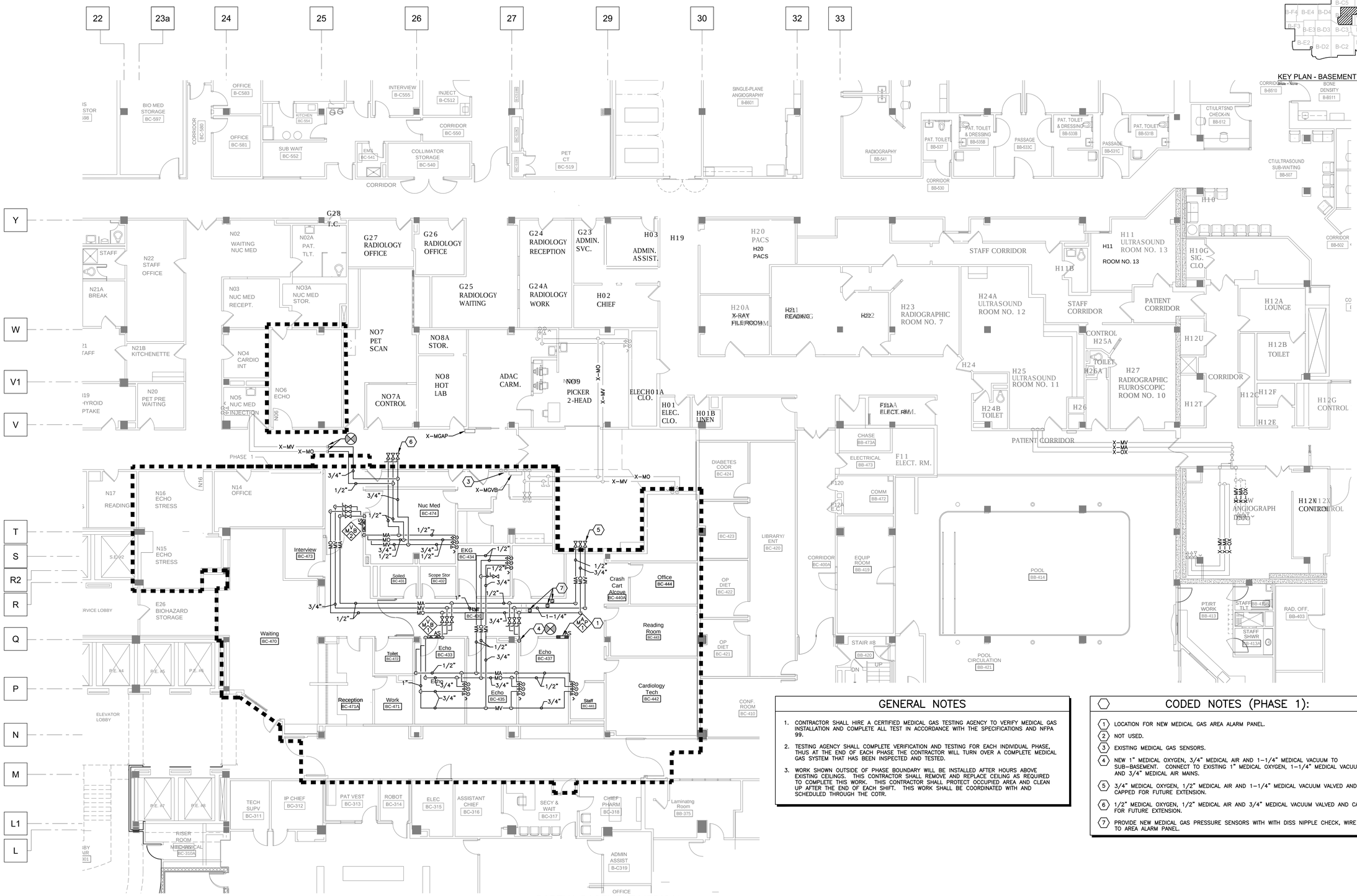

GENERAL NOTES

1. CONTRACTOR SHALL HIRE A CERTIFIED MEDICAL GAS TESTING AGENCY TO VERIFY MEDICAL GAS INSTALLATION AND COMPLETE ALL TEST IN ACCORDANCE WITH THE SPECIFICATIONS AND NFPA 99.
2. TESTING AGENCY SHALL COMPLETE VERIFICATION AND TESTING FOR EACH INDIVIDUAL PHASE, THUS AT THE END OF EACH PHASE THE CONTRACTOR WILL TURN OVER A COMPLETE MEDICAL GAS SYSTEM THAT HAS BEEN INSPECTED AND TESTED.
3. WORK SHOWN OUTSIDE OF PHASE BOUNDARY WILL BE INSTALLED AFTER HOURS ABOVE EXISTING CEILINGS. THIS CONTRACTOR SHALL REMOVE AND REPLACE CEILING AS REQUIRED TO COMPLETE THIS WORK. THIS CONTRACTOR SHALL PROTECT OCCUPIED AREA AND CLEAN UP AFTER THE END OF EACH SHIFT. THIS WORK SHALL BE COORDINATED WITH AND SCHEDULED THROUGH THE COTR.

CODED NOTES (PHASE 1):

1. LOCATION FOR NEW MEDICAL GAS AREA ALARM PANEL.
2. NOT USED.
3. EXISTING MEDICAL GAS SENSORS.
4. NEW 1" MEDICAL OXYGEN, 3/4" MEDICAL AIR AND 1-1/4" MEDICAL VACUUM TO SUB-BASEMENT. CONNECT TO EXISTING 1" MEDICAL OXYGEN, 1-1/4" MEDICAL VACUUM AND 3/4" MEDICAL AIR MAINS.
5. 3/4" MEDICAL OXYGEN, 1/2" MEDICAL AIR AND 1-1/4" MEDICAL VACUUM VALVED AND CAPPED FOR FUTURE EXTENSION.
6. 1/2" MEDICAL OXYGEN, 1/2" MEDICAL AIR AND 3/4" MEDICAL VACUUM VALVED AND CAPPED FOR FUTURE EXTENSION.
7. PROVIDE NEW MEDICAL GAS PRESSURE SENSORS WITH WITH DISS NIPPLE CHECK, WIRE BACK TO AREA ALARM PANEL.

PARTIAL BASEMENT MEDICAL GAS PLAN - PHASE 1 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

FULLY SPRINKLERED

Bid Issue	01/17/14
Revisions:	Date

CONSULTANTS:

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9898
FAX: (440) 546-9899

2217 East 9th Street, Suite 350
Cleveland OH 44115-1257
216-875-0100/ (F) 216-875-0111
barberhoffman.com
BARBER & HOFFMAN, INC.
Consulting Engineers

STATE OF OHIO — BRIAN M. WIDOWSKI 66625 — PROFESSIONAL ENGINEER
FFH #13027

ARCHITECT:

Perspectus architecture
13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F.216.752.3833

DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF PERSPECTUS ARCHITECTURE. THE USE OF THIS DESIGN AND THESE CONSTRUCTION DOCUMENTS FOR PURPOSES OTHER THAN THE SPECIFIC PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE.

Drawing Title: PARTIAL BASEMENT MEDICAL GAS PLAN - PHASE 1

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-P6.1

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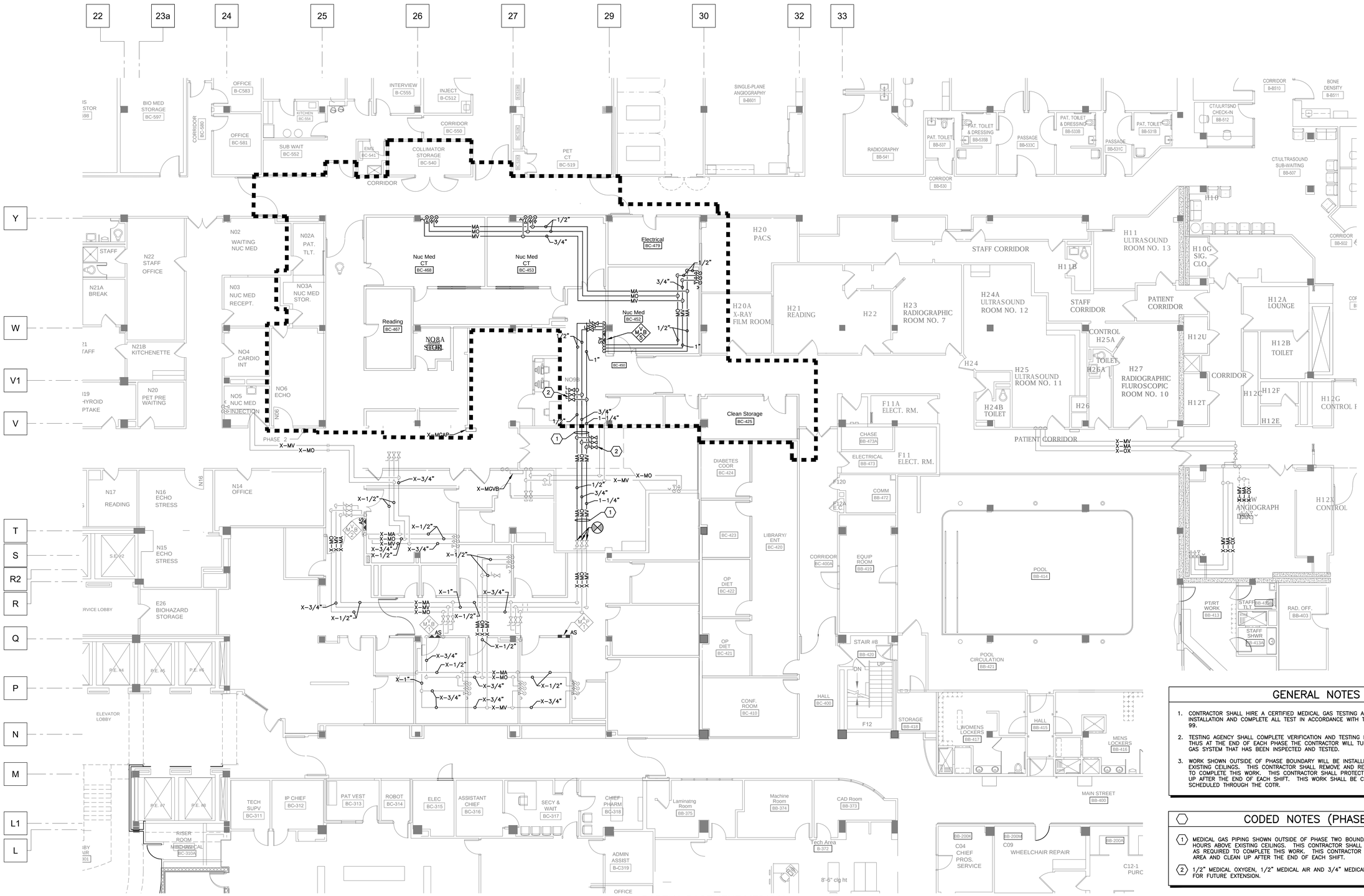

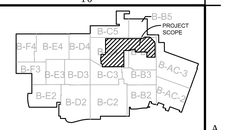

KEY PLAN - BASEMENT

Scale = None

NORTH

TRUE NORTH

GENERAL NOTES

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CODED NOTES (PHASE 2):

1. MEDICAL GAS PIPING SHOWN OUTSIDE OF PHASE TWO BOUNDARY WILL BE INSTALLED AFTER HOURS ABOVE EXISTING CEILINGS. THIS CONTRACTOR SHALL REMOVE AND REPLACE CEILING AS REQUIRED TO COMPLETE THIS WORK. THIS CONTRACTOR SHALL PROTECT OCCUPIED AREA AND CLEAN UP AFTER THE END OF EACH SHIFT.
2. 1/2" MEDICAL OXYGEN, 1/2" MEDICAL AIR AND 3/4" MEDICAL VACUUM VALVED AND CAPPED FOR FUTURE EXTENSION.

PARTIAL BASEMENT MEDICAL GAS PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

FULLY SPRINKLERED

Bid Issue	01/17/14
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FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX: (440) 546-9699

BARBER & HOFFMAN, INC.
Consulting Engineers
2217 East 9th Street, Suite 350
Cleveland OH 44115-1257
216-875-0100/ (F) 216-875-0111
barberhoffman.com

STATE OF OHIO BRIAN M. WIDOWSKI 66625 PROFESSIONAL ENGINEER
FFH #13027

ARCHITECT:

Perspectus architecture
13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F.216.752.3833

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Drawing Title: PARTIAL BASEMENT MEDICAL GAS PLAN - PHASE 2

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-P6.2

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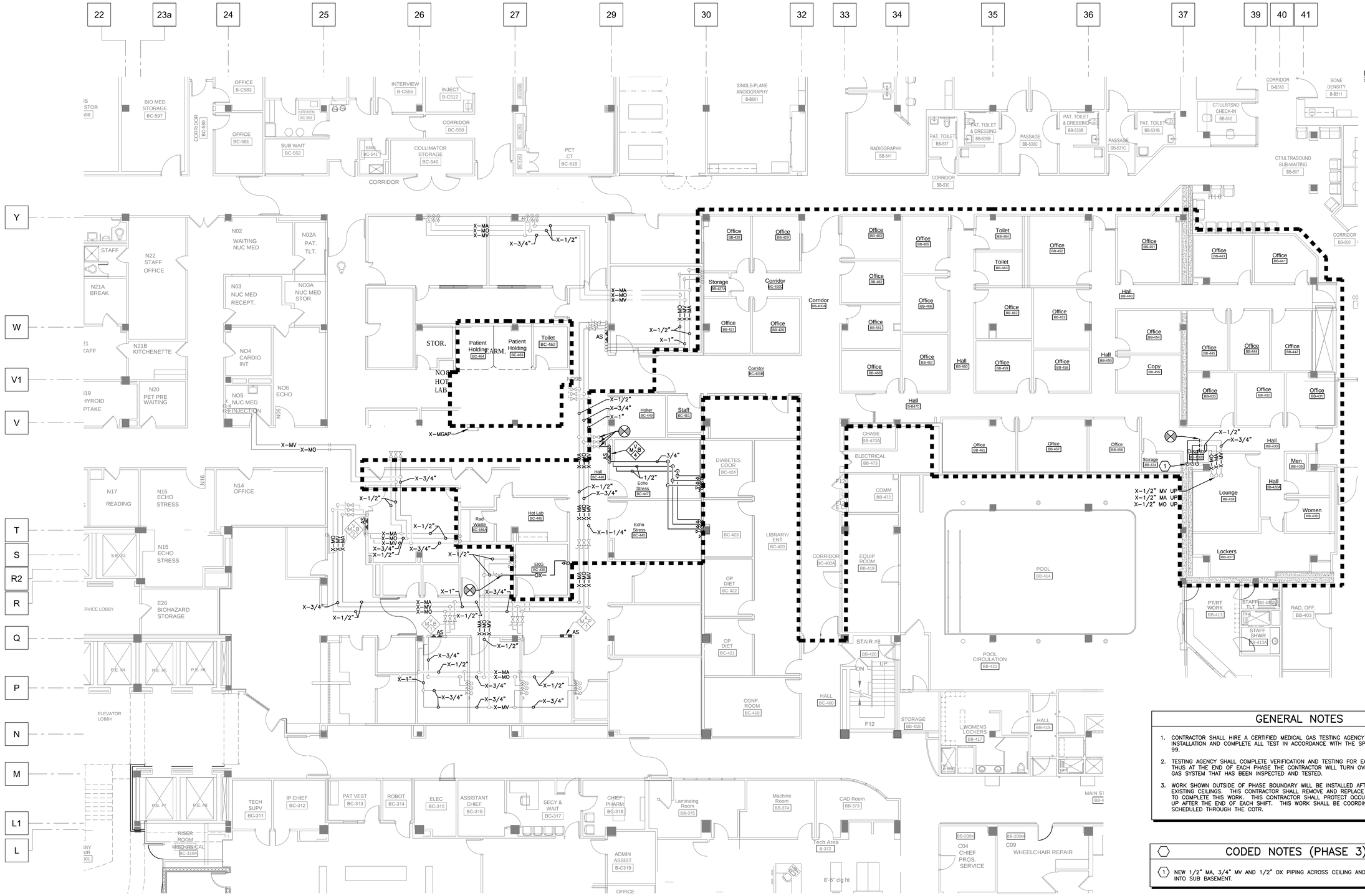

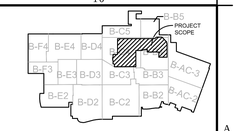

KEY PLAN - BASEMENT

Scale = None

NORTH

TRUE NORTH

GENERAL NOTES

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CODED NOTES (PHASE 3):

1. NEW 1/2" MA, 3/4" MV AND 1/2" OX PIPING ACROSS CEILING AND DOWN THROUGH WALL INTO SUB BASEMENT.

PARTIAL BASEMENT MEDICAL GAS PLAN - PHASE 3 — 1

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

FULLY SPRINKLERED

Bid Issue	01/17/14
Revisions:	Date

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FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
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Cleveland OH 44115-1257
216-875-0100/ (F) 216-875-0111
barberhoffman.com
BARBER & HOFFMAN, INC.
Consulting Engineers

STATE OF OHIO — BRIAN M. WIDOWSKI 66625 — REGISTERED PROFESSIONAL ENGINEER
FPH #13027

ARCHITECT:

Perspectus architecture
13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F.216.752.3833

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Drawing Title: PARTIAL BASEMENT MEDICAL GAS PLAN - PHASE 3

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-P6.3

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Department of Veterans Affairs

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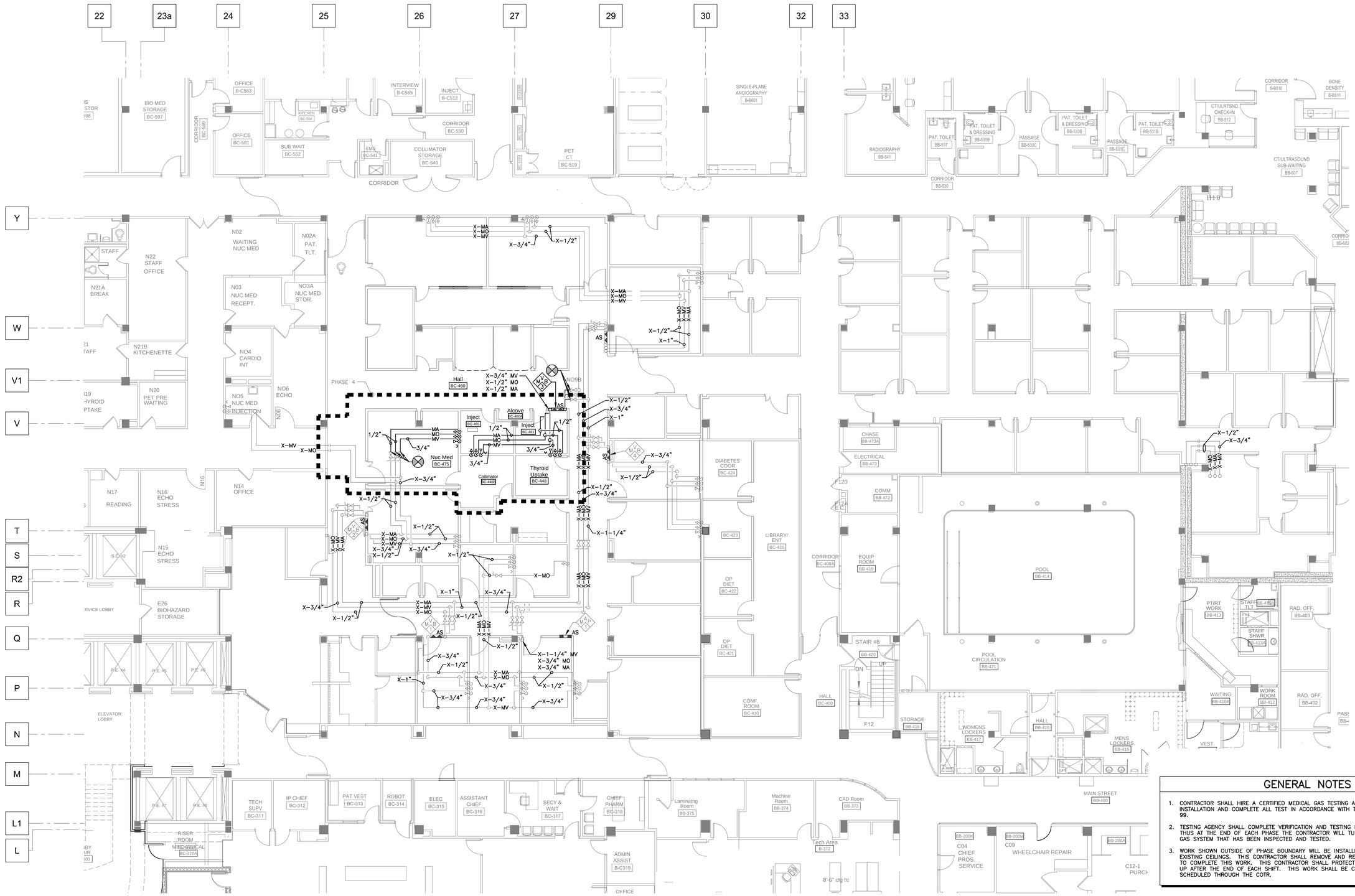
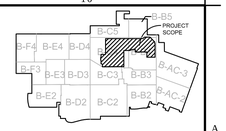


PARTIAL BASEMENT MEDICAL GAS PLAN - PHASE 4

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

1



KEY PLAN - BASEMENT

Scale = None

NORTH

TRUE NORTH

GENERAL NOTES

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Bid Issue	01/17/14
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FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-9696
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2217 East 9th Street, Suite 350
Cleveland OH 44115-1257
216-875-0100/ (F) 216-875-0111
barberhoffman.com
BARBER & HOFFMAN, INC.
Consulting Engineers

STATE OF OHIO BRIAN M. WIDOWSKI 66625 PROFESSIONAL ENGINEER
FFH #13027

ARCHITECT:

Perspectus architecture
13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F.216.752.3833

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Drawing Title: PARTIAL BASEMENT MEDICAL GAS PLAN - PHASE 4

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-P6.4

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Department of Veterans Affairs

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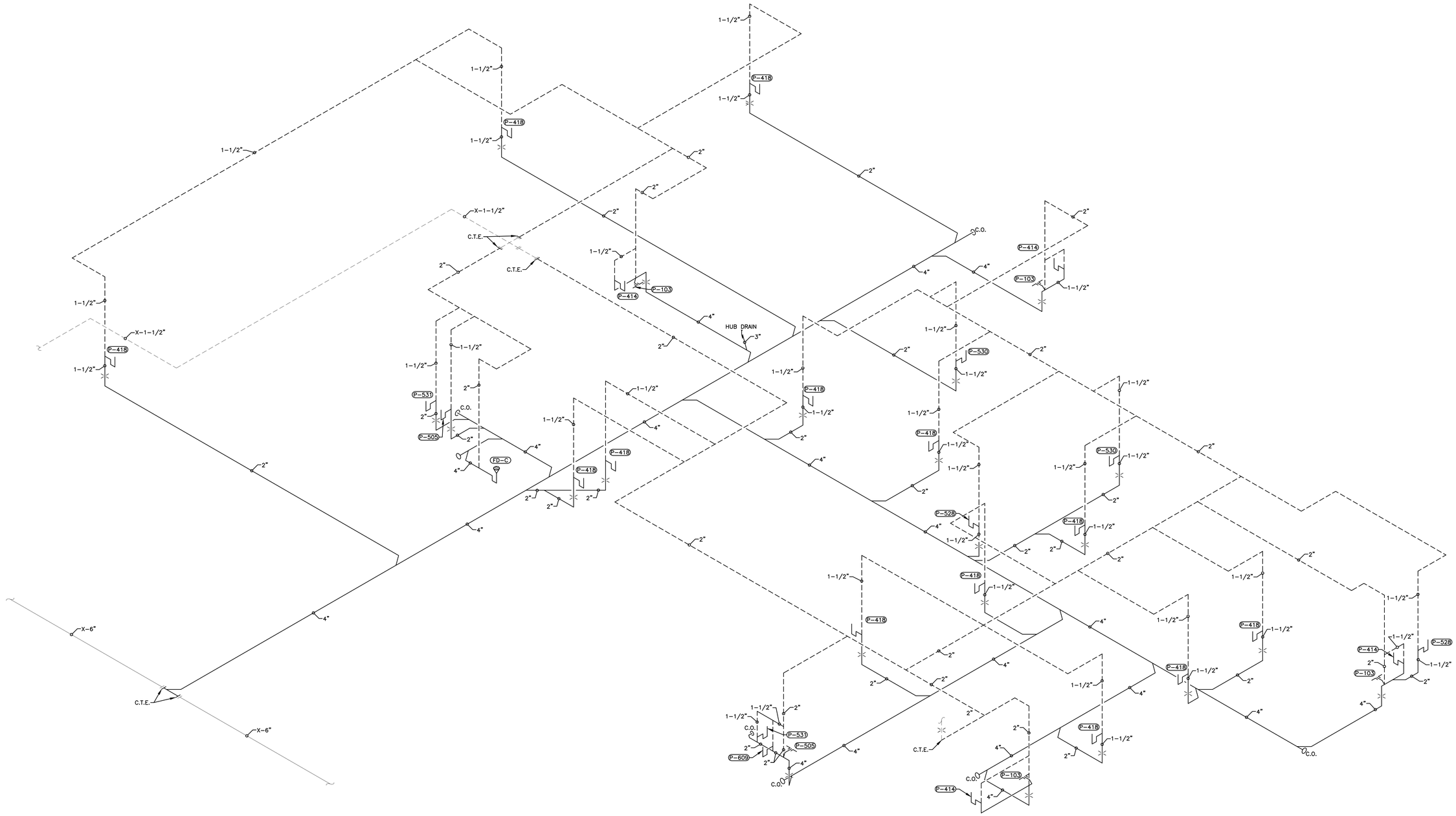

PLUMBING ISOMETRICS - NUCLEAR MEDICINE

NOT TO SCALE

1

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Bid Issue	01/17/14
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FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX: (440) 546-9699

2217 East 9th Street, Suite 350
Cleveland OH 44115-1257
216-875-0100/ (F) 216-875-0111
barberhoffman.com

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Consulting Engineers

STATE OF OHIO
BRIAN M. WIDOWSKI
66625
REGISTERED PROFESSIONAL ENGINEER
FFH #13027

ARCHITECT:

Perspectus architecture
13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F.216.752.3833

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Drawing Title: PLUMBING ISOMETRICS - NUCLEAR MEDICINE

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-P7

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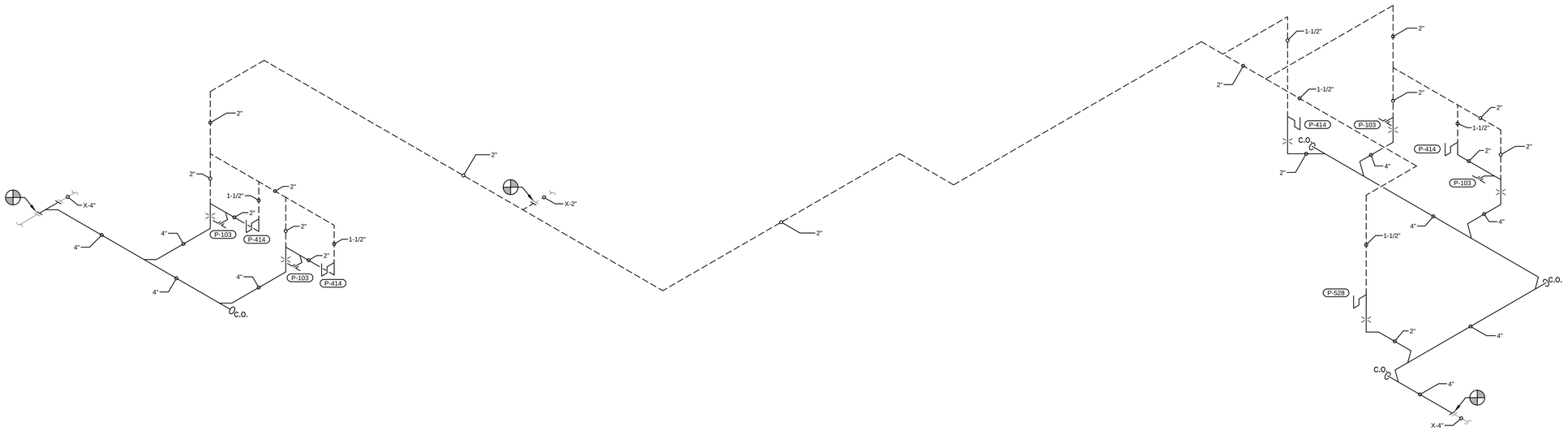
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



PLUMBING ISOMETRICS - RADIOLOGY (1)

NOT TO SCALE

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Bid Issue	01/17/14
Revisions:	Date

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FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-9090
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2217 East 9th Street, Suite 350
Cleveland OH 44115-1257
216-875-0100/ (F) 216-875-0111
barberhoffman.com
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STATE OF OHIO
BRIAN M. WIDOWSKI
66625
PROFESSIONAL ENGINEER
FFH #13027

ARCHITECT:

Perspectus architecture
13212 Shaker Square Suite 204 Cleveland, Ohio 44120
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Drawing Title: PLUMBING ISOMETRICS - RADIOLOGY

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-P8

Dwg. of

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

HVAC DESIGN DATA

OUTDOOR DESIGN TEMPERATURES: 89.4°F Db SUMMER; 73.9°F Wb SUMMER; −4.0°F Db WINTER

DESIGN ALTITUDE: 800 FT.

INDOOR AREA DESIGN CONDITIONS	SUMMER Db °F	SUMMER MAX. RELATIVE HUMIDITY (%)	WINTER Db °F	WINTER MIN RELATIVE HUMIDITY (%)
WAITING ROOM	75	60	70	20
EXAM ROOM	75	60	70	20
OBSERVATION/TREATMENT	75	60	70	20
CORRIDOR	75	60	70	20
OFFICE	75	60	70	20
BREAK ROOM	75	60	70	20
CONFERENCE ROOM	75	60	70	20
PROCEDURE ROOM	75	60	70	20
MEDICATION ROOM	75	60	70	20
TOILET ROOM (INTERIOR)	NA	NA	NA	NA
TOILET ROOM (PERIMETER)	NA	NA	68	NA
CLEAN UTILITY/STORAGE ROOM	NA	NA	NA	NA
EXTERIOR STAIRS	NA	NA	50	NA
HOUSEKEEPING CLOSET	NA	NA	NA	NA
ELECTRICAL ROOM	84	NA	50	NA
SOILED UTILITY AND STORAGE ROOM	NA	NA	NA	NA

MECHANICAL SYMBOLS:

ABBREVIATIONS:

AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
BIW	BACKWARD INCLINED WHEEL
CC	COOLING COIL
CF	CENTRIFUGAL FAN
CO	CLEAN OUT
COMP.	COMPRESSOR
CU	CONDENSING UNIT
CW	COLD WATER
Db	DRY BULB TEMPERATURE
dB	DECIBELS
DC	DUST COLLECTION DUCT
Dp	DEW POINT TEMPERATURE
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EX.	EXISTING
FC	FORWARD CURVED FAN
FLR.	FLOOR
F.DPR.	FIRE DAMPER
FS	FACTORY FABRICATED FAN SECTION
HC	HEATING COIL
HP	HORSEPOWER
HPR	HIGH PRESSURE STEAM CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
IFB	INTEGRAL FACE AND BYPASS
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LBS/HR	POUNDS PER HOUR
MB	MIXING BOX
MAX.	MAXIMUM
MIN.	MINIMUM
NOM.	NOMINAL
OA	OUTDOOR AIR
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PF	PRE−FILTER
PH	PREHEAT
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
RF	RETURN FAN
RH	REHEAT COIL
Rh	RELATIVE HUMIDITY
SA	SUPPLY AIR
SD.	SMOKE DAMPER
Sp. Gr.	SPECIFIC GRAVITY
SH	STEAM HUMIDIFIER
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
V	VALVE
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VI	VIBRATION ISOLATOR
Wb	WET BULB TEMPERATURE

CALL OUTS:

- REFERENCE TO CODED NOTE
- REFERENCE TO GENERAL NOTE
- EQUIPMENT TYPE — VAV 8 — EQUIPMENT OR FIXTURE MARK; UNIT NUMBER
- TYPE — R1 470 — AIR FLOW; AIR DISTRIBUTION DEVICE; 12x10 — CONNECTION SIZE AT DEVICE
- 3 / H4−1 — DETAIL NO.; SECTION/DETAIL/ELEVATION MARK; DRAWING
- TEST AND BALANCE MEASUREMENT

DUCTWORK SYMBOLS:

- 24x18 — RECTANGULAR DUCT SIZE
- 12"ø — ROUND DUCT SIZE
- MANUAL BALANCING DAMPER ON DUCT TO BE MOUNTED OVER ACCESSIBLE CEILING
- SUPPLY AIR DUCT
- RETURN AIR DUCT
- EXHAUST AIR DUCT
- SINGLE LINE — INDICATES TRANSITION
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- SHADING INDICATES TO PROVIDE QUADRANT BLANK−OFF IN NECK OF DIFFUSER. TO BE FURNISHED WITH DIFFUSER.
- UP / DN — SUPPLY DUCT (UP & DOWN)
- UP / DN — RETURN DUCT (UP & DOWN)
- SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
- EXHAUST OR RETURN CEILING REGISTER OR GRILLE
- EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)
- EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)
- VANED ELBOW & AIR SPLIT TYPE DUCT TAKE−OFF
- CONNECT NEW DUCT TO EXISTING DUCT
- R — INCLINED RISE, IN DIRECTION OF AIR FLOW
- D — INCLINED DROP, IN DIRECTION OF AIR FLOW
- LIMIT OF DEMOLITION
- UC — INDICATES UNDERCUT DOOR − UNDERCUT 1" SEE ARCHITECTURAL PLANS.

HVAC PIPING:

- F — FIRE SUPPRESSION PIPE
- HHWS — HEATING HOT WATER SUPPLY
- HHWR — HEATING HOT WATER RETURN
- CD — AIR CONDITIONING CONDENSATE
- DIRECTION OF FLOW
- SHUTOFF VALVE
- CHECK VALVE
- UNION
- REDUCER
- STRAINER
- BALANCING VALVE
- FLEXIBLE PIPE CONNECTOR
- THERMOMETER IN PIPE WELL
- PIPE GUIDE
- PIPE EXPANSION ANCHOR
- E.L. — FLEXIBLE METAL EXPANSION LOOP ASSEMBLY
- GAUGE PORT (PETE'S PLUG)
- 3−WAY CONTROL VALVE
- 2−WAY CONTROL VALVE
- NO — NORMALLY OPEN
- NC — NORMALLY CLOSED
- MAV — MANUAL AIR VENT

CONTROL SYMBOLS:

- T — DDC THERMOSTAT
- H — HUMIDITY SENSOR
- OS — OCCUPANCY SENSOR

GENERAL SYMBOLS:

- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- LIMIT OF DEMOLITION
- X — EXISTING TO REMAIN
- XR — EXISTING TO BE REMOVED
- XRL — EXISTING TO BE RELOCATED

HVAC GENERAL NOTES:

A. LOCATIONS AND ROUTING OF EXISTING PIPING, DUCTWORK AND EQUIPMENT IS PRESUMED FROM EXISTING DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THESE DRAWINGS.

B. COORDINATE ALL SHUT−DOWNS OF EXISTING MECHANICAL SYSTEMS WITH OWNER A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE.

C. PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW WALL MOUNTED DEVICES WITH OWNER AND ARCHITECT. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PRECISE LOCATION OF CEILING MOUNTED DEVICES.

D. PROVIDE ADEQUATE SERVICE CLEARANCE FOR ALL MECHANICAL EQUIPMENT. REFER TO INSTRUCTIONS FROM THE EQUIPMENT MANUFACTURER. MAINTAIN A MINIMUM OF 18 INCH CLEARANCE AT CONTROLS FOR VARIABLE AIR VOLUME TERMINALS AND FAN POWERED TERMINALS ABOVE CEILINGS.

E. NEW DUCTS OR PIPING SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF PANELS.

F. REFER TO TERMINAL CONNECTIONS SCHEDULE FOR SIZE OF DUCT CONNECTIONS TO TERMINAL UNITS.

G. UNLESS NOTED OTHERWISE, BRANCH DUCTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE NECK OF THE DIFFUSER.

H. PIPE SHALL NOT BE PVC PLASTIC AND ALL WIRING SHALL BE INSTALLED IN CONDUIT OR SHALL BE PLENUM RATED.

I. NO TEMPERATURE SENSING CONTROL DEVICES SHALL BE LOCATED OVER HEAT PRODUCING DEVICES.

J. INSTALL ALL EQUIPMENT TO BE DEAD LEVEL.

K. EXTREMELY TIGHT CLEARANCES OCCUR IN THE EXISTING BUILDING. CONTRACTOR SHALL PREPARE SHEET METAL SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATING SHEET METAL. COORDINATE WITH ALL OTHER TRADES.

L. MECHANICAL DRAWINGS ARE DIAGRAMMATICAL WHERE DUCT SIZE SHOWN IS IN CONFLICT WITH STRUCTURE OR OTHER BUILDING SYSTEM, CONTRACTOR MAY MODIFY DUCT SIZE AND PROVIDE EQUIVALENT FREE AREA DUCT.

LEAD SHIELDING NOTE

S1. REFER TO ARCHITECTURAL PLANS FOR DESIGNATED WALLS IN THE PROJECT AREA TO BE LINED WITH LEAD SHIELDING BY THE CONTRACTOR. FOR EXISTING MECHANICAL DEVICES THAT ARE INDICATED TO REMAIN, THE MECHANICAL CONTRACTOR SHALL REMOVE AND RE−INSTALL OR RELOCATE THESE DEVICES. THE GC SHALL PROVIDE NEW LEAD SHIELDING FOR ALL SUCH DEVICES. FOR NEW MECHANICAL DEVICES, THE GC SHALL PROVIDE ALL LEAD SHIELDING FOR EACH DEVICE. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL SUCH WORK WITH THE GENERAL CONTRACTOR, AND SHALL ASSIST THE GENERAL CONTRACTOR IN THE PERFORMANCE OF THIS WORK. IN ANY CASE, ALL PLUMBING DEVICES, HVAC DEVICES, FIREPROTECTION DEVICES, ETC. INSTALLED IN THESE WALLS SHALL BE SHIELDED WITH LEAD.

PROJECT COORDINATION NOTES:

A. THIS PROJECT CONSISTS OF MULTIPLE TRADES OF WORK PERFORMED WITHIN AN EXISTING BUILDING, ALL OF WHICH ALLOWS VERY LITTLE PERMISSIBLE RANGE OF VARIATION. THE CONTRACTOR SHALL TAKE CAREFUL CONSIDERATION WITH THE COORDINATION AND INSTALLATION OF THE MULTITUDE OF NEW SYSTEMS WHILE ALSO ACCOMMODATING ANY EXISTING SYSTEMS TO REMAIN.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TRADES ASSOCIATED WITH THIS PROJECT AND ISSUING COORDINATION PLANS PRIOR TO COMMENCEMENT OF EACH PHASE OF CONSTRUCTION.

C. THE COORDINATION DRAWINGS SHALL ILLUSTRATE ALL SYSTEMS IN PLACE. NO EXCEPTIONS! THE CONTRACTOR SHALL SHOW ALL NECESSARY OFFSETS, TRANSITIONS, ETC. AS REQUIRED IN ORDER TO ACCOMMODATE CONDITIONS IDENTIFIED IN THE FIELD.

D. IF CONFLICTS ARE IDENTIFIED DURING THE DEVELOPMENT OF COORDINATION PLANS, THE CONTRACTOR SHALL NOTIFY THE VA COTR, ARCHITECT, AND/OR ENGINEER OF ANY CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THE PROJECT PLANS.

E. A COMPLETED SET OF COORDINATION PLANS ISSUED FOR REVIEW SHALL CONFIRM THAT THE CONTRACTOR FULLY UNDERSTANDS THE PROJECT CONSTRAINTS AND ALL KNOWN CONFLICTS HAVE BEEN ADDRESSED.

FULLY SPRINKLERED

Revisions:	Date
Bid Issue	01/17/14

CONSULTANTS:

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546−9696
FAX: (440) 546−9699

2217 East 9th Street, Suite 350
Cleveland OH 44115-1257
216-875-0100/ (F) 216-875-0111
barberhoffman.com
BARBER & HOFFMAN, INC.
Consulting Engineers

STATE OF OHIO — BRIAN M. WIDOWSKI 66625 — PROFESSIONAL ENGINEER
FFH #13027

ARCHITECT:
Perspectus architecture
13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F.216.752.3833

DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF PERSPECTUS ARCHITECTURE. THE USE OF THIS DESIGN AND CONSTRUCTION DOCUMENTS FOR PURPOSES OTHER THAN THE SPECIFIC PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE.

Drawing Title	HVAC SYMBOLS AND GENERAL NOTES
Approved: Project Director	
Project Title	EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY
Location	VAMC - WADE PARK
Date	1-17-2014
Checked	BMW
Drawn	DAD
Project Number	541-14-101
Building Number	1
Drawing Number	1-H0
Dwg. of	

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

VAV TERMINALS (VAV)

MARK	MAX. AIRFLOW (CFM)	MIN. AIRFLOW (CFM)	UNOCCUPIED AIRFLOW (CFM)	TERMINAL TYPE (NOTE 2)	HOT WATER HEATING COIL PERFORMANCE						DESIGN		
					CAPACITY (MBH)	COIL FLOW (GPM)	AIR TEMP. RISE (°F)	WATER PRES. DROP (FT.)	AIR PRES. DROP (WG)	NUMBER OF ROWS	CODE/ STANDARD	SPACE DESCRIPTION	MINIMUM REQUIREMENT
VAV-1	350	150	–	A	7.0	1.0	43	0.5	0.06"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-2	400	100	–	B	6.9	1.0	64	0.69	0.07"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-3	1000	500	–	C	17.0	2.0	31.5	0.68	0.18"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-4	250	250	–	A	8.6	1.0	32	0.5	0.05"	1	ASHRAE 62.1	CORRIDOR	CFM OA
VAV-5	350	200	100	A	7.7	1.0	35.5	0.5	0.09"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-6	150	100	50	A	5.9	1.0	54.5	0.5	0.02"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-7	350	200	100	A	7.7	1.0	35.5	0.5	0.09"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-8	150	100	50	A	5.9	1.0	54.5	0.5	0.02"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-9	350	200	100	A	7.7	1.0	35.5	0.5	0.09"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-10	250	100	–	A	5.9	1.0	54.5	0.5	0.02"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-11	150	150	–	A	7.0	1.0	42.8	0.5	0.02"	1	2010 FGI	SOILED	2/6 ACH
VAV-12	450	250	125	B	12.8	1.0	47	0.69	0.09"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-13	3000	3000	–	F	88.5	3.0	27	0.5	0.51"	2	2010 FGI	WAITING	2/12 ACH
VAV-14	300	200	–	A	7.7	1.0	35.5	0.5	0.09"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-15	1050	575	–	C	18.1	2.0	28.9	0.68	0.07"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-16	500	500	–	B	21.9	1.0	40.5	0.33	0.2"	2	ASHRAE 62.1	OFFICE	CFM OA
VAV-17	300	200	–	A	7.7	1.0	35.5	0.5	0.09"	1	ASHRAE 62.1	CORRIDOR	CFM OA
VAV-18	300	200	–	A	7.7	1.0	35.5	0.5	0.09"	1	ASHRAE 62.1	CORRIDOR	CFM OA
VAV-19	1300	400	200	D	16.0	2.0	37	0.88	0.2"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-20	360	360	–	B	11.6	2.0	31.5	2.34	0.07"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-21	250	200	–	A	7.7	1.0	35.5	0.5	0.05"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-22	500	200	–	B	9.2	1.0	42.5	0.69	0.1"	1	2010 FGI	LAB NUC ME	2/6 ACH
VAV-23	500	200	100	B	9.2	1.0	42.5	0.69	0.1"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-24	500	200	100	B	9.2	1.0	42.5	0.69	0.1"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-25	200	100	–	A	5.9	1.0	54.5	0.5	0.03"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-26	1200	200	–	C	–	–	–	–	–	–	ASHRAE 62.1	STORAGE	CFM OA
VAV-27	250	250	–	A	8.6	1.0	32	0.5	0.05"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-28	600	350	–	B	11.4	1.0	30	0.69	0.14"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-29	100	100	–	A	5.9	1.0	54.1	0.5	0.01"	1	2010 FGI	CLEAN	2/4 ACH
VAV-30	450	250	125	B	12.8	1.0	47	0.69	0.09"	1	2010 FGI	DIAGNOSTIC	2/6 ACH
VAV-31	450	150	–	B	8.0	1.0	49	0.69	0.02"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-32	200	200	–	A	7.7	1.0	35.3	0.5	0.02"	1	2010 FGI	SOILED	2/6 ACH
VAV-33	200	200	–	A	7.7	1.0	35.3	0.5	0.02"	1	2010 FGI	HOLDING RM	2/6 ACH
VAV-34	1300	400	200	D	16.0	2.0	37	0.88	0.2"	1	2010 FGI	DIAGNOSTIC	2/6 ACH

VAV TERMINAL NOTES:

NOTE 1: BASIS OF SPECIFICATION SHALL BE CAPABLE OF OPERATING WITH A MINIMUM INLET PRESSURE OF 0.5 IN. W.G. PROVIDE WITH SCREW ACCESS (UN-HINGED) WHERE TERMINALS ARE INSTALLED IN THE BEAM/JOIST SPACE.

NOTE 2: REFER TO "VARIABLE AIR VOLUME TERMINALS: CONNECTION SCHEDULE" FOR TERMINAL SIZE, DUCT CONNECTIONS AND DUCT SIZES.

VAV TERMINALS (VAV)

MARK	MAX. AIRFLOW (CFM)	MIN. AIRFLOW (CFM)	TERMINAL TYPE (NOTE 2)	HOT WATER HEATING COIL PERFORMANCE						DESIGN		
				CAPACITY (MBH)	COIL FLOW (GPM)	AIR TEMP. RISE (°F)	WATER PRES. DROP (FT.)	AIR PRES. DROP (WG)	NUMBER OF ROWS	CODE/ STANDARD	SPACE DESCRIPTION	MINIMUM REQUIREMENT
VAV-35	300	100	A	9.4	2.0	34	1.7	0.05"	1	ASHRAE 62.1	CORRIDOR	CFM OA
VAV-36	500	100	B	–	–	–	–	–	–	ASHRAE 62.1	STORAGE	CFM OA
VAV-37	225	100	A	8.2	1.0	33	0.5	0.04"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-38	200	100	A	5.9	1.0	54.1	0.5	0.01"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-39	200	100	A	5.9	1.0	54.1	0.5	0.01"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-40	600	350	B	11.5	1.0	30.1	0.69	0.06"	1	ASHRAE 62.1	DRESSING	CFM OA
VAV-41	175	75	A	7.0	1.0	43	0.5	0.02"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-42	325	50	A	5.9	1.0	54	0.5	0.01"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-43	125	50	A	5.9	1.0	54	0.5	0.01"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-44	125	50	A	5.9	1.0	54	0.5	0.01"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-45	425	200	B	20.1	1.0	46	0.33	0.13"	2	ASHRAE 62.1	OFFICE	CFM OA
VAV-46	125	50	A	5.9	1.0	54	0.5	0.01"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-47	125	50	A	5.9	1.0	54	0.5	0.01"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-48	125	75	A	6.4	1.0	47	0.5	0.015"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-49	150	75	A	7.0	1.0	43	0.5	0.02"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-50	150	75	A	6.4	1.0	47	0.5	0.015"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-51	350	100	A	6.4	1.0	47	0.5	0.015"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-52	225	100	A	5.9	1.0	54	0.5	0.01"	1	ASHRAE 62.1	LOUNGE	CFM OA
VAV-53	150	75	A	6.4	1.0	47	0.5	0.015"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-54	150	75	A	7.0	1.0	43	0.5	0.02"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-55	225	100	A	8.2	1.0	33	0.5	0.04"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-56	400	200	B	20.1	1.0	46	0.33	0.13"	2	ASHRAE 62.1	OFFICE	CFM OA
VAV-57	200	100	A	7.7	1.0	35	0.5	0.03"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-58	125	75	A	5.9	1.0	54	0.5	0.01"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-59	125	50	A	5.9	1.0	54	0.5	0.01"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-60	1100	1100	D	44	3.0	37	1.9	0.23"	2	ASHRAE 62.1	OFFICE	CFM OA
VAV-61	225	100	A	8.2	1.0	33	0.5	0.04"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-62	500	300	B	29	2.0	38	1.3	0.36"	2	ASHRAE 62.1	OFFICE	CFM OA
VAV-63	125	50	A	5.9	1.0	54	0.5	0.01"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-64	150	50	A	7.0	1.0	43	0.5	0.02"	1	ASHRAE 62.1	COPY/WORK	CFM OA
VAV-65	250	100	A	9.4	2.0	34	1.7	0.05"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-66	150	75	A	7.0	1.0	43	0.5	0.02"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-67	150	75	A	7.0	1.0	43	0.5	0.02"	1	ASHRAE 62.1	OFFICE	CFM OA
VAV-68	150	75	A	7.0	1.0	43	0.5	0.02"	1	ASHRAE 62.1	OFFICE	CFM OA

VAV TERMINAL NOTES:

NOTE 1: BASIS OF SPECIFICATION SHALL BE CAPABLE OF OPERATING WITH A MINIMUM INLET PRESSURE OF 0.5 IN. W.G. PROVIDE WITH SCREW ACCESS (UN-HINGED) WHERE TERMINALS ARE INSTALLED IN THE BEAM/JOIST SPACE.

NOTE 2: REFER TO "VARIABLE AIR VOLUME TERMINALS: CONNECTION SCHEDULE" FOR TERMINAL SIZE, DUCT CONNECTIONS AND DUCT SIZES.

EXHAUST FANS (EF)

MARK	EF-1
STYLE	UTILITY VENT SET
TYPE	CENT.
PERFORMANCE	
AIR FLOW (CFM)	1,000
STATIC PRESSURE (IN W.G.)	3.5
FAN SPEED (RPM)	2740
NOISE LEVEL (SONES)	20
MOTOR	
TYPE OF DRIVE	BELT
MOTOR SIZE (HP)	3/4
VOLTS-PHASE-HERTZ	480-3-60
ACCESSORIES	
FAN SPEED CONTROL (NOTE 2)	YES
SPRING ISOLATION	YES

NOTES:

1. FAN SHALL BE PROVIDED WITH VARIABLE SPEED DRIVE WITH INTEGRAL LINE SIDE DISCONNECT.

AIR DISTRIBUTION DEVICE (DIFFUSERS, REGISTERS AND GRILLES) (S1 CFM / NECK)

MARK	TYPE	FACE SIZE (INCHES)	NECK SIZE (INCHES)	STYLE	COLOR	MATERIAL
S1	SUPPLY DIFFUSER	24x24	SEE TAG	LAY-IN	WHITE	ALUMINUM
S2	SUPPLY DIFFUSER	11-1/8"ø	SEE TAG	SURFACE	WHITE	ALUMINUM
S3	SUPPLY DIFFUSER	50x8	SEE TAG	SURFACE WITH 1" BORDER	WHITE	ALUMINUM
S4	SUPPLY DIFFUSER	22"ø	SEE TAG	SURFACE	WHITE	ALUMINUM
S5	SUPPLY DIFFUSER	27"ø	SEE TAG	ROUND SURFACE	WHITE	STEEL
R1	RETURN GRILLE	24x12	SEE TAG	PERFORATED FACE LAY-IN	WHITE	ALUMINUM
R2	RETURN GRILLE	24x24	SEE TAG	PERFORATED FACE LAY-IN	WHITE	ALUMINUM
R3	RETURN GRILLE	50x8	SEE TAG	SURFACE WITH 1" BORDER	WHITE	ALUMINUM
R4	RETURN GRILLE	50x12	SEE TAG	SURFACE WITH 1" BORDER	WHITE	ALUMINUM
R5	RETURN GRILLE	74x10	SEE TAG	SURFACE WITH 1" BORDER	WHITE	ALUMINUM
R6	RETURN GRILLE	14x12	SEE TAG	SURFACE WITH 1" BORDER	WHITE	STEEL
E1	EXHAUST GRILLE	24x12	SEE TAG	PERFORATED FACE LAY-IN	WHITE	ALUMINUM

AC UNIT (CHILLED WATER) (AC-)

MARK		AC-1	AC-2	AC-3	AC-4
SPACE SERVED		CT ROOM	CT ROOM	CT CONTROL ROOM	IT ROOM
AIR HANDLER CONFIGURATION		HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL
SUPPLY FAN PERFORMANCE					
AIR FLOW	(CFM)	1,250	1,250	1,000	1,000
OUTDOOR AIR	(%)	0	0	0	0
EXTERNAL STATIC PRESSURE	(IN. W.G.)	0.7	0.7	0.3	0.3
MOTOR SIZE	(HP)	1.5	1.5	0.5	0.5
COOLING PERFORMANCE (CHILLED WATER COIL)					
TOTAL COOLING CAPACITY	(MBH)	31.0	31.0	26.0	26.0
SENSIBLE COOLING CAPACITY	(MBH)	27.6	27.6	22.8	22.8
ENTERING AIR TEMP. DB/WB	(DEG. F.)	75/62.5	75/62.5	75/62.5	75/62.5
LEAVING AIR TEMP. DB/WB	(DEG. F.)	53.9/52.2	53.9/52.2	53.9/52.2	53.9/52.2
WATER FLOW/PRESSURE DROP	(GPM/FT. HD)	6.0/10	6.0/10	5.0/7.2	5.0/7.2
EWT/LWT	(DEG. F.)	45.0/55.0	45.0/55.0	45.0/55.0	45.0/55.0
ELECTRIC HUMIDIFIER					
TOTAL CAPACITY	(LB/HR)	4.3	4.3	4.3	4.3
KW		1.5	1.5	1.5	1.5
FILTERS					
TYPE		2" STANDARD	2" STANDARD	4" STANDARD	4" STANDARD
ELECTRICAL DATA – AIR CONDITIONER					
VOLTS-PHASE-HERTZ		460-3-60	460-3-60	460-3-60	460-3-60
FULL LOAD AMPS		5.5	5.5	4.8	4.8
WIRE SIZING AMPS		6.9	6.9	6.0	6.0
MAX. OVERCURRENT PROTECTIVE DEVICE	(AMPS)	15	15	15	15
ACCESSORIES					
MICROPROCESSOR CONTROL WITH WALL MOUNTED DISPLAY		YES	YES	YES	YES
RETURN AIRSIDE SMOKE DETECTOR		NO	NO	NO	NO
MANUFACTURER'S STARTUP		YES	YES	YES	YES
FACTORY DISCONNECT SWITCH		YES	YES	YES	YES
SINGLE FLOAT CONDENSATE PUMP		YES	YES	YES	YES
3-WAY CHILLED WATER MODULATING VALVE		NO	NO	YES	NO
HIGH STATIC BLOWER MODULE		YES	YES	NO	NO
2-WAY CHILLED WATER MODULATING VALVE		YES	YES	NO	YES
BACnet INTERFACE		YES	YES	YES	YES
REMOTE TEMPERATURE & HUMIDITY SENSORS		YES	YES	YES	YES
SUPPLY AIR PLENUM WITH CEILING FASCIA		NO	NO	YES	YES
BASIS OF SPECIFICATIONS					
MANUFACTURER		LIEBERT	LIEBERT	LIEBERT	LIEBERT
AIR CONDITIONER MODEL NUMBER		MMD 40C (MINI-MATE2)	MMD 40C (MINI-MATE2)	MMD 40C (MINI-MATE2)	MMD 40C (MINI-MATE2)

NOTES:
1. UNITS SHALL BE SUPPORTED FROM STRUCTURE WITH THREADED RODS AND VIBRATION ISOLATORS.

GENERAL COMMISSIONING NOTES:

A. SEE SPECIFICATION SECTION 019100 GENERAL COMMISSIONING REQUIREMENTS FOR COMMISSIONING SCOPE AND REQUIREMENTS.

B. THE MECHANICAL CONTRACTOR, TEMPERATURE CONTROLS CONTRACTOR, AND BALANCING CONTRACTOR WILL WORK WITH THE COMMISSIONING AGENT TO COMPLETE THE PREFUNCTIONAL AND FUNCTIONAL TESTING AND VERIFICATION.

C. FULL FUNCTIONAL TESTING (INCLUDING SENSOR CALIBRATION AND AIR/WATER BALANCING) SHALL BE PERFORMED ON ALL VAV BOXES. CX AGENT, TAB CONTRACTOR AND CONTROLS CONTRACTOR WILL WORK TOGETHER DURING FUNCTIONAL TESTING OF VAV BOXES.

VARIABLE AIR VOLUME TERMINALS : CONNECTION SCHEDULE

TERMINAL TYPE	INLET		MAX. AIRFLOW (CFM)	TERMINAL AIR PRESSURE DROP (IN W.G.)	RADIATED NOISE (NC)	DISCHARGE	
	TERMINAL NECK SIZE (IN)	SUPPLY DUCT (IN)				TERMINAL CONN. SIZE (IN)	DISCHARGE DUCT (IN)
A	6"ø	8"ø	350	1.0"	25	12x8	10x10
B	8"ø	10"ø	700	1.0"	27	12x10	16x12
C	10"ø	12"ø	1200	1.0"	28	14x12.5	22x12
D	12"ø	14"ø OR 16x10	1600	1.0"	30	16x15	26x12
E	14"ø	18x12	2400	1.0"	30	20x18	30x12
F	16"ø	24x12	3200	1.0"	25	24x18	34x14

NOTES:

1. PROVIDE DUCT SIZES AS INDICATED OR EQUIVALENT FREE AREA AS INDICATED ON PLANS.
2. PROVIDE FLEXIBLE DUCT CONNECTORS ON SUPPLY DUCTWORK CONNECTION POINT.
3. CONTRACTOR SHALL PROVIDE ALL TRANSITIONS/OFFSETS AS NECESSARY.

Bid Issue	01/17/14
Revisions:	Date

CONSULTANTS:

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX: (440) 546-9699

BARBER & HOFFMAN, INC.
2217 East 9th Street, Suite 350
Cleveland OH 44115-1257
216-875-0100/ (F) 216-875-0111
barberhoffman.com
Consulting Engineers

STATE OF OHIO — BRIAN M. WIDOW-SKI 66625 — PROFESSIONAL ENGINEER
FFH #13027

ARCHITECT:
Perspectus architecture
13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F.216.752.3833

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Drawing Title: HVAC SCHEDULES

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-H1

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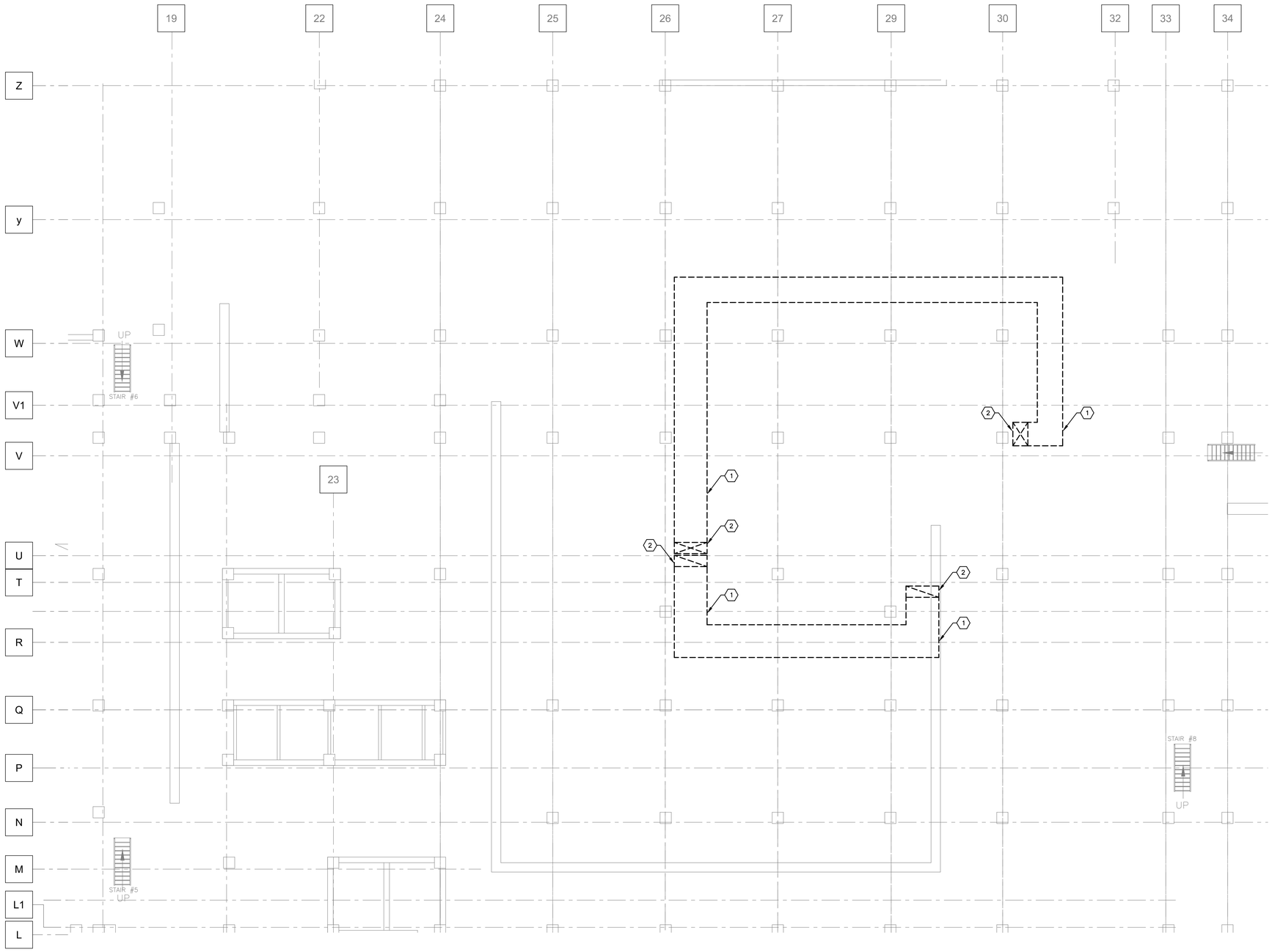
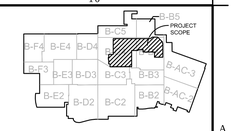
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978





KEY PLAN - BASEMENT

Scale = None

NORTH

TRUE NORTH

PARTIAL SUB-BASEMENT
HVAC DEMOLITION PLAN 1

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

GENERAL NOTES:

A. SUB–BASEMENT IS A CRAWL SPACE APPROXIMATELY FOUR (4) FEET HIGH WITH LIMITED CLEARANCE AND LIGHTING. ACCESS TO SUB–BASEMENT CAN BE ACHIEVED THROUGH STAIR NUMBER EIGHT (8) AND/OR STAIR NUMBER FIVE (5). ALL PIPING SHOWN IS LOCATED BELOW THE BASEMENT IN THE SUB BASEMENT.

B. CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING CONDITIONS OF THE SUB BASEMENT PRIOR TO BIDDING THIS WORK. THE LARGE QUANTITY OF EXISTING PIPE AND CONDUIT WILL REQUIRE MULTIPLE OFFSETS AND CHANGES IN ELEVATION. THE CONTRACTOR SHALL INCORPORATE THESE INTO HIS BID AND COORDINATE THE EXACT ROUTING.

C. COORDINATE SUB–BASEMENT WORK WITH PHASED WORK IN BASEMENT.

CODED NOTES:

(1) REMOVE ALL DUCTWORK SHOWN, INCLUDING ALL ASSOCIATED HANGERS, INSULATION, FIRE DAMPERS, AND SUPPORTS.

(2) REMOVE DUCTWORK UP THROUGH FLOOR AND CAP.

FULLY SPRINKLERED

Bid Issue	01/17/14
Revisions:	Date

CONSULTANTS:

BARBER & HOFFMAN, INC.
Consulting Engineers
2217 East 9th Street, Suite 350
Cleveland OH 44115-1257
216-875-0100/ (F) 216-875-0111
barberhoffman.com

STATE OF OHIO
BRIAN M. WIDOWSKI
66625
PROFESSIONAL ENGINEER
FPH #13027

ARCHITECT:

Perspectus architecture
13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F.216.752.3833

DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF PERSPECTUS ARCHITECTURE. THE USE OF THIS DESIGN AND THESE CONSTRUCTION DOCUMENTS FOR PURPOSES OTHER THAN THE SPECIFIC PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE.

Drawing Title: PARTIAL SUB-BASEMENT HVAC DEMOLITION PLAN

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-H2

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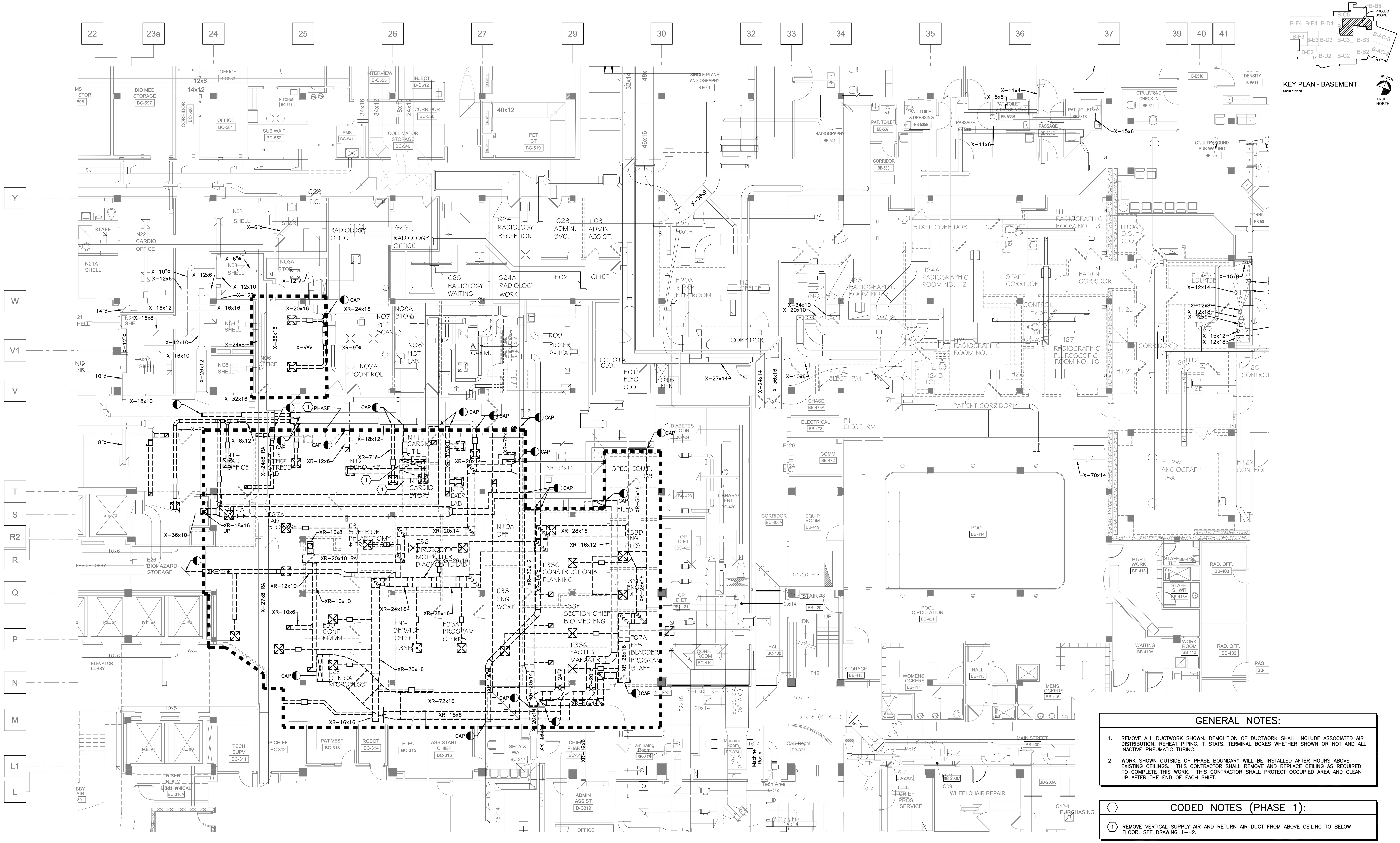

GENERAL NOTES:

1. REMOVE ALL DUCTWORK SHOWN. DEMOLITION OF DUCTWORK SHALL INCLUDE ASSOCIATED AIR DISTRIBUTION, REHEAT PIPING, T-STATS, TERMINAL BOXES WHETHER SHOWN OR NOT AND ALL INACTIVE PNEUMATIC TUBING.
2. WORK SHOWN OUTSIDE OF PHASE BOUNDARY WILL BE INSTALLED AFTER HOURS ABOVE EXISTING CEILINGS. THIS CONTRACTOR SHALL REMOVE AND REPLACE CEILING AS REQUIRED TO COMPLETE THIS WORK. THIS CONTRACTOR SHALL PROTECT OCCUPIED AREA AND CLEAN UP AFTER THE END OF EACH SHIFT.

CODED NOTES (PHASE 1):

1 REMOVE VERTICAL SUPPLY AIR AND RETURN AIR DUCT FROM ABOVE CEILING TO BELOW FLOOR. SEE DRAWING 1-H2.

PHASING NOTES:

REFER TO ARCHITECTURAL PHASING PLANS (DWGS 1-01.1, 1-01.2, 1-01.3, 1-01.4) FOR ADDITIONAL CONSTRUCTION PHASING REQUIREMENTS. CONTRACTOR WILL HAVE LIMITED ACCESS AND TIME TO COMPLETE WORK IN AREAS NOTED ON ARCHITECTURAL PHASING PLANS. WORK IN AREAS OUTSIDE CONSTRUCTION PHASE BOUNDARY OR AREAS NOTED TO BE COMPLETED AS A PART OF PREVIOUS OR FUTURE SEQUENCE WITHIN THE PHASE SHALL BE COMPLETED DURING OFF HOURS.

PARTIAL BASEMENT HVAC DEMOLITION PLAN - PHASE 1 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

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CONSULTANTS:

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL (440) 546-9696
FAX (440) 546-9699

BARBER & HOFFMAN, INC.
Consulting Engineers
2217 East 9th Street, Suite 350
Cleveland OH 44115-1257
216-875-0100/ (F) 216-875-0111
barberhoffman.com

STATE OF OHIO — BRIAN M. WIDOWSKI
FFH #13027

ARCHITECT:

Perspectus architecture
13212 Shaker Square Suite 204 Cleveland, Ohio 44120
P. 216.752.1800 F.216.752.3833

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Drawing Title: **PARTIAL BASEMENT HVAC DEMOLITION PLAN - PHASE 1**

Approved: Project Director

Project Title: **EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY**

Location: **VAMC - WADE PARK**

Date	Checked	Drawn
1-17-2014	BMW	DAD

Project Number: 541-14-101

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Drawing Number: **1-H3.1**

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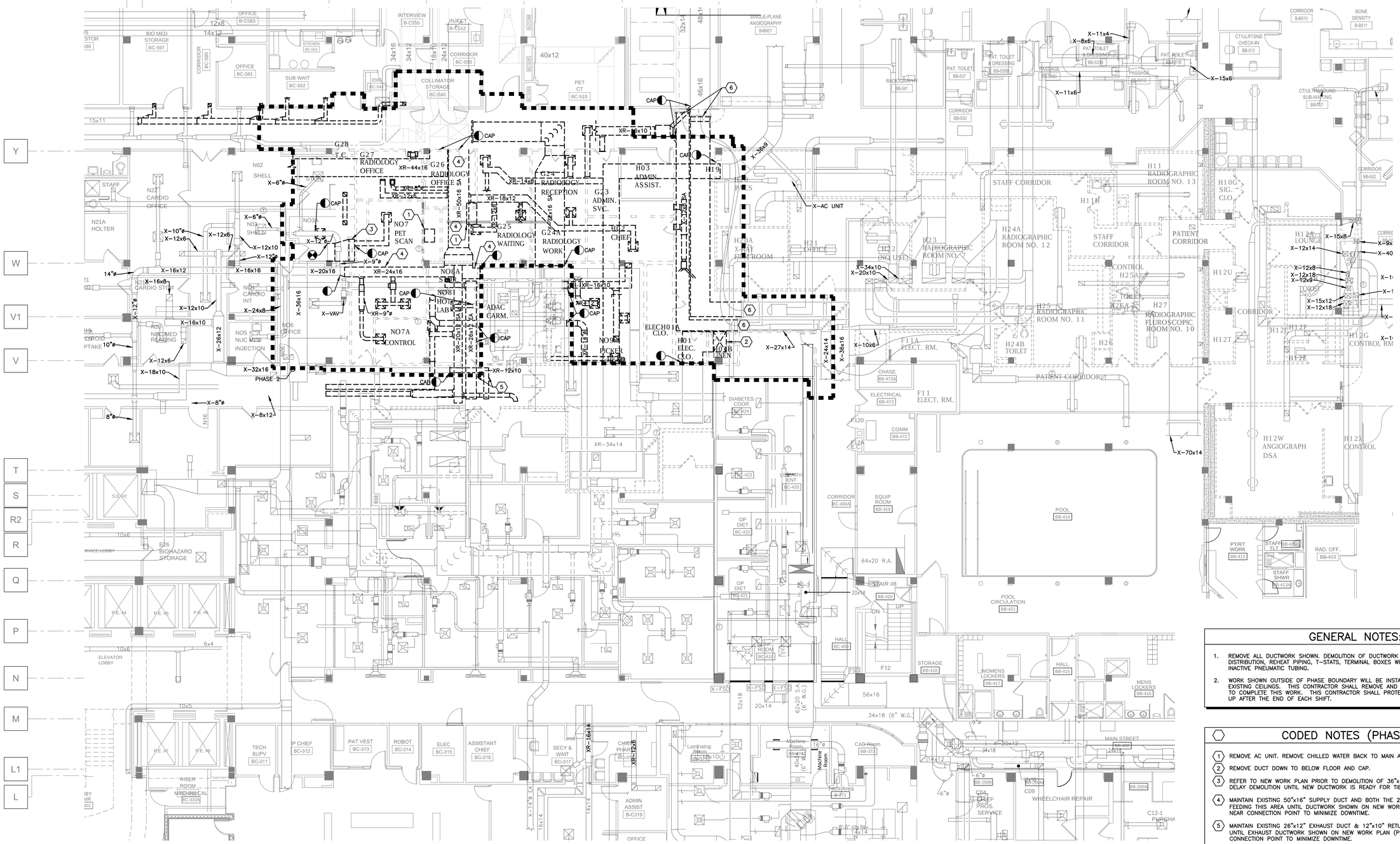
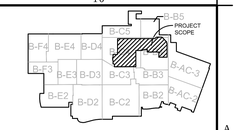


PARTIAL BASEMENT HVAC DEMOLITION PLAN - PHASE 2

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

1



KEY PLAN - BASEMENT

Scale = None

NORTH TRUE NORTH

GENERAL NOTES:

1. REMOVE ALL DUCTWORK SHOWN. DEMOLITION OF DUCTWORK SHALL INCLUDE ASSOCIATED AIR DISTRIBUTION, REHEAT PIPING, T–STATS, TERMINAL BOXES WHETHER SHOWN OR NOT AND ALL INACTIVE PNEUMATIC TUBING.
2. WORK SHOWN OUTSIDE OF PHASE BOUNDARY WILL BE INSTALLED AFTER HOURS ABOVE EXISTING CEILINGS. THIS CONTRACTOR SHALL REMOVE AND REPLACE CEILING AS REQUIRED TO COMPLETE THIS WORK. THIS CONTRACTOR SHALL PROTECT OCCUPIED AREA AND CLEAN UP AFTER THE END OF EACH SHIFT.

CODED NOTES (PHASE 2):

1. REMOVE AC UNIT. REMOVE CHILLED WATER BACK TO MAIN AND CAP.
2. REMOVE DUCT DOWN TO BELOW FLOOR AND CAP.
3. REFER TO NEW WORK PLAN PRIOR TO DEMOLITION OF 36"x16" RETURN DUCT AND SHAFT. DELAY DEMOLITION UNTIL NEW DUCTWORK IS READY FOR TIE–IN.
4. MAINTAIN EXISTING 50"x16" SUPPLY DUCT AND BOTH THE 24"x16" AND 26"x16" BRANCHES FEEDING THIS AREA UNTIL DUCTWORK SHOWN ON NEW WORK PLAN (PHASE 2) IS INSTALLED NEAR CONNECTION POINT TO MINIMIZE DOWNTIME.
5. MAINTAIN EXISTING 26"x12" EXHAUST DUCT & 12"x10" RETURN DUCT FEEDING THIS AREA UNTIL EXHAUST DUCTWORK SHOWN ON NEW WORK PLAN (PHASE 2) IS INSTALLED NEAR CONNECTION POINT TO MINIMIZE DOWNTIME.
6. PROVIDE TEMPORARY FLEXIBLE DUCTWORK TO CONNECT THE DUCTS BETWEEN THE DEMOLISHED DUCT. ROUTE TEMPORARY DUCT THROUGH EXISTING PHASE 3 CEILING SPACE, EAST OF CORRIDOR.

FULLY SPRINKLERED

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FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
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TEL. (440) 546-9696
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Perspectus architecture
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Drawing Title: PARTIAL BASEMENT HVAC DEMOLITION PLAN - PHASE 2

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

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Drawing Number: 1-H3.2

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