

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one eighth inch = one foot

one sixteenth inch = one foot

6"

1"

6"

2"

6"

4"

8"

16"

1

2

3

4

5

6

7

8

9

MECHANICAL LEGEND

SYMBOL	ABBREV	DESCRIPTION
— — — — —	CW	COLD WATER; DOMESTIC
— — — — —	HW	HOT WATER; DOMESTIC
— — — — —	HWR	HOT WATER RECIRC.; DOMESTIC
— HS — — —	HS	HEATING WATER SUPPLY
— — — — HR — — —	HR	HEATING WATER RETURN
— G — — —	G	GAS
— A — — —	A	AIR
— V — — —	VAC	VACUUM
— O — — —	O	OXYGEN
— NO — — —	NO	NITROUS OXIDE
— N — — —	N	NITROGEN
— DW — — —	DW	DISTILLED WATER
— DIW — — —	DIW	DEIONIZED WATER
— — — — —	SAN	SANITARY
— — — — —	V	SANITARY VENT
— — SW — — —	SW	STORM WATER
— D — — —	D	(A/C) CONDENSATE DRAIN
— — — — —	CO	CLEANOUT; LINE; FLOOR
— — — — —	IW	INDIRECT WASTE
⊙	D-1	FLOOR DRAIN
⊠	FS-1	FLOOR SINK
⊕		DOOR LOUVER
⊕		CENTER LINE
UC		UNDERCUT

SYMBOL

ABBREV

DESCRIPTION

PRV

PRESSURE REDUCING VALVE

2-WAY CONTROL VALVE

3-WAY CONTROL VALVE

RELIEF VALVE (TYPE AS NOTED)

THERMAL EXPANSION VALVE

THERMOSTAT; "G" FOR GUARD; "N" FOR NIGHT

TEMPERATURE SENSOR

HUMIDISTAT

SENSOR

VACUUM BREAKER

WATER HAMMER ARRESTOR

MAV

MANUAL AIR VENT

AAV

AUTOMATIC AIR VENT WITH SHUT-OFF VALVE

WH OR HB

WALL HYDRANT WITH VACUUM BREAKER OR HOSE BIBB WITH VACUUM BREAKER

FLOW SWITCH

FLEXIBLE PIPE CONNECTOR

PIPE GUIDE

PIPE ANCHOR

PIPE UNION

IN-LINE PIPE EXPANSION JOINT

FTR

FINNED TUBE RADIATION (AS SCHEDULED)

THERMOMETER

PRESSURE/TEMPERATURE TEST PLUG

PRESSURE GAUGE WITH STOPCOCK

GAUGE COCK

STRAINER

STRAINER WITH BLOW-OFF VALVE AND CAP & CHAIN

SHUT OFF VALVE (SEE SPECIFICATION FOR TYPE)

SHUT OFF VALVE IN VERTICAL (SEE SPECIFICATION FOR TYPE)

GLOBE VALVE

CHECK VALVE; DIRECTION OF FLOW INDICATED

BALANCING VALVE

BALL VALVE

BUTTERFLY VALVE

IN-LINE CIRCULATING PUMP

CX

CONNECT TO EXISTING

POD

POINT OF DISCONNECT

MECHANICAL ABBREVIATIONS

ABBREV	DESCRIPTION
Ø OR DIA	DIAMETER
⊙	AT
ACH	AIR CHANGES PER HOUR
A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
ALT	ALTERNATE
APD	AIR PRESSURE DROP
ATD	AIR TRANSFER DUCT
AVG	AVERAGE
BDD	BACK DRAFT DAMPER
BTUH	BRITISH THERMAL UNITS PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CX	CONNECT EXISTING
D-1	DIFFUSER WITH DESIGNATOR NUMBER
DIA	DIAMETER
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DP	DIFFERENTIAL PRESSURE SWITCH
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EW	ENTERING WATER TEMPERATURE
EX	EXISTING
F	FAHRENHEIT
FA	FACE AREA
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FTR	FINNED TUBE RADIATION
FV	FACE VELOCITY
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSE POWER
ID	INSIDE DIAMETER
INV	INVERT
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BTU/HR.
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
POD	POINT OF DISCONNECT
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH-GAGE
R-1	REGISTER WITH DESIGNATOR NUMBER
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RLX	RELOCATE EXISTING
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RX	REMOVE EXISTING
SA	SUPPLY AIR
SENS/TOT	SENSIBLE/TOTAL
SP	STATIC PRESSURE
TEMP	TEMPORARY
TG	TRANSFER GRILLE
TYP	TYPICAL
V	VENT/VACUUM
V/PH/HZ	VOLTS/PHASE/HERTZ
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VS	VENT STACK
W	WATTS
WCO	WALL CLEANOUT WITH COVER PLATE
WG	WATER GAUGE
WB	WET BULB
WPD	WATER PRESSURE DROP
W/O	WITH OUT

GENERAL NOTES: (APPLY TO ALL DRAWINGS)

- THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- RUN ALL SOIL, WASTE AND DRAIN PIPING WITH 2 PERCENT MINIMUM GRADE UNLESS OTHERWISE NOTED. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.
- ELEVATIONS NOTED ARE TO CENTERLINES OF PIPES FOR ALL PRESSURE LINES AND TO INVERT FOR ALL GRAVITY FLOW LINES.
- PROVIDE SHUTOFF VALVES IN DOMESTIC WATER SYSTEMS IN BRANCH LINES SERVING TWO OR MORE FIXTURES.
- WHERE HOT AND COLD WATER PIPING DROPS INTO PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
- PROVIDE AN AIR VENT AT THE TOP OF ALL RISERS AND AT THE HIGH POINT OF EACH DROP IN THE HEATING WATER SYSTEM.
- UNLESS OTHERWISE NOTED, ALL PIPING AND DUCTWORK IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.
- INSTALL PIPING AND DUCTWORK SO THAT ALL VALVES AND DAMPERS ARE ACCESSIBLE.
- COORDINATE ALL MECHANICAL WORK WITH ELECTRICAL WORK, ETC., SHOWN ON OTHER DRAWINGS.
- EXCEPT AS OTHERWISE NOTED, LOCATE ALL ROOM THERMOSTATS 60 INCHES ABOVE FINISHED FLOOR. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
- ALL THERMOSTATS SHALL BE LABELED WITH THE NAME AND NUMBER OF THE TERMINAL BOX THEY CONTROL.
- CERTAIN ITEMS SUCH AS ACCESS DOORS, CLEANOUTS, RISE AND DROPS IN DUCTWORK AND PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- WHERE THE INSTALLATION OF NEW SERVICES OR THE EXTENSION OF EXISTING SERVICES REQUIRE CUTTING OF EXISTING FLOORS, WALLS, PARTITIONS, ETC., IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK FOR THE PRESENCE OF EXISTING MECHANICAL AND/OR ELECTRICAL SERVICES WITHIN OR IMMEDIATELY BENEATH CONSTRUCTION AND EXERCISE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE SERVICES OR INJURY TO PERSONNEL DUE TO CONTACT WITH SAME. WHERE PRACTICAL, SUCH EXISTING SERVICES SHALL BE TEMPORARILY DISCONNECTED DURING THE CUTTING OPERATION. SUCH OUTAGES IN SERVICE SHALL BE SCHEDULED IN ADVANCE WITH THE OWNER.
- FLOW SCHEMATIC AND RISER DIAGRAMS INDICATE FLOW AND OPERATION CONCEPT AS WELL AS GENERAL ARRANGEMENT OF EQUIPMENT. VALVES, PRESSURE GAUGES, ETC. ARE INDICATED FOR THIS PURPOSE. ADDITIONAL VALVES, PRESSURE GAUGES, ETC. SHALL BE PROVIDED AS SHOWN ON VARIOUS EQUIPMENT DETAILS. SEE PLANS AND DETAILS FOR PIPE SIZES NOT INDICATED ON FLOW SCHEDULE AND RISER DIAGRAMS.
- MAINTAIN MAXIMUM CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUIT, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN INTERSTITIAL SPACES.
- BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. COORDINATE SCHEDULING OF ALL WORK WITH DESIGNATED BUILDING PERSONNEL. PROTECT OCCUPIED AREAS FROM NOISE, DUST AND OTHER DEBRIS. MAINTAIN ACCESS TO OCCUPIED AREAS FOR FACILITY STAFF.
- WHERE ITEMS ARE REMOVED OR REPLACED, CONTRACTOR SHALL PATCH AND PAINT REMAINING EXPOSED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- ALL INTERIOR AND EXTERIOR PENETRATIONS CREATED BY REMOVAL OR CREATED BY INSTALLATION SHALL BE SEALED AND/OR REPAIRED TO MATCH ADJACENT CONSTRUCTION AND FIRE RATINGS.
- ALL ABANDONED PIPING, CONDUIT, ETC. SHALL BE REMOVED TO A POINT OF CONCEALMENT AND CAPPED. WIRING SHALL BE REMOVED TO SOURCE.
- ALL EXISTING SUPPLY, RETURN, EXHAUST, OUTSIDE, AND TRANSFER AIR DUCTWORK INDICATED TO BE RETAINED AND REUSED SHALL BE THOROUGHLY CLEANED AND REPAIRED. REPAIR DAMAGED DUCT INSULATION ON ASSOCIATED DUCTWORK.
- THE AIR VOLUME AND HEATING WATER FLOW FOR ALL EXISTING EQUIPMENT, SYSTEMS, AND DEVICES SHALL BE REBALANCED TO FLOWS WHERE INDICATED IN SCHEDULES OR ON DRAWINGS.
- ALL MOTOR OPERATED AND GRAVITY DAMPERS AFFECTED BY THE WORK SHALL BE INSPECTED, CLEANED, LUBRICATED AND PROVEN OPERATIONAL.
- ALL DUCTWORK AND INSULATION AFFECTED BY THE WORK OF THIS PROJECT SHALL BE REPAIRED AND PATCHED INCLUDING HOLES LEFT BY THE REMOVAL OF EXISTING CONTROL DEVICES.
- WHERE EXISTING VAV BOXES ARE REMOVED, ALL ASSOCIATED CONTROLS DEVICES SHALL BE TURNED OVER TO THE VA.

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e-mail: ebl@eblengineers.com

Drawing Title

GENERAL NOTES, MECHANICAL
LEGEND AND ABBREVIATIONS

Approved Project Director

APPROVED - BY - NAME
APPROVED - BY - TITLE/RANK
STATION - MANAGEMENT

Project Title

RENOVATE / BACKFILL
ONCOLOGY 2C,
3D SLEEP LAB AND MSO

Location

VAMC BALTIMORE, MD.

Date

OCTOBER 1, 2014

Checked

MPS

Drawn

SLB

Project Number

512-14-102

Building Number

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Drawing Number

MI-001

Dwg. 51 of 98

Office of
Construction
and Facilities
Management

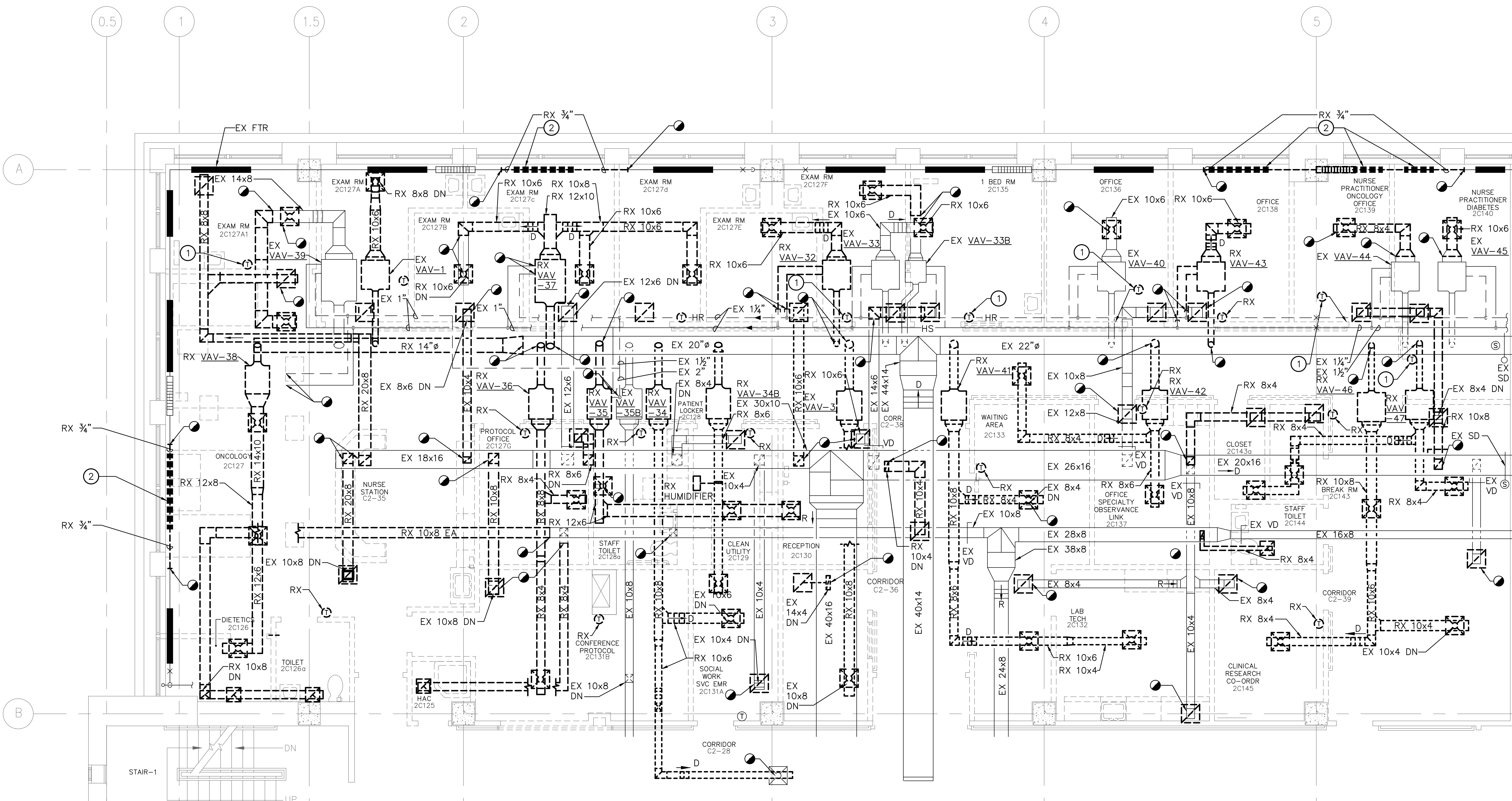
Department of
Veterans Affairs

Revisions:

Date

VA FORM 08-6231

three eighths inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
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four inches = one foot
five inches = one foot
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ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot



PARTIAL SECOND FLOOR PLAN - ONCOLOGY/ENDOCRINOLOGY SUITES - MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0"

GENERAL NOTES: (APPLY TO THIS DRAWING ONLY)

- ALL MECHANICAL SYSTEMS AND DUCTWORK ARE LOCATED IN AN INTERSTITIAL SPACE ABOVE THE FLOOR THEY SERVE. PROVIDE OPENINGS IN THE FLOOR OF THE INTERSTITIAL SPACE AS NECESSARY TO CONNECT DUCTWORK TO AIR DEVICES AND SEAL ANY OPENINGS THAT REMAIN AFTER DUCTWORK IS REMOVED.
- ALL EXISTING FINNED TUBE RADIATION COVERS IN ONCOLOGY SUITE SHALL BE REPLACED. SEE ARCHITECTURAL DRAWINGS FOR DETAILS AND SPECIFICATIONS.

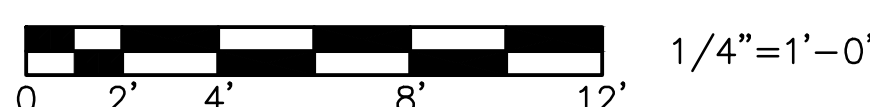
DRAWING NOTES: (APPLY TO THIS DRAWING ONLY)

- RELOCATE THERMOSTAT TO LOCATION SHOWN ON MECHANICAL WORK PLAN AND EXTEND CONTROL WIRING AND CONDUIT AS NECESSARY.
- RELOCATE EXISTING FINNED TUBE RADIATION AND MODIFY ENCLOSURE AS NECESSARY.

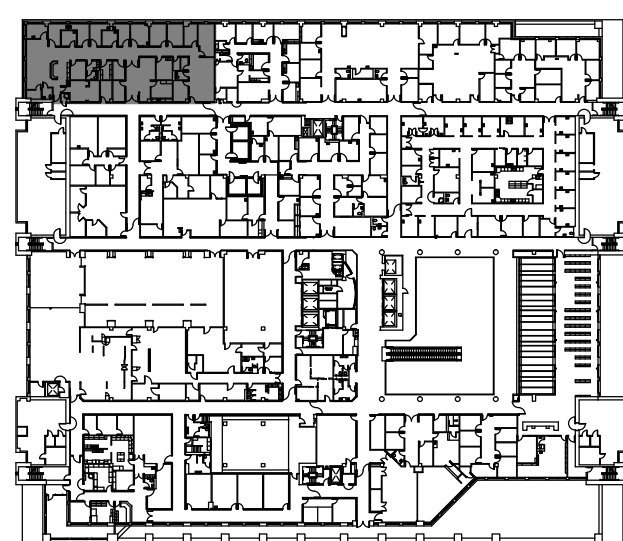
CAUTION:

IF THIS PLAN IS A REDUCTION, GRAPHIC SCALES MUST BE USED.

GRAPHIC SCALE



KEY PLAN



SECOND FLOOR

FULLY SPRINKLERED

100% SUBMISSION

		CONSULTANTS:			ARCHITECT/ENGINEERS:	<div><div>MIMAR ARCHITECTS, INC. Architecture, Engineering, Design/Build 7000 Security Blvd, Suite #320 Baltimore, MD 21244 Phone: 410-944-4900 Fax: 410-499-8044</div></div>	<div><div>EBL ENGINEERS, LLC MECHANICAL • ELECTRICAL • FIRE PROTECTION The Professional Engineering Center 8005 Harford Road, Baltimore, Maryland 21234-5701 (410) 668-8000 FAX (410) 668-8001 e-mail: eb1@eblengineers.com</div></div>	Drawing Title PARTIAL SECOND FLOOR PLAN - ONCOLOGY/ENDOCRINOLOGY SUITES - MECHANICAL DEMOLITION	Project Title RENOVATE / BACKFILL ONCOLOGY 2C, 3D SLEEP LAB AND MSO	Project Number 512-14-102	<div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div>
								Building Number -	Drawing Number MD-101	Dwg. 53 of 98	
								Location VAMC BALTIMORE, MD.			
								Date OCTOBER 1, 2014	Checked MPS	Drawn SLB	
Revisions:	Date							Approved Project Director APPROVED - BY - NAME APPROVED - BY - TITLE/RANK STATION - MANAGEMENT			

1. ALL MECHANICAL SYSTEMS AND DUCTWORK ARE LOCATED IN AN INTERSTITIAL SPACE ABOVE THE FLOOR THEY SERVE. PROVIDE OPENINGS IN THE FLOOR OF THE INTERSTITIAL SPACE AS NECESSARY TO CONNECT DUCTWORK TO AIR DEVICES AND SEAL ANY OPENINGS THAT REMAIN AFTER DUCTWORK IS REMOVED.
2. ROOMS 2C119, 2C119a, 2C120, 2C121, 2C122, 2C123, 2C123a, AND C2-33 WILL BE USED AS A SWING SPACE DURING CONSTRUCTION. SEE SHEET G-006 FOR PHASING INFORMATION. ALL MECHANICAL SYSTEMS SERVING THESE SPACES SHALL REMAIN IN SERVICE DURING USE AS SWING SPACE AND DEMOLITION SHALL NOT BEGIN UNTIL USE AS SWING SPACE IS COMPLETE. EXISTING THERMOSTATS SHALL BE RELOCATED TO THE NEAREST WALL WITH WIRING AND CONDUIT EXTENDED AS NECESSARY TO ALLOW FOR USE DURING SWING SPACE PHASE.



0 2' 4' 8' 12' $1/4"=1'-0"$

FULLY SPRINKLERED	100% SUBMISSION
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Veterans Affairs

SCALE: $\frac{1}{4}" = 1'-0"$



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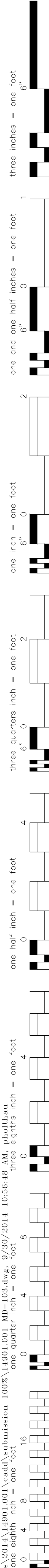
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APPROVED - BY - TITLE/RANK
STATION - MANAGEMENT

Date	Chec
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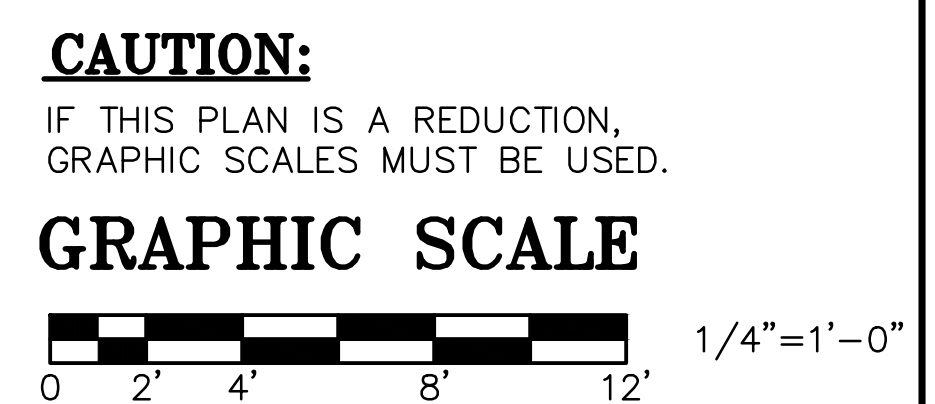
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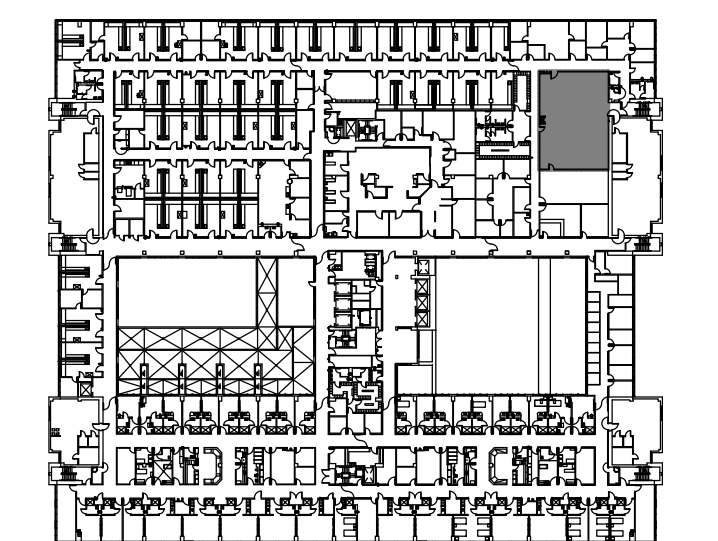
Revisions:	Date:
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1. ALL MECHANICAL SYSTEMS AND DUCTWORK ARE LOCATED IN AN INTERSTITIAL SPACE ABOVE THE FLOOR THEY SERVE. PROVIDE OPENINGS IN THE FLOOR OF THE INTERSTITIAL SPACE AS NECESSARY TO CONNECT DUCTWORK TO AIR DEVICES AND SEAL ANY OPENINGS THAT REMAIN AFTER DUCTWORK IS REMOVED.



KEY PLAN



THIRD FLOOR

FULLY SPRINKLERED

100% SUBMISSION

Project Number	512-14-102
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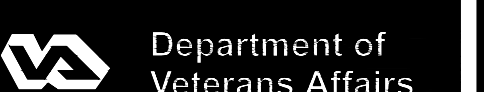
Building Number

Drawing Number

Drawing Number
MD-102

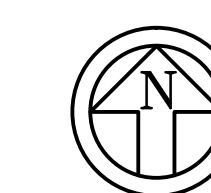
MD-103
Page 55 of 98

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and Facilities
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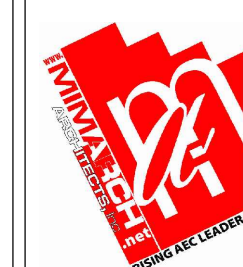
PARTIAL THIRD FLOOR PLAN - MECHANICAL DEMOLITION

SCALE: $\frac{1}{4}" = 1'-0"$

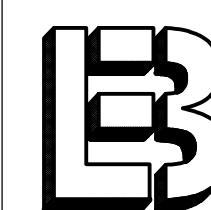


		CONSULTANTS:
Revisions:	Date	

ARCHITECT/ENGINEERS:



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e-mail: eb@ehlengineers.com

Drawing Title
PARTIAL THIRD FLOOR PLAN -
MECHANICAL DEMOLITION

Approved: Project Director
APPROVED - BY - NAME
APPROVED - BY - TITLE/RANK
STATION - MANAGEMENT

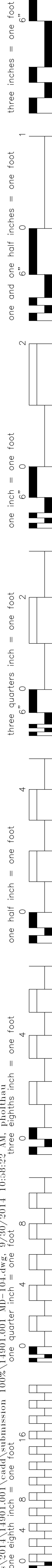
Project Title	RENOVATE / BACKFILL ONCOLOGY 2C, 3D SLEEP LAB AND MSO
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Location	YANG BALTIMORE MD
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VAMC	BALTIM
Date	

Checked

Drawn	
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1. ALL MECHANICAL SYSTEMS AND DUCTWORK ARE LOCATED IN AN INTERSTITIAL SPACE ABOVE THE FLOOR THEY SERVE. PROVIDE OPENINGS IN THE FLOOR OF THE INTERSTITIAL SPACE AS NECESSARY TO CONNECT DUCTWORK TO AIR DEVICES AND SEAL ANY OPENINGS THAT REMAIN AFTER DUCTWORK IS REMOVED.

 Department of
Veterans AffairsMD-104
Page 56 of 56

SCALE: $\frac{1}{4}" = 1'-0"$

