

OCCUPANCY SENSOR SCHEDULE	
Ⓢ	MULTI-TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR, WITH BUILT IN LIGHT LEVEL SENSING. (LINE VOLTAGE) WATTSTOPPER: DT-355-3 HUBBELL: #OMNIDT2000
Ⓢ	MULTI-TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR (LOW VOLTAGE) WATTSTOPPER: DT-300 HUBBELL: #OMNIDT2000RP PROVIDE WITH POWER PACKS AS REQUIRED PER LAYOUT.
	ULTRASONIC CEILING MOUNTED OCCUPANCY SENSOR, SINGLE SWITCH. WATTSTOPPER: #UT-355 HUBBELL: #OMNIUS2000
\$00	MULTI-TECHNOLOGY WALL SINGLE SWITCH SENSOR, PIR AND ULTRASONIC. FITS IN SINGLE GANG BOX, SINGLE TRIM RING. WATTSTOPPER: #DW-100 HUBBELL: #LHMTS1
\$00	MULTI-TECHNOLOGY WALL SWITCH SENSOR PIR & ULTRASONIC DUAL SWITCHING, DUAL RELAY, LIGHT LEVEL SENSING. FITS IN SINGLE GANG BOX, SINGLE TRIM RING. WATTSTOPPER: #DW-200 HUBBELL: #LHMTD2
GENERAL NOTES: E.C. SHALL CONTACT ARCHITECT FOR COLOR SELECTION PRIOR TO ORDER OF ANY SENSOR. FOR CEILING SPACES 14 FT. A.F.F. PIR TYPE CEILING MOUNTED SENSORS SHALL BE USED.	

- ### GENERAL ELECTRICAL NOTES
- ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
  - SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
  - ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
  - INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
  - UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
  - ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
  - ELECTRICAL DEVICES/EQUIPMENT SHOWN AS DASHED AND BOLD ARE EXISTING TO BE REMOVED, ELECTRICAL DEVICES/EQUIPMENT SHOWN AS LIGHT AND SOLID ARE EXISTING TO REMAIN, AND ELECTRICAL DEVICES/EQUIPMENT SHOWN AS BOLD AND SOLID SHALL BE NEW.
  - ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS AND SCHEDULING OF REQUIRED ELECTRICAL INSPECTIONS.
  - ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING LIGHTNING PROTECTION FROM EQUIPMENT BEING REMOVED FROM THE ROOF. E.C. SHALL INSTALL NEW LIGHTNING PROTECTION ON NEW EQUIPMENT. E.C. SHALL CONTRACT CERTIFIED LIGHTNING PROTECTION CONTRACTOR TO PERFORM THE WORK.

### ELECTRICAL SYMBOLS LEGEND

RECEPTACLES		LIGHTING	
	20A, 120V, 2P, 3W GROUNDING DUPLEX RECEPTACLE		TROFFER STYLE FIXTURE, TYPE AS NOTED
	SINGLE-PLEX RECEPTACLE		SWITCH LEGS
	QUADPLEX RECEPTACLE		FIXTURE ON EMERGENCY POWER
	GFCI RECEPTACLE		STRIP LIGHT
	RECEPTACLE MTD. 6" ABOVE COUNTER OR HGT SHOWN		SURFACE MTD FIXTURE
	MULTI-PHASE RECEPTACLE		PENDANT/SURFACE MTD UP/DOWN LIGHT
	WEATHER-PROOF GFCI RECEPTACLE		RECESSED/DOWNLIGHT FIXTURE
	QUADPLEX FLOORBOX		WALL MOUNTED FIXTURE
<b>COMMUNICATIONS</b>			EXIT SIGN (ARROWS INDICATED AS SHOWN) - (SHADING INDICATES # OF FACES)
	SURFACE MOUNTED RACEWAY WITH DEVICES AS NOTED	<b>SWITCHING</b>	
	TELEPHONE		20A, 120/277V SPST SWITCH
	TELEPHONE/DATA		20A, 120/277V 3-WAY SWITCH
	DATA ONLY		20A, 120/277V 4-WAY SWITCH
	COMMUNICATION DEVICE MTD. 6" ABOVE COUNTER OR HGT SHOWN		DIMMER SWITCH
<b>POWER</b>			CEILING MTD OCC. SENSOR
	PANEL BOARD		PHOTOCELL
	DISTRIBUTION PANEL BOARD	<b>FIRE ALARM</b>	
	DISCONNECT		MANUAL PULL STATION 46" A.F.F. CENTER
	FUSED DISCONNECT SWITCH		HORN/STROBE 82" A.F.F. TO CENTER
	COMBINATION MOTOR STARTER		STROBE ONLY 82" A.F.F. TO CENTER
	PUSH BUTTON STATION AS NOTED		CANDELA
	J-BOX		SMOKE DETECTOR
	ELECTRICAL EQUIPMENT CONNECTION		INDICATES ELEVATOR RECALL
	MOTOR CONNECTION		HEAT DETECTOR
			DUCT DETECTOR

### LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #	LAMPS	VOLTS	NOTES
A	2X4 LED RECESSED VOLUMETRIC LIGHT FIXTURE, 4500 LMS MINIMUM, 50 WATT DRIVER, 4000K COLOR.DRIVER MUST BE ACCESSABLE FROM BELOW; 0-10V DIMMING CONTROL	COOPER COLUMBIA	2AC-LD2-47-UNV-LP840-CD LEPC24-4044G-LL-EDU	LED	UNV	
B	2X4 LED RECESSED PRISMATIC LIGHT FIXTURE, 5700 LUMENS, 4000K COLOR, 0-10V DIMMING	METALUX LITHONIA	20C-LD1-57-A-UNV-L840-CD1 2TL4 46L FW A12 D50 LP840	LED	UNV	
C	RECESSED LED DOWNLIGHT 8" 35K, NO LENS, DIMMING	LITHONIA OR APPROVED EQUAL	DOM8 1500L 35K 120 DO8	LED	UNV	
D	1X4 LED RECESSED VOLUMETRIC LIGHT FIXTURE, 4500 LMS MINIMUM, 50 WATT DRIVER, 4000K COLOR.DRIVER MUST BE ACCESSABLE FROM BELOW; 0-10V DIMMING CONTROL	COOPER	14AC-LD4-47-UNV-LP840-CD	LED	UNV	
ⓧ	EXIT LIGHT, CAST ALUMINUM, AC ONLY POWERED WITH LED LAMPS, MATCH EXISTING BUILDING FIXTURES. FOR USE WITH GENERATOR.	COLUMBIA SURE-LITES LITHONIA APPROVED EQUAL	LES-W-1-R-120/277	LED	DUAL	

NOTES:  
1. CONNECT BATTERY TO UN-SWITCHED POWER FROM THE SAME CIRCUIT FEEDING THE LIGHT.  
2. FIXTURE SHALL BE ON FOCUS ON ENERGIES LIST OF HIGH EFFICIENCY LOW GLARE LINEAR FLUORESCENT FIXTURES.  
3. PROVIDE WITH DRYWALL FRAMING KIT.  
4. MUST BE ENERGY STAR RATED.

GENERAL NOTES:  
NO SUBSTITUTIONS WITHOUT TEN DAYS PRIOR APPROVAL. PROVIDE SINGLE OR DUAL BALLASTED FIXTURES PER LAYOUT. MULTI-TAP BALLASTS ACCEPTABLE.

### BASE BID EQUIPMENT COORDINATION SCHEDULE

TAG	DESCRIPTION	HP / KW	MCA RLA/FLA	VOLTS	CONDUCTORS			CONDUIT	LOCATION	PANEL	CIRCUIT	BREAKER SIZE	TYPE	STARTER		DISCONNECT		NOTE	
					PH	N	GND							PROVIDED BY	INSTALLED BY	PROVIDED BY	INSTALLED BY		
EXF-7-02A	EXISTING EF(INTERSTITIAL SPACE)	NA	NA	NA	NA	NA	NA	NA	B730.5	NA	NA	NA	VFD/D	MC	EC	VFD/D	MC	EC	1

GENERAL NOTES:  
A. COORDINATE INSTALLATION OF MOTORS WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS.  
B. CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE.  
C. MCA=MINIMUM CIRCUIT AMPS; MOCP=MINIMUM OVER-CURRENT PROTECTION; RLA=RATED LOAD AMPS; FLA=FULL LOAD AMPS  
D. EC=ELECTRICAL CONTRACTOR; MC=MECHANICAL CONTRACTOR; INT=INTERGRAL TO UNIT; EQM=EQUIPMENT MANUFACTURER

MOTOR SCHEDULE NOTES:  
1. CONTRACTOR TO REMOVE EXISTING COMBINATION STARTER AND INSTALL NEW VFD. EXTEND CIRCUIT AS REQUIRED.

### ALTERNATE #1 EQUIPMENT COORDINATION SCHEDULE

TAG	DESCRIPTION	HP / KW	MCA RLA/FLA	VOLTS	CONDUCTORS			CONDUIT	LOCATION	PANEL	CIRCUIT	BREAKER SIZE	TYPE	STARTER		DISCONNECT		NOTE	
					PH	N	GND							PROVIDED BY	INSTALLED BY	PROVIDED BY	INSTALLED BY		
EXF-7-02A	EXISTING EF(INTERSTITIAL SPACE)	NA	NA	NA	NA	NA	NA	NA	B730.5	NA	NA	NA	VFD/D	MC	EC	VFD/D	MC	EC	1
1-EF-1	EXISTING EF(ON ROOF)	NA	NA	NA	NA	NA	NA	NA	ROOF	NA	NA	NA	NA	NA	NA	NA	NA	NA	2
CP-1	CIRCUIT PUMP 1	.4	NA	120	#12	#12	#12	3/4"	INTER	L7H	NA	20/1	NA	NA	NA	HP/S	EC	EC	3
CP-2	CIRCUIT PUMP 2	.4	NA	120	#12	#12	#12	3/4"	INTER	L7H	NA	20/1	NA	NA	NA	HP/S	EC	EC	3
AHU-72A	EXISTING AHU(ON ROOF)	NA	NA	NA	NA	NA	NA	NA	ROOF	NA	NA	NA	NA	NA	NA	NA	NA	NA	4
AHU-72A	NEW AHU(ON ROOF)	2(6)/2(6)	NA	480/3	EXISTING	EXISTING	EXISTING	EXISTING	ROOF	EX	EX	EX	VFD	NA	NA	HP/S	EC	EC	4

GENERAL NOTES:  
A. COORDINATE INSTALLATION OF MOTORS WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS.  
B. CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE.  
C. MCA=MINIMUM CIRCUIT AMPS; MOCP=MINIMUM OVER-CURRENT PROTECTION; RLA=RATED LOAD AMPS; FLA=FULL LOAD AMPS  
D. EC=ELECTRICAL CONTRACTOR; MC=MECHANICAL CONTRACTOR; INT=INTERGRAL TO UNIT; EQM=EQUIPMENT MANUFACTURER

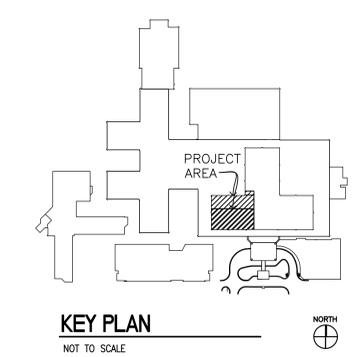
MOTOR SCHEDULE NOTES:  
1. CONTRACTOR TO REMOVE EXISTING EXF-7-2A INCLUDING STARTER, CONDUIT AND WIRE BACK TO SOURCE  
2. CONTRACTOR TO REMOVE EXISTING 1-EF-1 INCLUDING CONDUIT AND WIRE BACK TO SOURCE  
3. PROVIDE HP RATED SWITCH TO ACT AS DISCONNECT. PUMPS ARE LOCATED DIRECTLY BELOW AHU-72A IN THE INTERSTITIAL SPACE. PROVIDE NEW 20A/1 BREAKER IN PANEL L7H FOR PUMP.  
4. CONTRACTOR TO DISCONNECT AHU-72A EXISTING AND MAINTAIN EXISTING CONDUIT AND WIRE FOR NEW AHU-72A. REUSE EXISTING DISCONNECT.

### ELECTRICAL ABBREVIATIONS

AC	ABOVE COUNTERTOP	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MDP	MAIN DISTRIBUTION PANEL
ANNC	ANNUNCIATOR	MTD	MOUNTED
CC	CONTROLS CONTRACTOR	OCC	OCCUPANCY
EC	ELECTRICAL CONTRACTOR	PC	PLUMBING CONTRACTOR
EX	EXISTING	PNL	PANEL
EXR	EXISTING RELOCATED	SPST	SINGLE POLE SINGLE THROW
GC	GENERAL CONTRACTOR	WP	WEATHER PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPT	20A	20 AMP
IBC	INTERNATIONAL BUILDING CODE	PHASE	ø
IG	ISOLATED GROUND	3W	3 WIRE
HP	HORSEPOWER	20/1	20 AMP, SINGLE PHASE
LV	LOW VOLTAGE.		

### ELECTRICAL SHEET INDEX

E-000	ELECTRICAL SYMBOLS AND SPECIFICATIONS
ED-100	ELECTRICAL DEMOLITION PLAN
E-100	ELECTRICAL PLAN



### CONSULTANTS:

**MEP**  
engineers | consultants | commissioning  
2805 Van Buren Street, Suite 2004 | Houston, TX 77027  
P: 409.594.9020 | F: 409.594.9021  
C.A.R. 5121 | Expiration Date: 08.30.2017  
MEP PROJECT NO.: P14.15.01

RANDALL A. JACOBS  
87557  
11/13/2015

### ARCHITECT/ENGINEERS:

**PRIME ARCHITECTS**  
1144 AIRPORT BLVD.  
SUITE 260  
AUSTIN, TX 78702  
(866) 226-8071 TELE.  
(866) 226-9969 FAX  
WWW.PRIME-ARCH.COM

Drawing Title  
**ELECTRICAL SYMBOLS AND SPECIFICATIONS**

Approved Project Director  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Project Title  
**REFURBISH BONE MARROW TRANSPLANT UNIT**

Project Number  
671-15-100

Building Number  
1

Location  
VAMC SAN ANTONIO TX

Date  
NOVEMBER 12, 2015

Checked  
SJW

Drawn  
SJW

Drawing Number  
**E-000**  
Dwg. 43 of 45

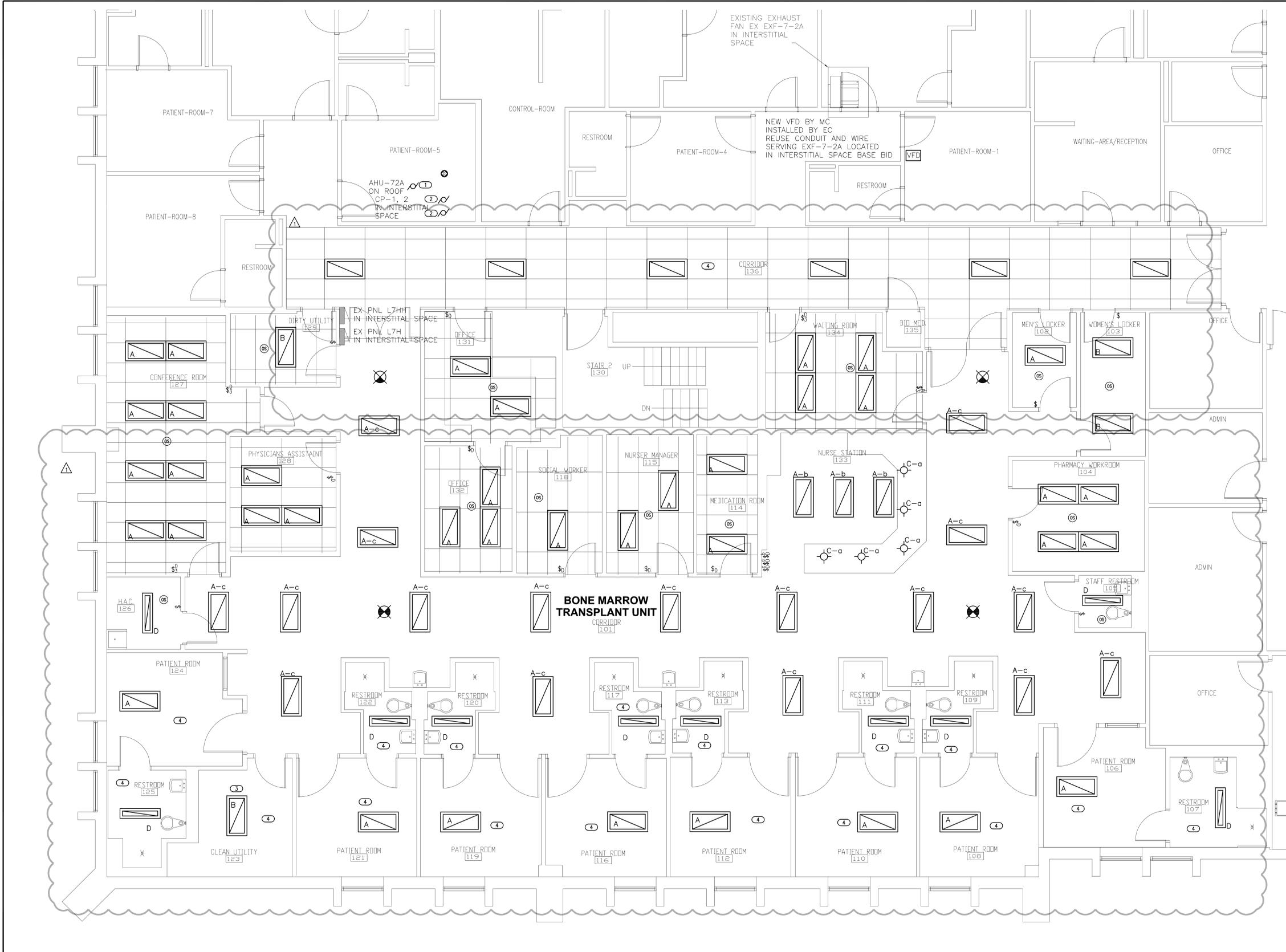
Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs

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 quarter inch = one foot  
one eighth inch = one foot



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 quarter inch = one foot  
 one eighth inch = one foot  
 one eighth inch = one foot



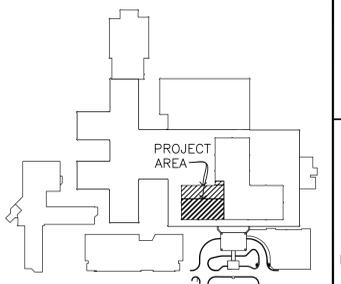
**GENERAL NOTES**

- CONTRACTOR TO REUSE EXISTING LIGHTING CIRCUITS IN ALL CASES UNLESS NOTED OTHERWISE.
- EC SHALL USE CONNECT NEW FIXTURES TO EMERGENCY GENERATOR CIRCUITS IN LOCATIONS PREVIOUSLY USED.

**KEYED NOTES**

- RECONNECT NEW AHU-72A, REUSING EXISTING DISCONNECT. PROVIDE 120 VOLT CIRCUIT FOR LIGHTS AND RECEPTACLES IN UNIT. THIS IS PART OF ALTERNATE 1 ONLY.
- CP-1 AND 2 CIRCUIT AND ADD DISCONNECTS. THIS IS PART OF ALTERNATE 1 ONLY.
- PROVIDE SURFACE MOUNT KIT FOR FIXTURE.
- EXISTING LIGHTING CONTROLS SHALL BE REUSED IN ROOM.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (2) NEW SMOKE DUCT DETECTOR TO SHUT OFF POWER TO THE NEW AHU-72A.

**1 ELECTRICAL PLAN**  
 1/4" = 1'-0"



**KEY PLAN**  
 NOT TO SCALE

Revisions	Date
Addendum 02	04/06/17

**CONSULTANTS:**

engineers | consultants | commissioning  
 2805 Van Buren Street, Suite 2004 | Houston, TX 77027  
 P: 409.594.9028 | F: 409.594.9029  
 CA# 5121 | Expiration Date: 08.30.2017  
 MEP PROJECT NO.: P14.15.01

**ARCHITECT/ENGINEERS:**

1144 AIRPORT BLVD.  
 SUITE 260  
 AUSTIN, TX 78702  
 (866) 226-8071 TELE.  
 (866) 226-9969 FAX  
 WWW.PRIME-ARCH.COM

<b>Drawing Title</b>	<b>ELECTRICAL PLAN</b>
<b>Approved Project Director</b>	

<b>Project Title</b>	REFURBISH BONE MARROW TRANSPLANT UNIT
<b>Project Number</b>	671-15-100
<b>Building Number</b>	1
<b>Drawing Number</b>	E-100
<b>Location</b>	VAMC SAN ANTONIO TX
<b>Date</b>	NOVEMBER 12, 2015
<b>Checked</b>	SJW
<b>Drawn</b>	SJW
Dwg. 45 of 45	

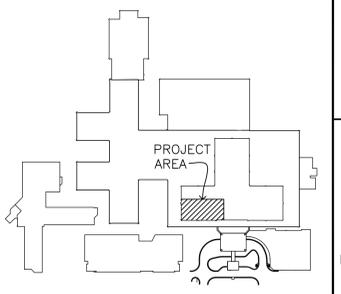
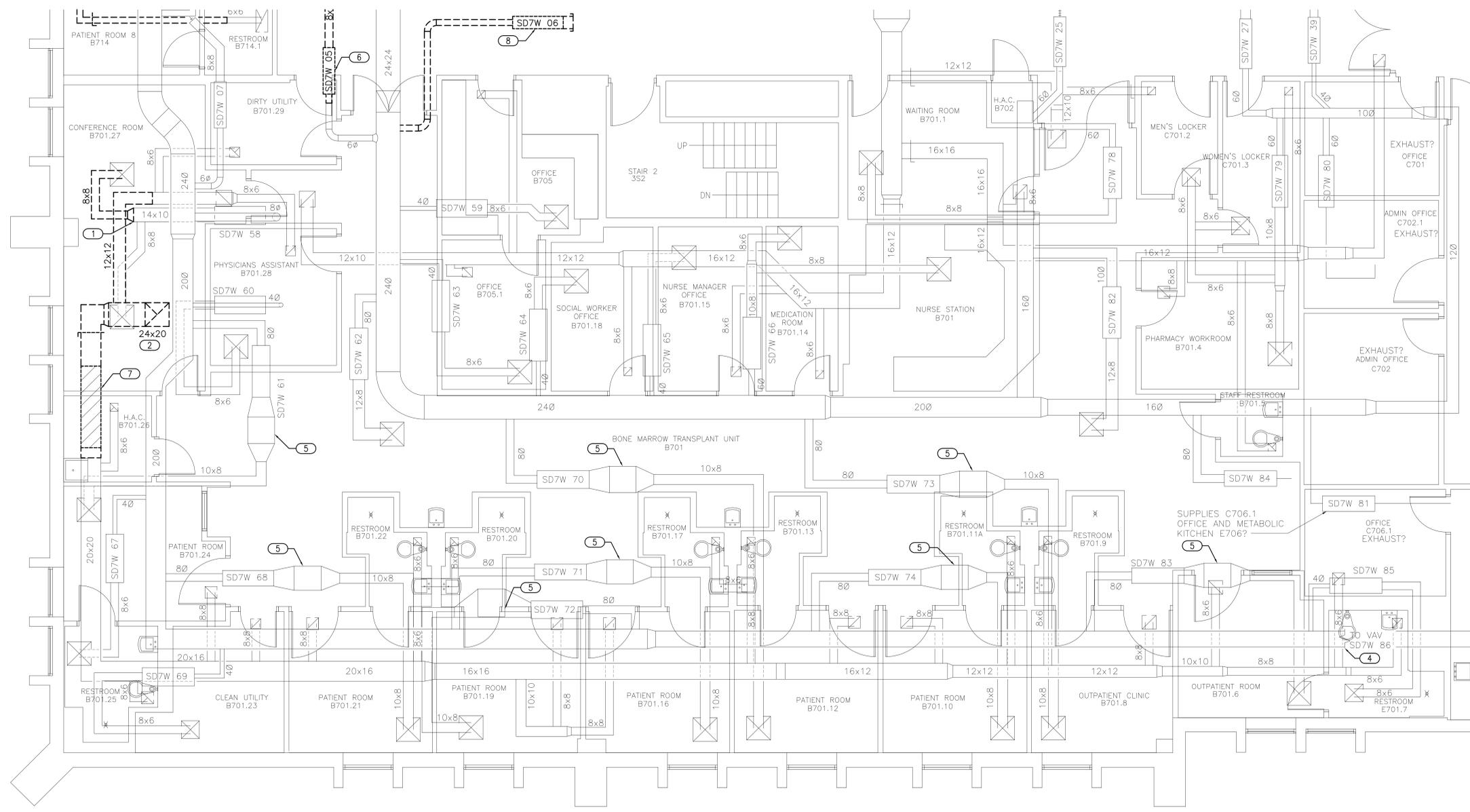
Office of Construction and Facilities Management  
 Department of Veterans Affairs

### GENERAL NOTES

- REMOVE ALL DUCTWORK AND EQUIPMENT SHOWN DASHED. REMOVE DUCTWORK BACK TO MAIN AND CAP.
- PATCH AND REPAIR ALL INSULATION DAMAGED DURING DEMOLITION AND DUCT CLEANING. REPAIR AND SEAL INSULATION PER SPECIFICATIONS.
- ELEVATION OF ALL EXHAUST DUCTWORK IS BELOW ELEVATION OF CATWALK.
- PROVIDE A COMPLETE CLEANING OF THE EXISTING SUPPLY AND EXHAUST DUCTWORK SYSTEMS FOR AHU-72A. SEE SPECIFICATION SECTION 23.01.30.51 DUCT CLEANING FOR REQUIREMENTS.

### KEYED NOTES

- REMOVE EXISTING 8x8 SUPPLY DUCT AND TRANSITION. CAP AT 14x10 SUPPLY.
- REMOVE EXISTING 24x20 EXHAUST DUCT UP TO 1-EF1 ON THE ROOF. SEE SHEET MD-109 FOR CONTINUATION.
- REMOVE VAV-SD7W-06 AND ASSOCIATED DUCT RUNOUT. CAP AT MAIN.
- PRIOR TO CONSTRUCTION MEASURE EXISTING VAV-SD7W-86 AIRFLOW AND STATIC PRESSURE SERVING EXISTING FAN COILS. PROVIDE DOCUMENTATION TO COR AND ENGINEER FOR REVIEW.
- REMOVE FILTER FROM EXISTING FILTER HOUSING AFTER ASSOCIATED VAV HAS BEEN TURNED OFF FOR AHU-72A REMOVAL. NEW FILTER IS NOT NEEDED IN FILTER HOUSING AFTER NEW AHU-72A IS INSTALLED.
- REMOVE AND RELOCATE EXISTING VAV AND ASSOCIATED DUCTWORK AS REQUIRED FOR NEW EQUIPMENT INSTALLATION.
- REMOVE EXISTING SOUND ATTENUATOR. PROVIDE TEMPORARY CAP FOR FUTURE CONNECTION.
- REMOVE VAV-SD7W-06 AND ASSOCIATED DUCT RUNOUT. CAP AT MAIN.



KEY PLAN  
NOT TO SCALE

## 1 MECHANICAL - DUCTWORK PLAN 7TH FLOOR WEST BMT - DEMOLITION

1/4" = 1'-0"

### CONSULTANTS:



### ARCHITECT/ENGINEERS:



Drawing Title  
**MECHANICAL - DUCTWORK PLAN 7TH FLOOR WEST BMT - DEMOLITION**

Approved Project Director

Project Title  
**REFURBISH BONE MARROW TRANSPLANT UNIT**

Location  
**VAMC SAN ANTONIO TX**

Date  
**NOVEMBER 12, 2015**

Checked  
**JAU**

Drawn  
**JRM**

Project Number  
**671-15-100**

Building Number  
**1**

Drawing Number  
**MD-103**  
Dwg. 23 of 45

Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs

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 quarter inch = one foot  
one eighth inch = one foot  
one eighth inch = one foot



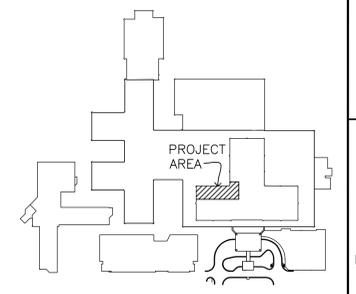
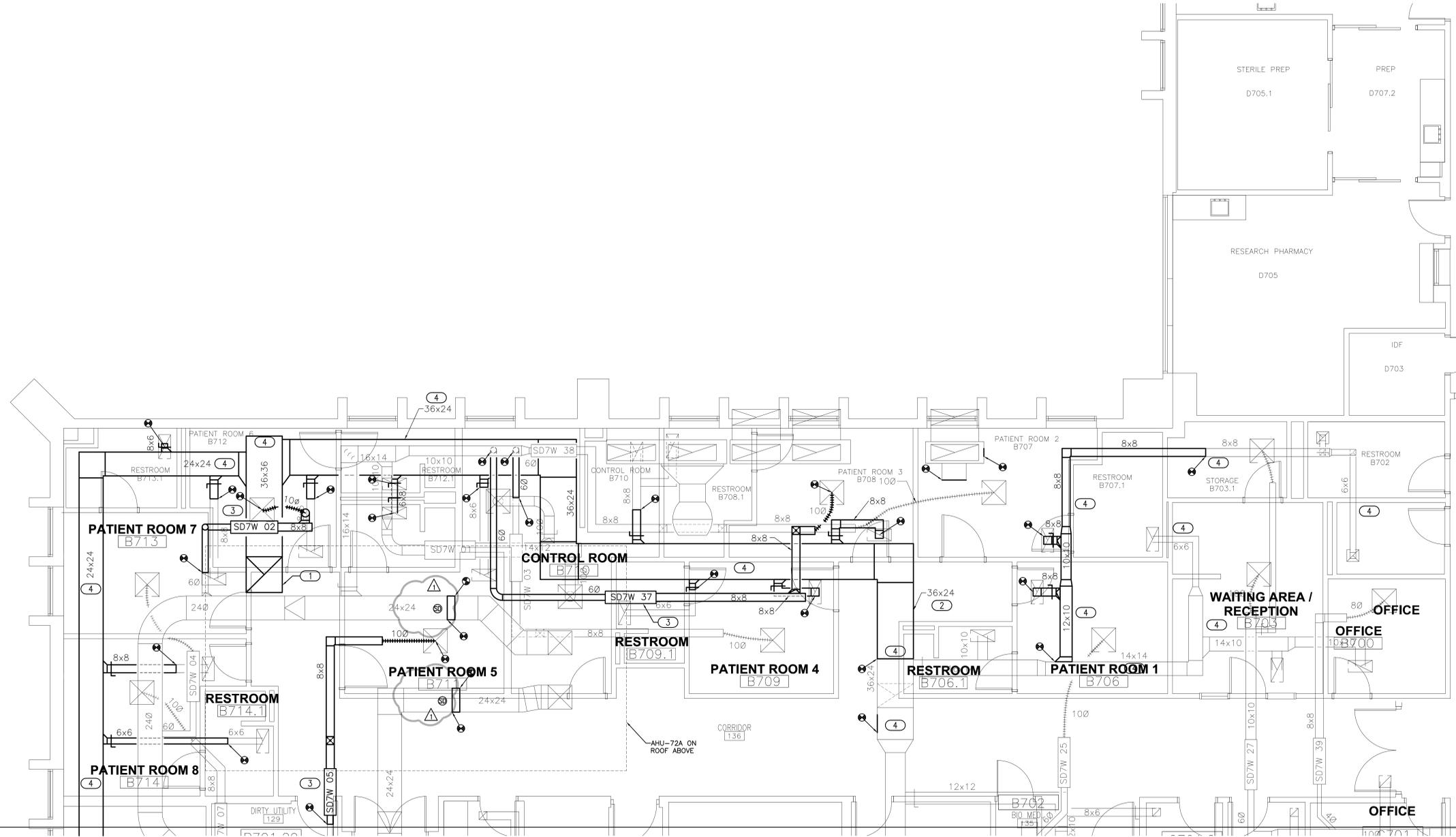
**GENERAL NOTES**

- CUT, PATCH AND REPAIR ALL DUCTWORK AS REQUIRED FOR CONSTRUCTION COMPLETION.
- COORDINATE NEW DUCTWORK INSTALLATION WITH EXISTING UTILITIES. PROVIDE DUCTWORK OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
- PROVIDE TRANSITIONS AND OFFSETS AS REQUIRED FOR CONNECTION TO EXISTING DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS.
- PROVIDE VOLUME DAMPERS IN EXISTING DUCTWORK AS REQUIRED FOR SYSTEM BALANCING.
- SEAL COMPLETED AHU-72A DUCTWORK SYSTEM FROM THE INSIDE USING AUTOMATED AEROSOLIZED SEALANT INJECTION. SEE SPECIFICATION 23 33 53 FOR ADDITIONAL INFORMATION.
- INSTALL ACCESS DOORS AT 20 FOOT INTERVALS AND AT EACH CHANGE IN DIRECTION FOR ALL NEW SUPPLY AND RETURN/EXHAUST DUCTWORK. SEE SPECIFICATION FOR ACCESS DOOR SIZE.

**KEYED NOTES**

- 36x36 EXHAUST DUCT UP TO AHU-72A PLENUM CURB. ROUTE DUCTWORK BELOW NEW 36x36 EXHAUST RISER. PROVIDE DUCT OFFSETS AND HANGER RELOCATION AS REQUIRED FOR INSTALLATION.
- NEW 36x24 EXHAUST DUCT. ROUTE NEW 36x24 EXHAUST DUCT THROUGH THE SAME SPACE VACATED BY DEMOLITION EXHAUST DUCT 18x14.
- RELOCATED VAV. PROVIDE DUCTWORK EXTENSIONS BASED ON NEW VAV LOCATION. COORDINATE VAV LOCATION WITH BOTH EXISTING AND NEW UTILITIES.
- INSULATE ALL EXISTING AND NEW EXHAUST/RETURN DUCT MAINS AND DUCTWORK RUNOUTS.
- NEW DUCT SMOKE DETECTOR BY E.C.

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 quarter inch = one foot  
 one eighth inch = one foot  
 one eighth inch = one foot



**KEY PLAN**  
NOT TO SCALE

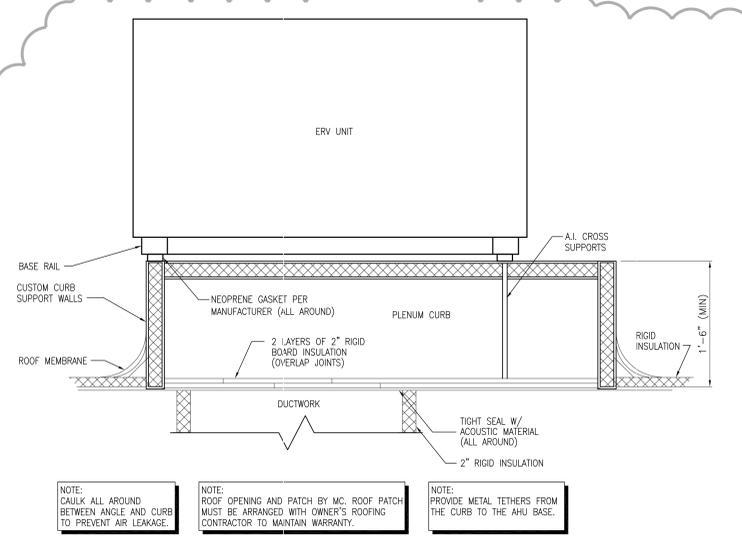
**1 MECHANICAL - DUCTWORK PLAN 7TH FLOOR WEST SLEEP LAB**  
1/4" = 1'-0"

Addendum 02 Revisions Date 04/06/17	<b>CONSULTANTS:</b>  engineers   consultants   commissioning 2805 Van Buren Street, Suite 2004   Houston, TX 77027 P: 281.594.9200   F: 281.594.9201   www.mep-engineers.com CA# 5121   Expiration Date: 08.30.2017 MEP PROJECT NO.: P14.15.01	 11/15/15	<b>ARCHITECT/ENGINEERS:</b>  1144 AIRPORT BLVD. SUITE 260 AUSTIN, TX 78702 (866) 226-8071 TELE. (866) 226-9969 FAX WWW.PRIME-ARCH.COM	Drawing Title <b>MECHANICAL - DUCTWORK PLAN 7TH FLOOR WEST SLEEP LAB</b> Approved Project Director _____	Project Title <b>REFURBISH BONE MARROW TRANSPLANT UNIT</b> Location VAMC SAN ANTONIO TX Date NOVEMBER 12, 2015 Checked JAU Drawn JRM	Project Number 671-15-100 Building Number 1 Drawing Number <b>MH-104</b> Dwg. 31 of 45	Office of Construction and Facilities Management 
	VA FORM 08-6231						

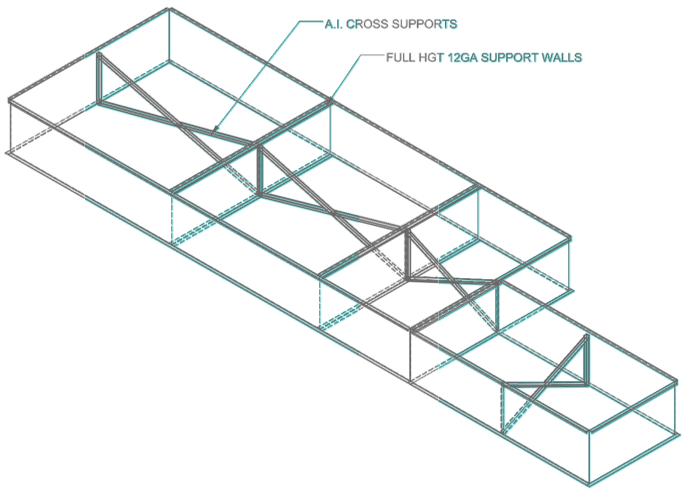




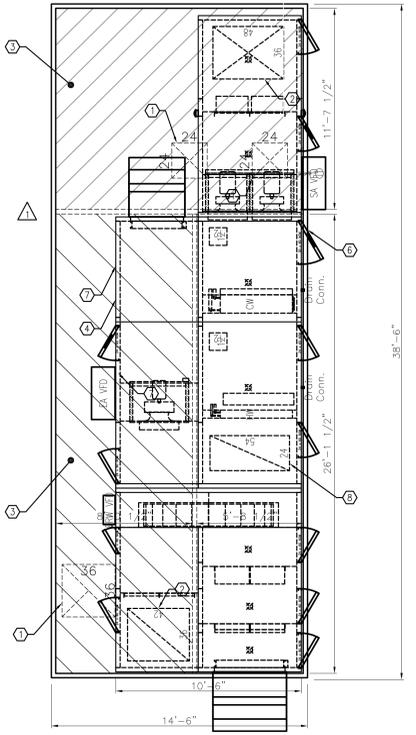
three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot



**6 AHU MOUNTING DETAIL W/PLENUM CURB**  
 NTS



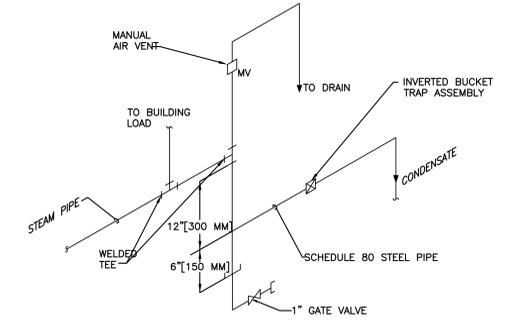
**7 PLENUM CURB LAYOUT**  
 NTS



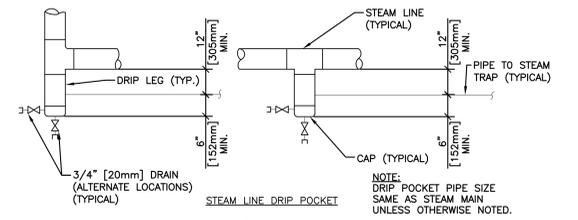
- 1 OPENING THROUGH ROOF FOR DUCTWORK. SEAL DUCTWORK PENETRATION.
- 2 AHU OPENING.
- 3 AIR PLENUM SPACE WITHIN CURB. SEAL LEAK TIGHT. TEST FOR LEAKAGE. RESEAL UNTIL LEAK TIGHT FROM AHU TO DUCTWORK BELOW.
- 4 PROVIDE STRUCTURE WITHIN CURB TO SUPPORT SIDE OF AIR HANDLER NOT SITTING DIRECTLY ON CURB. SEE DETAIL 7/M.503 FOR REFERENCE.
- 5 EXTENDED CURB AREA.
- 6 CURB OUTLINE.
- 7 AHU OUTLINE.
- 8 FUTURE RETURN KNOCKOUT.

NOTE:  
 1. CURB HEIGHT IS 36".  
 2. DOUBLE WALL INSULATED. 1 1/2" THICK, 3 LB/FT<sup>3</sup>.  
 3. PROVIDE SEALS BETWEEN PLENUM CURB/CONCRETE PAD AND BETWEEN AIR HANDLER/PLENUM CURB CONNECTIONS.  
 4. SEAL AND PRESSURE TEST CURB IN ACCORDANCE WITH DUCT SEALING REQUIREMENTS.

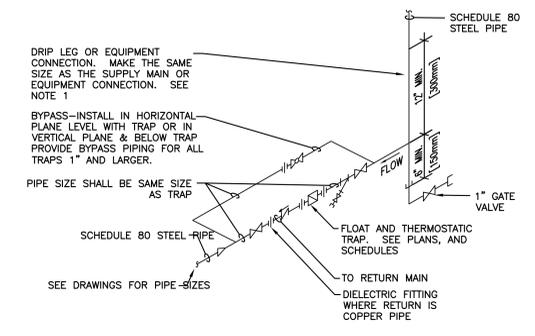
**5 AHU W/PLENUM CURB**  
 NTS



**2 END OF STEAM LINE DRIP TRAP**  
 NTS

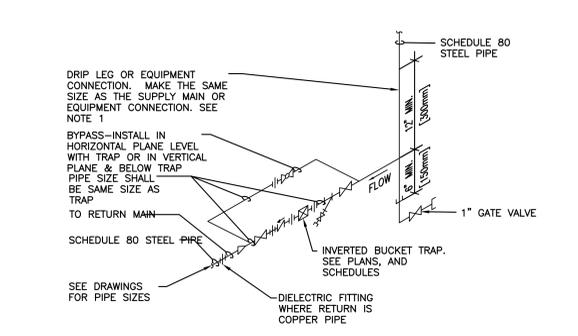


**1 STEAM LINE DRIP POCKET  
 STEAM TRAP ASSEMBLY**  
 NTS



NOTES:  
 1. ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 12" MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET.

**4 FLOAT AND THERMOSTATIC STEAM TRAP ASSEMBLY**  
 NTS



NOTES:  
 1. ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 12" MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET.  
 2. PROVIDE BYPASS PIPING.

**3 INVERTED BUCKET STEAM TRAP ASSEMBLY**  
 NTS

<b>CONSULTANTS:</b>  2805 Van Buren Street, Suite 2004   Norman, OK 73072 P: 405.264.9200   F: 405.264.9201 CA# 5121   Expiration Date: 08.30.2017 MEP PROJECT NO.: P14.15.01				<b>ARCHITECT/ENGINEERS:</b>  1144 AIRPORT BLVD. SUITE 260 AUSTIN, TX 78702 (866) 226-8071 TELE. (866) 226-9969 FAX WWW.PRIME-ARCH.COM		Drawing Title <b>MECHANICAL - DETAILS - STEAM SIDE</b>		Project Title <b>REFURBISH BONE MARROW TRANSPLANT UNIT</b>		Project Number 671-15-100	
Addendum 02 Revisions		04/06/17 Date				Approved Project Director _____ _____ _____		Location VAMC SAN ANTONIO TX		Building Number 1	
						Date NOVEMBER 12, 2015		Checked JAU		Drawn JRM	
								Drawing Number <b>M-503</b>		Dwg. 40 of 45	

Office of  
 Construction  
 and Facilities  
 Management