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Consulting Engineers

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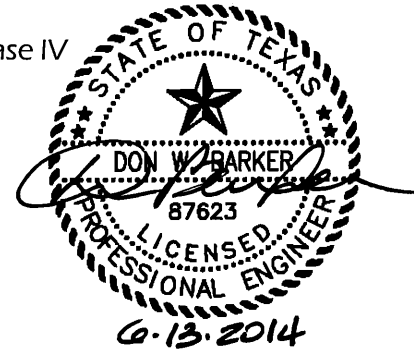
Addendum No.1

Project: Audie Murphy Hospital - Replace HVAC Units - Phase IV

Issuance Date: June 13, 2014

Subject: Addendum No. 1

Issued To: Roland Ibarra
WestEast Design Group
200 E. Grayson, Suite 207
San Antonio, Texas 78215



The following are a list of items that are hereby incorporated into the Construction Documents issued for the above referenced project:

Refer to Drawings:

Item No. 1 Sheet M-103 - BASEMENT PIPE SPACE DEMO PIPING PLAN

1. The Contractor shall demolish items as shown on the attached drawing.

Item No. 2 Sheet M-104 - BASEMENT PIPE SPACE PIPING PLAN

1. The Contractor shall furnish and install the Air Handling Units, piping and appurtenances as shown on the attached drawing.

Item No. 3 Sheet M-601 - MECHANICAL CONTROL POINTS

1. The Contractor shall furnish and install the DDC control points and programming as shown on the attached drawing.

Item No. 4 Sheet M-602 - MECHANICAL SCHEDULES

1. The Contractor shall furnish and install Air Handlers with the capacities /characteristics listed in the Air Handling Unit Schedule shown on the attached drawing.

ADD No. 1

Project: Audie Murphy Hospital - Replace HVAC Units - Phase IV
Date: June 13, 2014

Item No. 5 Sheet E-103 - BASEMENT INTERSTITIAL ELECTRICAL PLAN

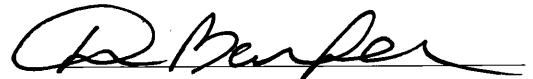
1. The Contractor shall furnish and install electrical gear, circuits, etc. as shown on the attached drawing.

Item No. 6 Sheet E-104 - BASEMENT PIPE SPACE ELECTRICAL PLAN

1. The Contractor shall furnish and install electrical gear, circuits, etc. as shown on the attached drawing.

Item No. 7 Sheet E-105 - ELECTRICAL ONE-LINE DIAGRAM

1. The Contractor shall furnish and install electrical gear, circuits, etc. as shown on the attached drawing.



Don Barker, PE, LEED AP
Project Engineer

Barker & Associates, Inc.

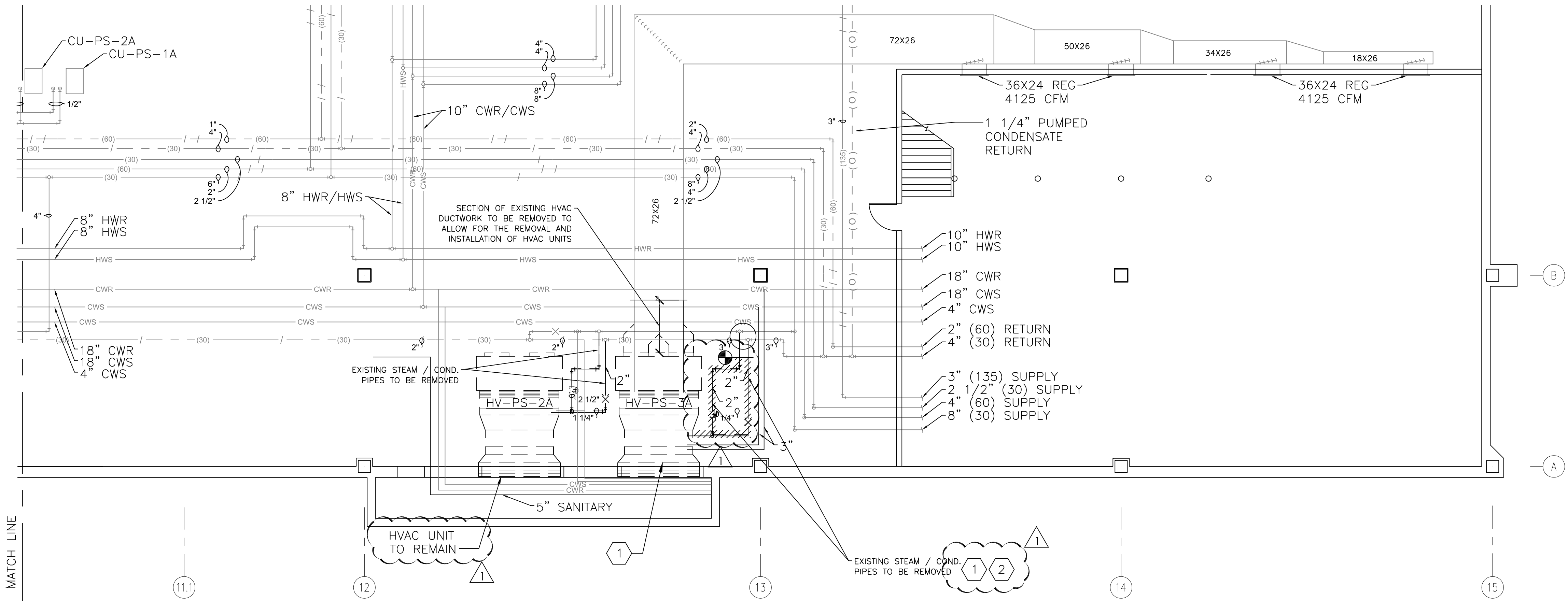
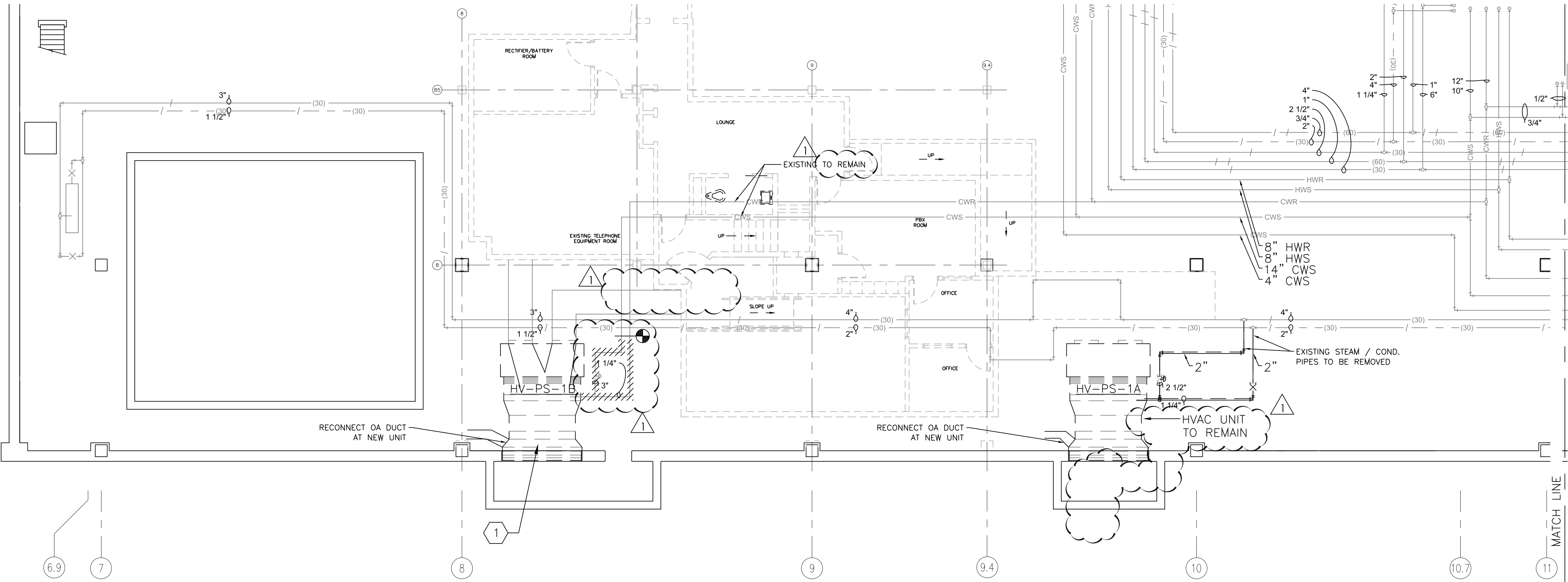
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA PROJECT MANAGER PRIOR TO START OF WORK.
2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK OR EQUIPMENT PROCUREMENT.

KEY NOTES:

- 1 REMOVE THE EXISTING HVAC UNIT. REMOVE CONNECTED PIPING, VALVES AND APPURTENANCES BACK TO THE POINT OF NEW CONNECTION. REMOVE CONNECTED OUTDOOR AIR DUCTWORK AND APPURTENANCES FROM THE LOUVER CONNECTION AT THE WALL TO THE AHU. REMOVE SUPPLY AIR DUCTWORK TO A POINT DOWN STREAM AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF THE NEW AHU AND APPURTENANCES (APPROXIMATELY 10'-0" FROM THE UNIT). REMOVE CONTROL DEVICES, SENSORS AND OTHER APPURTENANCES. REMOVE THE CONTROL CIRCUITS AND PNEUMATIC TUBING BACK TO THE LAST ACTIVE J-BOX OR HVAC CONTROL PANEL. REMOVE CONDENSATE DRAIN FROM THE UNIT TO THE POINT OF DISCHARGE.
- 2 SALVAGE THE CONDENSATE STEAM TRAP MONITOR FOR REINSTALLATION. TEMPORARILY DISCONNECT THE UNIT FROM THE MONITORING SYSTEM.

NOTE: THE DDC FRONT END SOFTWARE SHALL BE REPROGRAMMED TO REMOVE THE EXISTING CONTROL SEQUENCES, GRAPHICS, ETC. FOR HV-PS-1B AND HV-PS-3A.



NOTE: DIMENSIONS SHOWN ON THIS SHEET ARE FOR GRAPHICAL REPRESENTATION ONLY. THE DIMENSIONS SHOWN ARE NOT TO BE USED FOR ANY AND ALL CONSTRUCTION, SURVEYING, MATERIAL ESTIMATING, ETC.... ALL DIMENSIONS ARE TO BE FIELD VERIFIED.

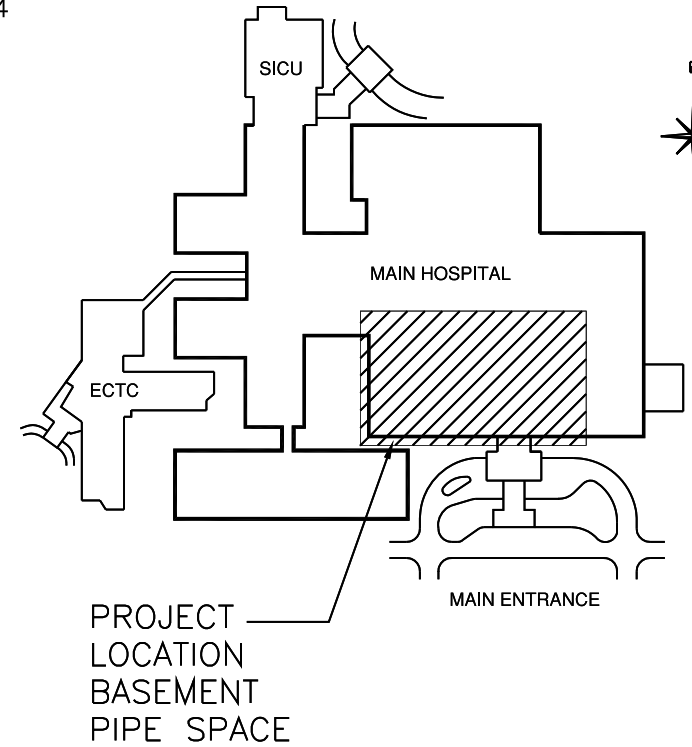
1 BASEMENT PIPE SPACE-DEMO PIPING PLAN
SCALE: 1/8"=1'-0"

NORTH



NOTE: ORIGINAL DESIGN WORK WAS ISSUED BY MICHAEL T. MOONEY P.E., TEXAS LICENSE NUMBER 97995, ON SEPTEMBER 25, 2012

NOTE: MODIFICATIONS TO THIS DOCUMENT ARE BEING ISSUED AS ADDENDUM NO. 1 BY DON W. BARKER P.E., TEXAS LICENSE NO. 87623.



100% SUBMITTAL

Revisions	Date
1	09/25/2012
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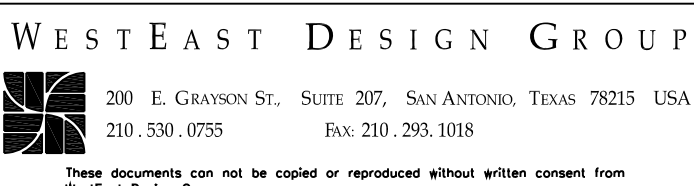


Audie L. Murphy
Memorial Veterans Hospital
7400 Merton Minter
San Antonio, Texas 78229

CONSULTANT:



ARCHITECT:

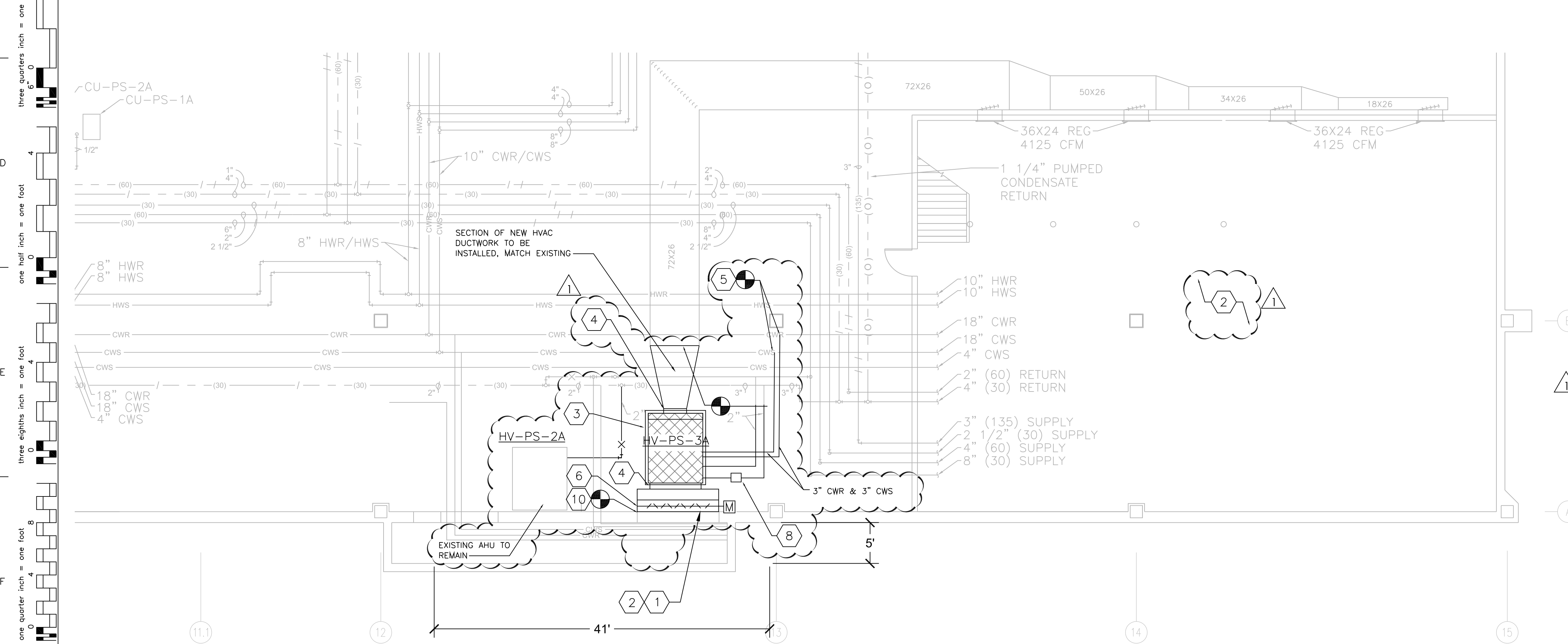
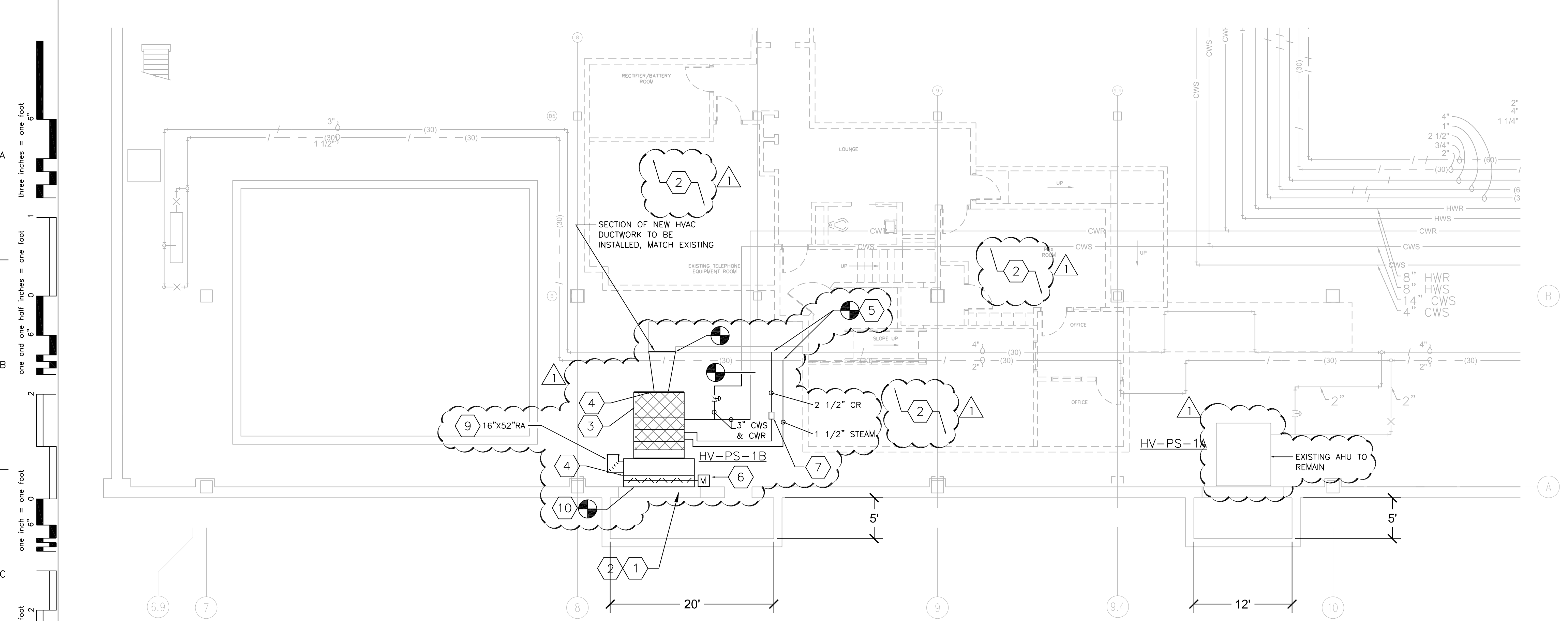


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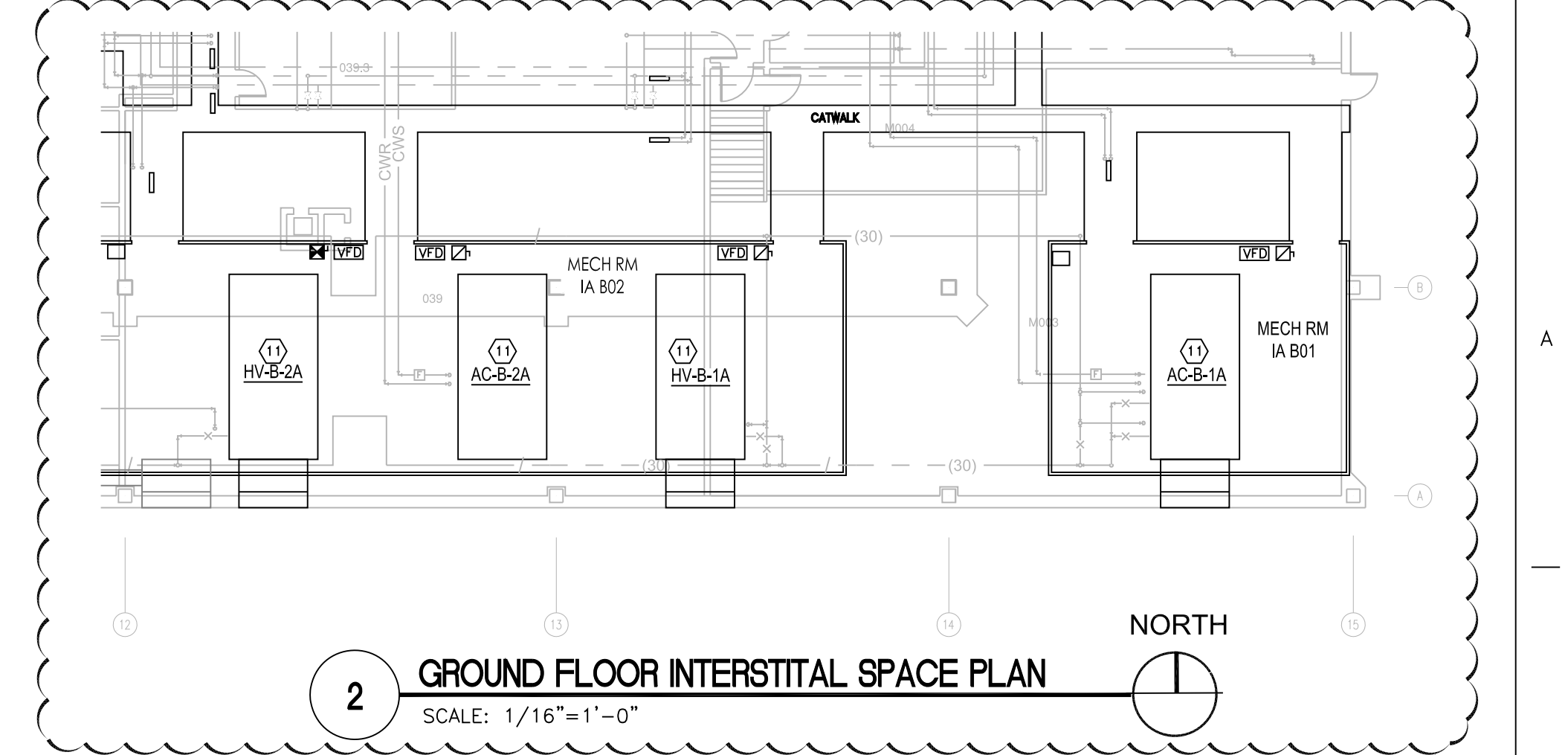


Approved: Chief, Maintenance and Operations	Approved: Utility Management Supervisor	Drawing Title	Project Title	Date
Approved: Chief, Engineer	Approved: Safety Manager	BASEMENT PIPE SPACE DEMO PIPING PLAN	REPLACE HVAC UNITS AT ALMD PHASE IV	09/25/2012
	Approved: Environment of Care Manager	Project No.	Contract No.	Scale
	Approved: Facilities Service Line Manager	671-11-113	VA257-P-0249	1/8"=1'-0"
		Building No.	Location	Drawing No.
			SAN ANTONIO, TEXAS	M-103



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1 BASEMENT PIPE SPACE-PIPING PLAN
SCALE: 1/8"=1'-0"



2 GROUND FLOOR INTERSTITIAL SPACE PLAN
SCALE: 1/16"=1'-0"

GENERAL NOTES

- COORDINATE ALL WORK WITH THE VA PROJECT MANAGER PRIOR TO START OF WORK.
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING A BID, AND PRIOR TO ANY WORK OR EQUIPMENT PROCUREMENT.
- REMOVE ALL TRASH AND VACUUM THE AREA WITHIN 10 FEET OF THE AIR HANDLERS.
- REPLACE ANY DAMAGED INSULATION WITHIN 10 FEET OF THE AIR HANDLERS EVEN IF DAMAGE EXISTS BEFORE THIS WORK STARTS.

KEY NOTES:

- FURNISH AND INSTALL A NEW AIR HANDLING UNIT. FURNISH AND INSTALL NEW CHILLED WATER PIPING, VALVES AND COIL CONNECTIONS (REF.: 4/M-501). FURNISH AND INSTALL NEW STEAM AND CONDENSATE RETURN PIPING, VALVES AND COIL CONNECTIONS (REF.: 3&5/M-501). FURNISH AND INSTALL A NEW CONDENSATE DRAIN AND TRAP (REF.: 1 2/M-501) ROUTE THE DRAIN TO THE NEAREST FLOOR DRAIN OR FLOOR SINK, TURN DOWN AND TERMINATE 2" ABOVE THE DRAIN. FURNISH AND INSTALL NEW DDC DEVICES, CONTROLS, SENSORS AND CIRCUITS AS INDICATED ON SHEET M-601.
- FURNISH AND INSTALL TEMPORARY COOLING (SPOT COOLERS) A/C UNITS (MINIMUM OF (4) 5TON UNITS FOR THE TOTAL PROJECT).
- FURNISH AND INSTALL A 4" THICK, 3,000 PSI CONCRETE EQUIPMENT PAD WITH #4 REINFORCEMENT BARS ON 10" CENTERS EACH WAY. EXTEND THE PAD 6" BEYOND THE EDGES OF THE EQUIPMENT AND UP TO THE EXTERIOR WALL OF THE BUILDING. CHAMFER OR RADIUS THE TOP EDGE OF THE PAD 1/2" x 1/2".
- FURNISH AND INSTALL NEW CANVAS CONNECTIONS TO THE AHU, DUCTWORK TRANSITIONS AND CONNECTIONS TO THE EXISTING SUPPLY AIR DUCTWORK AND OUTDOOR AIR LOUVER.
- HOT TAP THE EXISTING PIPING MAINS ONE PIPE SIZE LARGER THAN THE CONNECTED PIPING. FURNISH AND INSTALL GATE VALVES. RETAIN THE TAP COUPONS AND DELIVER THE COUPONS TO THE VA PROJECT MANAGER.
- FURNISH AND INSTALL A MOTORIZED DAMPER
- FURNISH AND INSTALL A SPIRAX/SARCO PT2 OR PT3 STEAM TRAP MONITOR AND CONNECT IT TO THE EXISTING MONITORING SYSTEM.
- REINSTALL THE EXISTING STEAM TRAP MONITOR AND RECONNECT IT TO THE EXISTING MONITORING SYSTEM.
- FURNISH AND INSTALL A CAPPED R/A DUCT FOR FUTURE CONNECTION.
- FURNISH AND INSTALL A 20GA, GALVANIZED STEEL OUTDOOR AIR PLENUM ON THE BACK OF THE EXISTING LOUVER.
- REMOVE CONTROL DEVICES, SENSORS, CIRCUITS, ETC AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF THE NEW DDC CONTROL SYSTEM. FURNISH AND INSTALL NEW DDC CONTROLS FOR A FULLY FUNCTIONAL SYSTEM AS SHOWN ON SHEET M-601. SALVAGE THE EXISTING PNEUMATIC CONTROL VALVES AND DELIVER TO A LOCATION AS DIRECTED BY THE VA PROJECT MANAGER. FURNISH AND INSTALL A NEW ELECTRIC CONTROL VALVE.

STATE OF TEXAS
DON W. BARKER
LICENSED PROFESSIONAL ENGINEER
27623
JUNE 13, 2014

NOTE: ORIGINAL DESIGN WORK WAS ISSUED BY MICHAEL T. MOONEY P.E., TEXAS LICENSE NUMBER 97995, ON SEPTEMBER 25, 2012

NOTE: MODIFICATIONS TO THIS DOCUMENT ARE BEING ISSUED AS ADDENDUM NO. 1 BY DON W. BARKER P.E., TEXAS LICENSE NO. 87623.

PROJECT LOCATION
BASEMENT
PIPE SPACE

100% SUBMITTAL



UNIT SHALL CONSIST OF A MOTOR-OPERATED, MODULATED OUTSIDE AIR DAMPER, MODULATING RETURN AIR DAMPER (AHU AC-B-2A ONLY), FILTER/SECTION, STEAM COIL, CHILLED WATER COOLING COIL, FAN WITH VARIABLE SPEED CONTROL AND SAFETY CONTROLS.

FOR HV-PS-1B AND HV-PS-3A: THE DDC SYSTEM SHALL MONITOR THE ROOM TEMPERATURE AND MODULATE THE CHILLED WATER VALVE TO MAINTAIN THE ROOM COOLING TEMPERATURE SETPOINT 75°F (ADJUSTABLE). THE DDC SYSTEM SHALL MODULATE THE STEAM CONTROL VALVE TO MAINTAIN THE ROOM HEATING SETPOINT 72°F (ADJ).

THE DDC CONTROLLER SHALL MONITOR A DUCT STATIC PRESSURE SENSOR (OR SENSORS, AS REQUIRED), LOCATED APPROXIMATELY 2/3 TO 3/4 DOWN MAIN TRUNK LINE FROM THE AIR HANDLER AND REPORT THROUGH THE DDC CONTROLLER. IF THE DUCT STATIC PRESSURE RISES ABOVE THE HIGH LIMIT SETPOINT (1.5 IN. W.G., ADJUSTABLE) THE DDC SYSTEM SHALL ALARM.

SAFETY CONTROLS
A DISCHARGE AIRFLOW TEMPERATURE SENSOR DOWN STREAM OF THE STEAM COIL SHALL BE MONITORED BY THE DDC SYSTEM, IF THE DISCHARGE TEMPERATURE DROPS BELOW 35° F (ADJ.), THE DDC SHALL ALARM, SHUT DOWN THE UNIT AND THE OUTSIDE AIR DAMPER SHALL CLOSE, EXCEPT AHU HV-PS-1B, THAT UNIT SERVES THE TELECOM SYSTEMS, FOR HV-PS-1B: IF THE STEAM COIL DISCHARGE TEMPERATURE FALLS BELOW 35°F (ADJ.) THE DDC SYSTEM SHALL ALARM, THE CHILLED WATER VALVE WILL BE FORCED TO FULL COOLING AND THE UNIT SHALL CONTINUE TO RUN.

FURNISH AND INSTALL TWO MOISTURE SENSORS (KELE MODEL WD-2-T OR APPROVED EQUIVALENT). MOUNT THE 2 MOISTURE SENSORS ON THE FLOOR OF THE MECHANICAL ROOM ON EITHER SIDE OF THE AIR HANDLING UNIT. THE MOISTURE SENSOR SHALL BE CONNECTED TO THE DDC SYSTEM. UPON SENSING MOISTURE THE DDC SYSTEM SHALL ALARM.

[illegible]

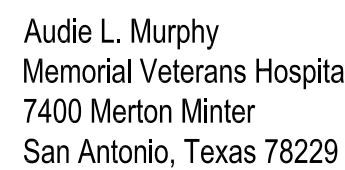
NOTE: THE CONTRACTOR SHALL UPDATE THE EXISTING HOSPITAL EMCS SYSTEM FRONT END SOFTWARE TO INCLUDE VD POINTS, GRAPHICS, SETPOINTS, ALARMS AND THE SEQUENCE OF OPERATION AS INDICATED ON THIS SHEET.

CONTROLS SYMBOLS AND ABBREVIATIONS							
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	AIR FLOW MEASURING STATION		TEMPERATURE SENSOR (AIR OR LIQUID)		LOW WATER SENSOR		HUMIDIFIER
	MOTOR-OPERATED, OPPOSED-BLADE DAMPER		TEMPERATURE SENSOR (ROOM) OR THERMOSTAT		OUTSIDE AIR		CARBON DIOXIDE SENSOR
	PREHEAT COIL		HUMIDITY SENSOR / HUMIDISTAT		RETURN AIR		SPRING OPEN
	COOLING COIL		CURRENT SENSING RELAY		CONTROL WELL (PIPE)		FAIL IN STATE
	HEATING COIL		DISCHARGE DUCT HIGH STATIC PRESSURE SWITCH		STARTER (FAN OR PUMP)		POWER CLOSED
	MOTOR-OPERATED THREE-WAY VALVE		SMOKE DETECTOR		FAN OR PUMP		SPRING CLOSED
	MOTOR-OPERATED TWO-WAY VALVE		HVAC KILL SWITCH		AIR FLOW MEASURING STATION		POWER OPEN
	FREEZE STAT		DUCT-MOUNTED STATIC PRESSURE SENSOR		VARIABLE SPEED DRIVE		
	DIFFERENTIAL PRESSURE SENSOR		VARIABLE SPEED DRIVE		VARIABLE SPEED DRIVE		
			DIFFERENTIAL PRESSURE SWITCH		FLOW SENSOR		

NOTE:
MODIFICATIONS TO THIS DOCUMENT ARE
BEING ISSUED AS ADDENDUM NO. 1 BY
DON W. BARKER P.E., TEXAS LICENSE NO.
87623.

JUNE 13, 2014

Revisions	Date
ADD NO.1	6-13-2014
Project No.	



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Approved: Chief, Maintenance and Operations	Approved: Utility Management Supervisor	Drawing Title		Project Title		Date	
		MECHANICAL CONTROL POINTS		REPLACE HVAC UNITS AT ALMD PHASE IV		09/25/2012	
Approved: Chief, Engineer	Approved: Safety Manager					Scale:	
						AS SHOWN	
	Approved: Environment of Care Manager	Project No.	Contract No.	Designed By	Checked By	Drawn By	Drawing No.
		671-11-113	VA257-P-0249	DS	MM	DS	
	Approved: Facilities Service Line Manager	Building No.	Autocad File Name	Location			
		-	M-601.DWG	SAN ANTONIO, TEXAS			M-601

100% SUBMITTAL

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AIR HANDLING UNIT SCHEDULE

CODE	SUGGESTED MFR. & MODEL NUMBER	SYSTEM TYPE	SUPPLY FAN										STEAM COILS					CHILLED WATER COILS														FILTERS				NOTES		
			FAN TYPE	SERVICE	ACFM	OA CFM	FAN O.V.	FAN DIA	T.S.P.	RPM	HP	VOLT.	STEAM TRAP #/HR	PSIG	E.A.T. db.wb.	L.A.T. db.wb.	S MBH	TYPE	SERVICE	T. MBH	S. MBH	FACE AREA	GPM	W.PD FT	E.W.T.	L.W.T.	E.A.T. db.wb.	L.A.T. db.wb.	A.P.D. INCHES	ROWS	F.P.I.	% EFF	VEL. FPM	QTY	SIZE			
HV-PS-1B	TRANE PERFORMANCE UNIT SIZE 14	VAV, 100% OUTSIDE AIR	FC	SPACE TEMPERING	6500	6500	4437 fpm	12	3.6	1710	10	480/3	485	30	27	90	450.5	2 ROW NS	COOL	540	314.6	13.6 SQ FT	108	12	45	55	99	78	55	54	0.5	6	13	30	360	2	16X25 16X20 3X16	PROVIDE VFD, FLEX CONNECT TO DUCT, SMOKE DETECTOR, MOTOR OPERATED INLET DAMPER, DISCHARGE PLENUM
HV-PS-3A	TRANE PERFORMANCE UNIT SIZE 25	VAV, 100% OUTSIDE AIR	AF	SPACE TEMPERING	13,750	13,750	3138 fpm	20	3.7	2089	20	480/3	866 EACH COIL	30	25	80.0	820	1 ROW NS	COOL	570	562	25 SQ FT	114	12	45	55	95	67	55	53	0.5	4	13	30	275	6	20X20 12X24 16X20 4X12	PROVIDE VFD, FLEX CONNECT TO DUCT, SMOKE DETECTOR, MOTOR OPERATED INLET DAMPER, DISCHARGE PLENUM

NOTE:
ORIGINAL DESIGN WORK WAS ISSUED BY
MICHAEL T. MOONEY P.E., TEXAS LICENSE
NUMBER 97995, ON SEPTEMBER 25, 2012

STATE OF TEXAS

DON W. BARKER

87623

PROFESSIONAL ENGINEER

JUNE 13, 2014

NOTE:
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BEING ISSUED AS ADDENDUM NO. 1 BY
DON W. BARKER P.E., TEXAS LICENSE NO.
87623.

SICU

MAIN HOSPITAL

ECTC

MAIN ENTRANCE

PROJECT LOCATION
BASEMENT
PIPE SPACE

100% SUBMITTAL

Revisions

Rev.	Date	Description
001	09/25/2012	ISSUED FOR CONSTRUCTION

Audie L. Murphy
Memorial Veterans Hospital
7400 Merton Minter
San Antonio, Texas 78229

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Approved: Chief, Maintenance and Operations

Approved: Chief, Engineer

Approved: Facilities Service Line Manager

Approved: Utility Management Supervisor

Approved: Safety Manager

Approved: Environment of Care Manager

Drawing Title
MECHANICAL SCHEDULES

Project No.
671-11-113

Building No.
-

Contract No.
VA257-P-0249

AUTOCAD File Name
671-11-112 M-602.DWG

Location
SAN ANTONIO, TEXAS

Project Title
REPLACE HVAC UNITS
AT ALMD PHASE IV

Design By
DS

Checked By
MM

Drawn By
DS

Date
09/25/2012

Scale
AS SHOWN

Drawing No.
M-602

Veterans Administration

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GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA PROJECT MANAGER PRIOR TO START OF WORK.
2. DRAWINGS BASED ON SITE SURVEYING, HOWEVER, NOT ALL DEVICES MAY BE SHOWN.
3. EXISTING EQUIPMENT SUCH AS DISCONNECTS, PNEUMATIC CONTROLS, ETC. SHOWN ON PLANS TO BE REMOVED COMPLETELY. CUT/CAP CONDUITS AT THE AREA OF WORK PERIMETER AND REMOVE CONDUIT WITHIN THE WORK AREA. DISCONNECT WIRING AT THE OVERCURRENT PROTECTIVE DEVICE AND REMOVE WIRING COMPLETELY FROM THE ABANDONED CONDUITS.
4. REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR RE-USE IN COMPLIANCE W/ THE NATIONAL ELECTRICAL CODE.
5. MAINTAIN AND RESTORE, IF INTERRUPTED ALL CONDUITS AND CONDUITORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

KEY NOTES:

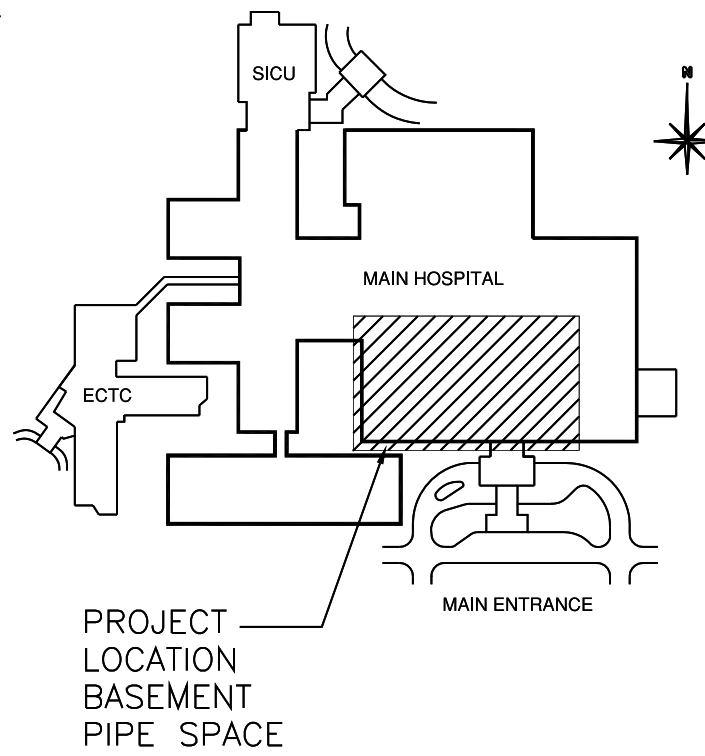
- 1 DISCONNECT THE BRANCH CIRCUIT FROM THE AHU AND REMOVE THE CIRCUIT BACK TO MCC-B1. REMOVE THE DISCONNECTING MEANS, STARTER, ETC.
- 2 FURNISH AND INSTALL A NEW BRANCH CIRCUIT TO THE NEW AIR HANDLING UNIT. MOUNT A NEW DISCONNECT AND VARIABLE FREQUENCY DRIVE AT AN ACCESSIBLE LOCATION THAT IS IN ACCORDANCE WITH NEC DEDICATED SPACE AND WORKING CLEARANCE REQUIREMENTS.
- 3 PROVIDE SUPPLY DUCT-MOUNTED SMOKE DETECTOR PER VAMC STANDARDS. DETECTOR SHALL SHUT OFF AIR HANDLING UNIT UPON DETECTION OF SMOKE, AND ALARM TO EXISTING BUILDING-WIDE FIRE ALARM SYSTEM. PROVIDE ALL WIRE/CONDUIT & ACCESSORIES AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 4 DISCONNECT AND PULL BACK THE TELECOMM EPO CIRCUIT FROM THE STARTER. EXTEND AND CONNECT THE CIRCUIT TO THE NEW VFD CONTACTS. THE VFD SHALL SHUT DOWN ON EPO ACTIVATION.
- 5 REMOVE THE PHASE FAULT UNIT.

LEGEND

TO BE DEMOLISHED

NOTE:
ORIGINAL DESIGN WORK WAS ISSUED BY
ALAN WAYNE ELY P.E., COLORADO LICENSE
NUMBER 31969, ON SEPTEMBER 25, 2012

NOTE:
MODIFICATIONS TO THIS DOCUMENT ARE
BEING ISSUED AS ADDENDUM NO. 1 BY
DON W. BARKER P.E., TEXAS LICENSE NO.
87623.



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Audie L. Murphy
Memorial Veterans Hospital
7400 Merton Minter
San Antonio, Texas 78229

CONSULTANT:

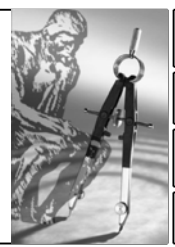


ARCHITECT:



SAUNDERS ARCHITECTS - ENGINEERS

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Approved: Chief, Maintenance and Operations	Approved: Chief, Engineer
Approved: Chief, Engineer	Approved: Chief, Engineer
Approved: Chief, Engineer	Approved: Chief, Engineer
Approved: Chief, Engineer	Approved: Chief, Engineer
Approved: Chief, Engineer	Approved: Chief, Engineer

Approved: Utility Management Supervisor	Approved: Safety Manager
Approved: Safety Manager	Approved: Safety Manager
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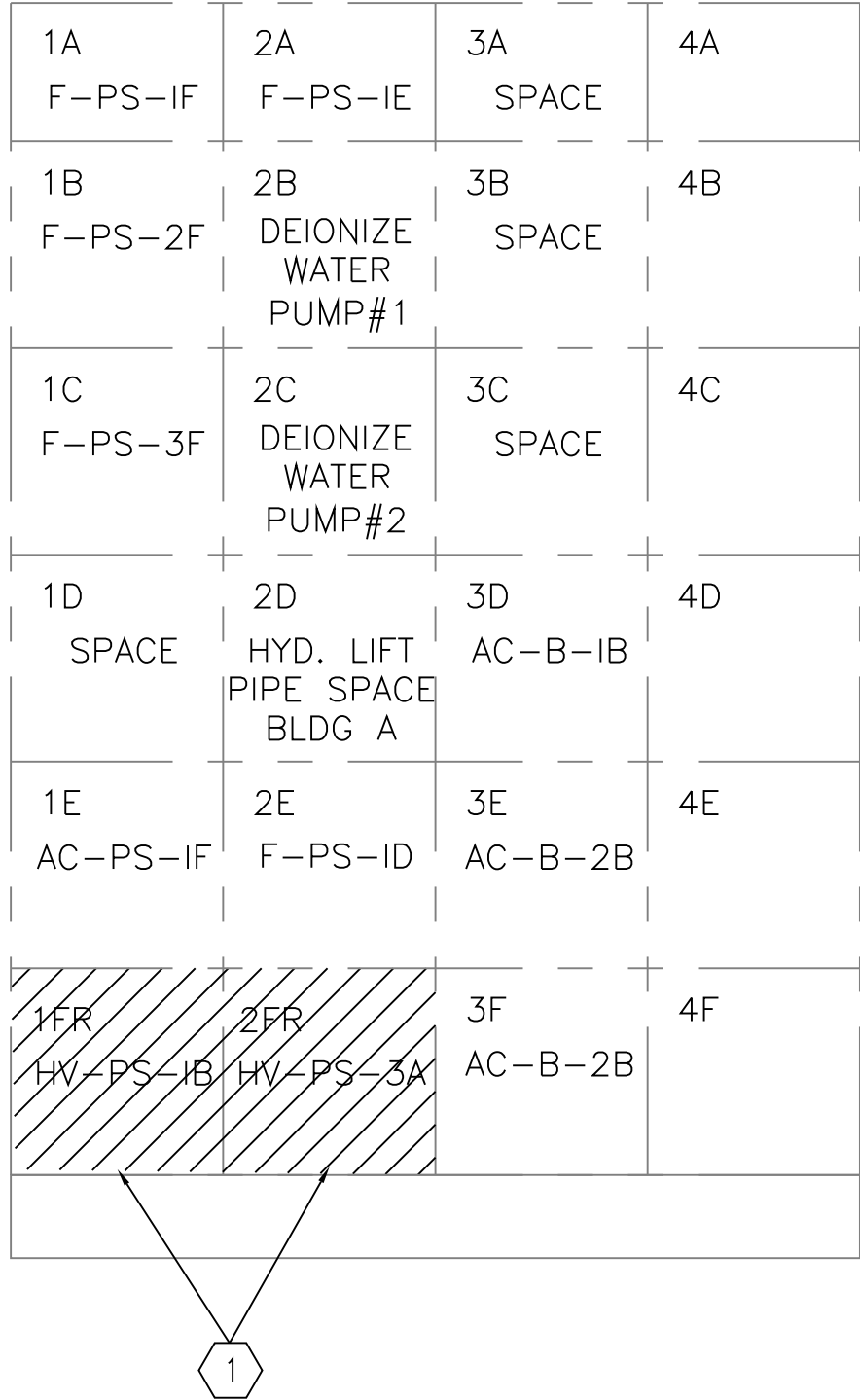
Drawing Title	Project Title
BASEMENT PIPE SPACE ELECTRICAL	REPLACE HVAC UNITS
PLAN	AT ALMD PHASE IV
Project No.	Contract No.
671-11-113	VA257-P-0249
Building No.	Location
-	SAN ANTONIO, TEXAS

Designed By	Checked By	Drawn By
DS	MM	DS
Scale	1/8"=1'-0"	
Drawing No.	E-104	

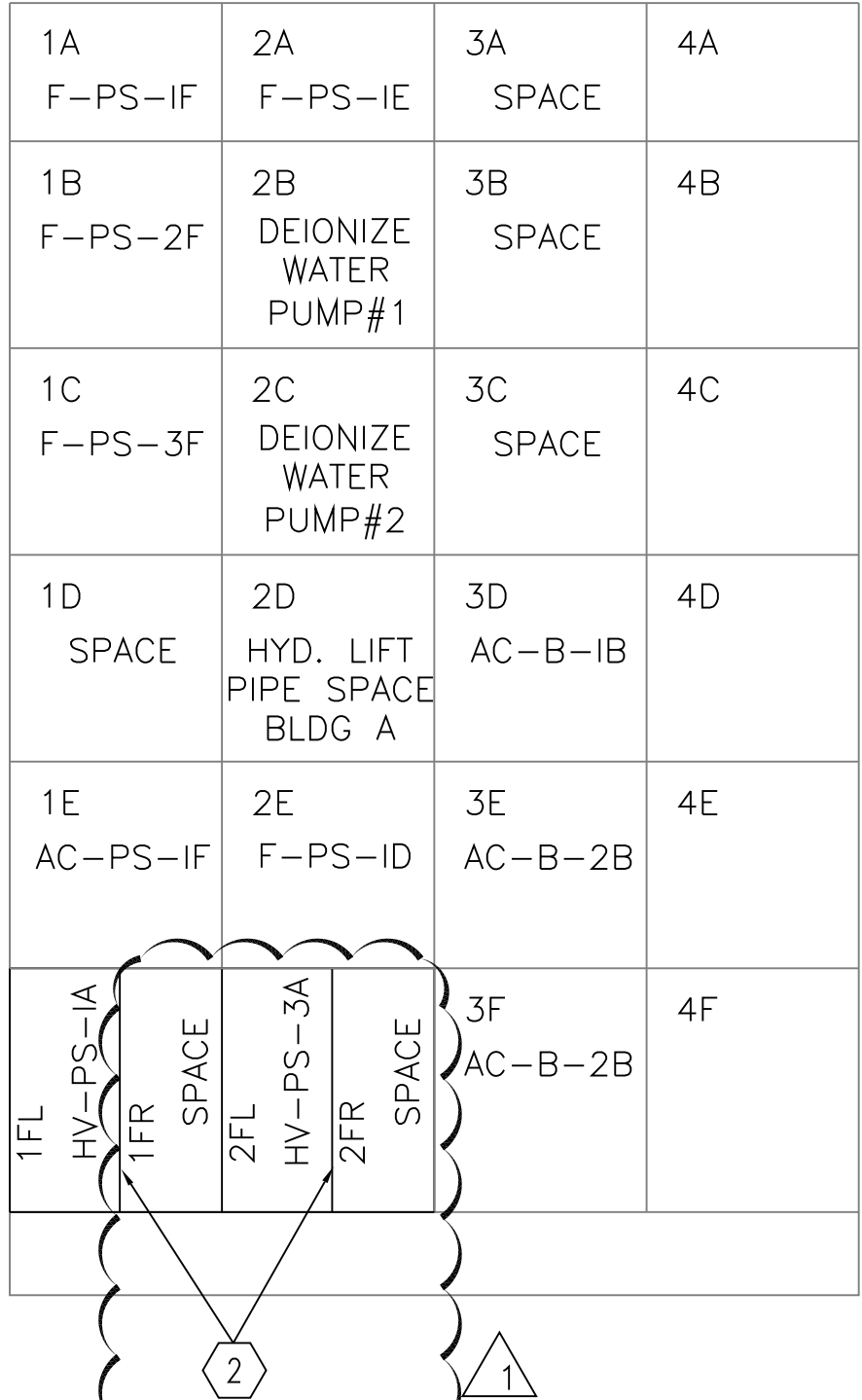
Date	09/25/2012
Scale	1/8"=1'-0"
Drawing No.	E-104

Veterans Administration

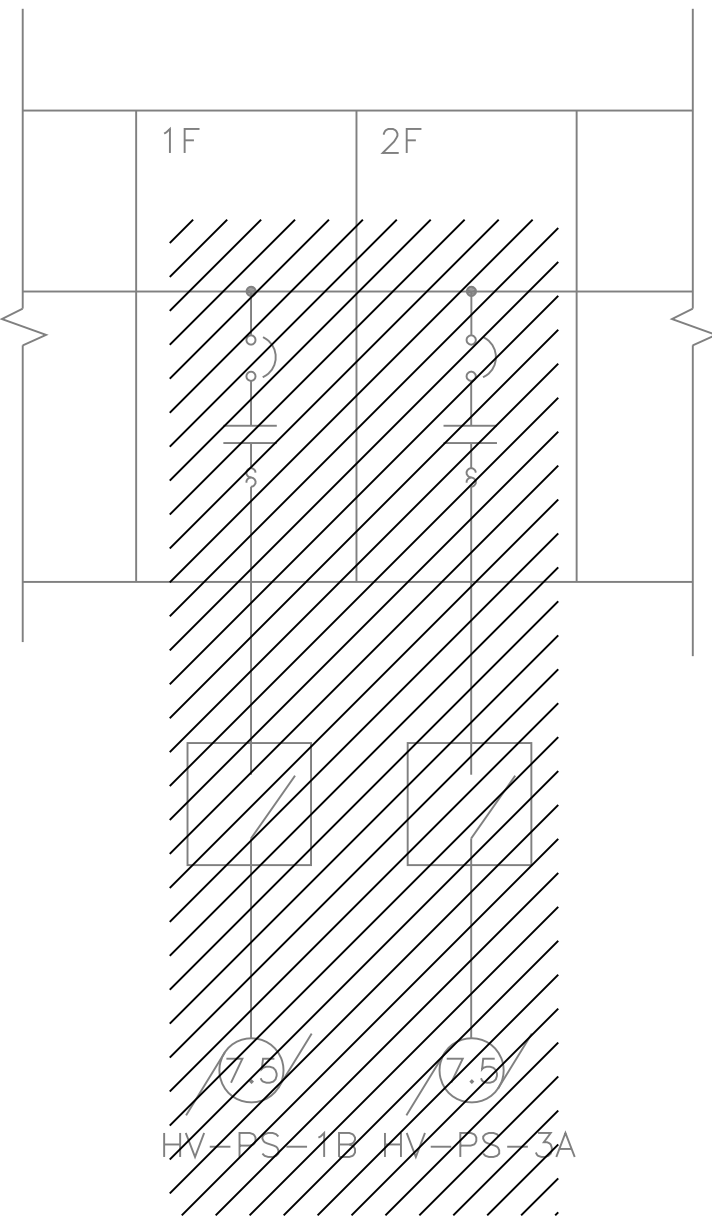
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



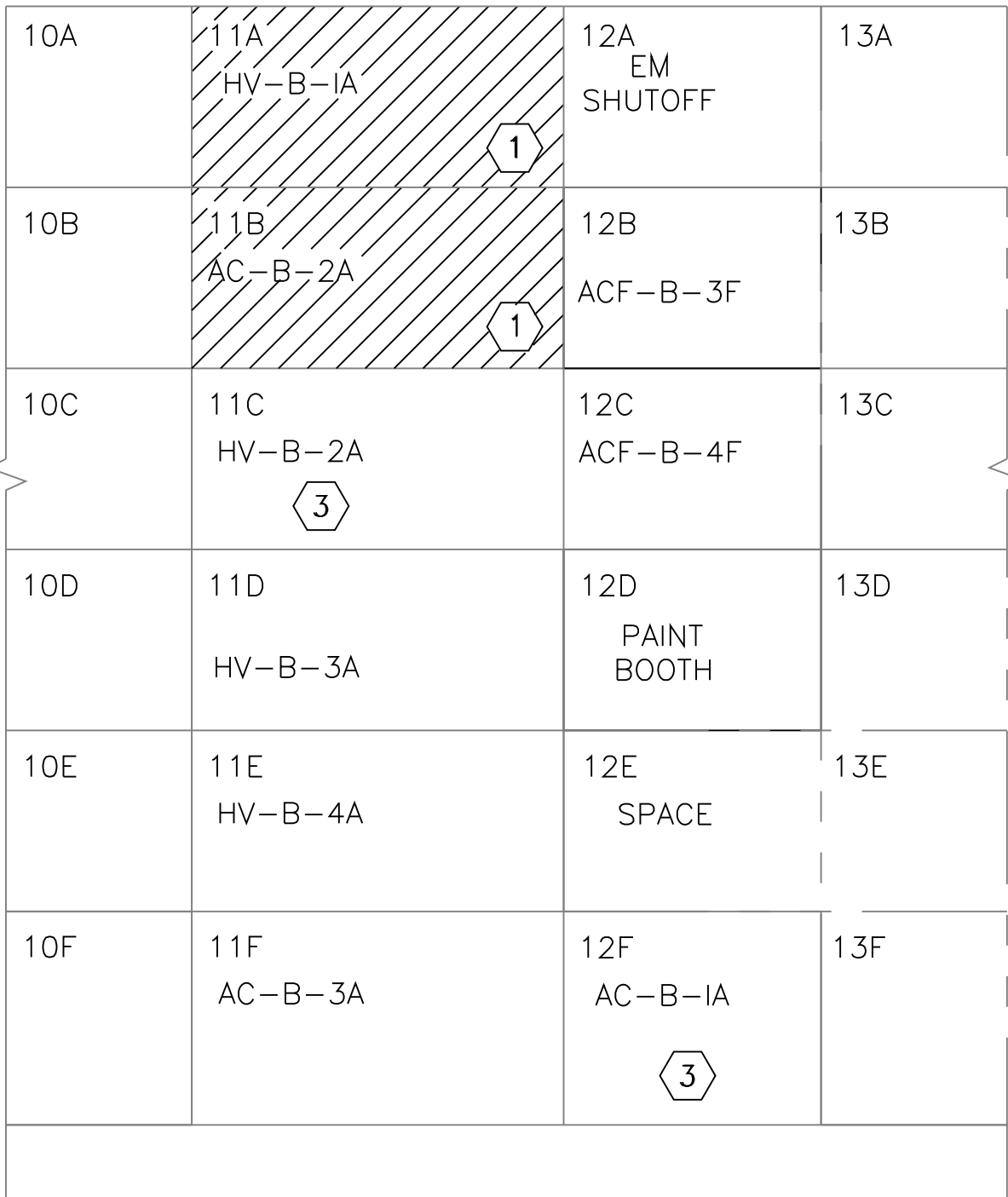
1 MOTOR CONTROL CENTER
MCC-B1 FRONT ELEVATION DEMOLITION
SCALE: NTS



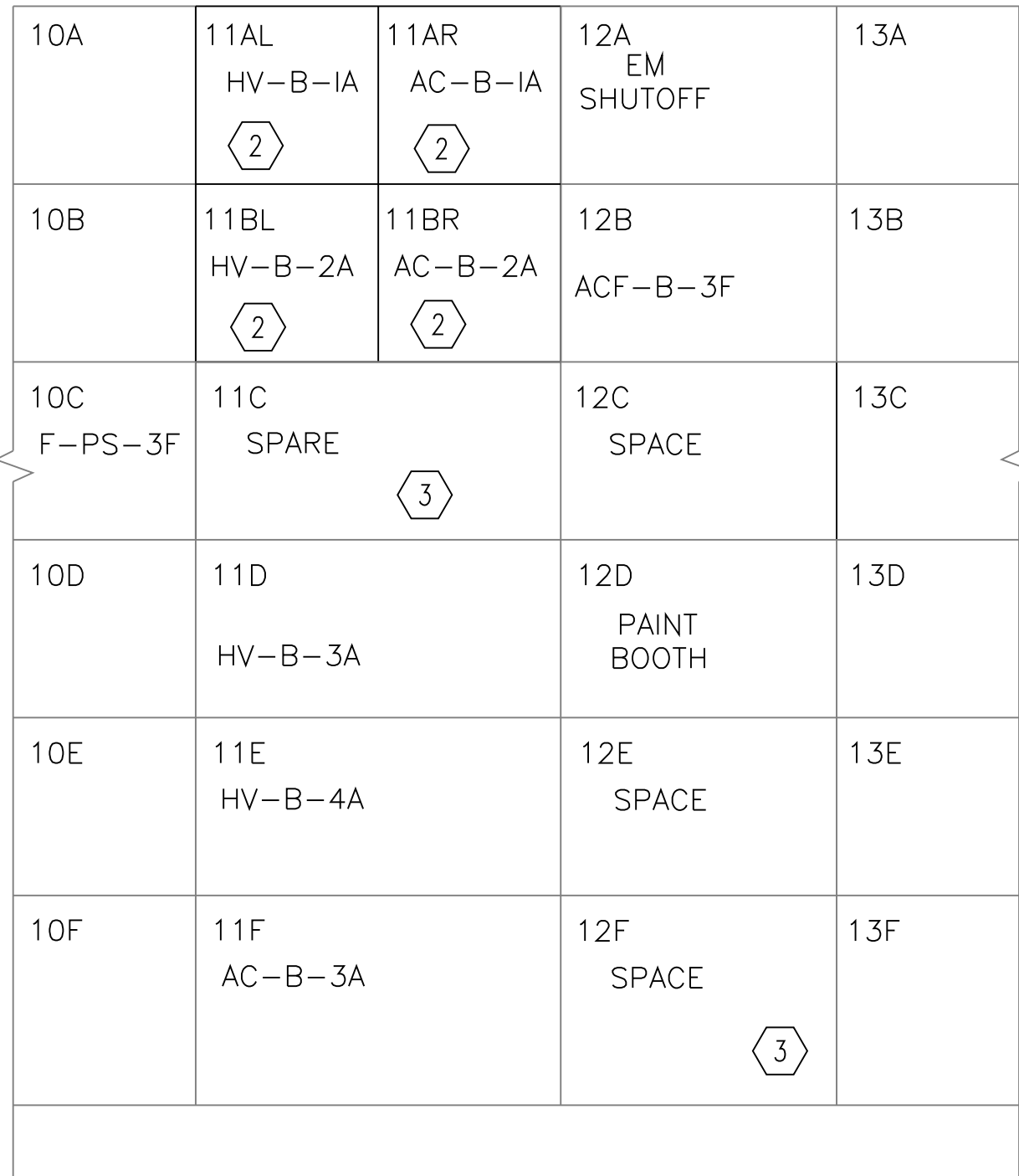
2 MOTOR CONTROL CENTER
MCC-B1 FRONT ELEVATION
SCALE: NTS



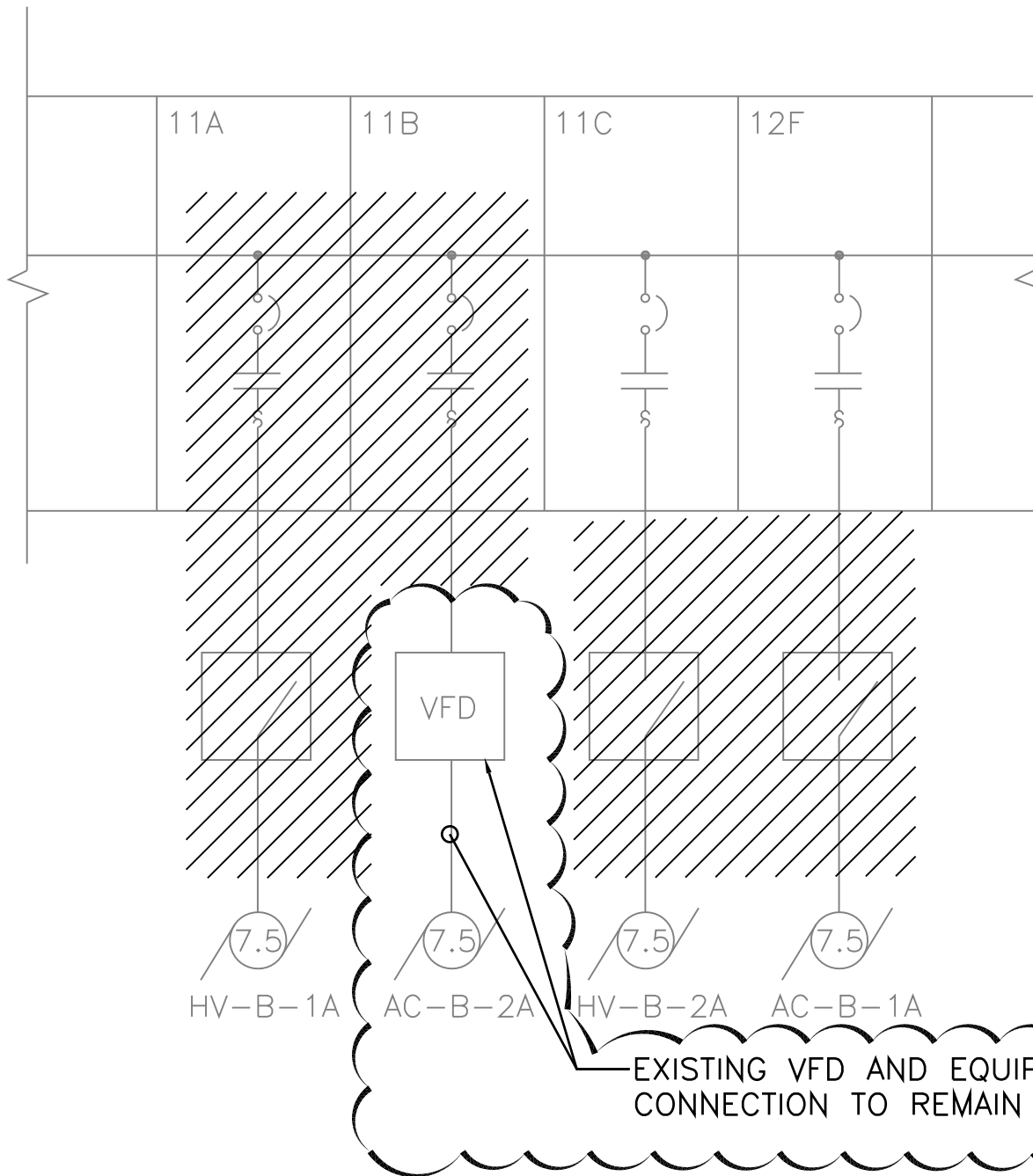
3 MOTOR CONTROL CENTER
MCC-B1 ONE-LINE DEMOLITION
SCALE: NTS



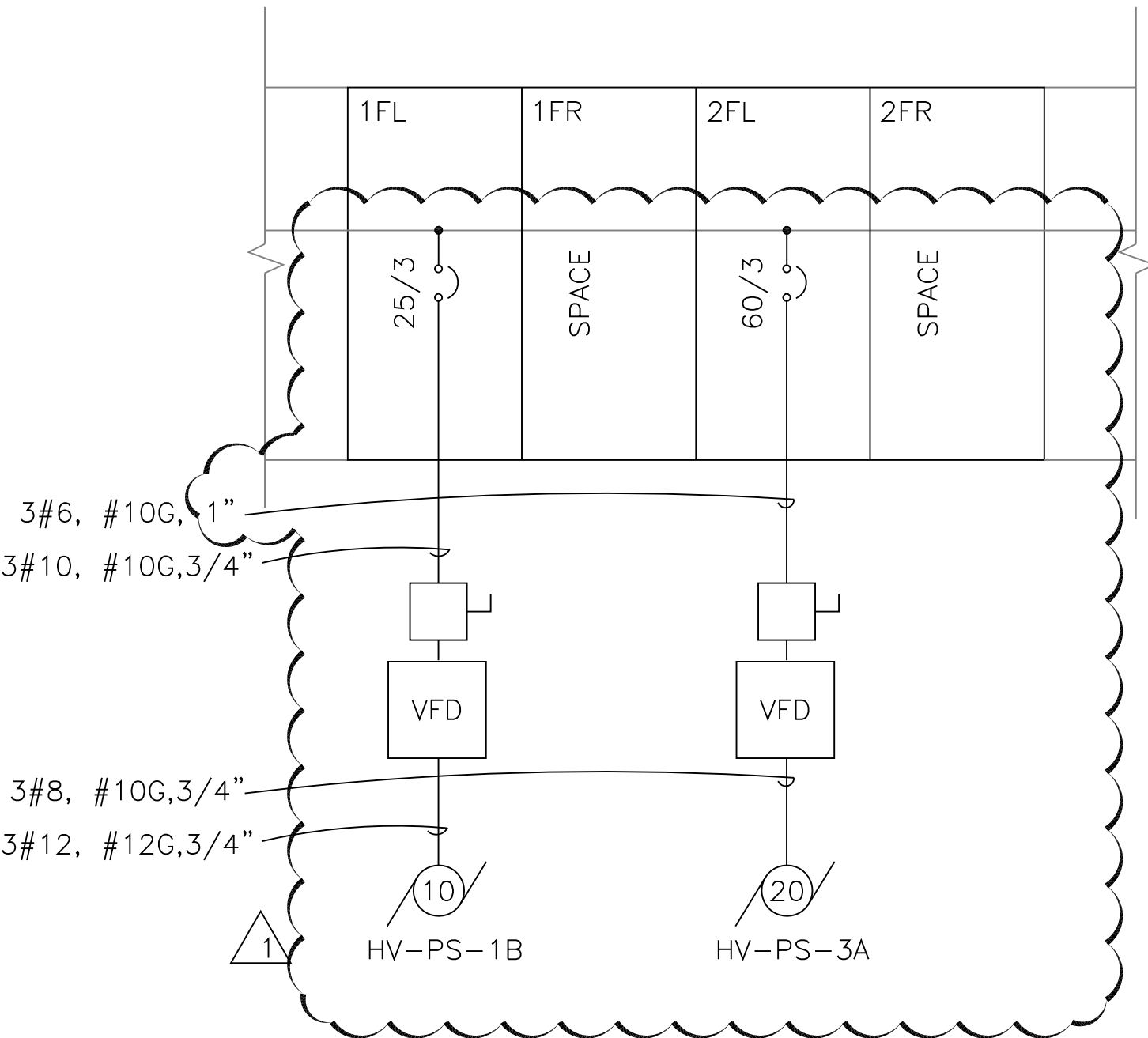
5 MOTOR CONTROL CENTER
MCC-B2 FRONT ELEVATION DEMOLITION
SCALE: NTS



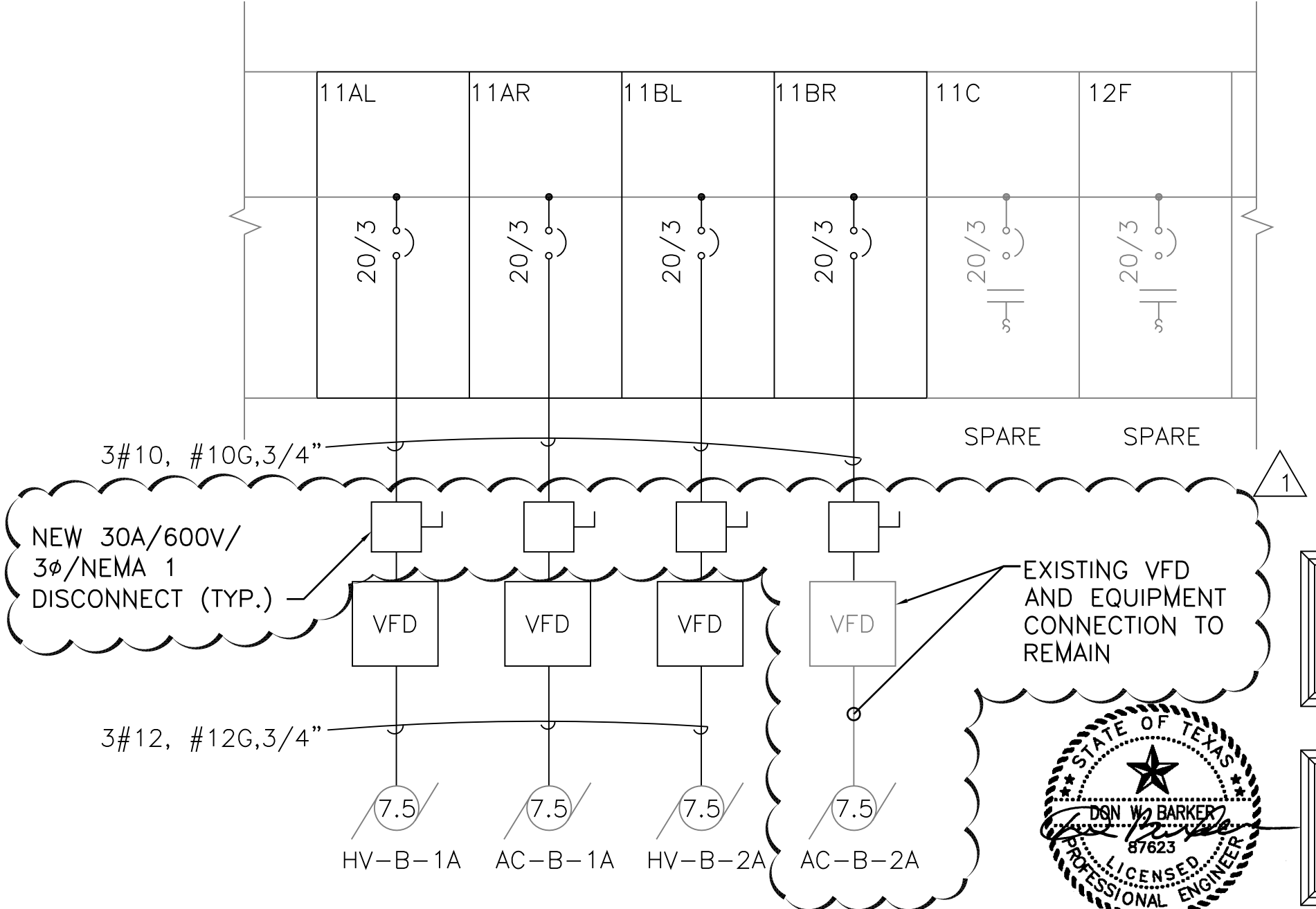
6 MOTOR CONTROL CENTER
MCC-B2 FRONT ELEVATION
SCALE: NTS



7 MOTOR CONTROL CENTER
MCC-B2 ONE-LINE DEMOLITION
SCALE: NTS



4 MOTOR CONTROL CENTER
MCC-B1 ONE-LINE
SCALE: NTS



8 MOTOR CONTROL CENTER
MCC-B2 ONE-LINE
SCALE: NTS

GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO PROJECT START-UP.
2. PROVIDE NEW LABELS FOR MODIFIED COMPARTMENTS AS INDICATED. PROVIDE PER VAMC STANDARDS.
3. EXISTING MOTOR CONTROL CENTERS NOT SHOWN ON FLOOR PLANS. EXISTING MOTOR CONTROL CENTER LOCATED ON BASEMENT LEVEL, MAIN ELECTRICAL ROOM.
4. FIELD DETERMINE BEST BRANCH CIRCUIT ROUTING FROM MOTOR CONTROL CENTERS TO AIR HANDLING UNITS.

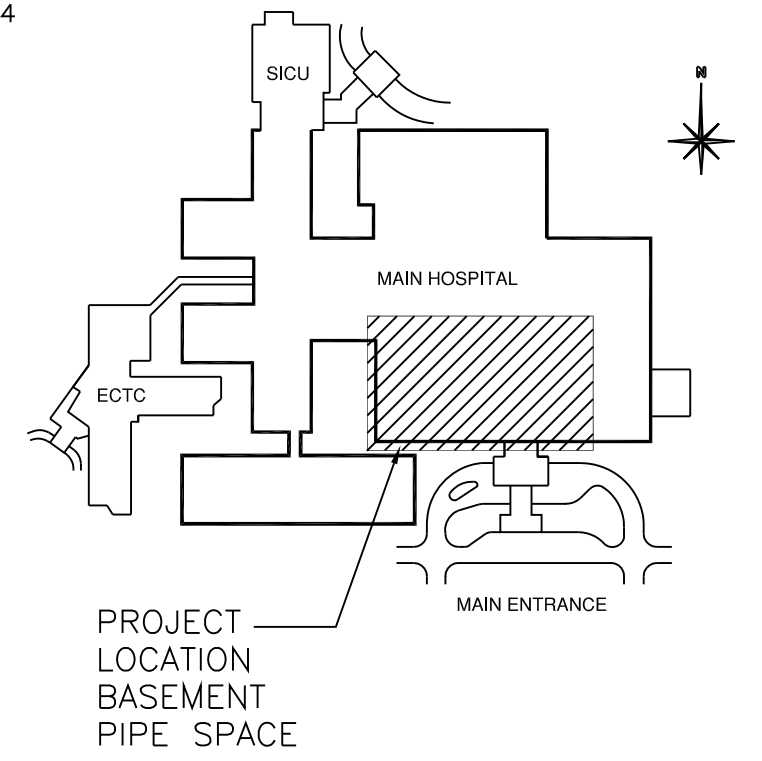
KEY NOTES:

1. REMOVE EXISTING CIRCUIT BREAKER AND MOTOR STARTERS. MODIFY THE COMPARTMENTS FOR NEW CIRCUIT BREAKERS. EXISTING CIRCUIT BREAKERS AND MOTOR STARTERS SHALL BE HANDED OVER TO THE VA PROJECT MANAGER.
2. MODIFY THE MCC FOR SPLIT COMPARTMENTS TO ACCOMMODATE NEW CIRCUIT BREAKERS IN ACCORDANCE WITH THE MANUFACTURES RECOMMENDATIONS.
3. DISCONNECT AND REMOVE CIRCUITS. RE-LABEL COMPARTMENT AS "SPARE"



NOTE:
ORIGINAL DESIGN WORK WAS ISSUED BY
ALAN WAYNE ELY P.E., COLORADO LICENSE
NUMBER 31969, ON SEPTEMBER 25, 2012

NOTE:
MODIFICATIONS TO THIS DOCUMENT ARE
BEING ISSUED AS ADDENDUM NO. 1 BY
DON W. BARKER P.E., TEXAS LICENSE NO.
87623.



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