FROM A REVIEW OF EXISTING DRAWINGS AND/OR SITE INSPECTION, WHERE POSSIBLE. FIELD VERIFICATION OF EXACT LOCATION, ELEVATIONS, INVERTS, SIZES, DIRECTION OF FLOW, ETC., SHALL BE REQUIRED PRIOR TO BEGINNING NEW WORK.

E ALL PIPING REQUIRING REMOVAL SHALL BE REMOVED BACK TO ACTIVE MAINS AND CAPPED, OR REMOVED BACK TO POINTS OF NEW WORK. INACCESSIBLE PIPING, WHERE SO NOTED, TO BE ABANDONED SHALL BE DISCONNECTED FROM ACTIVE MAINS AND CAPPED OR PLUGGED IN CONCEALED LOCATIONS.

F NEW CONNECTIONS TO EXISTING PIPING SHALL BE WITH THE SAME SIZE AS THE EXISTING PIPING UNLESS OTHERWISE NOTED.

G ALL REMOVED MATERIAL AND EQUIPMENT SO DESIGNATED BY THE C.O.T.R., SHALL BE TURNED OVER AND PLACED WHERE DIRECTED. ALL MATERIAL AND EQUIPMENT, WHICH THE C.O.T.R. DOES NOT WISH TO RETAIN , SHALL BECOME THE PROPERTY OF THE CONTRACTOR RESPONSIBLE FOR THE REMOVAL.

H REFER TO THE ARCHITECTURAL PLANS FOR PROJECT PHASING REQUIREMENTS.

LEGEND

G.C.	GENERAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
F.S.C.	FIRE SUPPRESSION CONTRACTOR
H.C.	HVAC CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
	SOIL AND OR WASTE PIPE (SP) OR (WP)
	VENT PIPE
ST	STORM DRAINAGE PIPE
	DOMESTIC COLD WATER PIPE
	DOMESTIC HOT WATER PIPE
	SHUT-OFF VALVE (BALL)
	EXISTING PIPE TO BE REMOVED
	DIRECTION OF FLOW
P103	UP TO FIXTURE ABOVE
3	"NOTE" SYMBOL (FOR NOTES ON SAME SHEET)
	"CONNECT TO EXISTING" SYMBOL
SS	SANITARY STACK (SOIL/WASTE)
SR	SUPPLY RISER
CO	CLEANOUT
VR	VENT RISER
VTR	VENT THRU ROOF
123	ROOM NUMBER
P418	PLUMBING FIXTURE DESIGNATION
WC	EXISTING WATER CLOSET
LV	EXISTING LAVATORY
DF	EXISTING DRINKING FOUNTAIN
SH	EXISTING SHOWER
BT	EXISTING BATHTUB
AFF	ABOVE FINISHED FLOOR
F.F.E.	FINISHED FLOOR ELEVATION
DS	DOWN SPOUT

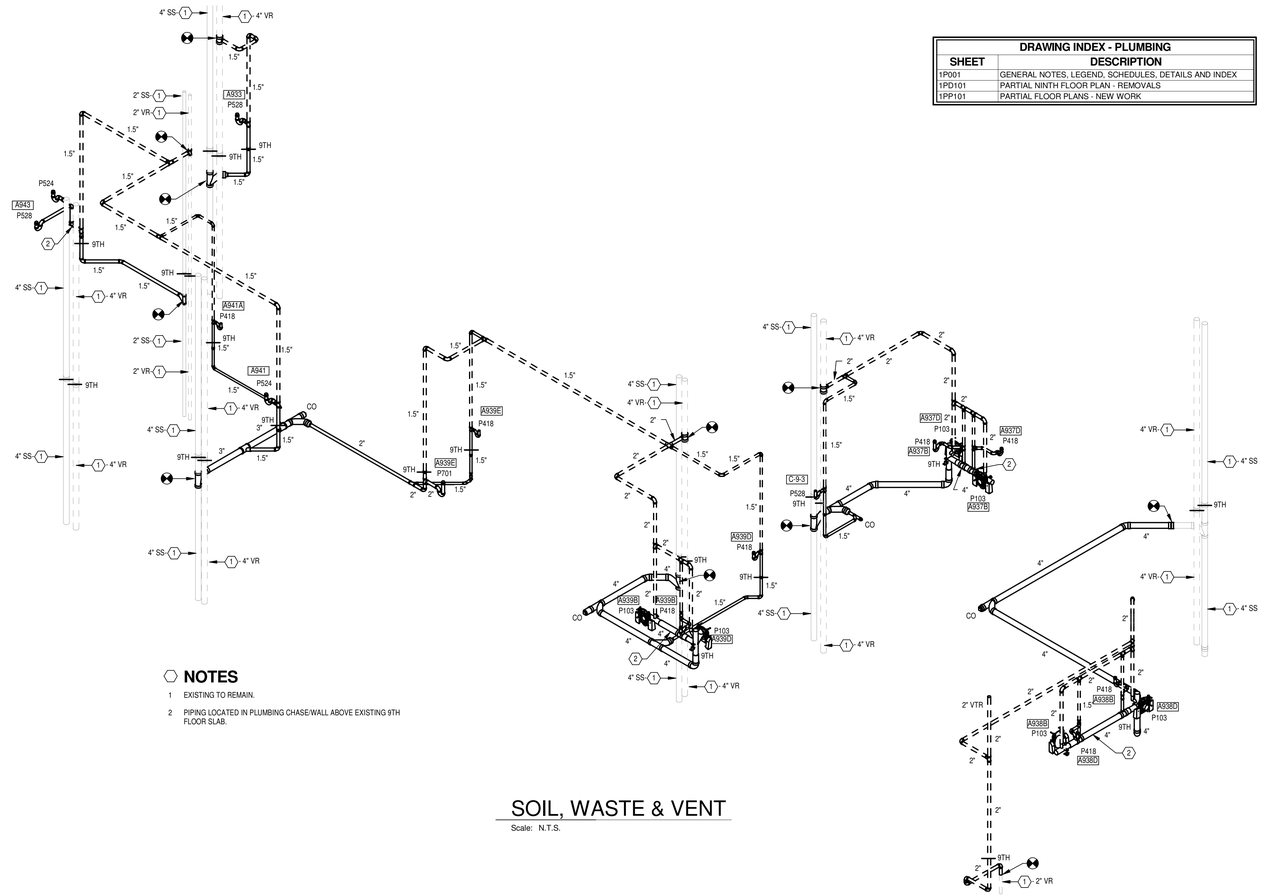
FIXTURE SCHEDULE

SYMBOL	MOUNTING HEIGHT	DESCRIPTION	FLOW		FIXTURE UNITS		SUPPLY			DRAINAGE CONNECTION			REMARKS
			GPM	GPF	DRAINS	WATER C/H	COLD	HOT	TEPID	OUTLET	VENT	DIRECT	
P103	17" TO RIM	WATER CLOSET/WALL HUNG/ADA	- -	1.28	4	5/- -	1"	- -	- -	4"	2"	●	BATTERY POWERED/SENSOR OPERATED/FLUSH VALVE WITH MANUAL BY-PASS
P418	34" TO RIM	LAVATORY/WALL HUNG/20"x18"	0.5	- -	1	0.6/0.6	0.5"	0.5"	- -	1.5"	1.5"	●	ELECTRIC POWERED/SENSOR OPERATED /FAUCET
P524	- -	STAINLESS STEEL SINK/SINGLE COMPARTMENT/COUNTERTOP/22"X19"/ADA	1.5	- -	2	1.5/1.5	0.5"	0.5"	- -	1.5"	1.5"	●	WRIST BLADE HANDLES/GOOSENECK SPOUT
P528	- -	STAINLESS STEEL SINK/SINGLE COMPARTMENT/COUNTERTOP/22"X19"/ADA	0.5	- -	2	1.5/1.5	0.5"	0.5"	- -	1.5"	1.5"	●	HARD-WIRED/SENSOR OPERATED/GOOSENECK SPOUT
P701	44" VALVE	SHOWER BASE/SHOWER VALVE & HEAD ASSEMBLY/ADA/TILE WALLS BY G.C.	1.75	- -	2	0.5"	0.5"	0.5"	- -	2"	2"	●	SHOWER BASE/PRESSURE BALANCING/HAND HELD HOSE/VACUUM BREAKER/TILE WALLS BY G.C.

NOTE: SUPPLY PIPE SIZES IN THIS SCHEDULE ARE FIXTURE CONNECTION SIZES. DOMESTIC COLD WATER SUPPLY PIPE SIZES SERVING FLUSH VALVES SHALL BE A MINIMUM ONE PIPE SIZE LARGER THAN THE INDICATED CONNECTION SIZE, OR SIZED AS SHOWN ON THE FLOOR PLANS. PIPING AT THE FLUSH VALVE CONNECTION, OF A SIZE EQUAL TO THE CONNECTION SIZE, SHALL BE LIMITED TO A MAXIMUM OF 2 FEET IN DEVELOPED LENGTH AND INCLUDE A MAXIMUM OF ONE 90 DEGREE ELBOW FITTING. FULL SIZE MANIFOLDS, WHERE INDICATED ON THE FLOOR PLANS, SHALL BE PROVIDED FULL SIZE THE LENGTH OF THE PIPING CHASE AND TERMINATED WITH A FULL SIZE CAP.

DRAIN SCHEDULE

SYMBOL	DESCRIPTION	BODY				STRAINER / GRATE						TOP FINISH			
		C.I.	S.S.	C.R.	BRASS	RD.	SQ.	ADJUST.	FLAT	RECESS	DOME	NICKEL BRONZE	C.I.	C.R.	S.S.
RD1	3" FLANGED WITH ADJUSTABLE DRAINAGE COLLAR, SUMP RECEIVER, BEARING PAN, DECK CLAMP, ADJUSTABLE EXTENSION, DOME STRAINER	●	- -	- -	- -	●	- -	- -	- -	- -	●	- -	●	- -	- -



NOTES

1 EXISTING TO REMAIN.

2 PIPING LOCATED IN PLUMBING CHASE/WALL ABOVE EXISTING 9TH FLOOR SLAB.

SOIL, WASTE & VENT

Scale: N.T.S.

DRAWING INDEX - PLUMBING	
SHEET	DESCRIPTION
1P001	GENERAL NOTES, LEGEND, SCHEDULES, DETAILS AND INDEX
1PD101	PARTIAL NINTH FLOOR PLAN - REMOVALS
1PP101	PARTIAL FLOOR PLANS - NEW WORK

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: GENERAL NOTES, LEGEND, SCHEDULES, DETAILS AND INDEX

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: RLT | Drawn: DPB/RLC

Project No. VA Project No. 539-13-102 JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1P001

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES

A REFER TO SHEET 1P001 FOR GENERAL NOTES, LEGEND, SCHEDULES, DETAILS AND DRAWING INDEX.

PLAN NOTES

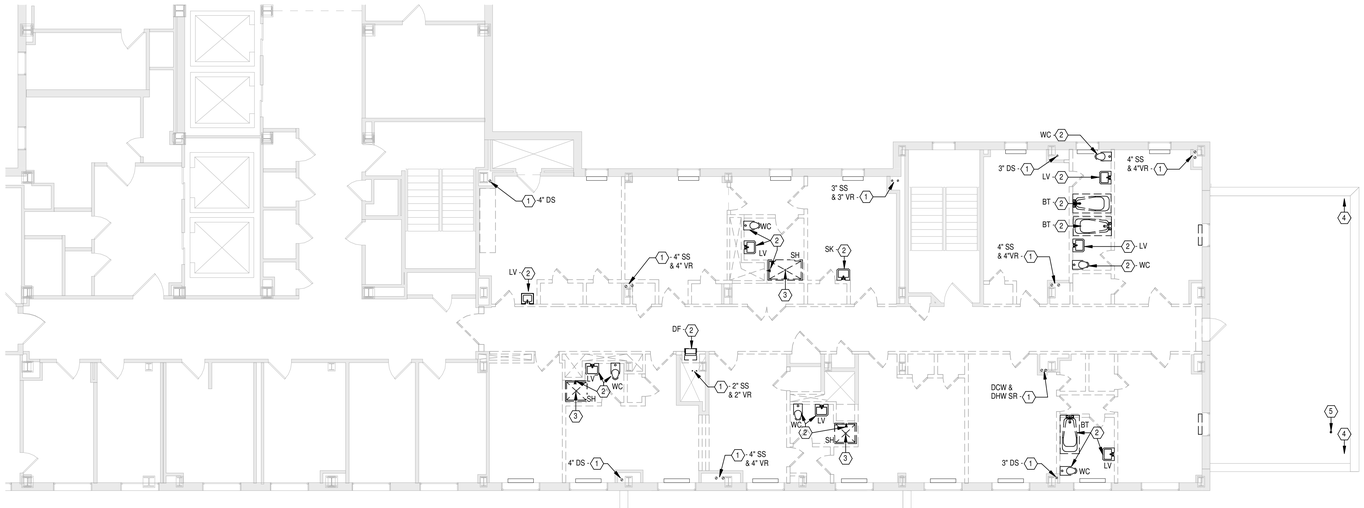
1 EXISTING TO REMAIN.

2 REMOVE EXISTING FIXTURE OR ITEM OF EQUIPMENT (TYPE AS INDICATED) AND ALL EXTRANEOUS PIPING BACK TO MAIN OR POINT OF NEW CONNECTION. CAP PIPING IN WALLS WHERE WALLS ARE TO REMAIN OR ABOVE CEILING OR BELOW FLOOR SLAB WHERE WALLS ARE TO BE REMOVED. NO PIPE STUBS SHALL REMAIN VISIBLE IN FINISHED AREAS.

3 REMOVE EXISTING FLOOR DRAIN STRAINER, PLUG DRAIN OUTLET AND FILL DRAIN BODY WITH CONCRETE TO FLUSH WITH FLOOR SLAB. REMOVE EXISTING SANITARY PIPING SERVING DRAIN BACK TO ACTIVE MAIN OR POINT OF NEW CONNECTION.

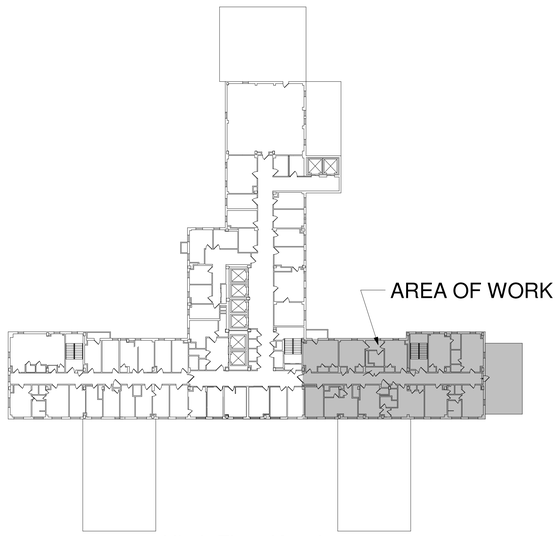
4 REMOVE EXISTING ROOF DRAIN STRAINER, PLUG DRAIN OUTLET AND FILL DRAIN BODY WITH CONCRETE TO FLUSH WITH FLOOR SLAB. REMOVE EXTRANEOUS PIPING BACK TO POINT OF NEW CONNECTION. ROOF DRAINS TO REMAIN UNDER DEDUCT ALTERNATE.

5 REMOVE EXISTING VENT PIPING BACK TO POINT OF NEW CONNECTION FOR OFFSET AND EXTENSION UNDER NEW WORK PLAN. REPAIR/PATCHING OF EXISTING ROOF DECK AND ROOF MEMBRANE BY DIVISION 22 CONTRACT.



N 1 PARTIAL NINTH FLOOR PLAN

Scale: 1/8" = 1'-0" F.F.E. 819' - 9 3/4"



Ninth Floor Keyplan

Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title
PARTIAL NINTH FLOOR PLAN - REMOVALS

Approved: Project Director

Project Title
RENOVATE PULMONARY SLEEP LAB

Location
Cincinnati, Ohio

Date 12/21/2012 | Checked RLT | Drawn DPB/RLC

Project No.
VA Project No. 539-13-102
JPA Project No. 12005.00

Building Number 1

Drawing Number 1PD101

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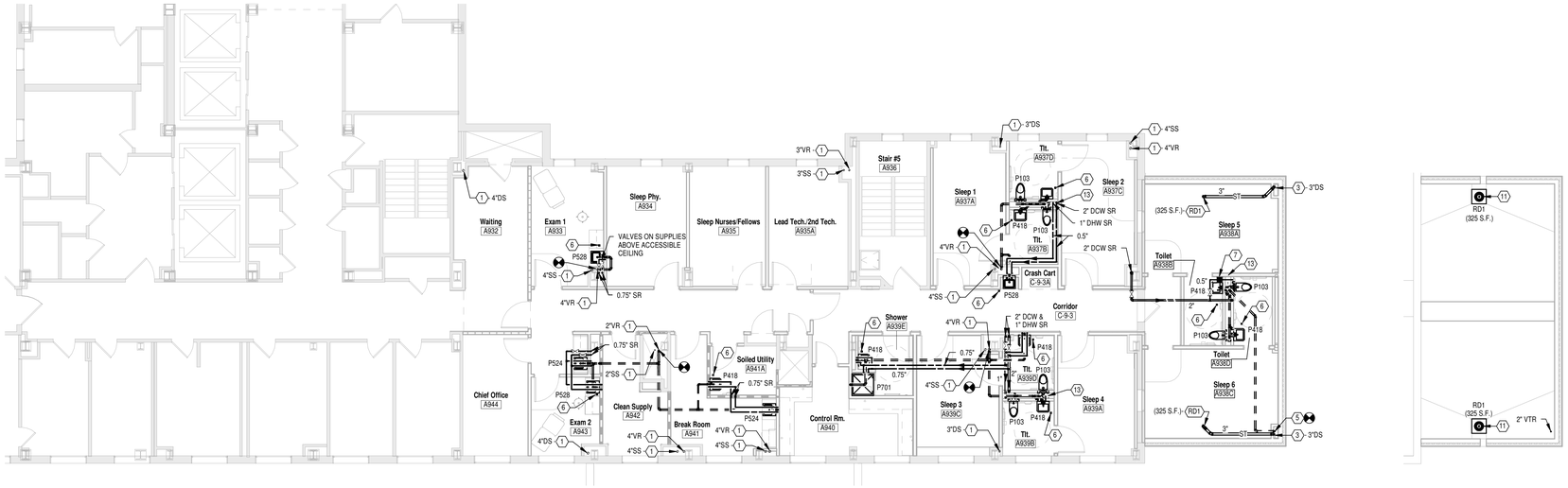


N 1 PARTIAL NINTH FLOOR PLAN

Scale: 1/8" = 1'-0" F.F.E. 819' - 9 3/4"

N 3 ROOF PLAN

Scale: 1/8" = 1'-0" F.F.E. 834' - 3"

GENERAL NOTES

A REFER TO SHEET 1P001 FOR LEGEND, SCHEDULES AND DRAWING INDEX.

PLAN NOTES

1 EXISTING TO REMAIN.

2 CONNECT TO EXISTING 3"DS ABOVE EIGHTH FLOOR CEILING AND EXTEND UP TO NINTH FLOOR ABOVE.

3 EXTEND 3"DS FROM EIGHTH FLOOR BELOW THRU NINTH FLOOR TO SERVE NEW ROOF DRAIN.

4 CONNECT TO EXISTING 2"VR ABOVE EIGHTH FLOOR CEILING AND EXTEND UP TO NINTH FLOOR ABOVE. OMIT UNDER DEDUCT ALTERNATE.

5 EXTEND 2"VR FROM EIGHTH FLOOR BELOW THRU NINTH FLOOR AND UP THRU NEW ROOF. OMIT UNDER DEDUCT ALTERNATE.

6 BOX MOUNTED TRANSFORMER LOCATED ABOVE THE CEILING TO CONTROL SENSOR OPERATED FAUCET ON FIXTURE(S) BELOW. 120V-1PH POWER WILL BE LOCATED IN A WIRING BOX ABOVE THE CEILING BY THE E.C. A 0.75" CONDUIT (FOR LOW VOLTAGE WIRING) STUBBED ABOVE THE CEILING AND EXTENDED DOWN TO AN ELECTRICAL WALL BOX LOCATED BELOW EACH LAVATORY OR SINK WILL BE PROVIDED BY THE E.C. THE TRANSFORMER AND LOW VOLTAGE WIRING SHALL BE BY THE P.C. THE P.C. SHALL COORDINATE ALL WORK WITH THE E.C.

7 POINT-OF-USE DOMESTIC WATER HEATER.
CAPACITY: 2.5 GALLONS/8.6 GALLON FIRST HOUR RATING (80 DEG. F. RISE)
ELECTRICAL: 120V/1500 WATTS. THE DIVISION 26 CONTRACT WILL PROVIDE A 120V CIRCUIT WITH DUPLEX RECEPTACLE. THE P.C. SHALL COORDINATE ALL WORK WITH E.C. REFER TO DETAIL A/1PP101.

8 CONNECT TO EXISTING DCW AND DHW SUPPLY RISERS (SIZES AS INDICATED) ABOVE EIGHTH FLOOR CEILING AND EXTEND UP THROUGH NINTH FLOOR TO ABOVE NINTH FLOOR CEILING.

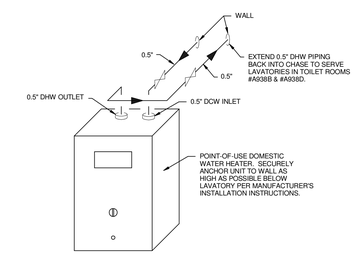
9 CONNECT TO EXISTING DCW AND DHW SUPPLY RISERS (SIZES AS INDICATED) ABOVE EIGHTH FLOOR CEILING AND EXTEND ABOVE EIGHTH FLOOR CEILING TO LOCATION INDICATED.

10 EXTEND NEW DCW AND DHW SUPPLY RISERS (SIZES AS INDICATED) UP THROUGH NINTH FLOOR TO ABOVE NINTH FLOOR CEILING.

11 REFER TO ARCHITECTURAL SHEET A110 FOR ROOF DRAIN COORDINATION AND DEDUCT ALTERNATE INFORMATION.

12 CONNECT TO EXISTING 2" DCW SUPPLY RISER ABOVE EIGHTH FLOOR CEILING AND EXTEND UP THROUGH NINTH FLOOR TO ABOVE NINTH FLOOR CEILING.

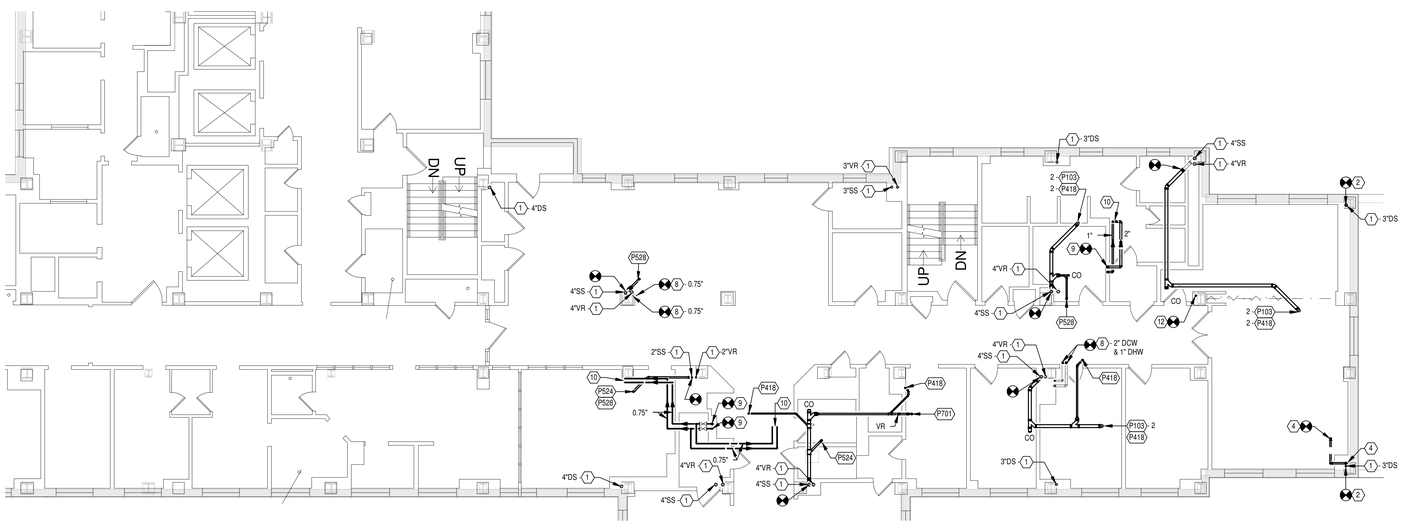
13 PROVIDE FULL SIZE 2" DCW MANIFOLD IN PLUMBING CHASE/WALL AND SERVE EACH FIXTURE INDIVIDUALLY FROM MANIFOLD.



POINT-OF-USE DOMESTIC WATER HEATER

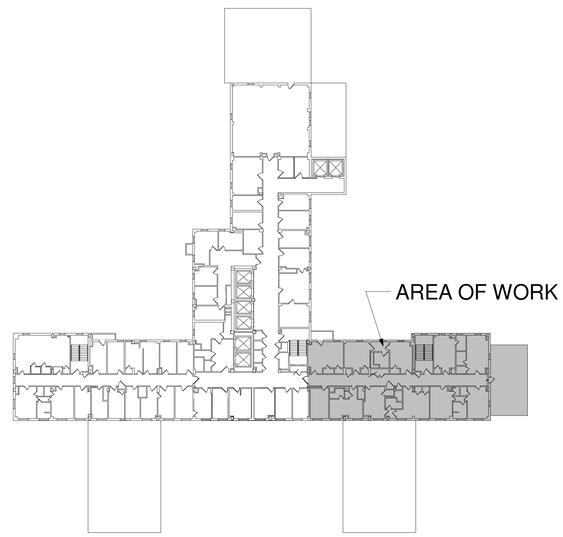
SCALE: NONE

A 1PP101



N 2 PARTIAL EIGHTH FLOOR PLAN

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



Ninth Floor Keyplan

Scale: N.T.S.

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Drawing Title: PARTIAL FLOOR PLANS - NEW WORK

Approved: Project Director

Project Title: RENOVATE PULMONARY SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: RLT | Drawn: DPB/RLC

Project No. VA Project No. 539-13-102 JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1PP101

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

DRAWING SYMBOLS

- 2 / H4 — DETAIL NUMBER / DRAWING NUMBER WHERE DRAWN
- A / H7 — SECTION LETTER / DRAWING NUMBER WHERE DRAWN
- BUILDING NO. WHERE EQUIPMENT IS LOCATED. / EQUIPMENT ABBREVIATION (SUPPLY FAN) / 1-SF3 — SUPPLY FAN NO.3 IN BUILDING NO.1
- TYPICAL UNIT NO.
- 1-01 — TERMINAL UNIT DESIGNATION / AIR HANDLING UNIT NUMBER

DUCTWORK SYMBOLS

- UP / DN — SUPPLY DUCT (UP & DOWN)
- UP / DN — RETURN DUCT (UP & DOWN)
- UP / DN — EXHAUST DUCT (UP & DOWN)
- CEILING DIFFUSERS (FOUR WAY BLOW UNLESS OTHERWISE NOTED)
- EXHAUST OR RETURN CEILING REGISTER OR GRILLE
- SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
- EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE, (WALL TYPE)
- EXHAUST OR RETURN TOP REGISTER OR GRILLE, (WALL TYPE)
- VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF
- R — INCLINED RISE, IN DIRECTION OF AIR FLOW
- D — INCLINED DROP, IN DIRECTION OF AIR FLOW
- FC — FLEXIBLE CONNECTION
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
- STANDARD RADIUS ELBOW
- 10X8 — NEW DUCT - WIDTH X DEPTH
- MANUAL VOLUME DAMPER
- FIRE DAMPER
- BOD: 9'-6" — APPROXIMATE ELEVATION FROM FLOOR TO BOTTOM OF LISTED SIZE OF DUCT, DEVICE OR EQUIPMENT ITEM. (TO BE USED AS AN AID IN COORDINATING THE VARIOUS TRADES.)
- U/C — DOOR UNDERCUT BY GENERAL CONTRACTOR

PIPING SYMBOLS

HEATING

- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- D — DRAIN LINE
- HWS — HEATING HOT WATER SUPPLY
- HWR — HEATING HOT WATER RETURN

GENERAL

- DIRECTION OF PIPE PITCH (DOWN)
- DIRECTION OF FLOW
- PIPE ANCHOR
- PIPE GUIDE
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION, 45 DEG. OR 90 DEG.
- BOTTOM CONNECTION, 45 DEG. OR 90 DEG.
- SIDE CONNECTION
- CAPPED OUTLET
- RISE OR DROP IN PIPE
- UNION
- ORIFICE UNION
- PIPE UP
- PIPE DOWN
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK.
- INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES (SEE STANDARD DETAIL)
- FLOAT AND THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES (SEE STANDARD DETAIL)
- THERMOSTATIC TRAP
- STRAINER
- THERMOMETER
- PRESSURE GAGE
- EXISTING PIPE TO BE REMOVED
- TEST PLUG (PRESSURE/TEMPERATURE)
- ET — EXPANSION TANK PIPE
- PIPE MOUNTED DDC TEMPERATURE SENSOR

VALVES

- GATE VALVE
- GLOBE VALVE
- GATE VALVE WITH 3/4" HOSE END ADAPTER
- CHECK VALVE
- ANGLE GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- COMBINATION BALANCING/SHUT-OFF VALVE
- CIRCUIT SETTER
- STRAIGHT-THRU MODULATING CONTROL VALVE
- STRAIGHT-THRU TWO-POSITION CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- MANUAL AIR VENT

CONTROLS

- T H — ROOM CONTROL: THERMOSTAT, HUMIDISTAT
- T — REMOTE BULB THERMOSTAT
- T — DUCT OR PIPE THERMOSTAT (NOTE 1: PROVIDE 12" MIN. LENGTH IN DUCT WHEN SPACE PERMITS)
- T — DUCT THERMOSTAT WITH AVERAGING ELEMENT
- T H — ROOM SENSOR: TEMPERATURE, HUMIDITY
- T — DUCT OR PIPE TEMP. SENSOR
- H — DUCT HUMIDITY SENSOR
- SP — DUCT STATIC PRESSURE SENSOR
- T — DUCT TEMPERATURE SENSOR WITH AVERAGING ELEMENT
- F S — SMOKE DETECTOR (SEE ELECTRICAL SPECIFICATIONS)
- H1 N — CONTROL CIRCUIT CONN.
- dP — DIFFERENTIAL PRESSURE SWITCH
- DP SP — DIFFERENTIAL OR STATIC PRESSURE TRANSMITTER
- CS — CURRENT SENSING RELAY

ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
APD	AIR PRESSURE DROP
ATC	AUTOMATIC TEMPERATURE CONTROLS
BG	BOTTOM GRILLE (WALL TYPE)
BHP	BRAKE HORSEPOWER
BIW	BACKWARD INCLINED WHEEL (FAN)
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CD	CEILING DIFFUSER
CF	CENTRIFUGAL FAN
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CR	CEILING REGISTER
CUH	CABINET UNIT HEATER
CW	COLD WATER (POTABLE)
D	AUTOMATIC CONTROL DAMPER
Db	DRY BULB TEMPERATURE, DEG. F
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DI	DIGITAL INPUT
DIA	DIAMETER
DO	DIGITAL OUTPUT
DPS	DIFFERENTIAL PRESSURE SENSOR
DX	DIRECT EXPANSION
E.A.	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECC	ENGINEERING CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX.	EXISTING
F	FAHRENHEIT
FC	FLEXIBLE CONNECTION
FCW	FOWARD CURVED WHEEL (FAN)
FD	FLOOR DRAIN
F&T	FLOAT AND THERMOSTATIC

ABBREVIATIONS

FLR.	FLOOR
FPM	FEET PER MINUTE
FT	FEET
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HD	HEAD
HP	HORSEPOWER
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
ICF	IN-LINE CENTRIFUGAL FAN
IN	INCHES
IN WC	INCHES WATER COLUMN
IN WG	INCHES WATER GAUGE
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MB	MIXING BOX
MBH	1000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MIN	MINIMUM
MV	MANUAL AIR VENT
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NOM	NOMINAL
O.A.	OUTSIDE AIR
OD	OUTSIDE DIAMETER
P	PUMP
PD	PRESSURE DROP (FEET OF WATER)
PE	PROJECT ENGINEER
PEF	PROPELLER TYPE EXHAUST FAN
PF	PRE-FILTER
PH	PREHEAT COIL
PRV	PRESSURE REDUCING VALVE
R.A.	RETURN AIR
RF	RETURN FAN
Rh	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
S.A.	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DETECTOR
SDR	SMOKE DAMPER (RETURN)
SDS	SMOKE DAMPER (SUPPLY)
SF	SUPPLY FAN
S.P.	STATIC PRESSURE (INCHES OF WATER)
SP. GR.	SPECIFIC GRAVITY
SPRV	STEAM PRESSURE REDUCING VALVE
SPS	STATIC PRESSURE SENSOR
SWSI	SINGLE WIDTH SINGLE INLET (FAN)
TG	TOP GRILLE (WALL TYPE)
TG	TRANSFER GRILLE
TR	TOP REGISTER (WALL TYPE)
TSTAT	THERMOSTAT
TSP	TOTAL STATIC PRESSURE
U/C	DOOR UNDERCUT BY GENERAL CONTRACTOR
UH	UNIT HEATER
V	VALVE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
Wb	WET BULB TEMPERATURE, DEG. F
W.B.E.	WHITE BAKED ENAMEL
WF	WATER FILTER
WG	WATER GAUGE

GENERAL NOTES

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE SUSPENDED CEILING.
2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
3. ACCESS PANELS IN NON ACCESSIBLE SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
4. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
5. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
7. WHERE DUCTS OR PIPES ARE REMOVED THRU WALL/FLOOR/ROOF THAT IS TO REMAIN, PATCH WALL/FLOOR/ROOF OPENING TO MATCH EXISTING WHERE OPENING IS NOT RE-USED.
8. ALL CUTTING AND PATCHING REQUIRED FOR THE HVAC WORK SHALL BE INCLUDED IN THE HVAC CONTRACT. REFINISH ANY SURFACE DISTURBED UNDER THIS WORK TO MATCH EXISTING.
9. IN GENERAL, KEEP DUCT AND PIPING MAINS NEXT TO UNDERSIDE OF STRUCTURE.
10. ANNULAR SPACE OF ALL PIPE, CONDUIT, DUCT & OTHER SIMILAR PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. IN ADDITION, PENETRATIONS THROUGH 0-HOUR RATED WALLS & FLOORS SHALL BE FIRESTOPPED TO RETARD PASSAGE OF FIRE & SMOKE.
11. UPON THE DISCOVERY OF ANY ASBESTOS MATERIAL, STOP WORK IMMEDIATELY AND REPORT IT TO THE PROJECT ENGINEER. THE PROJECT ENGINEER WILL NOTIFY CONTRACTOR WHEN WORK IS SAFE TO PROCEED.
12. ANY REMOVED EQUIPMENT SHALL BE TURNED OVER TO THE VA. ITEMS NOT DESIRED BY THE VA SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF PROPERLY BY THE CONTRACTOR.
13. MEASUREMENTS FOR COORDINATION DRAWINGS SHALL COORDINATE WITH PROJECT ENGINEER. MAY TAKE PLACE OUTSIDE OF NORMAL WORKING HOURS.
14. THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW EVERY VERTICAL OR HORIZONTAL OFFSET WHICH MAY BE NECESSARY TO COMPLETE THE SYSTEMS. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED.
15. FIELD VERIFY EXISTING CONDITIONS, INCLUDING DUCT, PIPE AND EQUIPMENT SIZES, SERVICES AND LOCATIONS PRIOR TO PERFORMING WORK.
16. HEPA FILTERED EXHAUST IS REQUIRED TO MAINTAIN A MINIMUM OF 0.01" W.G. NEGATIVE PRESSURE IN CONSTRUCTION AREAS. COORDINATE WITH GENERAL CONTRACTOR AND PROJECT ENGINEER.
17. ALL ABANDONED EXTRANEOUS PIPING, DUCTWORK, SUPPORTS, CONTROLS, ETC. SHALL BE REMOVED.
18. WHERE CONTROL DEVICES ARE REMOVED, PNEUMATIC LINES SHALL BE REMOVED BACK TO MAIN AND CAPPED, AND CONTROL WIRING AND CONDUIT SHALL BE REMOVED BACK TO SOURCE.
19. ALL EXISTING DUCTWORK, PIPING, EQUIPMENT, CONTROLS, ETC. SHOWN DASHED SHALL BE REMOVED. THE MAJORITY OF WORK TO BE REMOVED IS SHOWN. REMOVE ALL INCIDENTAL ABANDONED DUCTWORK, PIPING, ETC., THAT MAY NOT BE SHOWN BUT IS ASSOCIATED WITH THE REMOVAL WORK.
20. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL SHEET G209 AND GENERAL REQUIREMENTS SECTION 01 00 00.
21. REFER TO ARCHITECTURAL FIRE-RATED PARTITION PLAN ON SHEET 109 FOR LOCATIONS AND FIRE-RATINGS OF NEW AND EXISTING WALL ASSEMBLIES. ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE PROTECTED AND/OR FIRE-STOPPED AS REQUIRED TO MAINTAIN FIRE-RATINGS INDICATED. GC SHALL COORDINATE ALL TRADES TO ENSURE FIRE-RATED PENETRATION REQUIREMENTS AND DETAILS ARE MET.
22. WHERE EXISTING HVAC UTILITIES IN SERVICE WILL BE DISRUPTED DURING THE CONSTRUCTION OF THIS PROJECT, THIS WORK SHALL BE PERFORMED ON WEEKENDS OR WEEK NIGHTS, IF REQUIRED BY THE PROJECT ENGINEER DOWNTIME SHALL BE KEPT TO A MINIMUM, AND SHALL BE COORDINATED AND SCHEDULED WELL IN ADVANCE WITH THE PROJECT ENGINEER

DRAWING INDEX - HVAC

SHEET	DESCRIPTION
1M001	LEGEND, SCHEDULES AND INDEX
1M501	DETAILS
1M502	DETAILS
1M601	SCHEDULES
1M701	CONTROLS AND AUTOMATION
1MD101	PARTIAL NINTH FLOOR PLAN - REMOVALS
1MH101	PARTIAL NINTH FLOOR PLAN - NEW WORK - DUCTWORK
1MP101	PARTIAL NINTH FLOOR PLAN - NEW WORK - PIPING

FULLY SPRINKLERED

Revisions | Date

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Drawing Title: LEGEND, SCHEDULES AND INDEX

Approved: Project Director

Project Title: RENOVATE PULMONARY / SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: DLE | Drawn: PCW

Project No. — VA Project No. 539-13-102 — JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1M001

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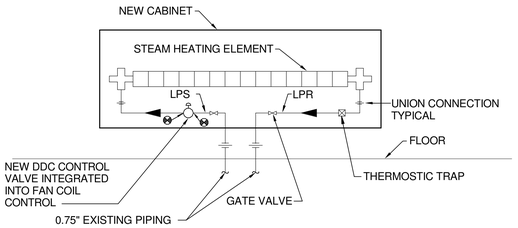
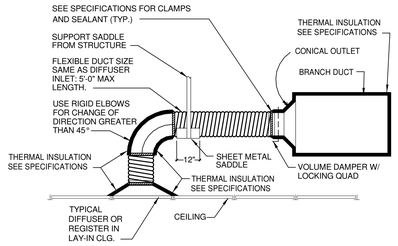
Office of Construction and Facilities Management

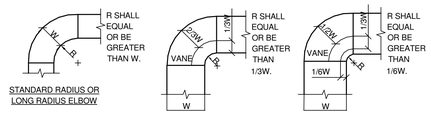
Department of Veterans Affairs



TYPICAL PIPING CONNECTIONS TO STEAM CONVECTORS



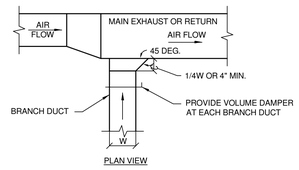
FLEXIBLE AIR DUCT CONNECTOR



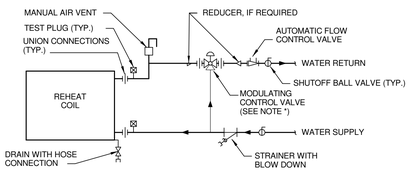
NOTES:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

DUCTWORK RADIUS ELBOWS

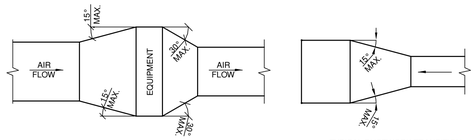


EXHAUST OR RETURN BRANCH DUCTWORK



* REFER TO AIR TERMINAL UNIT SCHEDULE ON SHEET 330M601 FOR VALVE TYPE (2-WAY OR 3-WAY)

AIR TERMINAL UNIT - PIPING CONNECTIONS

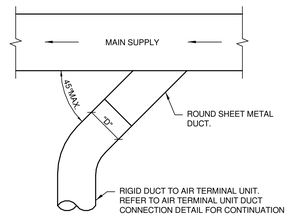


TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT PLAN OR SIDE VIEW

TYPICAL DUCTWORK TRANSITION PLAN OR SIDE VIEW

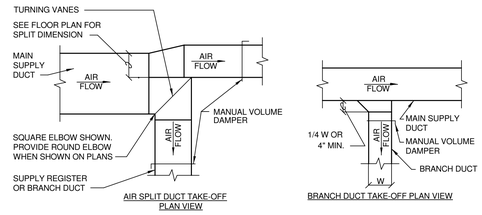
NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

DUCTWORK TRANSITIONS



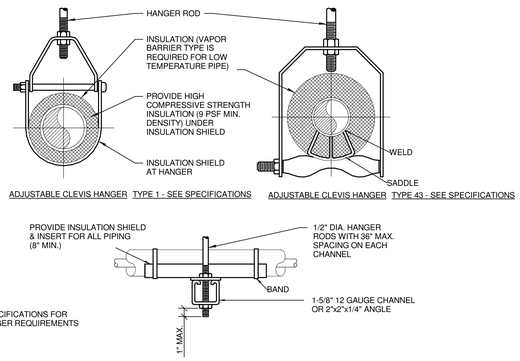
PLAN VIEW

SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS



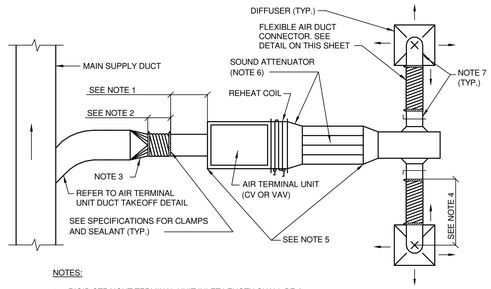
THE BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME, AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES

SUPPLY DUCTWORK TAKE-OFFS DOWNSTREAM OF AIR TERMINAL UNITS



MAXIMUM PIPE/TUBING SUPPORT SPACING																		
NOM. SIZE	IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
PIPE	FT.	7	7	7	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32
TUBING	FT.	5 FT	6	7	8	8	9	10	12	13	14	16	-	-	-	-	-	-	-
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.																			

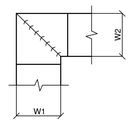
PIPE HANGERS



NOTES:

1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET SO AS TO ACHIEVE ACCURATE AIRFLOW SENSOR READINGS.
2. A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0".
3. PROVIDE DUCT TRANSITION WHERE SCHEDULED DUCT RUNOUT SIZE TO UNIT IS DIFFERENT THAN TERMINAL UNIT INLET SIZE.
4. FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 5'-0". USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45°.
5. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION W/VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.
6. PROVIDE SOUND ATTENUATOR. PROVIDE DUCT TRANSITION BETWEEN TERMINAL UNIT AND SOUND ATTENUATOR WHERE ATTENUATOR SIZE DIFFERS FROM TERMINAL UNIT OUTLET SIZE.
7. DUCT RUNOUT TO DIFFUSERS SHALL BE SAME SIZE AS THE DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.

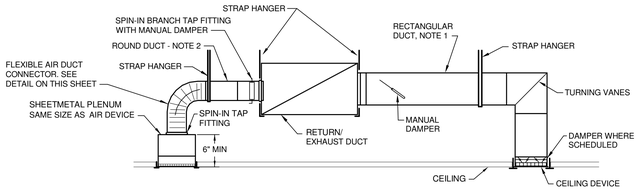
DUCT CONNECTIONS-AIR TERMINAL UNITS



NOTES:

1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
4. WHEN W1 EQUALS W2 AND W1 IS GREATER THAN 20", VANES SHALL BE DOUBLE VANE TYPE.

DUCTWORK SQUARE VANE ELBOWS



NOTES:

1 BRANCH DUCT TAKE-OFF WITH MANUAL DAMPER.

2 BRANCH DUCT SIZES, UNLESS NOTED ON PLANS ARE TO BE SIZED AS FOLLOWS:
100 CFM AND LESS - 6" DIA.
101 CFM TO 250 CFM - 8" DIA.
251 CFM TO 400 CFM - 10" DIA.
401 CFM TO 700 CFM - 12" DIA.

RETURN OR EXHAUST GRILLE/REGISTER CONNECTION

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: DETAILS

Approved: Project Director

Project Title: RENOVATE PULMONARY / SLEEP LAB

Location: Cincinnati, Ohio

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Project No. VA Project No. 539-13-102 JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1M501

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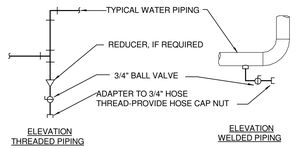
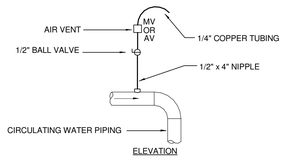
Department of Veterans Affairs



TYPICAL CHILLED AND HOT WATER PIPING DRAIN VALVE CONNECTIONS

NOTES:
1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.

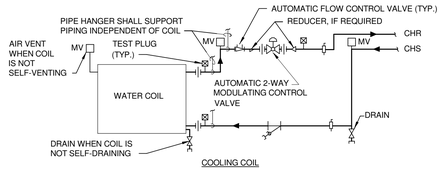
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS, LOCATE DRAIN AT BOTTOM OF SCALE POCKET.



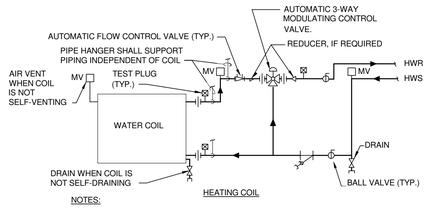
TYPICAL MANUAL AIR VENT

NOTES:
1. VENT ALL HIGH POINTS AS INDICATED ABOVE.
2. IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO NEAREST DRAIN.

DRAIN VALVE AND AIR VENT CONNECTIONS (HYDRONIC SYSTEMS)



COOLING COIL



HEATING COIL

NOTES:

1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST 2 HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE "H" FOR 4" DIA. PIPE & SMALLER. TYPE "H-P" FOR 5" DIA. PIPE & LARGER.

2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES, OR EQUIPMENT.

3. THE FLOW ELEMENT MAY BE INSTALLED IN THE SUPPLY PIPING IF THE REQUIRED MINIMUM UPSTREAM AND DOWNSTREAM DIMENSIONS CANNOT BE OBTAINED IN THE RETURN PIPING.

FAN COIL - PIPING CONNECTIONS

FULLY SPRINKLERED

Revisions	Date

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JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1M502

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Department of Veterans Affairs

HVAC DESIGN DATA

OUTDOOR DESIGN TEMPERATURES		
93	DEG. F Db SUMMER	DESIGN ALTITUDE: 482 FT.
74	DEG. F Wb SUMMER	
5	DEG. F Db WINTER	

INDOOR AREA DESIGN CONDITIONS	SUMMER		WINTER	
	Db (°F)	% HUMIDITY	Db (°F)	% HUMIDITY
BATHROOMS & TOILET ROOMS	-	-	68	20
OFFICES	75	60	70	20
EXAM ROOMS	75	60	70	20
ALL OTHER AREAS	75	60	70	20
UNOCCUPIED MODE	80	-	60	-

AIR TERMINAL UNIT SCHEDULE

UNIT NO.	CFM			APPROX. INLET SIZE (IN.)	DUCT RUNOUT SIZE TO UNIT (IN.) (1)	UNIT MAX. SP AT MAX. CFM (2)	SOUND REQUIREMENTS		HOT WATER HEATING COIL								CONTROL TYPE (6)
	MAX.	WINTER MIN.	SUMMER MIN.				SP ACROSS UNIT AT MAXIMUM ROOM NC	MAX. ROOM NC (3)(4)	ENT. AIR TEMP. F°	ENT. WATER TEMP. F°	GPM	MAX. WATER P.D. FT. HD.	PIPE RUNOUT SIZE TO COIL	AUTO VALVE Cv	AUTO VALVE TYPE	MIN. MBH (5)	
OAVAV1	905	0	0	9	10	0.35"	3.0"	35	55	180	1.6	2	0.75"	1.6	2-WAY	24.3	C.V.R

NOTES :
1 PROVIDE DUCT TRANSITION AT UNIT INLET WHERE UNIT INLET SIZE AND DUCT RUNOUT SIZE ARE DIFFERENT.
2 THE UNIT MAXIMUM SP IS THE PRESSURE DIFFERENCE BETWEEN THE UNIT INLET AND DISCHARGE INCLUDING REHEAT COIL AND SOUND ATTENUATOR. IT IS ALSO THE MINIMUM PRESSURE REQUIRED AT THE UNIT INLET TO OBTAIN THE RATED CFM.
3 PROVIDE INTEGRAL SOUND ATTENUATOR.
4 UNIT NOISE LEVEL SELECTION SHALL NOT EXCEED A ROOM NC OF 35 FROM BOTH AIRBORNE AND RADIATED NOISE, BASED ON A 10 DB ROOM ABSORPTION COFFICIENT (REFERENCE 10 [-12] WATTS) WITH 3" S.P. DIFFERENTIAL ACROSS UNIT AT MAXIMUM CFM SETTING.
5 HEATING COIL CAPACITY BASED ON WINTER MINIMUM CFM.
6 CONTROL TYPES: V.V.R.: VARIABLE VOLUME REHEAT TERMINAL; C.V.R.: CONSTANT VOLUME REHEAT TERMINAL

DUCT PRESSURE CLASS & LEAKAGE TABLE

SYSTEM	DUCT INVOLVED	POSITIVE (P) OR NEGATIVE (N) PRESSURE	SMACNA CONST. CLASS W.G.	SMACNA SEAL CLASS	SMACNA LEAKAGE CLASS	
					RECTANGULAR DUCT	ROUND DUCT
ALL SYSTEMS	ALL DUCTWORK EXCEPT AS LISTED BELOW.	P/N	± 2"	A	6	3
	SUPPLY AIR DUCTS FROM OUTLET OF AH-UNIT TO INLET OF AIR TERMINAL UNITS.	P	4"	A	6	3
	SUPPLY AIR DUCTS FROM OUTLET OF AIR TERMINAL UNITS TO SUPPLY AIR DEVICES	P	1"	A	6	3
	RETURN AIR DUCTS	N	-2"	A	6	3
	GENERAL EXHAUST DUCTS	N	-2"	A	6	3

AIR DISTRIBUTION DEVICES

SYMBOL	DESCRIPTION	TYPE MOUNTING		MATERIAL		FINISH		ACCESSORIES	NOTES
		LAY-IN	SURFACE	STEEL	ALUM.	E.C.L.	W.B.E.		
CD1	STANDARD SQ. PLAQUE CEILING DIFFUSER ROUND NECK	∘		∘			∘		
CD2	STANDARD SQ. PLAQUE CEILING DIFFUSER ROUND NECK		∘	∘			∘		
CG1	EGGCRATE CEILING FILTER GRILLE	∘			∘		∘	1" MERV 8 FILTER	
CR1	EGGCRATE CEILING REGISTER	∘			∘		∘	OPPOSED BLADE DAMPER	
CR2	EGGCRATE CEILING REGISTER		∘		∘		∘	OPPOSED BLADE DAMPER	
TR1	ADJUSTABLE BLADE SUPPLY REGISTER		∘	∘			∘	OPPOSED BLADE DAMPER	1

NOTES:
1 DOUBLE DEFLECTION TYPE, HORIZONTAL FRONT BLADES.

FAN SCHEDULE

FAN NO.	LOCATION	FAN CFM	FAN S.P.	FAN TYPE	DESCRIPTION	WHEEL		MAX. RPM	DRIVE	MOTOR				AIR BALANCE CFM	AIR BALANCE S.P.	NOTES
						TYPE	MIN. DIA.			MAX. BHP	NOM. HP	VOLT-PHASE	ECM			
1-9SEF1 (BASE BID)	ROOF	650	0.5"	RV	DOWNBLAST POWER ROOF VENTILATOR	BIW	10"	1,205	DIRECT	0.1	0.25	120-1	YES	605	0.375	1,2
1-9SEF1 (ALT1)	CORRIDOR	500	0.5"	ICF	INLINE CENTRIFUGAL	BIW	9"	1,725	DIRECT	0.11	0.25	120-1	YES	455	0.375	2

NOTES :
1 FAN SHALL NOT EXCEED 6.0 SONES.
2 THIS FAN IS PART OF ALTERNATE #1. ONE FAN SHALL BE PROVIDED . TYPE OF FAN WILL DEPEND ON ALTERNATE ACCEPTANCE. REFER TO FLOOR PLANS FOR MORE INFORMATION.

TWO AND FOUR PIPE FAN COIL UNIT SCHEDULE

UNIT NO.	TYPE	FAN CFM	FAN ESP	O.A. CFM	O.A. CONN. SIZE	COOLING REQUIREMENTS WITH 44°F ENT. WATER TEMP.									HEATING REQUIREMENTS WITH 160°F ENT. WATER TEMP							FAN MOTOR (4)		APPROXIMATE SIZE			FILTERS (3)	NOTES
						MIN. TOTAL MBH	MIN. SENS. MBH	ENT. AIR F°		GPM	MAX. LOSS THRU COIL FT. WATER	AUTO VALVE TYPE	AUTO VALVE CV	RUN-OUT SIZE	MIN. MBH	ENT. AIR °F	GPM	MAX. LOSS THRU COIL FT. WATER	AUTO VALVE TYPE	AUTO VALVE CV	RUN-OUT SIZE	NOM. HP(W)	VOLT.-PHASE	L	W	H		
								Db	Wb																			
1-FCU1	HORIZONTAL CONCEALED	400	0.24"	125	6"X6"	9.0	7.5	71.5	61.6	1.5	5.4	2-WAY	0.7	0.75"								0.22	120-1	38"	25"	10"	NONE	1,2,5
1-FCU2	HORIZONTAL EXPOSED	265	0.22"	45	6"D	7.0	5.9	75.1	62.8	1.4	3.9	2-WAY	0.7	0.75"								0.22	120-1	33"	25"	10"	NONE	1,2,5
1-FCU3	HORIZONTAL CONCEALED	275	0.21"	55	6"D	7.0	5.8	74.4	62.5	1.5	4.2	2-WAY	0.7	0.75"								0.22	120-1	33"	25"	10"	NONE	1,2,5
1-FCU4	HORIZONTAL CONCEALED	270	0.22"	50	6"D	7.0	5.9	74.8	62.7	1.4	4.0	2-WAY	0.7	0.75"								0.22	120-1	33"	25"	10"	NONE	1,2,5
1-FCU5	HORIZONTAL CONCEALED	265	0.22"	50	6"D	7.0	5.9	74.4	62.6	1.4	4.1	2-WAY	0.7	0.75"								0.22	120-1	33"	25"	10"	NONE	1,2,5
1-FCU6	HORIZONTAL EXPOSED	260	0.23"	55	6"D	7.0	5.8	74.4	62.5	1.5	4.4	2-WAY	0.7	0.75"								0.22	120-1	33"	25"	10"	NONE	1,2
1-FCU7	HORIZONTAL CONCEALED	380	0.21"	60	6"D	9.0	7.5	74.4	62.6	2.0	6.5	2-WAY	0.9	0.75"								0.22	120-1	38"	25"	10"	NONE	1,2
1-FCU8	HORIZONTAL CONCEALED	260	0.25"	65	6"D	7.0	5.8	73.7	62.3	1.5	3.9	2-WAY	0.7	0.75"	10.5	72.0	0.5	0.8	3-WAY	0.2	0.75	0.22	120-1	38"	25"	10"	NONE	2,6
1-FCU9	HORIZONTAL CONCEALED	270	0.24"	65	6"D	7.0	5.8	73.8	62.4	1.4	3.7	2-WAY	0.7	0.75"	10.5	72.0	0.5	0.8	3-WAY	0.2	0.75	0.22	120-1	38"	25"	10"	NONE	2,6
1-FCU10	HORIZONTAL EXPOSED	485	0.20"	50	6"D	12.0	10.3	74.9	62.8	2.2	2.6	2-WAY	1.0	0.75"								0.22	120-1	47"	25"	10"	NONE	1,2
1-FCU11	HORIZONTAL CONCEALED	510	0.20"	115	6"X6"	10.5	9.0	72.6	62.0	2.5	2.7	2-WAY	1.2	0.75"								0.22	120-1	47"	25"	10"	NONE	1,2
1-FCU12	HORIZONTAL CONCEALED	600	0.22"	55	6"D	15.0	12.9	74.7	62.7	2.9	4.1	2-WAY	1.4	0.75"								0.22	120-1	47"	25"	10"	NONE	1,2,5
1-FCU13	HORIZONTAL CONCEALED	640	0.20"	40	6"D	16.5	13.6	75.2	63.0	3.5	5.8	2-WAY	1.7	0.75"								0.22	120-1	47"	25"	10"	NONE	1,2,5
1-FCU14	HORIZONTAL EXPOSED	310	0.20"	30	6"D	8.5	6.9	75.9	63.1	2.0	6.6	2-WAY	0.9	0.75"								0.22	120-1	38"	25"	10"	NONE	1,2,5
1-FCU15	HORIZONTAL CONCEALED	310	0.21"	45	6"D	8.0	6.6	75.1	62.9	1.7	5.6	2-WAY	0.8	0.75"								0.22	120-1	33"	25"	10"	NONE	1,2,5

NOTES:
1 TWO PIPE COOLING ONLY UNIT.
2 FURNISH WITH CONDENSATE OVERFLOW DETECTION DEVICE. FLOAT SWITCH IN THE AUXILIARY DRAIN PAN TO STOP THE FAN WHEN WATER LEVEL IN THE PAN RISES TO A NEAR OVERFLOW LEVEL.
3 FAN COIL UNITS SHALL UTILIZE RETURN AIR FILTER GRILLES WITH 1" MERV 8 FILTERS.
4 PROVIDE EC MOTORS.
5 FAN COIL UNIT SHALL BE CONTROLLED THRU E.C.G. WITH PROGRAMMABLE OCCUPIED/UNOCCUPIED TIMES AND/OR BE CONNECTED TO OCCUPANCY SENSOR(S). PROVIDE OCCUPANCY SENSORS AND ASSOCIATED WIRING WHERE NOT PROVIDED BY ELECTRICAL CONTRACTOR. REFER TO DIV 26 SPECIFICATIONS FOR PRODUCT REQUIREMENTS. REFER TO "HVAC DESIGN DATA" SCHEDULE ON THIS SHEET FOR UNOCCUPIED TEMPERATURES.
6 THESE FAN COIL UNITS ARE PART OF DEDUCT ALTERNATE #1. SUBTRACT FROM BASE BID IF DEDUCT ALTERNATE IS TAKEN, INCLUDING ALL ASSOCIATED PIPING, CONTROLS, ETC.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: SCHEDULES

Approved: Project Director

Project Title: RENOVATE PULMONARY / SLEEP LAB

Location: Cincinnati, Ohio

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Project No. VA Project No. 539-13-102 JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1M601

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Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES

1 A COMPLETE SYSTEM OF AUTOMATIC TEMPERATURE CONTROLS SHALL BE INSTALLED UNDER THIS CONTRACT, AS REQUIRED TO ACCOMPLISH THE SEQUENCE OF CONTROL FOR VARIOUS ITEMS OF EQUIPMENT AND SYSTEMS AS DESCRIBED HEREINAFTER. THE SYSTEM SHALL BE A DIRECT DIGITAL CONTROL SYSTEM UTILIZING ELECTRIC ACTUATION.

2 ELECTRICAL WORK INCLUDES A POWER SOURCE TO THE MOTOR STARTERS. ALL HVAC POWER SOURCES REQUIRED BEYOND THESE STARTERS OR BEYOND SOURCES EXPLICITLY SHOWN ON THE ELECTRICAL DRAWINGS, SHALL BE PROVIDED UNDER THE ATC WORK. THIS WORK SHALL INCLUDE BUT NOT BE LIMITED TO WIRING, CONDUIT, TRANSFORMERS, RELAYS AND FUSES.

3 BULB WELLS FOR TEMPERATURE SENSING AS INDICATED SHALL BE FURNISHED UNDER THE ATC WORK AND INSTALLED AS PART OF THE HVAC PIPING WORK. PIPING WORK SHALL INCLUDE PROPERLY SIZED WELDOLET OR THREADOLET FITTINGS PLACED AS DIRECTED BY THE CONTROL SYSTEM MANUFACTURER

4 ALL INPUT AND OUTPUT POINTS, AND THEIR REQUIRED INTERFACE AND ACCESSORY HARDWARE, SHALL BE PROVIDED FOR A COMPLETE AND FUNCTIONAL CONTROL SYSTEM. IF OR WHEN ADDITIONAL POINTS ARE REQUIRED TO ACCOMPLISH THE SEQUENCES OF CONTROL SPECIFIED, THESE POINTS, ALONG WITH ADDITIONAL DIRECT DIGITAL CONTROL PANEL(S) (IF REQUIRED), SHALL ALSO BE PROVIDED.

OA VVR CONTROL SEQUENCES

1 VARIABLE VOLUME REHEAT TERMINAL CONTROL

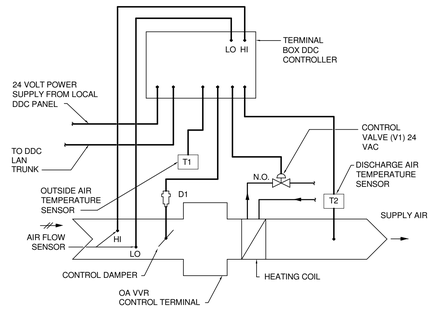
1.1 THE DCP SHALL POLL THE ASSOCIATED FAN COIL UNIT CONTROLLERS AND DETERMINE WHICH UNITS ARE IN OCCUPIED MODE AND MODULATE THE DAMPER D1 TO PROVIDE THE APPROPRIATE AMOUNT OF VENTILATION AIR MEASURED BY THE INLET AIRFLOW SENSOR. WHEN ALL ASSOCIATED FAN COIL UNITS ARE UNOCCUPIED, DAMPER D1 SHALL CLOSE.

1.2 AS OUTSIDE AIR TEMPERATURE FALLS BELOW SETPOINT (40 DEG F. ADJUSTABLE), HOT WATER VALVE V-1 SHALL MODULATE OPEN TO MAINTAIN A DISCHARGE AIR TEMPERATURE ACCORDING TO THE FOLLOWING RESET SCHEDULE: 40 DEG F. OA, 55 DEG F. DISCHARGE AIR; 20 DEG F. OA, 75 DEG F. DISCHARGE AIR. BELOW 20 DEG F. OA, 75 DEG F. DISCHARGE AIR. ALL CONTROL SETPOINTS SHALL BE FULLY ADJUSTABLE TO MEET JOB CONDITIONS.

1.3 OA TERMINAL UNIT SHALL INCLUDE AN AIRFLOW SENSOR FOR CALCULATING CFM, AND A DISCHARGE AIR TEMPERATURE SENSOR.

1.4 EXTEND 24 VOLT POWER TO THE TERMINAL BOX CONTROLLER FROM THE NEW DDC CONTROL PANEL.

1.5 COORDINATE AND ADJUST OCCUPANCY SCHEDULES AND TEMPERATURE RANGE WITH C.O.R.



OA VVR TERMINAL CONTROLS

REFER TO FLOOR PLANS FOR NEW BUILDING CONTROLLER LOCATIONS.

2-PIPE FAN-COIL CONTROL SEQUENCE

1. GENERAL

1.1. FAN COIL UNIT SHALL BE STARTED AND STOPPED BY THE DCP OR REMOTELY AT THE ECC. H-O-A SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" POSITIONS SHALL BE USED ONLY FOR MAINTENANCE.

1.2. WHEN FAN COIL UNIT IS "OFF" FOR ANY REASON, OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED, AND SUPPLY FAN SHALL BE OFF. WHEN THE UNIT IS "ON", OUTSIDE AIR DAMPER SHALL BE OPEN, AND SUPPLY FAN SHALL START.

1.3. EXTEND 24 VOLT POWER TO THE FAN COIL UNIT CONTROLLER FROM THE NEW DDC PANEL.

1.4 PROVIDE SCHEDULED NIGHT SET-BACK CONTROL TO AFFORD CONTINUOUS FAN OPERATION DURING THE OCCUPIED PERIOD AND CYCLED FAN OPERATION TO MAINTAIN REDUCED TEMPERATURE IN THE UNOCCUPIED PERIOD.

1.5 COORDINATE AND ADJUST OCCUPANCY SCHEDULES AND TEMPERATURE RANGE WITH COTR.

2. TEMPERATURE CONTROL

2.1. SUPPLY AIR TEMPERATURE, AS SENSED BY T2, SHALL BE MAINTAINED AT SETPOINT OF 54 DEG. F. (ADJUSTABLE) VIA DCP BY MODULATING COOLING COIL VALVE V1.

2.2. WHEN ROOM TEMPERATURE AT T1 IS ABOVE SETPOINT, VALVE V1 SHALL MODULATE OPEN TO THE COIL TO MAINTAIN TEMPERATURE SETPOINT.

2.3. WHEN ROOM TEMPERATURE AT T1 IS BELOW SETPOINT, CHILLED WATER VALVE V1 SHALL MODULATE CLOSED TO THE COIL.

2.4 WHEN ROOM TEMPERATURE AT T1 IS BELOW SETPOINT, THE CONVECTOR VALVE V2 SHALL MODULATE OPEN TO MAINTAIN ROOM SETPOINT.

3. ROOM TEMPERATURE CONTROL

3.1 THE ROOM TEMPERATURE SETPOINTS ARE SOFTWARE POINTS THAT SHALL BE ADJUSTABLE VIA THE FRONT-END SOFTWARE. THE HEATING SETPOINT SHALL BE 70 DEG. F AND THE COOLING SETPOINT IS 75 DEG. F. THE SETPOINT ADJUSTMENT AT THE THERMOSTAT SHALL ADJUST THE ROOM SETPOINT PLUS OR MINUS 2 DEG. F (ADJUSTABLE THEN SOFTWARE) FROM THE HEATING AND COOLING SETPOINT. THE TEMPERATURES BETWEEN THE HEATING AND COOLING SETPOINT IS THE DEAD BAND AND THE UNIT WILL OPERATE IN THE VENTILATION MODE.

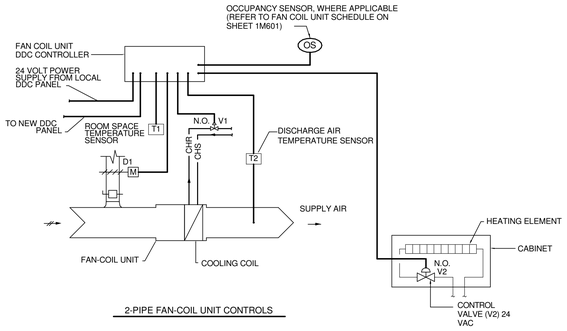
4. UNOCCUPIED CONTROL

4.1 OCCUPANCY SENSOR OS1 SHALL DETERMINE OCCUPIED/UNOCCUPIED MODES OF OPERATION. TO INVOKE UNOCCUPIED SEQUENCE (4.2 BELOW), OCCUPANCY SENSORS FOR ALL SPACES ON A GIVEN TERMINAL UNIT ZONE MUST SATISFY THIS CONDITION. EXTEND LOW VOLTAGE WIRING FROM ALL APPLICABLE OCCUPANCY SENSOR(S) TO THE TERMINAL UNIT CONTROLLER.

4.2 DURING THE UNOCCUPIED MODE OF OPERATION, THE CONTROL DAMPER ACTUATOR D1 SHALL CLOSE THE OUTSIDE AIR DAMPER.

4.3 DURING THE UNOCCUPIED MODE OF OPERATION, WHEN THE ROOM TEMPERATURE AT T1 IS BELOW THE UNOCCUPIED HEATING SETPOINT, THE CONTROL SHALL MODULATE THE CONVECTOR VALVE V2 OPEN TO MAINTAIN UNOCCUPIED HEATING SETPOINT.

4.4 DURING THE UNOCCUPIED MODE OF OPERATION, WHEN THE ROOM TEMPERATURE AT T1 IS ABOVE THE UNOCCUPIED COOLING SETPOINT, THE CONTROL SHALL CYCLE THE UNIT FAN AND MODULATE THE COILING COIL VALVE V1 UNTIL ROOM TEMPERATURE AT T1 REDUCES 2 DEGREES (ADJUSTABLE) BELOW THE UNOCCUPIED COOLING SETPOINT.



2-PIPE FAN-COIL UNIT CONTROLS

4-PIPE FAN-COIL CONTROL SEQUENCE (PART OF DEDUCT ALTERNATE #1)

1. GENERAL

1.1. FAN COIL UNIT SHALL BE STARTED AND STOPPED BY THE DCP OR REMOTELY AT THE ECC. H-O-A SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" POSITIONS SHALL BE USED ONLY FOR MAINTENANCE.

1.2. WHEN FAN COIL UNIT IS "OFF" FOR ANY REASON, OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED, AND SUPPLY FAN SHALL BE OFF. WHEN THE UNIT IS "ON", OUTSIDE AIR DAMPER SHALL BE OPEN, AND SUPPLY FAN SHALL START.

1.3. EXTEND 24 VOLT POWER TO THE FAN COIL UNIT CONTROLLER FROM THE NEW DDC PANEL.

1.4 PROVIDE SCHEDULED NIGHT SET-BACK CONTROL TO AFFORD CONTINUOUS FAN OPERATION DURING THE OCCUPIED PERIOD AND CYCLED FAN OPERATION TO MAINTAIN REDUCED TEMPERATURE IN THE UNOCCUPIED PERIOD.

1.5 COORDINATE AND ADJUST OCCUPANCY SCHEDULES AND TEMPERATURE RANGE WITH COTR.

2. TEMPERATURE CONTROL

2.1. SUPPLY AIR TEMPERATURE, AS SENSED BY T2, SHALL BE MAINTAINED AT SETPOINT OF 54 DEG. F. (ADJUSTABLE) VIA DCP BY MODULATING COOLING COIL VALVE V1 AND REHEAT COIL VALVE V2, IN SEQUENCE. SEPARATE CONTROL LOOPS SHALL BE UTILIZED FOR MECHANICAL COOLING, PREHEAT AND REHEAT FUNCTIONS.

3. ROOM TEMPERATURE CONTROL

3.1 THE ROOM TEMPERATURE SETPOINTS ARE SOFTWARE POINTS THAT SHALL BE ADJUSTABLE VIA THE FRONT-END SOFTWARE. THE HEATING SETPOINT SHALL BE 70 DEG. F AND THE COOLING SETPOINT IS 75 DEG. F. THE SETPOINT ADJUSTMENT AT THE THERMOSTAT SHALL ADJUST THE ROOM SETPOINT PLUS OR MINUS 2 DEG. F (ADJUSTABLE THEN SOFTWARE) FROM THE HEATING AND COOLING SETPOINT. THE TEMPERATURES BETWEEN THE HEATING AND COOLING SETPOINT IS THE DEAD BAND AND THE UNIT WILL OPERATE IN THE VENTILATION MODE.

BELOW 65ºF OUTSIDE AIR TEMPERATURE THE UNIT DISCHARGE AIR TEMPERATURE WILL BE LIMITED AND WILL HAVE A 55 DEG. F LOW LIMIT AND RESET UP TO 95 DEG. F AS REQUIRED TO MAINTAIN THE DESIRED ROOM SETPOINT. THE DISCHARGE AIR TEMPERATURE CONTROL SHALL HAVE A DEAD BAND OF 2 DEG. F.

ABOVE 65ºF OUTSIDE AIR TEMPERATURE THE CONTROLS SHALL MODULATE THE HEATING OR COOLING VALVE TO SATISFY THE SPACE TEMPERATURE SETPOINT.

ALL CONTROL SETPOINTS ARE FULLY ADJUSTABLE TO MEET JOB CONDITIONS

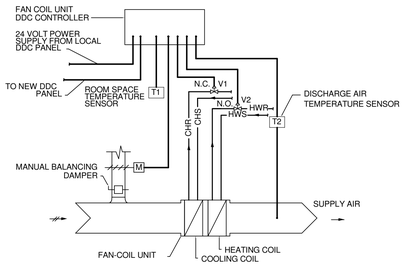
4. UNOCCUPIED CONTROL

4.1 OCCUPANCY SENSOR OS1 SHALL DETERMINE OCCUPIED/UNOCCUPIED MODES OF OPERATION. TO INVOKE UNOCCUPIED SEQUENCE (4.2 BELOW), OCCUPANCY SENSORS FOR ALL SPACES ON A GIVEN TERMINAL UNIT ZONE MUST SATISFY THIS CONDITION. EXTEND LOW VOLTAGE WIRING FROM ALL APPLICABLE OCCUPANCY SENSOR(S) TO THE TERMINAL UNIT CONTROLLER.

4.2 DURING THE UNOCCUPIED MODE OF OPERATION, THE CONTROL DAMPER ACTUATOR D1 SHALL CLOSE THE OUTSIDE AIR DAMPER.

4.3 DURING THE UNOCCUPIED MODE OF OPERATION, WHEN THE ROOM TEMPERATURE AT T1 IS BELOW THE UNOCCUPIED HEATING SETPOINT, THE CONTROL SHALL CYCLE THE UNIT FAN AND MODULATE THE HEATING COIL VALVE V2 UNTIL ROOM TEMPERATURE AT T1 RISES 2 DEGREES (ADJUSTABLE) ABOVE THE UNOCCUPIED COOLING SETPOINT.

4.4 DURING THE UNOCCUPIED MODE OF OPERATION, WHEN THE ROOM TEMPERATURE AT T1 IS ABOVE THE UNOCCUPIED COOLING SETPOINT, THE CONTROL SHALL CYCLE THE UNIT FAN AND MODULATE THE COILING COIL VALVE V1 UNTIL ROOM TEMPERATURE AT T1 REDUCES 2 DEGREES (ADJUSTABLE) BELOW THE UNOCCUPIED COOLING SETPOINT.



4-PIPE FAN-COIL UNIT CONTROLS

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: CONTROLS AND AUTOMATION

Approved: Project Director

Project Title: RENOVATE PULMONARY / SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: DLE | Drawn: PCW

Project No. VA Project No. 539-13-102 JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1M701

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Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES

A REFER TO SHEET 1M001 FOR LEGEND, SCHEDULES AND DRAWING INDEX.

PLAN NOTES

1 REMOVE STEAM CONVECTOR CABINET. EXISTING STEAM CONVECTOR HEATING ELEMENT AND PIPING TO REMAIN. REMOVE EXISTING THERMOSTATIC CONTROL VALVE FOR REPLACEMENT IN NEW WORK.

2 EXISTING PIPING TO REMAIN.

3 EXISTING DUCTWORK TO REMAIN.

4 REMOVE EXISTING INDUCTION UNIT ALONG WITH ALL ASSOCIATED HANGERS, MOUNTING ACCESSORIES, WIRING, TUBING, ETC. REMOVE ASSOCIATED VENTILATION DUCT, CHILLED WATER PIPING AND DRAIN PIPING. CAP BELOW FLOOR LEVEL.

5 REMOVE EXISTING AIR TERMINAL UNIT AND ASSOCIATED PIPING, DUCTWORK, CONTROLS, ETC.

6 REMOVE EXISTING AIR DEVICE AND ASSOCIATED BRANCH DUCTWORK.

7 REMOVE EXISTING DUCTWORK BACK TO THIS POINT FOR RECONNECTION IN NEW WORK.

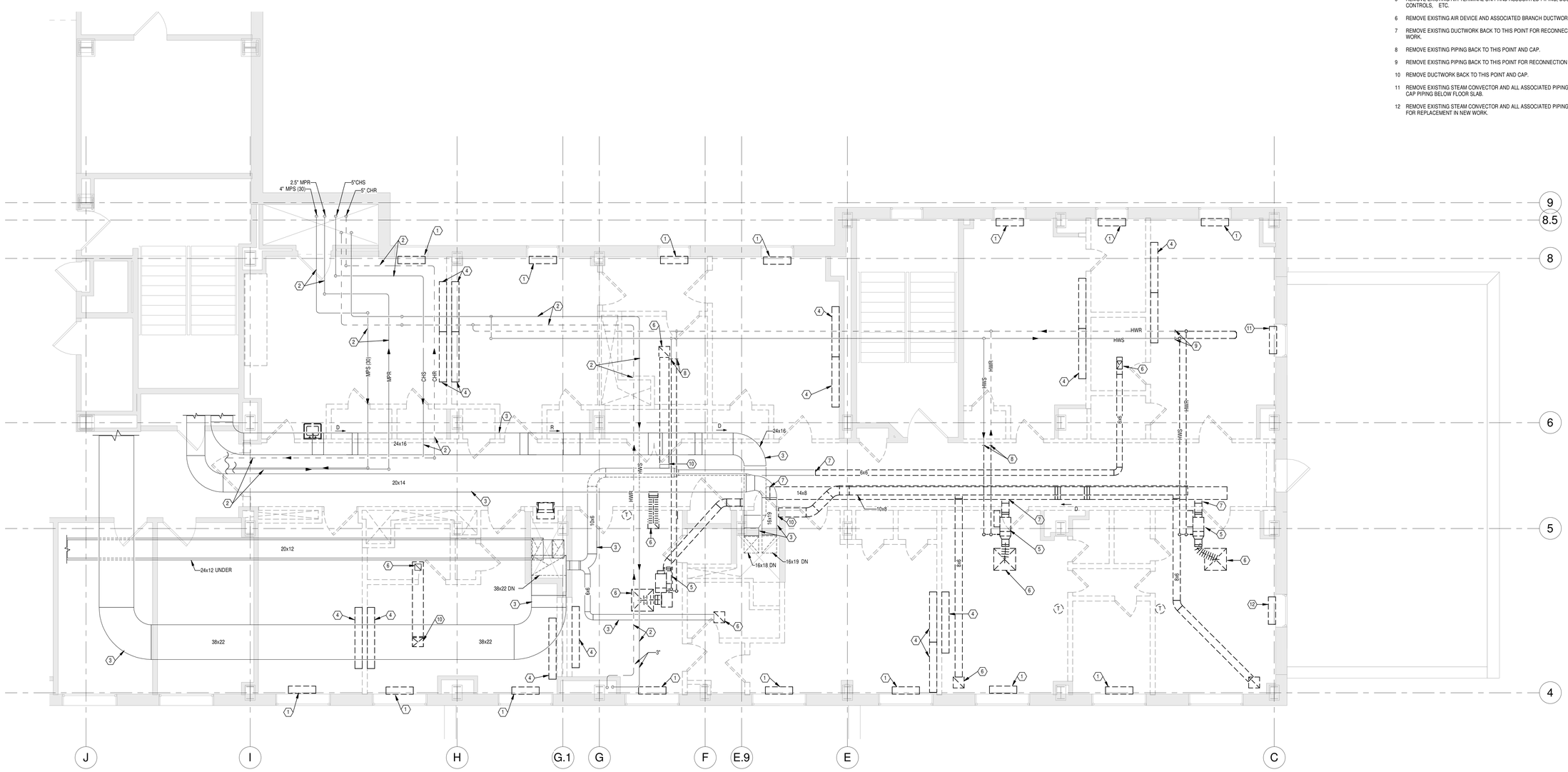
8 REMOVE EXISTING PIPING BACK TO THIS POINT AND CAP.

9 REMOVE EXISTING PIPING BACK TO THIS POINT FOR RECONNECTION IN NEW WORK.

10 REMOVE DUCTWORK BACK TO THIS POINT AND CAP.

11 REMOVE EXISTING STEAM CONVECTOR AND ALL ASSOCIATED PIPING, CONTROLS, ETC. CAP PIPING BELOW FLOOR SLAB.

12 REMOVE EXISTING STEAM CONVECTOR AND ALL ASSOCIATED PIPING, CONTROLS, ETC. FOR REPLACEMENT IN NEW WORK.



N 1 PARTIAL NINTH FLOOR PLAN

Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: PARTIAL NINTH FLOOR PLAN - REMOVALS

Approved: Project Director

Project Title: RENOVATE PULMONARY / SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: DLE | Drawn: PCW

Project No. VA Project No. 539-13-102 JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1MD101

Dwg. of

Office of Construction and Facilities Management

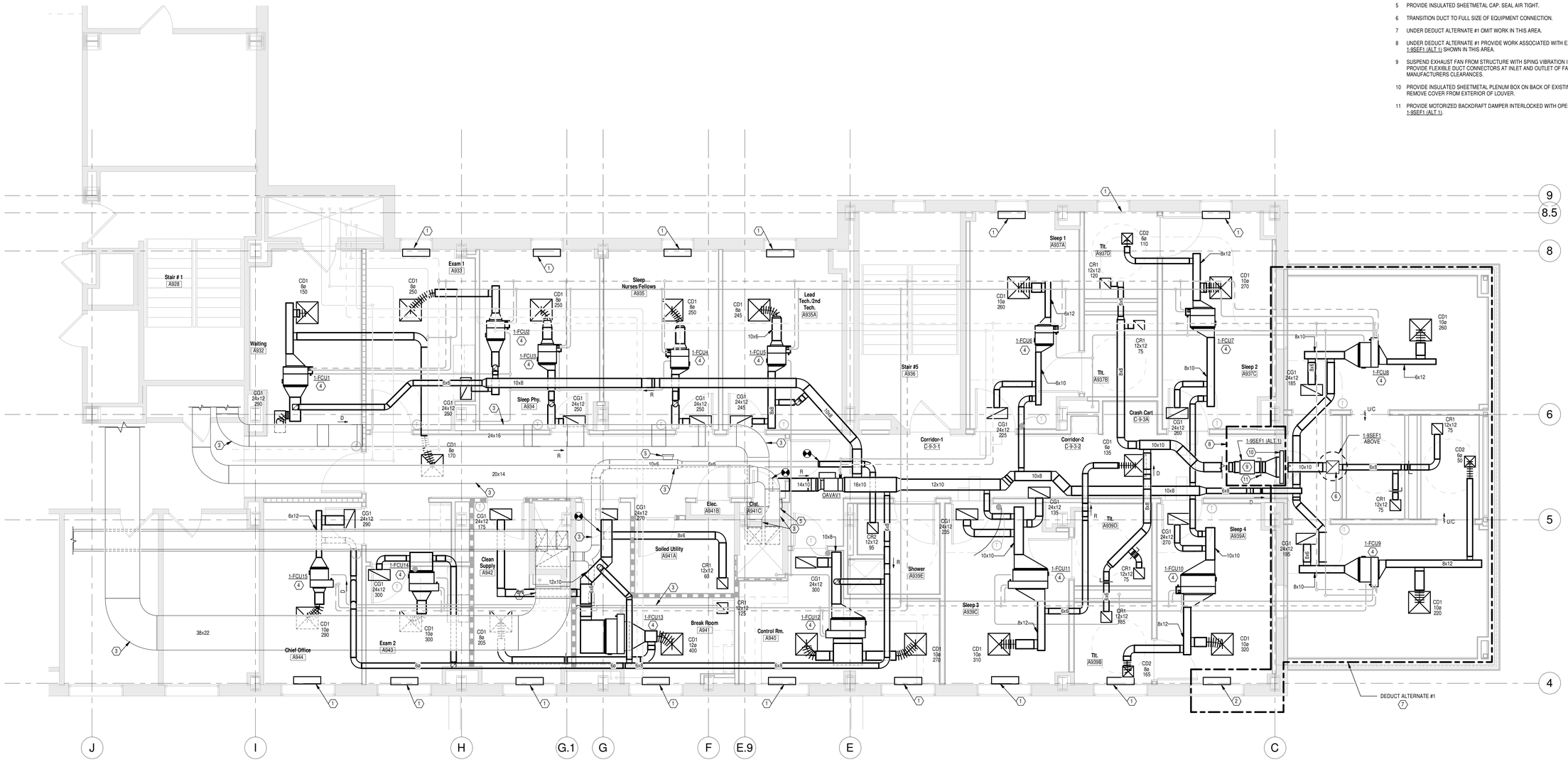
Department of Veterans Affairs

GENERAL NOTES

A REFER TO SHEET 1M001 FOR LEGEND, SCHEDULES AND DRAWING INDEX.

PLAN NOTES

1. PROVIDE NEW COVER FOR STEAM CONVECTOR. EXTEND CABINET TO CONCEAL PIPING. EXISTING CONVECTOR HEATING ELEMENT AND PIPING TO REMAIN.
2. RELOCATE EXISTING STEAM CONVECTOR TO THIS APPROXIMATE LOCATION. EXTEND PIPING UP FROM EIGHTH FLOOR BELOW.
3. EXISTING DUCTWORK TO REMAIN.
4. SUSPEND FAN COIL FROM STRUCTURE WITH SPRING VIBRATION ISOLATORS. PROVIDE FLEXIBLE DUCT CONNECTORS AT INLET AND OUTLET OF FAN COIL. MAINTAIN ALL MANUFACTURES RECOMMENDED SERVICE CLEARANCES. TRANSITION DUCTS TO FULL SIZE OF EQUIPMENT CONNECTION.
5. PROVIDE INSULATED SHEETMETAL CAP. SEAL AIR TIGHT.
6. TRANSITION DUCT TO FULL SIZE OF EQUIPMENT CONNECTION.
7. UNDER DEDUCT ALTERNATE #1 OMIT WORK IN THIS AREA.
8. UNDER DEDUCT ALTERNATE #1 PROVIDE WORK ASSOCIATED WITH EXHAUST FAN 1-9SEF1 (ALT 1) SHOWN IN THIS AREA.
9. SUSPEND EXHAUST FAN FROM STRUCTURE WITH SPING VIBRATION ISOLATORS. PROVIDE FLEXIBLE DUCT CONNECTORS AT INLET AND OUTLET OF FAN. MAINTAIN ALL MANUFACTURERS CLEARANCES.
10. PROVIDE INSULATED SHEETMETAL PLENUM BOX ON BACK OF EXISTING LOUVER. REMOVE COVER FROM EXTERIOR OF LOUVER.
11. PROVIDE MOTORIZED BACKDRAFT DAMPER INTERLOCKED WITH OPERATION OF 1-9SEF1 (ALT 1).



N 1 PARTIAL NINTH FLOOR PLAN

Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

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Drawing Title: PARTIAL NINTH FLOOR PLAN - NEW WORK - DUCTWORK

Approved: Project Director

Project Title: RENOVATE PULMONARY / SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: DLE | Drawn: PCW

Project No. VA Project No. 539-13-102 JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1MH101

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES

A REFER TO SHEET 1M001 FOR LEGEND, SCHEDULES AND DRAWING INDEX.

PLAN NOTES

1 PROVIDE NEW DDC CONTROL VALVE, ACTUATOR, WIRING BACK TO FAN COIL CONTROLLER, ETC.

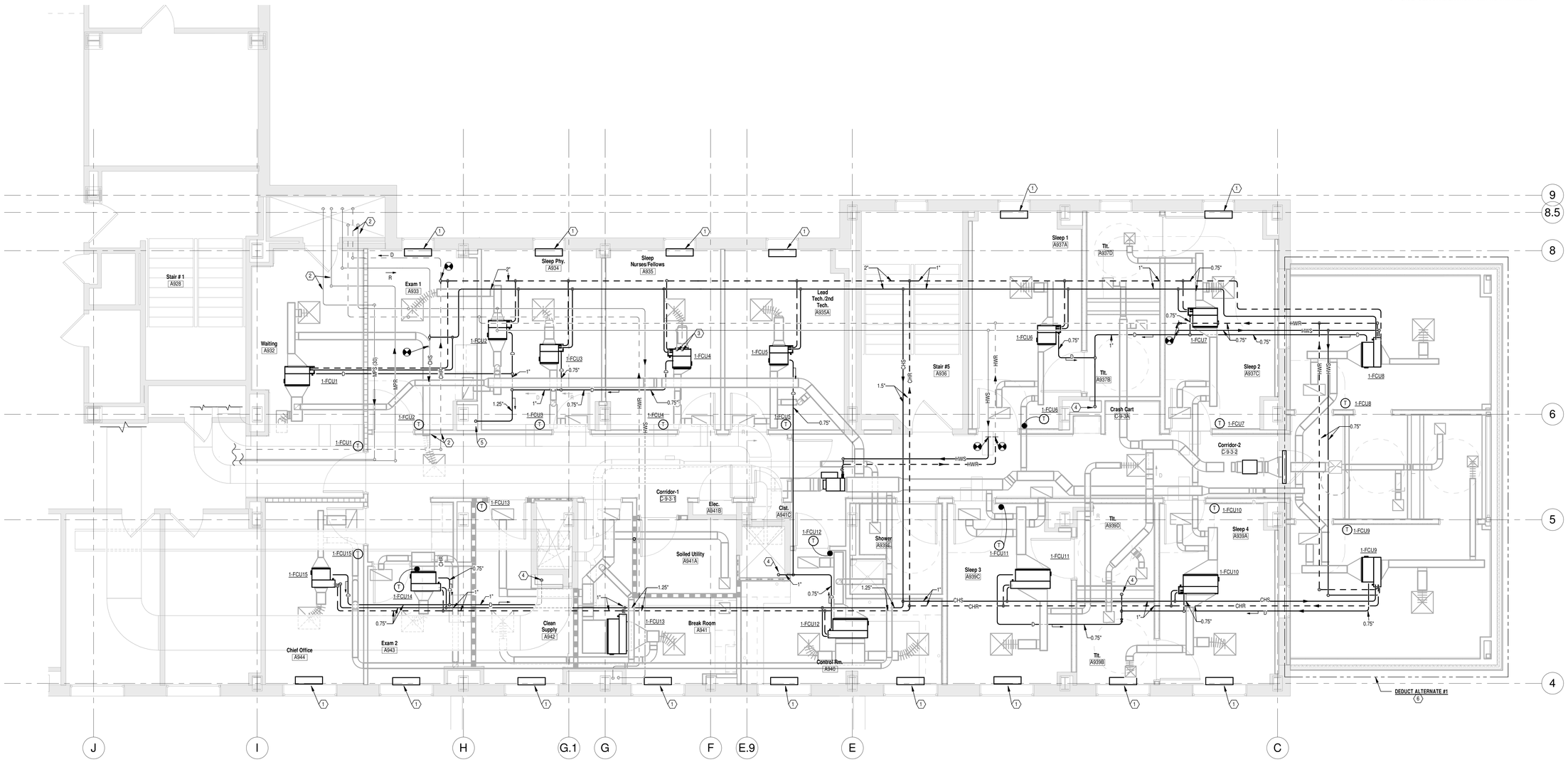
2 EXISTING PIPING TO REMAIN.

3 CAP PIPING.

4 DROP 1" DRAIN PIPE DOWN TO EIGHTH FLOOR . CONNECT TO EXISTING INDUCTION UNIT DRAIN SYSTEM.

5 DROP 1.25" DRAIN PIPE DOWN TO EIGHTH FLOOR. CONNECT TO EXISTING INDUCTION UNIT DRAIN SYSTEM.

6 UNDER DEDUCT ALTERNATE #1, OMIT WORK IN THIS AREA.



N 1 PARTIAL NINTH FLOOR PLAN

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Drawing Title: PARTIAL NINTH FLOOR PLAN - NEW WORK - PIPING

Approved: Project Director

Project Title: RENOVATE PULMONARY / SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: DLE | Drawn: PCW

Project No. VA Project No. 539-13-102 JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1MP101

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Office of Construction and Facilities Management

Department of Veterans Affairs

TECHNOLOGY SYMBOLS

CM X	WALL MOUNTED MONITOR OUTLET FOR CCTV SYSTEM (84" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH 1" CONDUIT TO ABOVE CORRIDOR CEILING, JACK, FACEPLATE AND CABLING.
CR	WALL MOUNTED COMBO PROXIMITY CARD READER/KEYPAD (46" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING, READER AND CABLING. REFER TO SECURITY ROUGH-IN DETAILS.
DM	DOOR POSITION SWITCH WITH WIRING. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING. PROVIDE ONE CONTACT FOR EACH LEAF IN MULTI-DOOR OPENINGS. REFER TO SECURITY ROUGH-IN DETAILS.
EL	ELECTRONIC DOOR LOCK AND INSTALLATION. LOW VOLTAGE WIRING. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING. REFER TO SECURITY ROUGH-IN DETAILS.
EM	ELECTRONIC MAG LOCK AND INSTALLATION. LOW VOLTAGE WIRING. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING. REFER TO SECURITY ROUGH-IN DETAILS.
ES	ELECTRONIC STRIKE AND INSTALLATION. LOW VOLTAGE WIRING. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING. REFER TO SECURITY ROUGH-IN DETAILS.
IC	AIPHONE LE-D INTERCOM STATION.
JB	SECURITY SYSTEM JUNCTION BOX TO BE LOCATED ABOVE ACCESSIBLE CEILING (MIN 6"X6"X4"). ROUTE LOCAL DOOR SECURITY WIRING CONDUITS/RACEWAYS TO JUNCTION BOX. EXTEND 1" CONDUIT WITH DOOR SECURITY WIRING TO LOCAL 2-DOOR CONTROL PANEL/REMOTE DOOR CONTROL PANEL AS INDICATED ON DRAWINGS. REFER TO SECURITY ROUGH-IN DETAILS.
MIC	CEILING MOUNTED OMNI DIRECTIONAL MIC BY VA. PROVIDE 1-GANG PLATE WITH F-XLR, WIRING AND INSTALLATION.
RX	REQUEST TO EXIT SWITCH IN DOOR HARDWARE. LOW VOLTAGE WIRING. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING. REFER TO SECURITY ROUGH-IN DETAILS. SUBSCRIPT "M" INDICATES REX MOTION ABOVE DOOR INCLUDING 1-GANG BOX AND CONDUIT.
CC	CEILING MOUNTED CAMERA WITH PTZ LENS BY VA, PROVIDE WIRING AND INSTALLATION.
IM 1/3	AIPHONE LEM-3 INTERCOM BASESTATION. NUMERALS INDICATE CONNECTED REMOTE SSTATIONS.
IC 46" MH	AIPHONE LE-A WALL MOUNTED ROOM STATION WITH 1-GANG BOX, 46" MH, 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING, WIRING. NUMERALS INDICATES CONNECTED BASE STATION.
	CONDUIT SLEEVE / FIRE RATED SLEEVE ASSEMBLY THRU WALL (1-2" SLEEVE UNLESS NOTED OTHERWISE).
AP	EXISTING CEILING MOUNTED WIRELESS ACCESS POINT TO BE REMOVED DURING CONSTRUCTION AND RE-INSTALLED IN NEW CEILING.
CO	WALL MOUNTED VOICE/DATA OUTLET (18" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT(S) TO ABOVE CORRIDOR CEILING, JACKS, FACEPLATE AND CABLE. REFER TO FACEPLATE DETAILS.
P	WALL MOUNTED PHONE OUTLET (46" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING, JACKS, FACEPLATE AND CABLE. REFER TO FACEPLATE DETAILS.
D	2-CAT 5E STP OUTLET, 1-GANG BOX WITH 1" C. TO A.A.C.
A	CUSTOM LAB OUTLET. 2-CAT 5E STP, 1-3.5 MM AUDIO, 1-RCA VIDEO, 2-GANG DEEP BOX WITH 2-1" C. TO A.A.C. 2-GANG ENGRAVED S.S. FACEPLATE.
B	CUSTOM LAB OUTLET. 2-GANG DEEP BOX WITH 2-1" C. TO DIAMOND "I" C ABOVE. 2-GANG GROMMETED S.S. FACEPLATE.
C	SYSTEMS WIRING OUTLET, 60" MH, PROVIDE 2-1" CONDUIT TO ABOVE ACCESSIBLE CEILING, PROVIDE 2-1" CONDUIT DOWN TO LOW SYSTEMS BOX. REFER TO DRAWINGS FOR ADDITIONAL DETAIL.
D B	WALL MOUNTED MULTI-DOOR CHIME. REFER TO DRAWINGS FOR ADDITIONAL DETAILS. 96" MH, 1-GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING.
SC	CEILING MOUNTED PAGING/INTECOM SYSTEM SPEAKER.
IR	CEILING MOUNTED IR ILLUMINATOR BY VA, PROVIDE WIRING AND INSTALLATION.

GENERAL FLOOR PLAN NOTES

B / E2	DETAIL: B = DETAIL DESIGNATION E2 = SHEET WHERE DETAIL IS LOCATED
1 / E2	SECTION: 1 = SECTION DESIGNATION E2 = SHEET WHERE DETAIL IS LOCATED
3	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN.
3	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
	CABLE TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
	WIRE & CONDUIT IN WALL OR ABOVE CEILING.
	WIRE & CONDUIT IN OR BELOW SLAB OR GRADE.
	CONDUIT TO BE REMOVED.
E	EXISTING WIRE & CONDUIT TO REMAIN.
DAT	CONDUIT FOR DATA CIRCUITRY.
EM	WIRE & CONDUIT FOR EMERGENCY CIRCUITRY.
FA	WIRE & CONDUIT FOR FIRE ALARM CIRCUITRY.
I	WIRE & CONDUIT FOR INTERCOM SYSTEM CIRCUITRY.
NC	WIRE & CONDUIT FOR NURSE CALL CIRCUITRY.
NL	WIRE & CONDUIT FOR NIGHT LIGHT CIRCUITRY.
PHO	CONDUIT FOR PHONE CIRCUITRY.
S	WIRE & CONDUIT FOR SOUND SYSTEM CIRCUITRY.
SEC	WIRE & CONDUIT FOR SECURITY SYSTEM CIRCUITRY.
TV	WIRE & CONDUIT FOR TELEVISION SYSTEM CIRCUITRY.
W	WIRE RUN IN SURFACE WIREWAY.
CM	CABLE MANAGEMENT SYSTEM PATHWAY.
X - 1,2	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; "X" DENOTES PANEL NAME; NUMBER(S) DENOTES CIRCUIT(S).

ELECTRICAL SYMBOLS

3	DASH SYMBOL INDICATES PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
	EXISTING OUTLET OR DEVICE TO REMAIN. MAINTAIN EXISTING CIRCUITING.
	ELECTRICAL CONNECTION.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE).
	20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE).
	SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN.
	20A-125V DOUBLE DUPLEX RECEPTACLE. NEMA 5-20R, (18" MH UNLESS NOTED OTHERWISE) TWO GANG ASSEMBLY.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R WITH BOTTOM OUTLET CONTROLLED BY WALL SWITCH. (18" MH UNLESS NOTED OTHERWISE).
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWISE).
GF	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE).
WP	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R (HORIZONTAL 18" MH UNLESS NOTED OTHERWISE) WITH TAYMAC #10310 STANDARD COVER, VERTICAL MOUNT.
WP/GF	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE). WITH TAYMAC #20310 STANDARD COVER, VERTICAL MOUNT.
EM	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, ON EMERGENCY POWER (18" MH UNLESS NOTED OTHERWISE).
	20A-125V POWERLOCK GROUNDING TYPE RECEPTACLE, HOSPITAL USE (66" MH UNLESS NOTED OTHERWISE).
	20A-125V DUPLEX PEDESTAL TYPE FLOOR RECEPTACLE, NEMA 5-20R, IN HUBBELL BA-2527 FLOOR BOX WITH SA-2525 COVERPLATE AND SC-3091 HOUSING. PROVIDE CARPET FLANGE WHERE REQUIRED.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, IN HUBBELL BA-2527 FLUSH FLOOR BOX WITH ROUND SA-3925 COVERPLATE. PROVIDE CARPET FLANGE WHERE REQUIRED.
20	20-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH ISOLATED GROUND (18" MH UNLESS NOTED OTHERWISE).
20A	20A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R (18" MH UNLESS NOTED OTHERWISE).
30A	30A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R (18" MH UNLESS NOTED OTHERWISE).
50A	50A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" MH UNLESS NOTED OTHERWISE).
20A	20A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-20R (18" MH UNLESS NOTED OTHERWISE).
30A	30A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISE).
50A	50A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-50R (18" MH UNLESS NOTED OTHERWISE).
J	JUNCTION BOX.
	MULTI-OUTLET RECEPTACLES ASSEMBLY, NEMA 5-15R (SINGLE OUTLETS ON 18" CENTERS) (46" MH UNLESS NOTED OTHERWISE).
$	SINGLE POLE SWITCH (46" MH UNLESS NOTED OTHERWISE).
2 $	TWO POLE WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
3 $	THREE-WAY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
4 $	FOUR-WAY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
P $	SWITCH WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE).
K $	KEY OPERATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
L $	LOW-VOLTAGE MOMENTARY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
DM $	LIGHTING DIMMER SWITCH (46" MH UNLESS NOTED OTHERWISE) 1000 WATTS UNLESS OTHERWISE INDICATED.
M $	FLUSH FRACTIONAL HORSEPOWER MOTOR STARTER WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE).
	ELECTRICAL PANEL OR SWITCHBOARD PER DRAWINGS.
P/B	PULL BOX.
J	DISCONNECT SWITCH.
	MOTOR STARTER.
J	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH.
	ELECTRIC MOTOR.
UH	UNIT HEATER.
FC	FAN COIL.
AC	AIR CONDITIONER.
CU	CONDENSING UNIT.
UV	UNIT VENTILATOR.
T	LINE VOLTAGE THERMOSTAT.
H DH	DUCT HEATER.
H EB	ELECTRIC BASEBOARD HEATER.
M	INTERCOM SYSTEM DESK MOUNTED MASTER CONTROL STATION. SUBSCRIPT "W" INDICATES WALL MOUNT (46" MH UNLESS NOTED OTHERWISE).
I	INTERCOM STAFF STATION (46" MH UNLESS NOTED OTHERWISE).
H	INTERCOM HORN TYPE SPEAKER (84" MH UNLESS NOTED OTHERWISE).
S	INTERCOM SPEAKER FLUSH MOUNT IN CEILING.
OS	CEILING MOUNTED OCCUPANCY SENSOR.

FIRE ALARM SYMBOLS

FACP	FIRE ALARM CONTROL PANEL.
15 F	FIRE ALARM SPEAKER & SIGNAL LIGHT (80" AFF), (# WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 75 CANDELA.
15 F	FIRE ALARM BELL & SIGNAL LIGHT (80" AFF), (# WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 75 CANDELA.
15 F	FIRE ALARM CHIME & SIGNAL LIGHT (80" AFF), (# WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 75 CANDELA.
15 F	FIRE ALARM HORN & SIGNAL LIGHT (80" AFF), (# WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 75 CANDELA.
15	FIRE ALARM SIGNALING LIGHT (80" AFF), (# WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 75 CANDELA.
S F	CEILING MOUNTED FIRE ALARM SPEAKER.
F K	FIRE ALARM MANUAL STATION (46" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "K" INDICATES KEY OPERATED.
S	CEILING MOUNTED SMOKE DETECTOR.
H	CEILING MOUNTED HEAT DETECTOR.
S S/R	DUCT MOUNTED SMOKE DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
H S/R	DUCT MOUNTED HEAT DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
C	ELECTRIC RELEASE DOOR CLOSER.
D	ELECTRO-MAGNETIC DOOR HOLDER.
FS	WATER FLOW SWITCH.
V	VALVE SUPERVISORY SWITCH.
H W	DUCT MOUNTED DETECTOR REMOTE TEST STATION AND ALARM INDICATOR LIGHT. SUBSCRIPT "W" INDICATES WALL MOUNTED.
SD	SMOKE DAMPER.
FT	FIRE FIGHTER'S TELEPHONE (60" MH UNLESS NOTED OTHERWISE).
PS	PRESSURE SWITCH.
AM I/O	ADDRESSABLE MODULE. SUBSCRIPT "I" INDICATES INPUT. SUBSCRIPT "C" INDICATES CONTROL.
PIV	POST INDICATOR VALVE.
K	KNOX BOX.

LUMINAIRE SYMBOLS

A a	LIGHTING FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
	LIGHTING FIXTURE ON NIGHT LIGHT OR EMERGENCY CIRCUIT.
	EXIT LIGHTING FIXTURE, ARROWS AS INDICATED.

NURSE CALL SYMBOLS

NCCP	NURSE CALL CONTROL PANEL.
NM W	NURSE CALL DESK MOUNTED MASTER CONTROL STATION (OUTLET AT 18" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "W" INDICATES WALL MOUNT (46" MH UNLESS NOTED OTHERWISE).
NS	NURSE CALL STAFF STATION (46" MH UNLESS NOTED OTHERWISE).
ND	NURSE CALL DUTY STATION (46" MH UNLESS NOTED OTHERWISE).
N I	NURSE CALL STATION WITH PULL CORD FOR PATIENT USE (33" MH IN TOILET ROOMS, 90" M.H. IN SHOWERS AND WET AREAS, 46" MH UNLESS NOTED OTHERWISE IN ALL OTHER AREAS).
NC	PATIENT NURSE CALL UTILITY CONSOLE (46" MH UNLESS NOTED OTHERWISE).
N	PATIENT NURSE CALL STATION (ONE OR TWO CORDS AS INDICATED, 46" MH UNLESS NOTED OTHERWISE).
	CEILING MOUNTED NURSE CALL DOME LIGHT.
H	WALL MOUNTED NURSE CALL DOME LIGHT (90" MH UNLESS NOTED OTHERWISE).
B	CEILING MOUNTED COMBINATION DOME LIGHT AND BUZZER.
Z	CEILING MOUNTED NURSE CALL ZONE LIGHT.
N E	NURSE CALL EMERGENCY BUTTON (46" MH UNLESS NOTED OTHERWISE).
N B	EMERGENCY CODE BLUE BUTTON (46" MH UNLESS NOTED OTHERWISE).

NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

ABBREVIATIONS

AAP - AREA ALARM PANEL - MEDICAL GAS
CC - ACCESS
ADJ - ADJUSTABLE
AF - ARC FAULT CIRCUIT INTERRUPTER
AFCI - ARC FAULT CIRCUIT INTERRUPTER
AFF - ABOVE FINISHED FLOOR TO BOTTOM OF ITEM
AFG - ABOVE FINISHED GRADE TO BOTTOM OF ITEM
ALT - ALTERNATE
AP - ACCESS PANEL
APPROX - APPROXIMATE
ARCH - ARCHITECT OR ARCHITECTURAL
ASSY - ASSEMBLY
ATS - AUTOMATIC TRANSFER SWITCH

BLDG - BUILDING
BOE - BOTTOM OF EQUIPMENT
BOT - BOTTOM
BTWN - BETWEEN

CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT - CIRCUIT
CLG - CEILING
CMU - CONCRETE MASONRY UNIT
CONN - CONNECT OR CONNECTION
CONTR - CONTRACTOR
CORR - CORRIDOR
CTR - CENTER

D - DEPTH
DET - DETAIL
DIA - DIAMETER
DIM - DIMENSION
DIV - DIVISION
DN - DOWN
DWG - DRAWING

EA - EACH
EC - ELECTRICAL CONTRACTOR (DIVISION 26)
EJ - EXPANSION JOINT
ELEC - ELECTRICAL
ELEV - ELEVATION OR ELEVATOR
EM - EMERGENCY
EQ - EQUAL
EQS - EQUIPMENT SUPPLIER
EQUIP - EQUIPMENT
ETR - EXISTING TO REMAIN
EX - EXISTING
EXP - EXPANSION
EXT - EXTERIOR
EX/R - EXISTING DEVICE TO BE REMOVED AND RELOCATED INTO NEW FINISH/AREA.

FCE - FIRE CONTROL EQUIPMENT
FF - FINISHED FLOOR ELEVATION
FLR - FLOOR
FSC - FIRE SUPPRESSION CONTRACTOR (DIVISION 21)
FT - FEET
FTG - FOOTING

GC - GENERAL CONTRACTOR
GF - GROUND FAULT CIRCUIT INTERRUPTER
GFCI - GROUND FAULT CIRCUIT INTERRUPTER OR GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GFFT - GROUND FAULT FEED THRU

HC - HVAC CONTRACTOR (DIVISION 23)
HP - HORSE POWER OR HIGH POINT
HVAC - HEATING, VENTILATING, AND AIR CONDITIONING

ID - INSIDE DIAMETER
IN - INCHES

KEC - KITCHEN EQUIPMENT CONTRACTOR

L - LENGTH
LBS - POUNDS

MAP - MASTER ALARM PANEL (MEDICAL GAS)
MAX - MAXIMUM
MEZZ - MEZZANINE
MFR - MANUFACTURER
MH - MANHOLE OR MOUNTING HEIGHT TO CENTER LINE OF ITEM
MIN - MINIMUM OR MINUTE
MISC - MISCELLANEOUS
MTD - MOUNTED
MTG - MOUNTING

N/C - NOT IN CONTRACT
NOM - NOMINAL
NTS - NOT TO SCALE

OD - OUTSIDE DIAMETER
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED

PC - PLUMBING CONTRACTOR (DIVISION 22)
PLBG - PLUMBING

RAD - RADIUS
REC - RECESSED
REQD - REQUIRED
RI - ROUGH-IN

S - SURFACE MOUNTED
SC - SECURITY CONTRACTOR
SCH - SCHEDULE
SHT - SHEET
SMS - SECURITY MANAGEMENT SYSTEM
SPEC - SPECIFICATIONS
SQ - SQUARE
SS - STAINLESS STEEL
STD - STANDARD
STRUC - STRUCTURAL OR STRUCTURE
SUC - SITE UTILITY CONTRACTOR

TC - TECHNOLOGY CONTRACTOR
TEMP - TEMPERATURE
TOE - TOP OF EQUIPMENT
TYP - TYPICAL

UNO - UNLESS NOTED OTHERWISE

VFD - VARIABLE FREQUENCY DRIVE
VOL - VOLUME

W - WITH
W/O - WITHOUT
WP - WEATHERPRPOOF

ZVC - ZONE VALVE CABINET

ELECTRICAL GENERAL NOTES

A. THESE NOTES APPLY EQUALLY TO THE FULL SET OF DOCUMENTS.
B. SITE VISIT(S) SHALL BE AS OUTLINED IN PROJECT SPECIFICATIONS.
C. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
D. WHERE ROOFING WORK IS REQUIRED, THE EXISTING ROOFING MEMBRANE AND INSULATION SHALL BE CUT, REMOVED AND RESTORED AS REQUIRED TO ATTAIN A WATERTIGHT CONDITION. THE ROOFING SUB-CONTRACTOR SHALL BE A CERTIFIED INSTALLER FOR SUCH INSTALLATION TO MAINTAIN THE EXISTING WARRANTY ON THE ROOF.
E. THE CONTRACTORS SHALL REFER TO ALL SPECIFICATION SECTIONS AND THESE DRAWINGS FOR DETAILS OF BUILDING CONSTRUCTION TO ENSURE SPACE AND SATISFACTORY ARRANGEMENT FOR THEIR WORK. THE VARIOUS DRAWINGS COMPRISING THE SET ARE INTERDEPENDENT AND MUST BE USED JOINTLY AT ALL TIMES. EACH CONTRACTOR SHALL REFER TO THE GENERAL REQUIREMENTS OF THE CONTRACT. THE NOTES AND SYMBOLS INDICATED ON THE DRAWINGS ARE FOR THE GUIDANCE OF ALL TRADES INVOLVED IN THE PROJECT AND MUST BE FOLLOWED TO EXECUTE THE WORK AS INTENDED. IF DISCREPANCIES OCCUR, CONTACT THE PROJECT ENGINEER THRU THE CONTRACTING OFFICER FOR CLARIFICATION BEFORE PROCEEDING.
F. ALL WORK MUST BE COORDINATED WITH THE CONTRACTING OFFICER AND PROJECT ENGINEER TO MAINTAIN OPERATION OF THE EXISTING FACILITY.
G. ALL WORK SHALL BE PERFORMED IN COMPLETE COMPLIANCE WITH ALL CURRENT GOVERNING CODES AND STANDARDS.
H. EXISTING CONDITIONS SHOWN HAVE BEEN BASED UPON AVAILABLE DRAWING INFORMATION, AND MAY BE AT VARIANCE WITH ACTUAL WORK IN PLACE. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND FIELD VERIFY ALL CONDITIONS AFFECTING THE EXECUTION OF THE WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE WORK SHOWN ON THE CONTRACT DOCUMENTS WHICH MAY IMPACT THE PROGRESS OF THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER IN WRITING FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
I. REFER TO ARCHITECTURAL FIRE-RATED PARTITION PLAN(S) FOR LOCATIONS AND FIRE-RATINGS OF NEW AND EXISTING WALL ASSEMBLIES. ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE PROTECTED AND/OR FIRE-STOPPED AS REQUIRED TO MAINTAIN FIRE-RATINGS INDICATED. COORDINATE WITH ALL TRADES TO ENSURE FIRE-RATED PENETRATION REQUIREMENTS AND DETAILS ARE MET.
J. ANNULAR SPACE OF ALL PIPE, CONDUIT, DUCT & OTHER SIMILAR PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. IN ADDITION, PENETRATIONS THROUGH 0-HOUR RATED WALLS & FLOORS SHALL BE FIRESTOPPED TO RETARD PASSAGE OF FIRE & SMOKE.
K. ALL CONDUITS IN FINISHED ROOMS, CORRIDORS, ETC. SHALL BE CONCEALED IN A WALL OR ABOVE CEILING.
L. ACCESS PANELS IN NON ACCESSIBLE CEILINGS SHALL BE PROVIDED FOR ALL ELECTRICAL ITEMS REQUIRING ACCESS.
M. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTS, SPEAKERS, NURSE CALL DEVICES, ETC.
N. ALL CUTTING AND PATCHING REQUIRED FOR THIS PROJECT SHALL BE INCLUDED IN THE CONTRACT. REFINISH ANY SURFACE DISTURBED UNDER THIS WORK TO MATCH EXISTING.
O. ANY REMOVED EQUIPMENT SHALL BE TURNED OVER TO THE VA. ITEMS NOT DESIRED BY THE VA SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF PROPERLY BY THE CONTRACTOR.
P. THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW EVERY VERTICAL OR HORIZONTAL OFFSET WHICH MAY BE NECESSARY TO COMPLETE THE SYSTEMS. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY AND DIFFICULTIES WHICH CAN BE ANTICIPATED.
Q. ALL ABANDONED EXTRANEOUS CONDUITS, WIRING, DEVICES, ETC. SHALL BE REMOVED.
R. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION CONCERNING MECHANICAL EQUIPMENT THAT REQUIRES ELECTRICAL CONNECTIONS.

DRAWING INDEX

SHEET	DESCRIPTION
1E001	SYMBOLS
1ED101	PARTIAL NINTH FLOOR PLAN - REMOVALS
1EL101	PARTIAL NINTH FLOOR PLANS - LIGHTING
1EP101	PARTIAL NINTH FLOOR PLAN - POWER
1ET101	PARTIAL NINTH FLOOR PLAN - SIGNALS
1ET102	PARTIAL NINTH FLOOR ROOF PLAN
1E501	LIGHTING FIXTURE DESCRIPTIONS
1E502	TECHNOLOGY DETAILS

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: SYMBOLS

Approved: Project Director

Project Title: RENOVATE PULMONARY / SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: MSG | Drawn: JAS

Project No.
VA Project No. 539-13-102
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Building Number: 1

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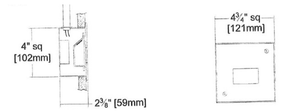


VANDAL RESISTANT RECESSED LED NIGHTLIGHT.

HOUSING: 4"x4"x2 STANDARD U.L. LISTED 2-GANG GALVANIZED STEEL OUTLET BOX.

LAMP: LED, 4.4 WATTS

DRIVER: HPF ELECTRONIC TYPE, 120VAC.

FINISH: HOUSING TO BE BAKED WHITE ENAMEL OVER A MULTI-STAGE CORROSION RESISTANT PRIMER. ALL OTHER METAL PARTS TO BE NON-CORROSIVE.

LOCATION: MOUNT AT 1'-6" AFF UNLESS OTHERWISE NOTED.

RECESSED NIGHT LIGHT

E / W3

SPECIFICATION GRADE RECESSED FLUORESCENT LIGHTING TROFFER WITH LUMINOUS HIGH EFFICIENCY LENS PANELS, NOMINAL 2' X 4' IN SIZE AND APPROXIMATELY 4.5 INCHES DEEP.

HOUSING: DIE FORMED AND EMBOSSED CODE GAUGE STEEL. END CAPS HINGED AND SCREWED TO HOUSING FOR RIGIDITY. DESIGNED FOR INSTALLATION IN CEILING TYPE SHOWN ON ARCHITECTURAL DRAWINGS. INTEGRAL T-BAR CLIPS. HARDWARE FOR MINIMUM 4 POINTS OF SUPPORT. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING.

OPTICS: HIGH TRANSMISSION EXTRUDED ACRYLIC. S/MH 1.2, 86% EFFICIENCY MIN.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND SOFT NON-GLARE HIGH REFLECTANCE POWDER COAT.

DOOR: FLUSH FRAME-LESS HINGED DOOR WITH INCONSPICUOUS CAM ACTION LATCHES.

LAMPS: TWO RAPID START 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

VARIATIONS:

EF1a: TWO LAMP FIXTURE WITH PROGRAMMED RAPID START STEP DIMMING BALLAST.

EF1b: 2'x2' FIXTURE WITH TWO 17W T8 LAMPS.

RECESSED FLUORESCENT FIXTURE

E / F1

SPECIFICATION GRADE RECESSED FLUORESCENT LIGHTING TROFFER WITH FLAT LOW-BRIGHTNESS LENS PANEL, NOMINAL 2' X 4' IN SIZE AND APPROXIMATELY 4.25 INCHES DEEP.

HOUSING: DIE FORMED AND EMBOSSED CODE GAUGE STEEL. END CAPS HINGED AND SCREWED TO HOUSING FOR RIGIDITY. DESIGNED FOR INSTALLATION IN CEILING TYPE SHOWN ON ARCHITECTURAL DRAWINGS. INTEGRAL T-BAR CLIPS. HARDWARE FOR MINIMUM 4 POINTS OF SUPPORT. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING.

REFLECTOR: HIGH REFLECTANCE BAKED WHITE ENAMEL AND SPECULAR SILVER INSERT.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND HIGH REFLECTANCE BAKED WHITE ENAMEL.

SHIELDING: 100% PRISMATIC VIRGIN ACRYLIC, PATTERN 12, .125" THICK (NOMINAL). FLUSH DOOR WITH MITRED CORNERS, INCONSPICUOUS CAM ACTION LATCHES.

LAMPS: RAPID START 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

VARIATIONS:

EF2: TWO LAMP FIXTURE WITH ONE STANDARD BALLAST.

EF2a: TWO LAMP FIXTURE WITH PROGRAMMED RAPID START STEP DIMMING BALLAST.

EF3: THREE LAMP FIXTURE WITH TWO STANDARD BALLASTS WHERE DUAL LEVEL SWITCHING IS SHOWN ON PLANS.

EF4: THREE LAMP WET LOCATION LISTED FIXTURE WITH ALUMINUM FRAME

EF5: 2' x 2' FIXTURE WITH 2-17W T8 LAMPS.

RECESSED FLUORESCENT FIXTURE

E / Fx

HOUSING AND CANOPY: MARINE GRADE VINYL CLAD ALUMINUM.

DOOR FRAME: HINGED WITH ALUMINUM REINFORCED POLYCARBONATE SHIELD.

FINISH: WHITE

INSCRIPTION PANEL(S): RED L.E.D. 6" LETTERS

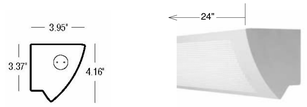
LAMPS: MULTIPLE L.E.D. LAMP ASSEMBLY WITH MINIMUM OF 20,000 HOURS LIFE.

VARIATIONS: TYPE EX2 DENOTE DOUBLE FACED FIXTURES. FURNISHED FIXTURES WITH DIRECTIONAL ARROWS WHERE SHOWN ON DRAWINGS AND WIRED FOR 120/277-VOLT OPERATION AS INDICATED.

LOCATION: CEILING MOUNT WHERE SHOWN. WALL MOUNT AT 7'-4" AFF WHERE SHOWN UNLESS OTHERWISE NOTED.

TOP MOUNTED EXIT LIGHT

E / X1



SPECIFICATION GRADE WALL MOUNTED LIGHTING FIXTURE.

HOUSING: EXTRUDED ALUMINUM HOUSING WITH PERFORATED VERTICAL CURVED FACIA. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING.

REFLECTOR: HIGH REFLECTANCE STEEL OR ALUMINUM, MIN 85% REFLECTANCE.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND WHITE BAKED ENAMEL.

LAMPS: ONE RAPID START 17W-T8 LAMP, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

LOCATION: MOUNT AT 6'-10" AFF UNLESS OTHERWISE NOTED.

FLUORESCENT VANITY FIXTURE

E / W1

SPECIFICATION GRADE LED RECESSED CLEAR LENSED DOWNLIGHT, NOMINAL 6" DIA.

HOUSING: ONE-PIECE 22 GAUGE NON-CORROSIVE STEEL PLATFORM/PLASTER FRAME AND BARS WITH INTEGRAL YOKE TO RETAIN OPTICAL SYSTEM. WHITE TRIM RING.

REFLECTOR SHALL BE SEMI-SPECULAR SILVER REFLECTOR.

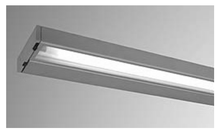
LED LIGHT ENGINE SHALL PRODUCE 50,000 HOURS AT 70% LUMEN MAINTENANCE.

LED DRIVER SHALL BE UNIVERSAL FOR 120 OR 277V OPERATION PRODUCING 2000 LUMENS PER FIXTURE.

FIXTURE SHALL COME STANDARD WITH 0-10V DIMMING CAPABILITY. FLICKER FREE DIMMING TO 10%

RECESSED LED DOWNLIGHT

E / N1



SPECIFICATION GRADE UNDER CABINET FLUORESCENT LIGHTING FIXTURE WITH FLAT STIPLED ACRYLIC LENS PANEL, NOMINAL 1.25" DP x 4.5" WIDE IN SIZE.

HOUSING: EXTRUDED ALUMINUM BODY, WIREWAY COVER AND LENS FRAME. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING. PROVIDE ROCKER SWITCH.

REFLECTOR: SPECULAR SILVER REFLECTOR.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND WHITE ANTI-MICROBIAL POLYESTER POWDER COAT PAINT.

LAMPS: 1-T8 RAPID START T5 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

VARIATIONS:

EU2: NOMINAL 24" IN LENGTH, 17W-T8 LAMP.
EU3: NOMINAL 36" IN LENGTH, 25W-T8 LAMP.
EU4: NOMINAL 48" IN LENGTH, 32W-T8 LAMP.

NOTE: COORDINATE EXACT FIXTURE LENGTH WITH DIV 01 PRIOR TO ORDERING.

UNDERCABINET LIGHT

E / Ux

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: LIGHTING FIXTURE DESCRIPTIONS

Approved: Project Director

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Date: 12/21/2012 | Checked: MSG | Drawn: JAS

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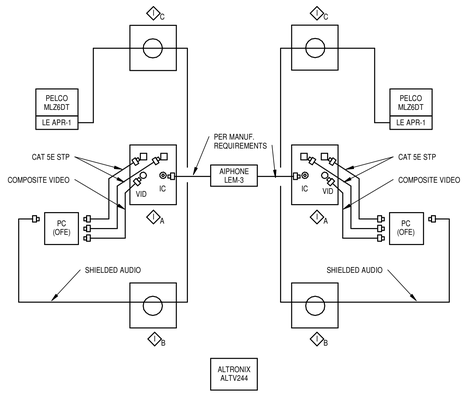
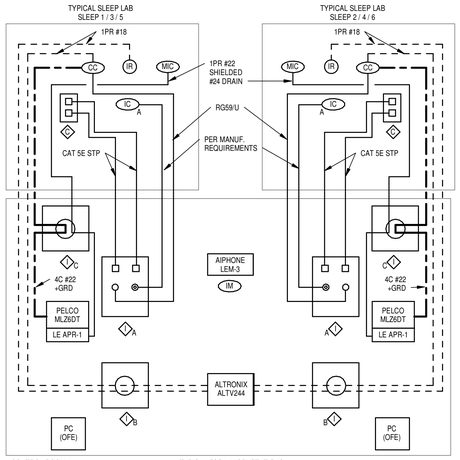
Department of Veterans Affairs

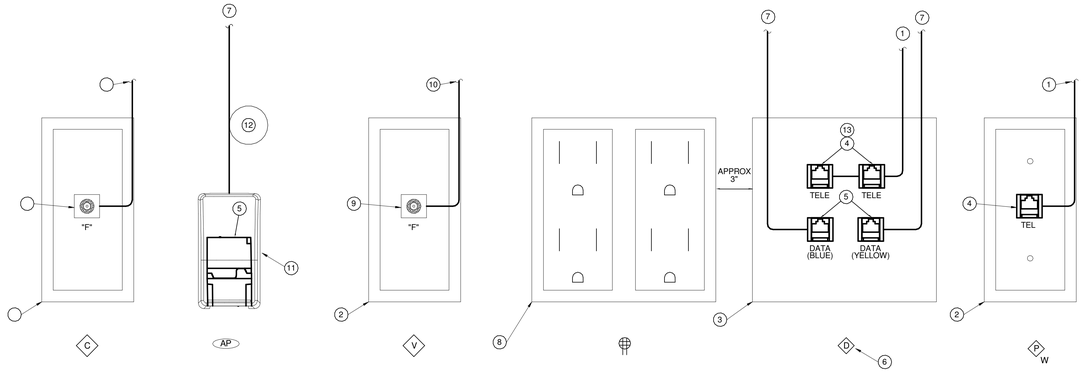


TYPICAL FOR 3 WORKSTATIONS

3 SLEEP LAB WORSTATION - CONNECTIVITY



4 SLEEP LAB WORKSTATION - FIXED WIRING



1 TECHNOLOGY OUTLET ELEVATIONS

DETAIL NOTES

1 RUN TO LOCAL VOICE STATION CABLE TERMINATION EQUIPMENT.

2 1-GANG BOX. SUBSCRIPT "W" INDICATES WALL PHONE PLATE. REFER TO LEGEND FOR M.H.

3 4" SQ., 3.5" DEEP BOX WITH 2-GANG MODULAR 4-PORT FACEPLATE.

4 UTP VOICE JACK.

5 UTP DATA JACK.

6 DEFAULT OUTLET IS 2 DATA JACKS AND 2 VOICE JACK. (2D/2V) PROVIDE ALTERNATE CONFIGURATION WHERE INDICATED ON THE DRAWINGS.

7 RUN TO LOCAL DATA STATION CABLE TERMINATION EQUIPMENT.

8 ELECTRICAL OUTLET.

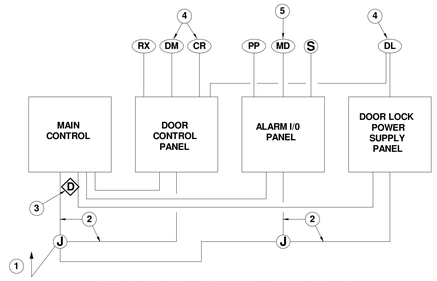
9 CATV COAXIAL TYPE "F" CONNECTOR

10 CONNECT TO LOCAL CATV DISTRIBUTION EQUIPMENT.

11 SURFACE MOUNT ASSEMBLY FOR UTP DATA JACK ABOVE CEILING FOR ACCESS POINT.

12 PROVIDE 20' SLACK CABLE IN MANAGED COIL FOR FIELD RELOCATION OF DEVICE.

13 SPLIT PAIRS BETWEEN JACKS.



NOTE: THIS DIAGRAM IS SCHEMATIC IN NATURE ONLY. IT IS INTENDED TO SHOW GENERAL CONFIGURATION OF THE SYSTEM. REFER TO DRAWINGS AND SPECIFICATIONS FOR WORK REQUIRED.

2 ACCESS CONTROL DIAGRAM

DETAIL NOTES

1 **120V-20A DEDICATED EMERGENCY CIRCUIT IN WALL MOUNTED JUNCTION BOX.**

2 **PROVIDE 120V DIRECT CONNECTION TO PANELS.**

3 **EXTEND DATA DROP INTO NEW CONTROL PANEL.**

4 **TYPICAL CONTROLLED DOOR DEVICES.**

5 **TYPICAL ALARM DEVICES.**

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: TECHNOLOGY DETAILS

Approved: Project Director

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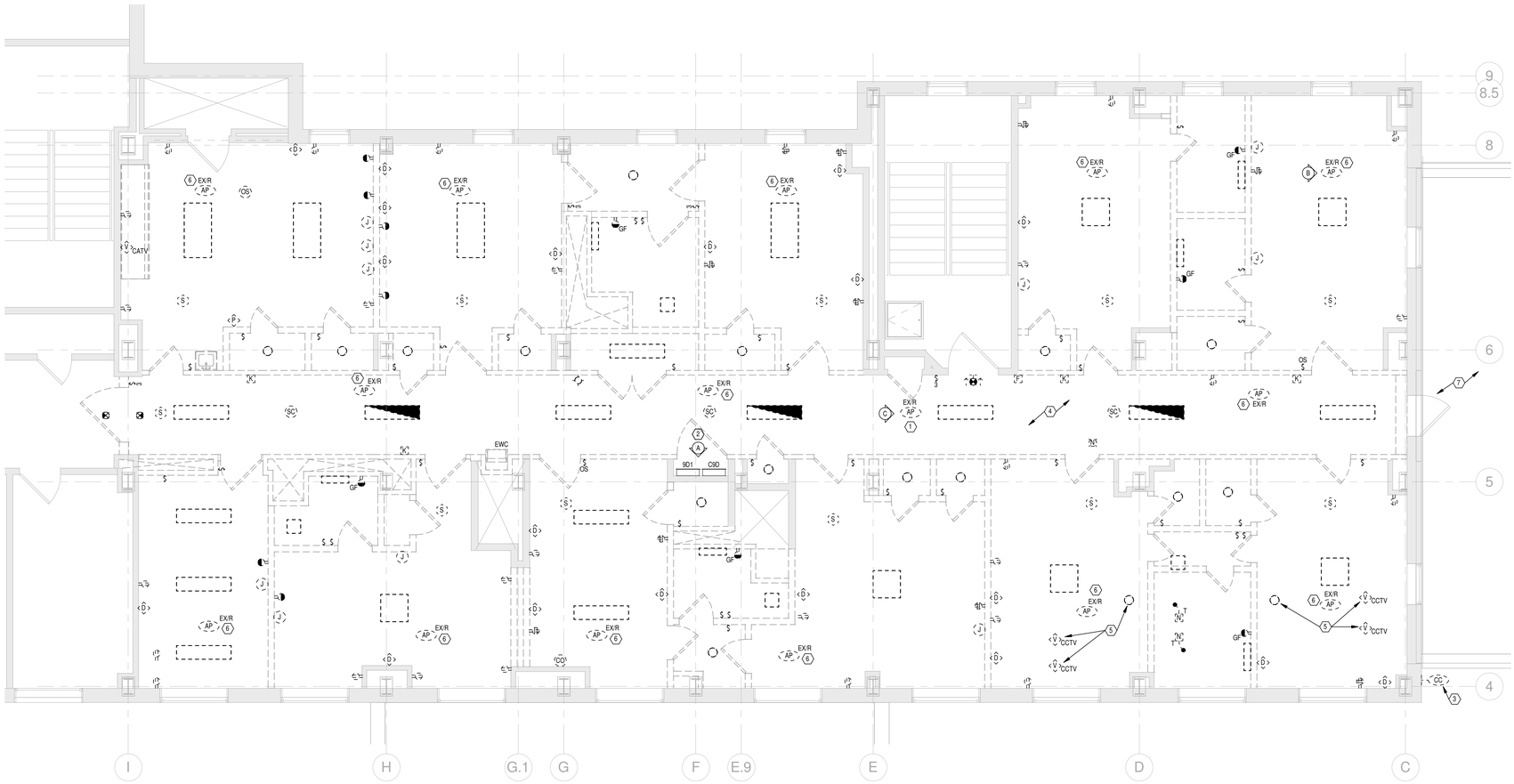

1 PARTIAL NINTH FLOOR PLAN

Scale: 1/4" = 1'-0"

GENERAL NOTES

A. REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR FUTURE RE-USE, IN COMPLIANCE WITH NEC.
B. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
C. EXISTING CONDITIONS SHOWN HAVE BEEN BASED UPON AVAILABLE DRAWING INFORMATION, AND MAY BE AT VARIANCE WITH ACTUAL WORK IN PLACE. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND FIELD VERIFY ALL CONDITIONS AFFECTING THE EXECUTION OF THE WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE WORK SHOWN ON THE CONTRACT DOCUMENTS WHICH MAY IMPACT THE PROGRESS OF THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER IN WRITING FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

PLAN NOTES

1. EXISTING SPRINT-NEXTEL CELLULAR REPEATER ANTENNA TO BE MAINTAINED. TEMPORARILY SUPPORT FROM STRUCTURE ABOVE TO ENSURE REINSTALLATION IN SAME GENERAL AREA.
2. REMOVE ALL ASSOCIATED CIRCUITRY BACK TO SOURCE. MAINTAIN EXISTING BREAKERS FOR NEW WORK.
3. REMOVE CAMERA DURING CONSTRUCTION THEN REINSTALL.
4. MAINTAIN EXISTING LIFE SAFETY LIGHTING CIRCUIT WITHIN CORRIDOR TO BE UTILIZED DURING NEW WORK PHASE.
5. CEILING MOUNTED MICROPHONES AND CAMERA TO BE REMOVED BY VA IF WORK HAS NOT BEEN REFORMED WHEN CONSTRUCTION BEGINS. CONTACT PROJECT ENGINEER FOR COORDINATION OF WORK.
6. EXISTING WIRELESS ROUTER TO BE REMOVED AND RELOCATED. RELOCATE IN SAME GENERAL AREA. REFER TO NEW WORK PLAN.
7. REMOVE LIGHTNING PROTECTION SYSTEM IN THIS AREA.

D SITE PHOTOGRAPH

C SITE PHOTOGRAPH

B SITE PHOTOGRAPH

A SITE PHOTOGRAPH

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Drawing Title: PARTIAL NINTH FLOOR PLAN - REMOVALS

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Building Number: 1

Drawing Number: 1ED101

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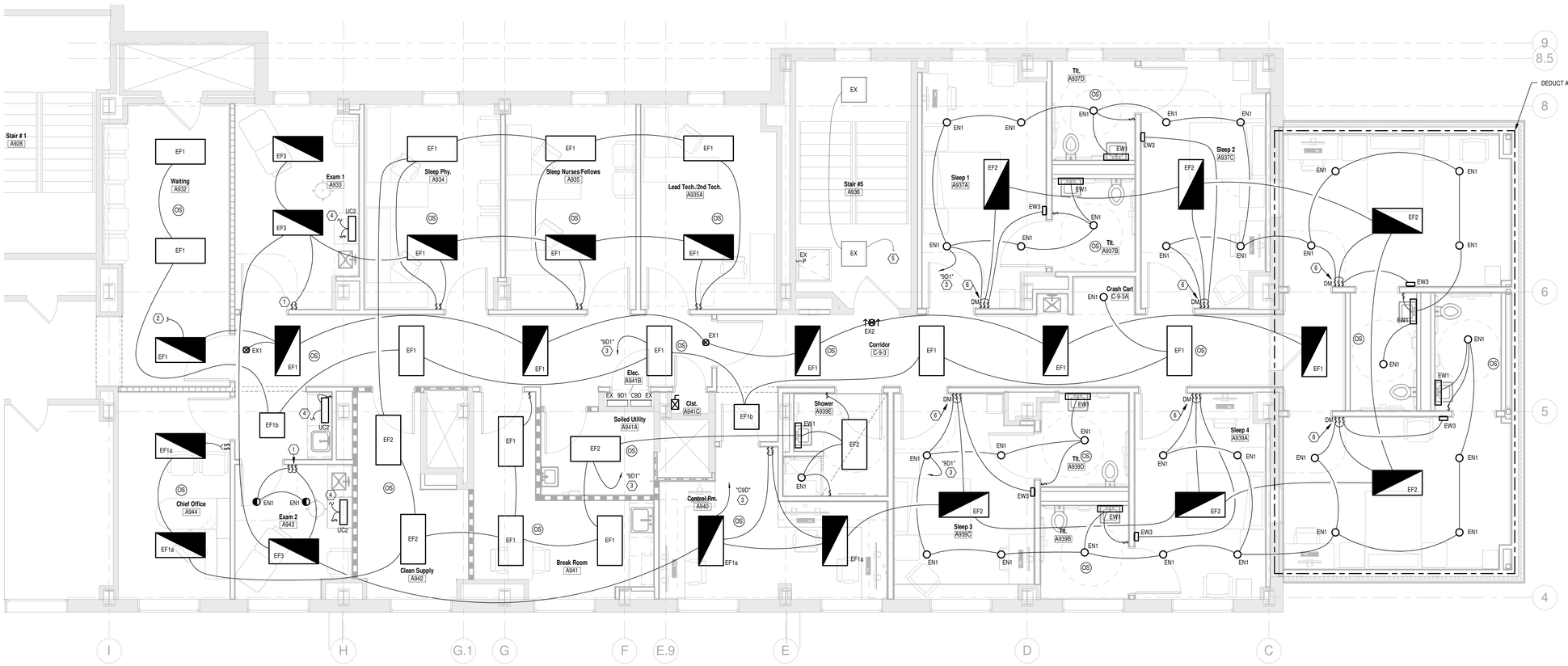

N 1 PARTIAL NINTH FLOOR PLAN - LIGHTING

Scale: 1/4" = 1'-0"

GENERAL NOTES

A WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN A COMMON ROOM OR CORRIDOR, WIRE SENSORS IN PARALLEL FOR COMMON ZONE CONTROL.

B WHERE SWITCHES ARE SHOWN IN SPACES CONTROLLED BY OCCUPANCY SENSORS, WIRE SENSOR RELAY PACK AHEAD OF LOCAL SWITCHING. (EXCEPT LIFE SAFETY CIRCUITS)

C PROVIDE DEDICATED NEUTRAL FOR ALL 120V CIRCUITS.

D COORDINATE ALL LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

E OCCUPANCY SENSOR MANUFACTURERS SHALL SUBMIT AN /1/8" SCALE FLOOR PLAN SHOWING PROPOSED LAYOUT WITH DEVICES CLEARLY IDENTIFIED DURING SHOP DRAWING REVIEW. OCCUPANY SENSOR SHOP DRAWING SUBMITAL MISSING THIS INFORMATION WILL BE REJECTED. REQUEST AutoCAD FLOOR PLANS WELL IN ADVANCE OF SHOP DRAWINGS TO ENSURE REASONABLE TIME OF DELIVERY.

F COORDINATE OCCUPANCY SENSOR AIMING AND PLACEMENT WITH MANUFACTURER PRIOR TO INSTALLATION.

G WIRE ALL EXIT SIGNS AHEAD OF LOCAL SWITCHING.

H CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FEEDERS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.

J PROVIDE PROGRAMMED RAPID START BALLASTS FOR ALL FLUORESCENT FIXTURES AND SUBMIT BALLAST INFORMATION DURING SHOP DRAWING REVIEW.

K (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND COMMON/SHARED GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

L MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

M INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.

N REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.

O REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.

P DIMMER SWITCH "DM" SHALL BE SLIDE-TO-OFF, SINGLE POLE, FLUORESCENT DIMMER.

Q EXISTING GE PANELBOARDS, MODEL #NLAB. PROVIDE NEW BREAKERS TO MATCH.

R LASER ALL WIRING DEVICES / JUNCTION BOXES WITH PANEL / CIRCUIT NUMBER.

S DELETE ALL WORK SHOWN WITHIN OUTLINED/BOXED AREA UNDER DEDUCT ALTERNATE 1.

PLAN NOTES

1. PROVIDE DUAL LEVEL SWITCHING. INNER LAMP VS OUTER LAMPS.
2. CONNECT TO EXISTING LIFE SAFETY CIRCUIT MAINTAINED DURING DEMOLITION PHASE.
3. PROVIDE 120V-20A/1P BREAKER IN EXISTING PANEL (AS INDICATED) FOR NEW WORK.
4. CONNECT UNDERCOUNTER LIGHT "UC2" TO LOCAL RECEPTACLE CIRCUIT.
5. MAINTAIN EXISTING STAIRWELL LIGHTING CIRCUITRY.
6. PROVIDE SPECIFICATION GRADE SLIDE-TO-OFF FLUORESCENT DIMMER SWITCH.

FULLY SPRINKLERED

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Date: 12/21/2012 | Checked: MSG | Drawn: JAS

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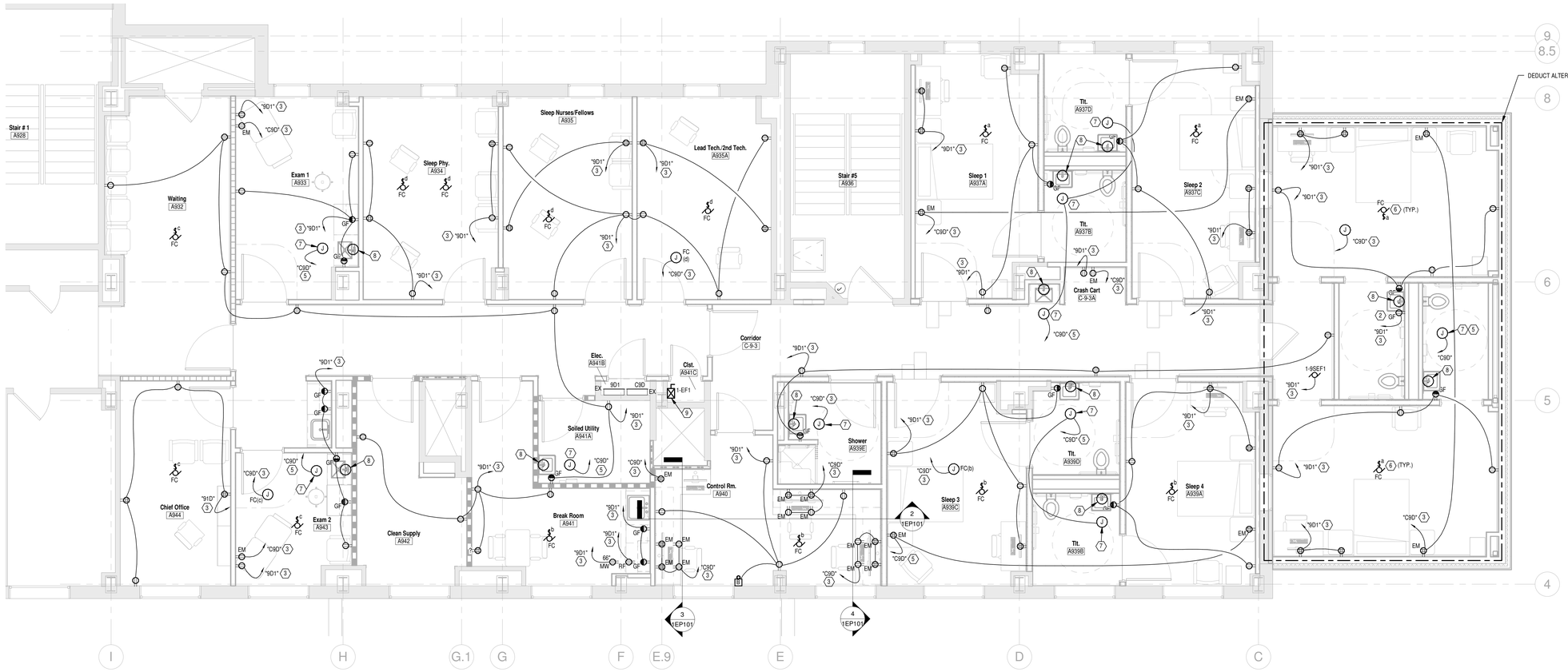


N 1 PARTIAL NINTH FLOOR PLAN - POWER

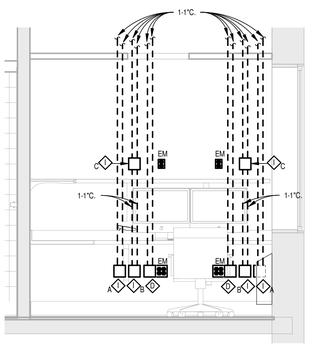
Scale: 1/4" = 1'-0"

GENERAL NOTES

A. PROVIDE DEDICATED NEUTRAL FOR ALL 120V-20A CIRCUITS.
B. PROVIDE PRINTED LABELS ON ALL RECEPTACLE AND SWITCH COVERPLATES INDICATING PANEL AND CIRCUIT NUMBER.
C. EMT CONDUIT SHALL BE 0.75" MINIMUM.
D. REFER TO DIVISION 22/ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL PLUMBING EQUIPMENT.
E. CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FEEDERS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.
F. (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
G. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.
H. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING.
I. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
J. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
K. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.
L. EXISTING GE PANELBOARDS, MODEL #NLAB. PROVIDE NEW BREAKERS TO MATCH.
M. LASER ALL WIRING DEVICES / JUNCTION BOXES WITH PANEL / CIRCUIT NUMBER.
N. DELETE ALL WORK SHOWN WITHIN OUTLINED/BOXED AREA UNDER DEDUCT ALTERNATE 1.
O. IF DEDUCT ALTERNATE 1 IS ACCEPTADED, 1-9SEF1 LOCATION WILL SHIFT. REFER TO DIVISION 23 DRAWINGS FOR NEW LOCATION.

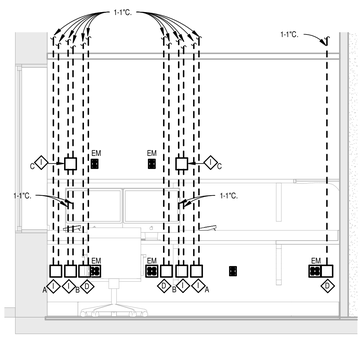
PLAN NOTES

1. PROVIDE 120V-20A DUPLEX RECEPTACLE IN CEILING FOR PATIENT LIFT. COORDINATE EXACT LOCATION WITH V.A.
2. PROVIDE 120V-20A GF RECEPTACLE FOR POINT-OF-USE UNDERCOUNTER WATER HEATER. COORDINATE EXACT MOUNTING HEIGHT WITH DIVISION 22 PRIOR TO ROUGH-IN.
3. PROVIDE 120V-20A/1P BREAKER IN EXISTING PANEL (AS INDICATED) FOR NEW WORK.
4. PROVIDE 120V CONNECTION TO DOOR ACCESS HARDWARE. REFER TO SYSTEMS PLANS AND DETAILS, SHEET _____ FOR ADDITIONAL INFORMATION.
5. ALL LOW VOLTAGE TRANSFORMER FOR SENSOR OPERATED FAUCETS SHALL BE THE SAME 120V-20A/1P CRITICAL BRACH EMERGENCY CIRCUIT. PROVIDE NEW BREAKER IN EXISTING PANEL AS NECESSARY.
6. PROVIDE 120V-20A/1P CIRCUIT FOR FAN COIL UNITS. ALL FAN COIL UNITS "a" SHALL BE ONE CIRCUIT AND ALL FAN COIL UNITS "b" SHALL BE ON ONE CIRCUIT.
7. LOW VOLTAGE TRANSFORMER ABOVE LAY-IN CEILING FOR SENSOR OPERATED FAUCET PROVIDED BY DIVISION 22.
8. PROVIDE RECESSED SINGLE GANG J-BOX AND 0.75"C. TO ABOVE ACCESSIBLE CEILING FOR LOW VOLTAGE WIRING BY DIVISION 22. PROVIDE GROMMETTED OPENING. COORDINATE EXACT M.H. WITH DIVISION 22. PRIOR TO ROUGH-IN.
9. PROVIDE NEMA 0 STARTER / DISCONNECT FOR 120V-0.25HP EXHAUST FAN ON ROOF.



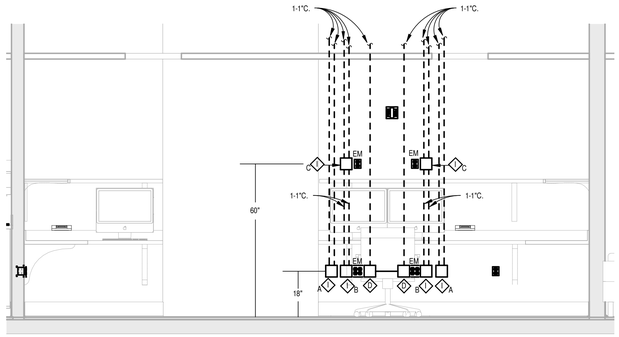
4 CONTROL ROOM

Scale: 1/2" = 1'-0"



3 CONTROL ROOM

Scale: 1/2" = 1'-0"



(TYPICAL COMPUTER STATION)

2 CONTROL ROOM

Scale: 1/2" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: PARTIAL NINTH FLOOR PLAN - POWER

Approved: Project Director

Project Title: RENOVATE PULMONARY / SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: MSG | Drawn: JAS

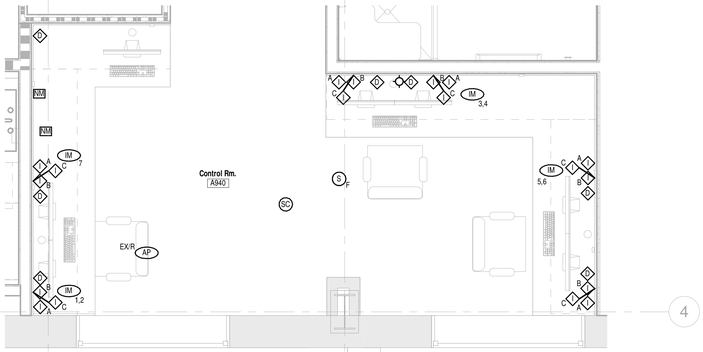
Project No. VA Project No. 539-13-102 JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1EP101 Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs



N 2 PARTIAL NINTH FLOOR ENLARGED PLAN - SIGNALS

Scale: 1/2" = 1'-0"

GENERAL NOTES

A ALL NEW VOICE/DATA TO BE CABLED TO SIGNALS CB-47 THIS SHEET.

B REFER TO ARCHITECTURAL PHASING PLAN AND INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING.

C REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.

D INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.

E COORDINATE ALL NEW FIRE ALARM/FIRE SUPPRESSION ZONES WITH COTR.

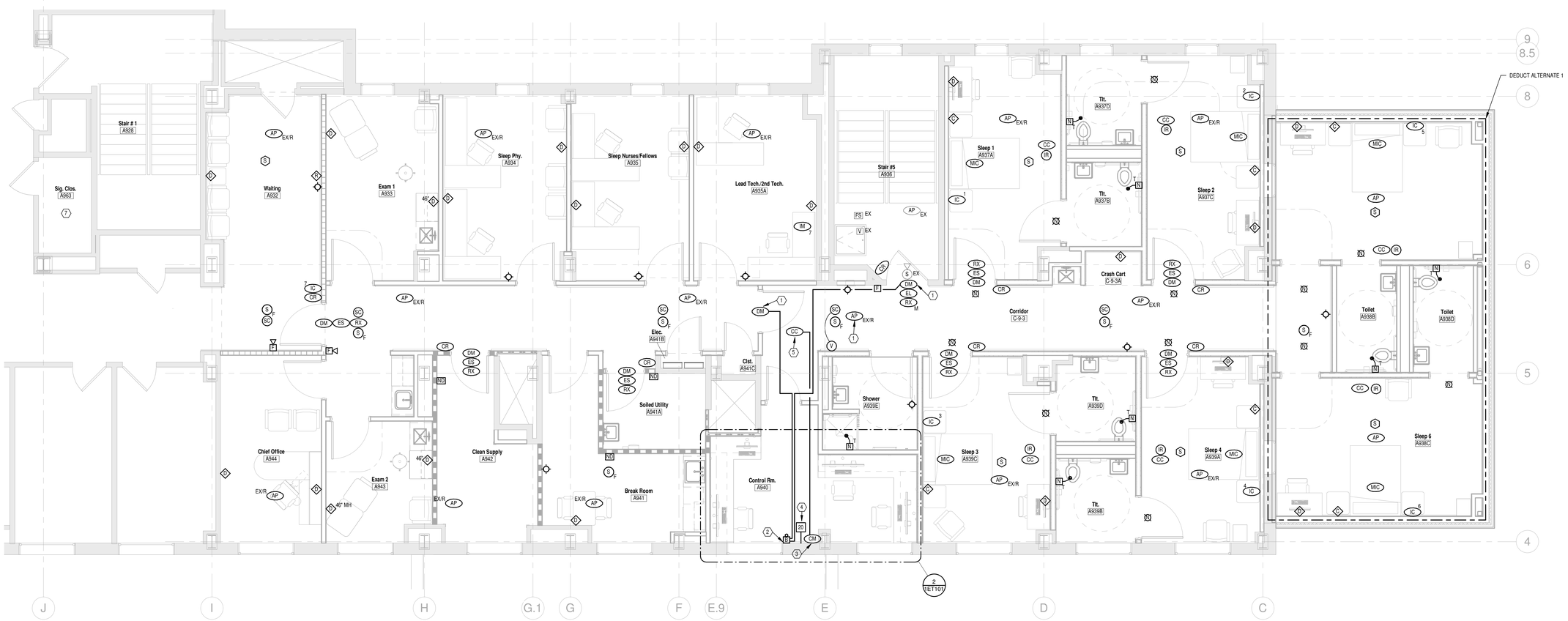
F REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.

G NEW FIRE ALARM NOTIFICATION APPLIANCES SHALL BE ON SAME ZONE AS EXISTING.

H DELETE ALL WORK SHOWN WITHIN OUTLINED/BOXED AREA UNDER DEDUCT ALTERNATE 1.

NOTES

1 RELOCATED SPRINT - NEXTEL CELLULAR REPEATER ANTENNA.



N 1 PARTIAL NINTH FLOOR PLAN - SIGNALS

Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

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Approved: Project Director

Project Title: RENOVATE PULMONARY / SLEEP LAB

Location: Cincinnati, Ohio

Date: 12/21/2012 | Checked: MSG | Drawn: JAS

Project No. VA Project No. 539-13-102 JPA Project No. 12005.00

Building Number: 1

Drawing Number: 1ET101

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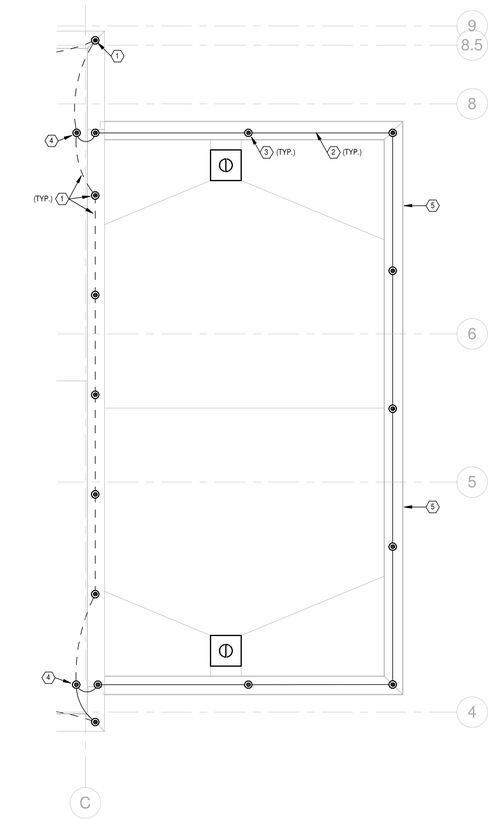
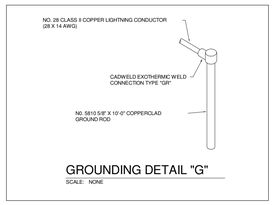
	MOTOR												STARTER													DISCONNECT MEANS													CONTROL				FEEDER				
		CHARACTERISTICS									LOCATION			TYPE						LOCATION						TYPE						LOCATION																
MARK	NAMEPLATE	HORSEPOWER (HP)	LOAD (kVA)	120V-1PH	208V-1PH	208V-3PH	240V-1PH	240V-3PH	277V-1PH	480V-1PH	480V-3PH	ROOM NUMBER	ROOM NAME	NEMA SIZE	MANUAL	MAGNETIC	BUILT-IN MOTOR O/L	2-SPEED	VFD	SEE NOTE	NEAR MOTOR	MOTOR CONT CENTER	EQUIP CONT PANEL	ROOM NUMBER	SEE NOTE	FURNISHED BY	DISC SWITCH	MANUAL STARTER	RECEPTACLE	FEEDER SW OR BREAKER	NEMA TYPE	DISC SIZE	FUSE SIZE	NEAR MOTOR	MOTOR CONT CENTER	EQUIP CONT PANEL	PANELBOARD	SEE NOTE	FURNISHED BY	INTERLOCK WITH MOTOR NO. BY E.C.	MANUAL AT STARTER	INTEGRAL WITH EQUIPMENT	FURNISHED BY	SEE NOTE	NUMBER OF CONDUCTORS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	SEE NOTE
1-SSEF1	EXHAUST FAN	.25	0.67	•												•								A956						•									23				23		2	12	12	0.75	
FC	FAN COIL	.22	0.47	•													•						•			•								•					26				23		2	12	12	0.75	

NOTES

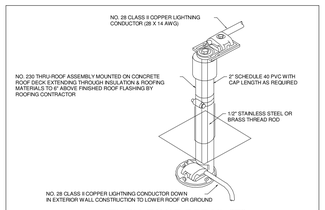
1. EXISTING LIGHTNING PROTECTION CONDUCTORS AND AIR TERMINALS TO REMAIN.
2. NEW ALUMINUM LIGHTNING PROTECTION CONDUCTOR(S).
3. NEW ALUMINUM LIGHTNING PROTECTION AIR TERMINAL.
4. CONNECT NEW LIGHTNING PROTECTION CONDUCTORS / SYSTEM TO EXISTING SYSTEM AS INDICATED.
5. ALL WORK SHOWN ASSOCIATED TO LIGHTNING PROTECTION IS PART OF DEDUCT ALTERNATE 1.



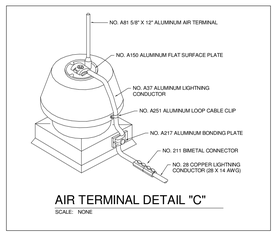
N 1 PARTIAL NINTH FLOOR ROOF PLAN
Scale: 1/4" = 1'-0"



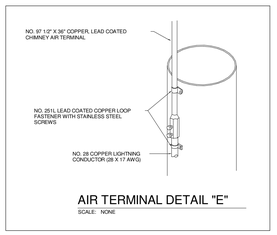
GROUNDING DETAIL "G"
SCALE: NONE



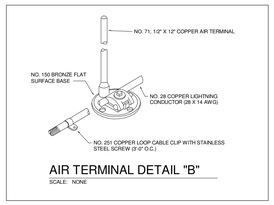
THRU-ROOF DETAIL "T"
SCALE: NONE



AIR TERMINAL DETAIL "C"
SCALE: NONE



AIR TERMINAL DETAIL "E"
SCALE: NONE



AIR TERMINAL DETAIL "B"
SCALE: NONE

2 LIGHTNINIIG PROTECTION DETAILS
Scale: 1/8" = 1'-0"

GENERAL NOTES

A COMPLETED SYSTEM SHALL MEET THE INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEMS, "UL96A" OF UNDERWRITERS LABORATORIES INC., NFPA 780 AND SHALL BEAR THE MASTER LABEL OF UNDERWRITERS LABORATORIES INC.

B LAYOUT IS FOR BIDDING REFERENCE ONLY.

C REFER TO LIGHTNING PROTECTION SPECIFICATIONS.

D INCLUDE POINTS ON ALL ROOF MOUNTED EQUIPMENTS, VENTS, ETC.

FULLY SPRINKLERED

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